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LABORATORY

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FY16 LLNL Site Sustainability Plan

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FY2016 Site Sustainability Plan

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Lawrence Livermore National Laboratory
FY2016 Site Sustainability Plan

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Approved by:

William H. Goldstein, Director
Lawrence Livermore National Laboratory

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List of Acronyms

AC	air conditioner
AF	alternative fuel
AFV	alternative fuel vehicle
APP	Affirmative Procurement Program
ASC	Advanced Simulation and Computing Program
ASE	Alliance to Save Energy
ASHRAE	American Society of Heating, Refrigerating and Air Conditioning Engineers
BAAQMD	Bay Area Air Quality Management District
BART	Bay Area Rapid Transit
BTU	British thermal unit
CAC	Cold Aisle Containment
CBI	Capability Based Infrastructure
CD	critical decision
CDD	cooling degree days
CEDR	Consolidated Energy Data Report
CEM	Certified Energy Managers
CO_2	carbon dioxide
CRAC	computer room air conditioners
CVP	Central Valley Project
D&D Team	LLNL's Environmental Restoration Department Decontamination and Demolition Team
DC Pro	Data Center Energy Profiler
DFB	distinguishable from background
DOE	U.S. Department of Energy
DOT	Department of Transportation
e-IWS	electronic Integration Worksheet System
E85	ethanol fuel
EACCS	East Alameda County Conservation Strategy
EDC	Enterprise Data Center
EFA	Environmental Functional Area
EISA	Energy Independence and Security Act
EMF	Emergency Management Facility
EMP	Environmental Management Plan

EMS	Environmental Management System
EO	Executive Order
EPA	U.S. Environmental Protection Agency
EPACT	Energy Policy Act
EPEAT	Electronic Product Environmental Assessment Tool
EPP	Environmental Affirmative Procurement Program
ES&H	Environment, Safety and Health
ESGF	Earth System Grid Federation
ESPC	Energy Savings Performance Contract
FEMP	Federal Energy Management Program
FIMS	Facility Information Management System
FIRP	Facility and Infrastructure Recapitalization Program
FMR	Functional Management Review
FY	fiscal year
GBCI	Green Building Certification Institute
GHG	greenhouse gas
GP	guiding principles
GPP	General Plant Projects
GSA	General Services Administration
GSF	gross square foot/feet
HDD	heating degree days
HPC	high performance computing
HPCIC	High Performance Computing Innovation Center
HPSB	high performance sustainable building
HVAC	heating, ventilation and air conditioning
ICPT	Integrated Contractor Purchasing Team
IGPP	Institutional General Plant Projects
ILA	industrial, landscaping and agricultural
IPCC	Intergovernmental Panel on Climate Change
ISMS	Integrated Safety Management System
ISO	International Organization for Standardization
IT	information technology
kgals	one thousand gallons
kW	kilowatt

kWh	kilowatt-hour
LBNL	Lawrence Berkeley National Laboratory
lbs	pounds
LCW	low conductivity water
LEED	Leadership in Energy and Environmental Design
LFO	Livermore Field Office
LLNL	Lawrence Livermore National Laboratory
LLNS	Lawrence Livermore National Security, LLC
LOS	lighting occupancy sensor
LVOC	Livermore Valley Open Campus
MBtu	one million British thermal units
MPS	Managed Print Services Program
MUSD	Maintenance and Utility Services Department
MW	megawatts
MWh	megawatt hours
NEPA	National Environmental Policy Act
NIF	National Ignition Facility
NNSA	National Nuclear Security Administration
NPDES	National Pollutant Discharge Elimination System
P2	pollution prevention
PC	personal computer
PCMDI	Program for Climate Model Diagnosis and Inter-comparison
PG&E	Pacific Gas & Electric
PPA	Power Purchase Agreement
PUE	power utilization effectiveness
P-V	photovoltaic
R&D	research and development
REC	renewable energy credits
ROI	return on investment
SC13	Supercomputing 2013
SCM	LLNL Supply Chain Management Department
SF	square foot/feet
SF_6	sulfur hexafluoride
Site 200	LLNL Main Livermore Site

Site 300	LLNL High-Explosives Experimental Test Site
SLAC	Stanford Linear Accelerator Center
SSP	Site Sustainability Plan
SSPP	DOE Strategic Sustainability Performance Plan
SWEIS	Site-Wide Environmental Impact Statement
SWPPP	Storm Water Pollution Prevention Plans
T&D	transmission and distribution
TYSP	Twenty-Five Year Site Plan
UESC	Utility Energy Service Contract
USGBC	U.S. Green Building Council
WAPA	Western Area Power Administration

1.0 Executive Summary

This document is presented as the Site Sustainability Plan (SSP) for the Lawrence Livermore National Laboratory (LLNL), consistent with the guidance provided by the Department of Energy (DOE) and the supplemental guidance received on September 28, 2015, as a deliverable for the DOE Order 436.1 *Departmental Sustainability* requirement.

Overview of the Lawrence Livermore National Laboratory

LLNL is a DOE Laboratory dedicated to enhancing the United States' security through the advancement of science and technology. LLNL's mission—to advance and apply science and technology for the benefit of the nation—specifically aims to ensure the safety, security, and reliability of the U.S. nuclear deterrent; reduce or counter threats to national and global security; enhance the energy and environmental security of the nation; and strengthen the nation's economic competitiveness.

LLNL's vision, to "push the frontiers of knowledge to build the scientific and technological foundation that will be needed to address the national security issues of the future," aligns with the nation's vision for a sustainable future. LLNL has a long history of applying science and technological solutions to the toughest and most important problems affecting national and global security and is recognized for its excellence in business and operations, as well as for its responsible stewardship of the resources entrusted to us. LLNL has long engaged in the practice of sustainability, which is integral to the Laboratory's mission, and the mission is vital to the Nation's sustainable future.

LLNL is certified in environmental management (ISO 14001) and occupational health and safety management (ISO 18001), and quality management (ISO 9001).

Site Management Vision

LLNL's vision for site sustainability is to supply its programs with optimal conditions for success, while undergoing continual improvement to existing energy infrastructure; to collaborate with growing mission areas to identify ways to innovate towards more energy and water efficient solutions for energy/water intensive facilities; to pursue innovative renewable energy generation, both for on-site use and as an ongoing research area; and to incorporate energy and water efficiency improvements into the ongoing energy management and facility operations of LLNL.

Major Planning Assumptions and Issues

LLNL is planning for growth in mission-based facilities in the upcoming decade.

In FY2015, the LLNL Operations and Business Principal Directorate, the organization that has provided most of the indirect funding for LLNL's sustainability projects, has directed funding to support the Maintenance & Operations (M&O) preventative maintenance program. An adequately funded preventative maintenance program is essential to keeping real property and programmatic equipment in efficient operating condition, which results in energy savings.

In spite of funding constraints, LLNL has made progress on the sustainability goals for the Laboratory compared to the previous year, including greenhouse gas reduction, energy intensity reduction, and water intensity goals. LLNL understands the importance of continuing to make progress towards the government's sustainability goals, and hopes

to resume funding important sustainability activities in FY2016 and renew progress on greenhouse gas, energy and water goals.

Approaches to Site Management

The Laboratory strives to be a leader in responsible environmental stewardship and sustainability and incorporates sustainability and environmental management into the planning and performance of day-to-day operations and non-routine activities. LLNL's Environmental Management System (EMS) provides a framework for integrating environmental considerations into daily work processes, based on an international standard (ISO 14001), to guide efforts to achieve this goal and continually improve environmental performance. EMS is comprised of four main elements: an environmental policy, planning, implementation, and review and improvement. LLNL's EMS Environmental Management Plans (EMPs) detail the objectives, corresponding commitments, and tracking metrics for Sustainable Acquisition, Municipal Waste Reduction, Greenhouse Gas Reduction, Energy Conservation, Water Conservation, Fossil Fuel Consumption, Hazardous Materials Use/Hazardous Waste Generation, and Ecological Resources Disturbances.

LLNL is dedicated to developing "green" buildings; four buildings are currently Leadership in Energy and Environmental Design (LEED) certified. An additional fourteen buildings have met the guiding principles for the federal High Performance Sustainable Buildings (HPSB) guidelines. As new facilities are constructed, they will meet the HPSB or LEED Gold requirements.

The daily site electrical and natural gas demand at Site 200 and Site 300 is significant. LLNL uses 60+ megawatts of electricity during peak times and 11,612 therms of natural gas each day. The average energy use intensity is 156.9 K BTU/SF, without the excluded areas. In FY2012, LLNL prepared a Sustainability Investment Strategy document. In that document it was stated more than $100M would be needed to meet all of the government's sustainability goals. It would take *significantly* more investment dollars than that to allow LLNL to become a "net zero energy" site.

Funding Strategies

New and existing resources will be leveraged as much as possible in order to help achieve LLNL's sustainability goals. Programs such as the Facility and Infrastructure Recapitalization Program (FIRP) which sunsetted in FY2013, funded replacement of LLNL equipment past its service life with modern, energy-efficient equipment. A new National Nuclear Security Administration (NNSA) program to recapitalize and rehabilitate infrastructure funded by NA-50, the Office of Safety, Infrastructure and Operations provided life-extension projects for enduring facilities and infrastructure such as boiler and chiller improvements, and heating, ventilation, and air conditioning systems. When practical, these projects will ensure that the most energy- and water-efficient equipment is utilized.

Also, an HVAC Asset Management Program (AMP) is currently being launched by NA-50 and will provide funds to upgrade equipment and systems. The B801 Direct Digital Controls (DDC) Upgrade Project is a FY16 AMP funded effort to use smart controls that will yield significant reductions in energy consumption. The new DDC system will control, monitor, and optimize HVAC systems to increase the building's performance.

The indirect (overhead) funding was made available in FY2015 to help replace aged HVAC equipment in B253, B551E, B341 and B827A. In FY2016, indirect funds are slated for replacing two aged cooling towers at U325. These towers are failing, inefficient and have lost 20% of their structural surface due to erosion.

Third party financing options are currently being considered, such as a utility energy service contract with the local utility Pacific Gas & Electric (PG&E). The focus of this effort would be the performance of Energy Independence and Security Act (EISA) facility energy and water audits and a selection of short-payback energy conservation measures projects from the audit recommendations, along with some noteworthy sustainability projects from LLNL's master list.

Indirect funding was requested and granted to fund the Investment Grade Audit (IGA) sponsored by PG&E through its Utility Energy Services Contract (UESC) program in FY2015. The final audit report will be evaluated and prioritized for senior management review.

Successes and Challenges

LLNL had a number of successes and challenges in FY2015. Some highlights include:

- Continued ISO 9001 and ISO 14001 and ISO 18001 certifications
- Continued operation of the pilot project to divert treated well water effluent from the Arroyo to use as make-up water at cooling tower B133, thus saving about 5.6M gallons of potable water.
- Continued to lead a robust scientific and research program that advances renewable energy research, building energy efficiency, climate change research, and greenhouse gas (GHG) mitigation
- Expanded a Personal Electric Vehicle (PEV) charging program to include an additional 8 charging locations (26 total), allowing more employees (currently 31) to drive and charge their personal electric vehicles while paying for electric consumption
- Worked with the DOE Livermore Field Office (LFO) on a solar renewable energy project that is currently scheduled for construction and located on ten acres in the northwest quadrant of LLNL's main site
- Continued the Irrigation Reduction Plan to reduce turf site-wide and further fine-tune irrigation controllers an additional 10% that achieved irrigation water savings of 20 million gallons in response to the historic California drought
- Converted 32,600 SF of existing turf to sustainable landscaping at B111 and West Inner Loop road, estimated to save 684,000 gallons of potable water annually
- FY2016 Sustainable demo garden project to replace about 25,000 SF of browned-out turf area around B551E&W. This demo garden will be irrigated with ground water, estimated to save about 700,000 gallons of potable water annually
- Detailed engineering was started for a treated well water re-use at TF-A through a Reverse Osmosis unit to supply make-up water to OS454 cooling towers, estimated to save 40 million gallons of potable water annually
- Projects were executed to replace old HVAC systems with new energy efficient equipment such as chillers at B131, an AC unit and chiller cross connect piping at B331, boilers at B341, fan coil units at B551E and cooling towers at B827A

Energy Challenges

LLNL is facing three ongoing energy challenges. The first is that LLNL continues to grow in mission areas that are particularly energy-intensive, such as high performance computing (HPC) and the National Ignition Facility (NIF). This is an indication of the success of the Lab's efforts in science and technology development. Programs such as these will impact LLNL's GHG emissions and potable water intensity.

The second issue is aging facilities. Approximately 75% of LLNL buildings are over 30 years old. LLNL has consistently replaced and upgraded its basic real property with the most efficient and cost-effective equipment, however, older facilities are still less energy efficient than new construction.

And third, because the cost of electricity to LLNL is relatively inexpensive (~$0.05 per kWh), many energy savings opportunities that have been identified through the Energy Savings Performance Contract (ESPC) or facility audits cannot demonstrate sufficient payback (of less than 20 years) to warrant the investment.

Summary Table of Goal Targets

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
GOAL 1: Greenhouse Gas Reduction				
1.1	50% Scope 1 & 2 GHG reduction by FY 2025 from a FY 2008 baseline (2015 target: 19%)	In FY2015, LLNL achieved an overall 36.7% reduction from FY2008 baseline.	Efforts will continue to manage gas and electric consumption through energy efficiency projects.	Low
1.2	25% Scope 3 GHG reduction by FY 2025 from a FY 2008 baseline (2015 target: 6%)	In FY2015, LLNL's Scope 3 emissions were 23.5% below the FY2008 baseline.	Scope 3 emissions are likely to remain on target to maintain an overall 25% reduction from FY2008 baseline by FY2025.	Low
GOAL 2: Sustainable Buildings				
2.1	25% energy intensity (Btu per gross square foot) reduction in goal-subject buildings, achieving 2.5% reductions annually, by FY 2025 from a FY 2015 baseline	LLNL achieved 24.27% reduction in FY2015 with revised FY2003 baseline to include additional excluded facilities.	Energy savings through proposed ECM projects will be actively pursued; however significant funding for energy savings projects is required to meet the goal.	High
2.2	EISA Section 432 energy and water evaluations	LLNL completed 72% of its EISA portfolio for the second round as of FY2015.	Ten (10) facilities were selected for the Investment Grade Audit, while nineteen (19) facilities were subjected to Desk Audits in FY2015. Significant funding is required to execute the recommended energy conservation projects. A UESC project is being evaluated.	Medium

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
2.3	Meter all individual buildings for electricity, natural gas, steam and water, where cost-effective and appropriate	90% of electricity achieved (FY2012). 60% of natural gas achieved (FY2015).	In FY2015, LLNL began the implementation of a site-wide legacy electricity meter upgrade effort. Wireless communication methods, such as cellular are also being explored. Additional funding is required to upgrade natural gas meters to meet the FY2015 goal requirements. Steam metering is not required. Chilled water use is captured in the building's energy use and therefore separate metering is not required.	Medium
2.4	At least 15% (by building count or gross square feet) of existing buildings greater than 5,000 gross square feet (GSF) to be compliant with the revised Guiding Principles for HPSB by FY 2025, with progress to 100% thereafter	Task of assessing and certifying 15% of the number of existing occupied buildings greater than 5,000 GSF is 53% complete.	Six HPSB assessments are planned for FY2016.	High
2.5	Efforts to increase regional and local planning coordination and involvement	LLNL continues to maintain good relationships and frequent exchanges with local community planning and government agencies, including the cities of Livermore and Tracy, as well as the counties of Alameda, Contra Costa, and San Joaquin. Interactions include meetings with City of Livermore planners to discuss the collaborative R&D initiative with a proposed Livermore Valley Open Campus, surrounding development, commuters interface with public transits, discussions with water officials in Livermore on wastewater issues, and participation in stakeholder groups to discuss environmental issues and habitat protection.		
2.6a	Net Zero Buildings: Percentage of the site's existing buildings above 5,000 gross square feet intended to be energy,	No existing facility has been identified for Net Zero capability.	A short list of possible candidates will be developed in 2016.	High

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
	waste, or water net-zero buildings by FY 2025			
2.6b	Net Zero Buildings: Percentage of new buildings (>5,000 GSF) entering the planning process designed to achieve energy net-zero beginning in FY 2020	LLNL has not completed any Net Zero design. Funding has not yet been identified for this work.	A short list of future facilities as viable candidates for Net Zero (energy) will be developed in 2016.	High
2.7	Data Center Efficiency. Establish a power usage effectiveness target in the range of 1.2-1.4 for new data centers and less than 1.5 for existing data centers	In 2015, a physical review of the 23 data centers previously reported as decommissioned (2012) was completed. It was found that 2 have been put back in service. Further review of the 2012 data center definition is required to ensure their current usage does not change their status of decommissioned. 38 data centers continue to be in service and operational.	Planned actions for 2016 include renewed focus on LLNL data center consolidation efforts. Evaluating B112 for classified computing and operating as a mixed use facility. Developing requirements for B112 hosting IT hardware from legacy data centers throughout the DOE complex. Finally, based on new DCOI guidance update the 2012 inventory of LLNL data centers.	Medium
GOAL 3: Clean & Renewable Energy				
3.1	"Clean Energy" requires that the percentage of an agency's total electric and thermal energy accounted for by renewable and alternative energy shall be not less than: 10% in FY 2016-2017, working towards 25% by FY 2025	LLNL's energy use is from electricity and natural gas.	LLNL will meet the "Clean Energy" goal by meeting its Renewable Electric Energy goal.	N/A

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
3.2	"Renewable Electric Energy" requires that renewable electric energy account for not less than 10% of a total agency electric consumption in FY16-17, working towards 30% of total agency electric consumption by FY 2025	FY2015 requirement was exceeded by the purchase of 35,169 MWh RECs and 19,266 MWh of renewable electric energy through the Western Area Power Administration (WAPA). LLNL is currently at 13% related to the 30% by FY2025 goal.	The FY2016 requirement will be met through REC purchases. A 3 MW solar project, led by LFO, is expected to be operational in FY2016 and will contribute 80% of its output to the Renewable Electric Energy goal.	Low
GOAL 4: Water Use Efficiency and Management				
4.1	36% potable water intensity (Gal per gross square foot) reduction by FY 2025 from a FY 2007 baseline. (2015 target: 16%)	In F2015, LLNL reduced its water intensity relative to the FY2007 baseline by 21.25%.	LLNL will aggressively continue irrigation reduction plans with focus on water wise landscaping. Further implementation of reverse osmosis technology to replace potable water use in cooling towers will require additional funding to meet FY2025 goal.	Medium
4.2	30% water consumption (Gal) reduction of industrial, landscaping, and agricultural (ILA) water by FY 2025 from a FY 2010 baseline. (2015 target: 10%)	LLNL uses potable water for ILA (non-potable water is not used for ILA).	LLNL is investigating multiple strategies for reducing potable water used for ILA, including using reclaimed water and xerophytic landscaping.	N/A
GOAL 5: Fleet Management				
5.1	20% reduction in annual petroleum consumption by FY 2015 relative to a FY 2005 baseline; maintain 20% reduction thereafter. (2015 target: 20%)	In FY2015, LLNL's petroleum fuel consumption decreased 7.4%, compared to FY2014, and decreased 71% from the FY2005 baseline. LLNL significantly exceeds the required 20% reduction.	LLNL will continue to strengthen its alternative fuel infrastructure by replacing conventional fueled vehicles with AFVs and by promoting the use of alternative fuels.	Low
5.2	10% increase in annual alternative fuel consumption by FY 2015	FY2015 alternative fuel consumption increased 31% compared to FY2014. Overall	LLNL will maintain its alternative fuel vehicle (AFV) fleet and continue to replace	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
	relative to a FY 2005 baseline; maintain 10% increase thereafter. (2015 target: 10%)	increase compared to the FY2005 baseline is 371%.	the existing fleet with E85, hybrid, and plug in electric vehicles.	
5.3	30% reduction in fleet-wide per-mile greenhouse gas emissions reduction by FY 2025 from a FY 2014 baseline. (2015 target: N/A; 2017 target: 4%)			TBD, Insufficient information, unable to assess at this time
5.4	75% of light duty vehicle acquisitions must consist of alternative fuel vehicles (AFV). (2015 target: 75%)	LLNL met and exceeded the required 75% replacement of fossil fuel light-duty vehicles with AFVs in FY2015. Over 87% of light-duty vehicles scheduled to be replaced in FY2015 were replaced with AFVs.	LLNL will continue replacing its fleet with AFVs as manufacturers make them available. LLNL is exploring AFV options, specifically in the area of electric vehicles.	Low
5.5	50% of passenger vehicle acquisitions consist of zero emission or plug-in hybrid electric vehicles by FY 2025. (2015 target: N/A)			TBD, Insufficient information, unable to assess at this time
GOAL 6: Sustainable Acquisition				
6.1	Promote sustainable acquisition and procurement to the maximum extent practicable, ensuring BioPreferred and biobased provisions and clauses are included in 95% of applicable contracts.	Sustainable Acquisition or Environmental Affirmative Procurement Program (EPP) clauses have been incorporated into all eligible LLNL General Provisions (GPs) for purchase orders and subcontracts. As a result, LLNL is in compliance with the requirement to include sustainable acquisition clauses in all eligible contract actions.	LLNL will continue to include Sustainable Acquisition or Environmental Affirmative Procurement Program clauses as identified in the General Provisions in all eligible purchase orders and subcontracts. LLNL will continue to implement and periodically update Procurement Standard Practice 23.5, Environmental Affirmative Procurement and Waste Reduction	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
			Requirements as required and apply it to all LLNL procurement activities.	
GOAL 7: Pollution Prevention and Waste Reduction				
7.1	Divert at least 50% of nonhazardous solid waste, excluding construction and demolition debris	LLNL consistently meets or exceeds this goal. In FY2014, LLNL diverted 76% of nonhazardous solid waste.	LLNL continues to identify new potential waste streams for diversion.	Low
7.2	Divert at least 50% of construction and demolition materials and debris	LLNL consistently meets or exceeds this goal. In FY2014, LLNL diverted 62% of construction and demolition materials and debris.	Tracking of construction and demolition materials and debris continues for FY2016.	Low
GOAL 8: Energy Performance Contracts				
8.1	Annual targets for performance contracting to be implemented in FY 2017 and annually thereafter as part of the planning of section 14 of E.O. 13693	In FY2015, LLNL engaged utility provider PG&E to perform an Investment Grade Audit (IGA) in development of a UESC project. In FY2016, LLNL will evaluate the merits of the recommended ECMs proposed in the IGA.		
GOAL 9: Electronic Stewardship				
9.1	Purchases – 95% of eligible acquisitions each year are EPEAT-registered products	LLNL has consistently met this goal since FY14.	Continue to receive quarterly EPEAT reports from blanket agreement suppliers (Holman's, PC Specialist (dba Technology Integration Group), and Perfect Output) to monitor performance.	Low
9.2	Power management – 100% of eligible PCs, laptops, and monitors have power management enabled	100% of eligible PCs, laptops, and monitors are implemented with power management functionality; monitors are powered off after 30 minutes idle time, PCs and laptops are	Continue desktop refresh program and desktop power management project.	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
		put into stand-by mode after 30 minutes of idle time.		
9.3	Automatic duplexing – 100% of eligible computers and imaging equipment have automatic duplexing enabled	Multifunction devices and printers purchased under LLNL's managed print services blanket agreement possess duplex printing capabilities and this function is enabled when the contractor installs the device. LLNL has not performed an assessment to determine the percentage of devices lab wide with this feature enabled.	Through LLNL's existing EMS the existing printing policy will be reviewed and revised as necessary to increase paper and toner savings.	Low
9.4	End of Life – 100% of used electronics are reused or recycled using environmentally sound disposition options each year	LLNL has a process to evaluate excess electronics for either reuse or recycling options.	LLNL continues to look for reuse options first before sending for recycling.	Low
GOAL 10: Climate Change Resilience				
10.1	Update policies to incentivize planning for, and addressing the impacts of climate change	Through LLNL's existing environmental policy, the Lab commits to continuously improve environmental performance.	LLNL plans to follow any direction and guidance from DOE in completing a climate vulnerability assessment and adaptation plan. The assessment and plan would serve to identify existing resilient actions and areas for increasing actions to build resilience against predicted climate threats. Through this process, the Lab would also identify and update as needed policies as they relate to climate change.	Low
10.2	Update emergency response procedures and protocols to account for projected climate change, including extreme	LLNL currently incorporates into its emergency response program a broad range of hazards and environmental aspects, potential consequences, and lessons learned from	Particular responses to extreme weather events and other longer term impacts from climate change are planned for analysis during the vulnerability assessment process, and would	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
	weather events	simulated and actual emergencies. Several hazards that are already incorporated into the emergency response program overlap with immediate climate change hazards, for example risks of wild fire from extreme drought.	be incorporated into existing emergency response procedures as needed under direction from DOE.	
10.3	Ensure workforce protocols and policies reflect projected human health and safety impacts of climate change	LLNL's existing workforce protocols and policies reflect the value of each worker returning home daily in the same or better condition than when they arrived at work. This sweeping approach to health and safety allows for adaptation as needed, including for extreme weather events.	Specific impacts of projected extreme weather events and other impacts from climate change are planned for review during the vulnerability assessment process under direction from DOE. Protocols and policies would continue to be adapted as needed to address the findings of the vulnerability assessment.	Low
10.4	Ensure site/lab management demonstrate commitment to adaptation efforts through internal communications and policies	LLNL management is committed to effective communication and supportive of all Lab policies.	LLNL management will continue to demonstrate commitment to adaptation efforts through internal communications and policies.	Low
10.5	Ensure that site/lab climate adaptation and resilience policies and programs reflect best available current climate change science, updated as necessary	LLNL works to anticipate, innovate and deliver solutions for the nation's most challenging security problems. LLNL's scientists and engineers include those working on the front lines to advance climate science. LLNL applies the best available science in all decision making.	LLNL plans to execute the vulnerability assessment and adaptation planning process under direction from DOE with input from our own climate scientists, and using the latest tools available for predicting and planning the effects of climate change.	Low

2.0 Performance Review and Plan Narrative

SSPP Goal 1.1
50% Scope 1 & 2 GHG reduction by FY2025 from a FY2008 baseline

LLNL's GHG footprint is defined by three major scopes of GHG emissions. These are depicted in Figure 2-1. LLNL quantifies emissions within each scope, as well as targets reductions according to scope-related reduction goals. LLNL owns or controls sources from all three direct GHG emissions. Scope 3 emissions are addressed under goal 1.2 in this section.

LLNL's Scope 1 emissions are the result of direct emissions associated with fuel combustion or fugitive emissions. LLNL's Scope 2 emissions are a result of indirect emissions associated with consumption of purchased or acquired electricity. All other potential Scope 2 emissions are not applicable to LLNL. Scope 1&2 GHG emissions are offset by the estimated annual GHG emissions avoided by purchased renewable energy certificates.

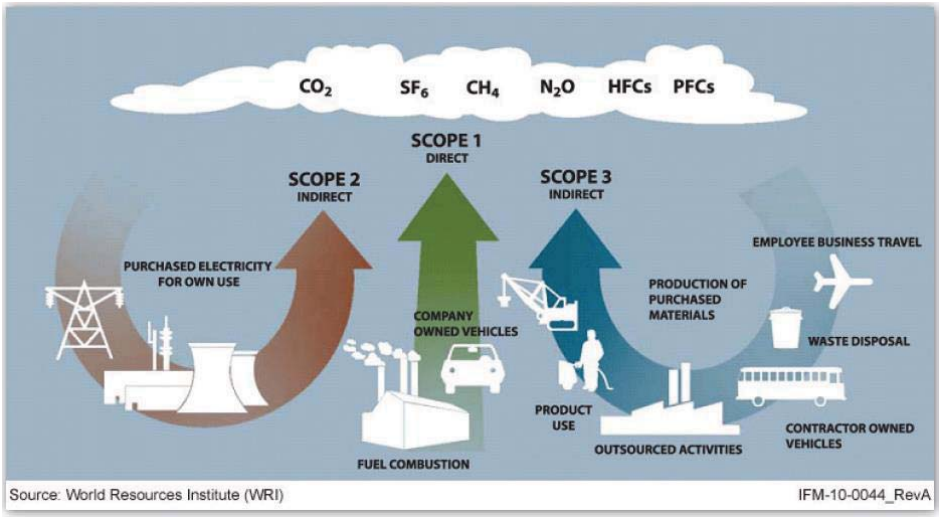


Figure 2-1. The three major scopes of GHG emissions.

LLNL's Scope 1 & 2 emissions include:

- Natural gas fuel combustion for the generation of electricity, heat, cooling, or steam (e.g., boilers, furnaces, and emergency generators)
- Combustion of fuels in mobile combustion sources including LLNL's General Services Administration (GSA)-leased vehicles, commercially leased, and agency-owned vehicles
- Fugitive emissions from fluorinated gases and refrigerants, including mixed refrigerants used in refrigeration and air conditioning equipment
- Operation of the sewage lagoon at Site 300
- Indirect emissions associated with electricity consumption
- Estimated indirect emissions avoided by purchased renewable energy certificates (emissions offset)

LLNL continues to assist DOE in working to achieve the 50% GHG reduction goals. LLNL's Site 200 and Site 300 major sources of Scope 1 & 2 GHGs are influenced primarily by the management of natural gas, fossil fuels, electricity, and fugitive emissions (SF_6 and others).

Factors influencing Scope 1 & 2 emissions are addressed in various activities and accomplishments described throughout this document, including:

- Energy intensity reduction
- Renewable energy consumption
- Reducing fleet petroleum use
- Metering
- Cool roofs
- Pollution prevention and waste reduction
- Sustainable acquisition and electronic stewardship

Overall Reduction of Scope 1 & 2 Greenhouse Gas Emissions

DOE's goal for Scope 1 & 2 is a 50% reduction in the generation of Scope 1 & 2 GHG emissions by FY2025 from the FY2008 baseline. LLNL's GHG reductions for Scope 1 & 2 are largely driven by the plans described in this document. LLNL has achieved an overall reduction of 36.7% from baseline for Scope 1 & 2 emissions. Aggressive reduction of SF_6 in programmatic equipment over the past few years coupled with the increased purchase of renewable energy certificates (RECs) has helped LLNL exceed the FY2015 reduction goal of 19%.

Performance Status (28% Scope 1 & 2 GHG reduction by FY2020 from a FY2008 baseline)

In FY2015, LLNL achieved a reduction of 36.7% in Scope 1 & 2 GHG emissions, relative to its FY2008 baseline. Significant efforts focusing on LLNL's continued management of SF_6 usage and the offsets of purchased RECs for wind and purchased renewable electric energy from incremental hydroelectric power along with minimizing electrical energy use have contributed to this year's reduction achievement. These have helped LLNL exceed the Scope 1 & 2 emissions reduction target of 19% for FY2015.

The LLNL SF_6 Management and Capture Plan (LLNL-AR-483031-REV-1) documents ongoing SF_6 use, describes current and future efforts to minimize emissions to the extent practical, and provides the basic framework for how LLNL plans to manage SF_6 operations with reduction goals in mind.

Over the last several years, LLNL has significantly raised the awareness on environmental issues with the continued use of SF_6, and as a result, GHG emissions related to SF_6 remain low.

Plans and Projected Performance (50% Scope 1 & 2 GHG reduction by FY2025 from a FY2008 baseline)

LLNL has already successfully reduced GHG emissions through aggressive reduction and management of fugitive emissions from equipment using SF_6. Scope 1 & 2 GHG reductions for FY2016 and beyond will largely be dependent on LLNL's management of electrical energy since this is LLNL's largest contributor to Scope 1 & 2 GHG emissions. See Figure 2-4. Refer to the sections that address Goal 2.1 (energy intensity reduction) and Goal 3.2 (electrical consumption from renewable energy sources).

Scope 1&2 GHG Emissions Breakdown			
Categories	Baseline (2008)	FY 2014	FY 2015
Energy and Water	156,687.7	150,466.2	130,675.4
Mixed Refrigerants	736.3	663.4	1,311.7
Fugitive Emissions	34,578.6	2,738.2	9,996.9
Industrial Processes	0.0	0.0	0.0
On-Site WWT	7.2	11.6	12.2
On-Site Landfill MSW	0.0	0.0	0.0
Fleet Fuel	1,773.0	1,137.5	1,076.7
Purchased Renewables	0.0	0.0	0.0
RECs (subtracted)	NA	19,310.6	20,444.8
Total	**193,782.7**	**135,706.4**	**122,628.1**

Figure 2-4a. Scope 1 & 2 CO_2 reduction by source.

The measures described in this document all have the potential to assist in GHG emission reductions, and they will be carried out if deemed economically feasible and supportive of mission. Future growth of LLNL continues to be centered on energy-intensive facilities and research, including the NIF, HPC, and other program-related areas, all of which will increase LLNL's GHG emissions. It should be noted that though LLNL has been successful with the reductions in SF_6, this is only part of the picture and does not necessarily translate into overall GHG reductions.

LLNL will continue to maintain the SF_6 Management and Capture Plan for managing SF_6 purchase, usage and storage.

Ongoing efforts to support SF_6 regulatory reporting include maintaining documentation on R&D uses, and reporting emission data from the electrical utility usage.

Resources Required

The majority of resources required to reduce LLNL's overall Scope 1 & 2 emissions are related to activities addressed under other goals, especially those related to energy intensity reduction and renewable energy use. LLNL is not likely to achieve any additional emissions reductions unless electrical energy consumption can be reduced.

LLNL will continue to work on documenting and tracking SF_6 uses on-site.

As the LLNL SF_6 management program becomes more developed, the number of projects where alternatives to SF_6 can be used becomes smaller. However, the remaining uses, specifically those in the high-voltage applications and accelerators, are typically characterized by robust containment and transfer systems and are contained in systems that can detect significant releases fairly quickly. While the major users of SF_6 may not be able to eliminate the use of SF_6 in the near future, program management and researchers need to continue to ensure that the gas is used in a manner that minimizes the amount released.

SSPP Goal 1.2

25% Scope 3 GHG reduction by FY2025 from a FY2008 baseline

Scope 3 includes all indirect emissions not included in Scopes 1 & 2. Employee commuting and business air travel, along with transmission and distribution (T&D) losses associated with electricity use continue to account for the majority of Scope 3 emissions. LLNL's Scope 3 emissions are offset by the estimated annual GHG emissions associated with T&D losses that were avoided by purchased renewable energy certificates.

LLNL Scope 3 GHG emissions include:

- Employee commuting
- Employee business travel
  - Air travel
  - Rental or privately owned vehicle mileage
- Off-site (contracted) domestic wastewater treatment
- Off-site municipal solid waste disposal
- Electrical T&D losses
- Estimated avoided T&D losses associated with purchased renewable energy certificates (emissions offset)

Performance Status (13% Scope 3 GHG reduction by FY2020 from a FY2008 baseline)

In FY2015, the Laboratory maintained an overall reduction of 23.5% in Scope 3 emissions from the FY2008 baseline, exceeding the 6% reduction target for FY2015. Contributing factors to this year's emissions reduction include a reduction in commute travel and purchased renewables. Note that electrical energy use also impacts Scope 3 GHG emissions through T&D losses.

Scope 3 GHG Emissions Breakdown			
Categories	Baseline (2008)	FY 2014	FY 2015
Energy and Water	8,624.1	6,775.8	7,131.9
Air Travel	9,709.0	8,015.3	8,412.5
Ground Travel	1,217.7	1,253.3	1,401.9
Commute	25,708.0	19,123.4	18,455.6
Off-Site WWT	19.6	14.1	13.7
Off-Site Landfill MSW	729.8	607.2	597.2
Purchased Renewables	NA	1,068.4	538.3
RECs (subtracted)	NA	1,272.0	1,346.7
Total	**46,008.2**	**35,585.6**	**35,204.4**

Figure 2-4b. Scope 3 CO_2 reduction by source.

The Laboratory maintains an active Alternate Work Schedule, allowing most employees to opt in to a 9/80 or 4/10 work schedule. Over 2,100 employees (38 percent of the Livermore site workforce) have elected an alternate work schedule that reduces their commute by 10 percent (9/80s) or 20 percent (4/10s).

LLNL continued its personal electric vehicle (PEV) pilot program that was started in 2014. The program was expanded to a total of 26 charging stations during 2015. The program has 31 employee participants paying a monthly charging fee. This reduces GHG emissions by about 110 MtCO2e annually.

Figure 2-5. Personal Vehicle charging station

A new regulatory requirement, Bay Area Air Quality Management District (BAAQMD) Regulation 14 Rule 1 was adopted in March 2014. Regulation 14 addresses mobile source emissions reduction measures, and Rule 1 implements the Bay Area Commuter Benefits Program. Employers, such as LLNL, having over 50 employees are required to offer at least one of three commuter benefit options to all covered employees. LLNL had previously already established a pre-tax option program, allowing employees to pay for transit passes or vanpool charges from pre-tax wages. This existing LLNL program meets Option 1 of the Commuter Benefit Options requirement.

The data in the Consolidated Energy Data Report (CEDR) tab 8.3 Commute continues to use the annual U.S. DOT California Transportation Profile Chapter D Table 4-1 – Commuting to Work for employee commuting. This table is used to apportion the LLNL employee population by commuting category with one change. The DOT Work From Home category is merged into the personal vehicle category to more closely reflect the LLNL employee population.

Many webinars and other online conferencing options are increasingly available and can be used in lieu of business travel. LLNL's Information & Communications Services organization provides a WebEx Meeting Center for audio-visual communications with other locations, as well as support for audio and video conferencing, including Voice over IP (VoIP). A travel authorization process ensures that employee business travel is necessary and appropriate. Many LLNL organizations reduced or restricted travel significantly during the past few years due to budget cuts. Opting for teleconferencing and webinars instead of travel has had the additional incentive of reduced business costs over traditional travel.

LLNL has a well-established recycling program that consistently exceeds the 50% goals for diversion of municipal waste from landfill. Everything from aluminum soda cans to tires and toner cartridges are included in LLNL's recycling program. In addition, compostable materials are collected in both onsite cafeterias and many high-occupancy office buildings. Composting and recycling programs that divert waste from landfill are discussed in detail under SSP Goals 5.1/5.2 below.

Plans and Projected Performance (25% Scope 3 GHG reduction by FY2025 from a FY2008 baseline)

LLNL Scope 3 emissions reductions will continue to focus on opportunities to reduce employee commuting and business travel. Any efforts related to Scope 3 emissions reductions will also be impacted by electrical energy use. Annual T&D losses associated with electrical energy use generate roughly as many GHG emissions as business air travel.

Tasks associated with the greenhouse gas environmental management plan include identifying opportunities for employee telecommuting and encouraging video-conferencing and webinar/online training instead of travel when these options are available.

Resources Required

Normal business processes are in place for this goal.

SSPP Goal 2.1
25% energy intensity reduction by FY2025 from an FY2015 baseline

Performance Status (30% energy intensity reduction by FY2015 from an FY2003 baseline)

LLNL's energy intensity was better in FY2015 compared to FY2014. At the end of FY2015, the net energy use intensity reduction savings was 24.27%, relative to the revised FY2003 baseline. Figure 2-6 illustrates the savings using the updated baseline. No facilities were demolished in FY2015 due to a lack of funding. The Facility Information Management System (FIMS) list of facilities excluded from the energy intensity goal is attached in the Appendices section of this plan. The Energy Usage and Cost Report is included in the Consolidated Energy Data Report (CEDR).

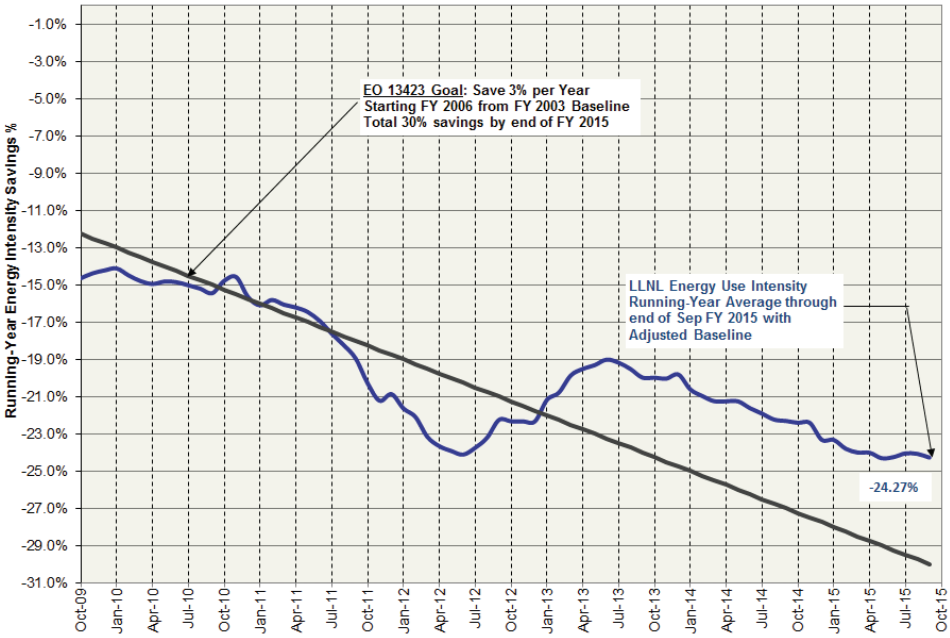


Figure 2-6. Energy Use Intensity Savings through end of FY2015 (running year energy intensity savings with zero REC credits and FY2014 exclusions.

LLNL continues to explore its energy usage in order to better understand how to strive towards reduction. The energy chart in Figure 2-7 estimates the sources of energy by type. The energy chart was updated with FY15 data and was created by incorporating metered data, lighting estimates, and equipment inventory. HVAC systems (29%) and lighting (17%) continue to be the two largest users of energy at LLNL. The breakdown helps to indicate where specific energy conservation efforts should be directed.

LLNL continues to implement cost-effective energy conservation projects, as funding permits. In FY2015, no funding was available for ECMs; however, the UESC-sponsored Investment Grade Audit (IGA) was funded to move forward. The report is due at fiscal year-end and the recommended ECMs will be evaluated by LLNL and prioritized.

In FY2015, LLNL was again challenged to meet its energy intensity reduction goal. The warmer-than-normal summer was responsible for increasing the electricity consumption in the summer months, and the milder-than-normal winter was responsible for decreasing our natural gas consumption in the winter months. In the summer of FY2015, there were 19% more cooling degree days (CDD) than the summer of FY2014, and for the entire year, 68% more than the base year FY2003, resulting in an increased burden on the Laboratory's HVAC cooling systems (Figure 2-8). However, if the MWh per CDD used is considered, LLNL shows a downward trend using 125 MWh per CDD in

FY2015 compared to 207 MWh per CCD in FY2014, 227 MWh per CDD in FY2013, 266 in FY2012, and 356 in the base year FY2003.

On the plus side, FY2015 winter was mild, compared to the base year. There were 20% less heating degree days (HDD) than in the winter of FY2014, and 38% less than the base year FY2003 (Figure 2-8a).

In spite of the increases in cooling, LLNL continued to reduce electricity usage in goal-subject buildings by 25%. Similarly, natural gas use in goal-subject buildings was lower by 15% from the FY2003 baseline.

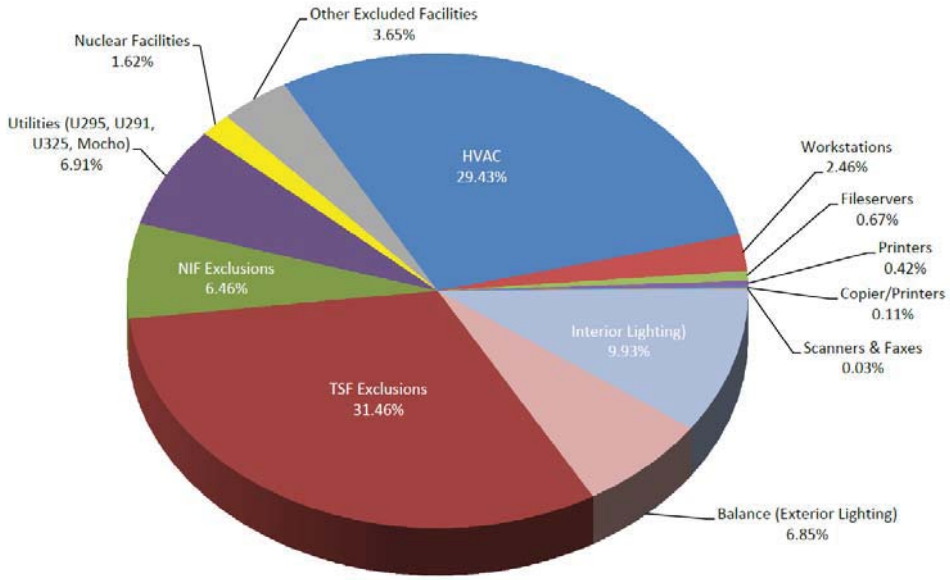
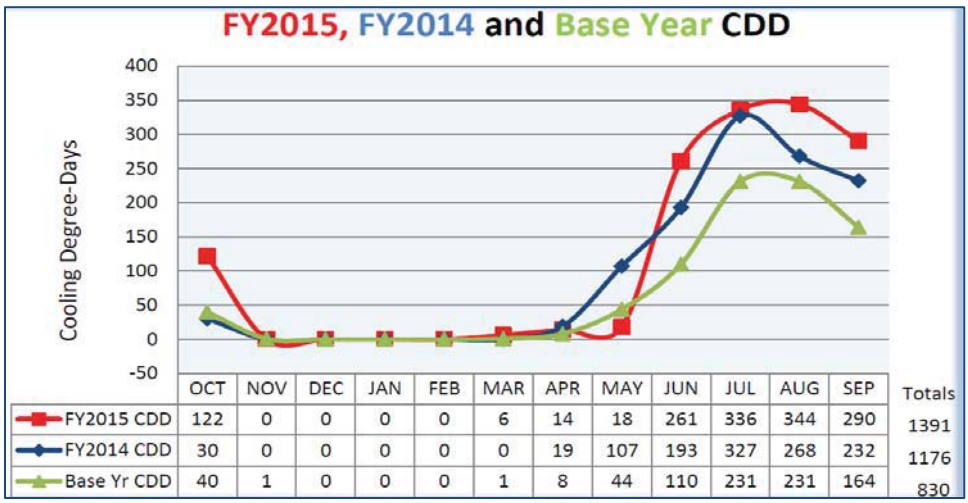
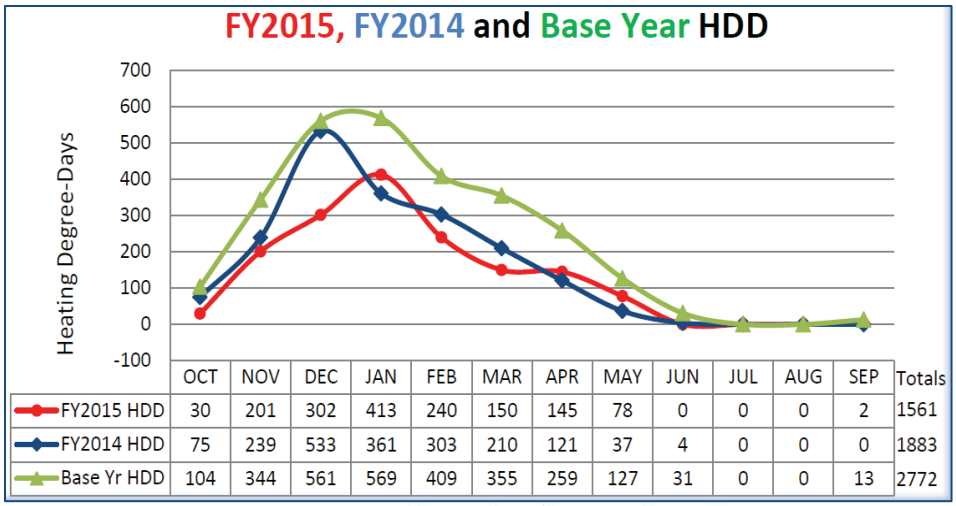


Figure 2-7. LLNL FY2015 Energy Use



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Totals
FY2015 CDD	122	0	0	0	0	6	14	18	261	336	344	290	1391
FY2014 CDD	30	0	0	0	0	0	19	107	193	327	268	232	1176
Base Yr CDD	40	1	0	0	0	1	8	44	110	231	231	164	830

Figure 2-8. Comparison of Cooling Degree Days (CDD)



	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	Totals
FY2015 HDD	30	201	302	413	240	150	145	78	0	0	0	2	1561
FY2014 HDD	75	239	533	361	303	210	121	37	4	0	0	0	1883
Base Yr HDD	104	344	561	569	409	355	259	127	31	0	0	13	2772

Figure 2-8a. Comparison of Heating Degree Days (HDD)

Plans and Projected Performance (25% energy intensity reduction by FY2025 from an FY2015 baseline)

LLNL has developed a comprehensive list of energy savings projects that includes the results from the EISA audits, compliance issues, deferred maintenance projects (that have a significant energy savings), metering evaluations, and grassroots suggestions. The list will continue to evolve and expand as new energy efficiency opportunities are identified. The list is prioritized by the energy savings return on investment (ROI) compared to the project costs. In FY2015, LLNL teamed up with the local utility, Pacific Gas & Electric (PG&E) on a proposed Utility Energy Service Contract (UESC), resulting in the performance of an Investment Grade Audit (IGA). In FY2016, LLNL will evaluate the IGA report and prioritize the ECMs for submittal to senior management.

A Functional Management Review (FMR) was conducted in FY2013 to evaluate LLNL's electrical and mechanical maintenance programs. LLNL requested funding to address the various recommendations listed in the FMR report. All initiatives have not been fully funded. LLNL has made progress in increasing HVAC staffing and funding for preventive and corrective maintenance for HVAC systems, and focusing attention on distributed elements of the HVAC system.

LLNL continues to evaluate and implement grassroots suggestions for energy savings projects wherever possible and will implement them as funding permits. LLNL continues to distribute energy usage data on the metered facilities to the respective facility managers. When an increase in metered electricity is detected, the facility managers are engaged to find the cause and solutions for the increase.

Employees continue to send suggestions to our Energy Management Group through the "Sustainability at LLNL" website. LLNL's EMS website also has a section that encourages sustainability suggestions. The ideas are evaluated and if deemed appropriate, are added to the comprehensive list of energy intensity savings projects.

One of the DOE/IG-0869 audit recommendations was to "Implement best practices related to billing for electricity usage to the maximum extent practicable." This was LLNL's practice prior to the contract transition, but stopped to simplify internal accounting in compliance with DOE cost accounting standards.

In addition to reductions in energy intensity and electrical and gas utilization, the actions mentioned above also help reduce LLNL's GHG emissions.

Based on LLNL's best estimate of available resources for FY2015, it is estimated that energy intensity savings will be 25% with an energy use of 906 BBTU for the year, considering the total building area of 5,764K SF. As funding becomes available, LLNL will attempt to exceed this goal.

The Site Actual and Projected Electricity Consumption Table is shown in Figure 2-9; the Load Forecast Chart is shown in Figure 2-10.

Fiscal Year	2015A	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Forecast Total Electricity Consumption	424	426	429	433	438	443	448	453	458	464	469
HEMSF Facility 1 (TSF) (x10^6 kWh)	137	144	151	159	167	175	184	193	202	213	223
HEMSF Facility 2 (NIF) (x10^6 kWh)	25	26	28	30	32	34	36	38	40	42	44
Estimated Load after Energy Efficiencies	408	410	414	418	424	429	434	440	445	452	457

Figure 2-9 Site Actual and Projected Electricity Consumption (x 10^6 kWh)

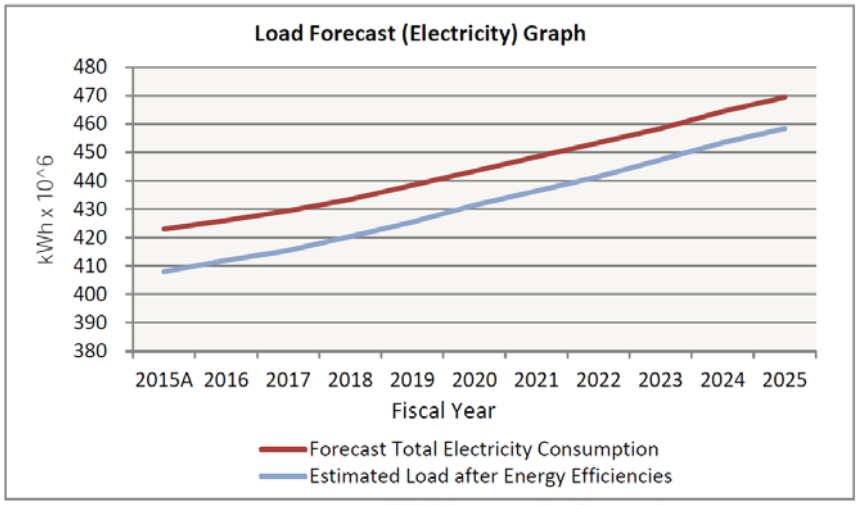


Figure 2-10. LLNL energy load forecast

Resources Required

Funding will be required for projects identified in the CEDR, including the installation of additional programmable thermostats, interior and exterior lighting upgrade projects, and other energy conservation-related projects. LLNL is continuing to develop a strategy to justify energy conservation projects in comparison to its low cost of electricity.

Plans to reduce deferred maintenance, while at the same time increasing energy efficiency, will be implemented as funds become available. When replacing aging equipment identified in the master deferred maintenance list, new equipment will be the latest, most energy-efficient type available.

Resources have been requested for energy intensity reduction measures for FY2016.

Figure 2-11 lists projects that, if funded and implemented, would allow LLNL to meet its energy intensity reduction goals.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY16 ($M)	FY17 ($M)	FY18 ($M)	FY19 ($M)	FY20 ($M)
Building Automation Systems/EMCS	5	0.9	5.6	1	1	1	1	1
Electric Motors and Drives, Variable Speed Motors and Drives	2	0.54	3.7	0	0.5	0.5	0.5	0.5
Site-wide Lighting Improvements, Exterior	3	0.4	7.5	0	1	1	1	0
Site-wide Lighting Improvements, Interior	5	3.8	1.3	0	0.5	1.5	2	1

Figure 2-11. Proposed projects in support of SSPP Goal 2.1

SSPP Goal 2.2
EISA Section 432 energy and water evaluations

In FY2015, ten (10) facilities were selected for the Utility Energy Services Contract (UESC) Investment Grade Audit (IGA) sponsored by the local utility Pacific Gas & Electric (PG&E). Nineteen (19) facilities were subjected to internal Desk Audits. These audited facilities represent 72% of our EISA portfolio for the second round of audits.

Energy audits to meet EISA Section 432 and efforts to increase efficiency (e.g. combining energy audits with condition assessment surveys), along with recommissioning/retro-commissioning, are continually being evaluated. Meetings with managers of facilities identified with an increase in electricity are being held to discuss the recent energy audit recommendations to plan a path forward, beginning with those recommendations that offer the most energy savings opportunities.

There are four qualified Certified Energy Managers (CEM) working for LLNL. As funds become available, LLNL hopes to increase the number of CEMs as some Facility Managers or Facility Points of Contact are being encouraged to enroll in the program.

Significant funding is required to execute the recommended energy conservation projects identified by previous audits. A UESC project is being evaluated in FY2016.

SSPP Goal 2.3
Meter all individual buildings for electricity, natural gas, steam and water, where cost-effective and appropriate

Performance Status

The Metering Plan will be updated to align with the November 2014 Federal Building Metering Guidance document. LLNL's commitment to support the DOE Strategic Sustainability Performance Plan (SSPP) and comply with Energy Policy Act (EPACT) 2005 and EISA 2007 regulations is exemplified in this latest issue of the Metering Plan. LLNL is committed to monitor and reduce its energy usage and find innovative ways to lead the complex while at the same time meeting its mission goals. This updated metering plan not only outlines the plan to continue the repair of meters, but highlights LLNL's new goal to upgrade existing legacy metering before they fail.

LLNL's metering portfolio, as of October 1, 2015, is shown in Figure 2-12.

		Number of Meters	Number of Buildings
Electricity			
	Advanced Individual	114	116
	Advanced Shared	134	247
	Standard	58	27
	No Meter	0	21
	Total	308	411
Natural Gas			
	Equipment Meters	18	14
	Building Meters	18	14
	No Meter	0	0
	Total	36	28
Water			
	Advanced	14	0
	Standard	13	1
	Total	27	1

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Figure 2-12. LLNL is currently developing a complete water meter deployment plan. Due to the low water use, a measurement plan for water use at Site 300 has not been in place since 2007.

Plans and Projected Performance

Below is a summary of how LLNL's performance compared to the SSPP goals.

SSPP Metering Stretch Goals	FY2015 Performance Status	Planned Actions and Key Issues
Meter all individual buildings for electricity, natural gas, steam and water, where cost-effective and appropriate	90% achieved as of the end of FY12.	The LLNL plan to repair failed legacy electricity metering was continued in FY2015. A new effort to perform complete meter upgrades is underway, and will be continued as funding becomes available. Additional funding is required to upgrade natural gas and water meters to meet the FY2016 goal requirements. Steam metering is not required. Chilled water use is captured in the building's energy use and therefore separate metering is not required.

In FY2015, modem-based electricity meters were taken out of production. As a result, LLNL shifted it's strategy from repairing existing modem-based meters to complete meter upgrade in order to maintain compliance with its metering goals. An effort to explore alternative, more cost-effective methods of metering communication, such as cellular, has also begun.

Electricity meter audits were continued in FY2015, and will continue into FY2016. Audits collect vital information necessary to plan and schedule meter replacements and upgrades.

Additional funding and staffing resources are needed to continue audits, replacement and upgrades of failed and existing legacy electricity meters, as well as exploration of more effective and innovative metering methods.

LLNL's first electricity meter with cellular communication capabilities was approved for purchase in FY2015. It is currently being tested and linked to MV90. Once deployed in the field, wireless communication technologies will greatly reduce the costs and efforts involved in meter upgrades

A complete upgrade of all legacy electricity meters for B381 was performed in April of 2015

The Itron VT-2 meter is an example of LLNL's legacy electricity metering. Access to a meter of this type poses a safety hazard due to its proximity to exposed live terminal blocks. The metering plan addresses the goal to replace these meters as part of the site-wide meter upgrade effort.

Resources Required

LLNL has requested funding for additional metering projects in FY2016. Figure 2-13 lists projects that, if funded, will ensure that appropriate LLNL facilities meet SSPP Goal 2.3 for natural gas and potable water metering. These projects are intended to help change behaviors and improve operations to achieve energy efficiencies.

Project	Project Cost ($M)	Savings ($M)	Simple Payback (Yrs)	FY16 ($M)	FY17 ($M)	FY18 ($M)	FY19 ($M)	FY20 ($M)
Natural Gas Metering	3.6	0.065	54	0.25	0.5	1.5	1	0.35
Potable Water Metering	1.5	0.025	59	0.25	0.25	0.5	0.25	0.25

Figure 2-13 proposed projects in support of SSPP Goal 2.3

SSPP Goal 2.4
At least 15% (by building count or gross square feet) of existing buildings greater than 5,000 gross square feet (GSF) to be compliant with the *revised* Guiding Principles for HPSB by FY 2025, with progress to 100% thereafter

Performance Status

Four LEED building certifications (B142, B264, B451, and B453) were completed in 2008–2011 and six initial building assessments using the DOE HPSB Assessment Tool were completed in 2011–2012. Assessments for eight additional buildings stand at 95% completion, awaiting funding for the purchase and installation of occupancy-sensing lighting controls. These eighteen buildings have met (or will meet) the requirements of the five HPSB Guiding Principles: Integrated Design, Energy Performance, Water Use Reduction, Indoor Environmental Quality, and

Materials Conservation, either through the use of the HPSB Assessment Tool or the LEED Existing Building: Operations and Maintenance rating system.

Candidate buildings continue to be identified so that HPSB Assessments may proceed after funding has been identified for the effort. The current number of occupied buildings over 5,000 square feet in the enduring inventory is 124 with a total square footage of 5,612,642; fifteen percent of this is 19 buildings with a total square footage of 841,896. In FY2014, ten buildings have been assessed using the LEED system or the HPSB Assessment Tool (53% complete), with a total square footage of 395,775 (47% complete). An additional nine assessments based on building count and an additional 446,121 square feet based on square footage need to be assessed to achieve the 15% goal (Figure 2-17).

Plans and Projected Performance

Building 311 is scheduled for U.S. Green Building Council (USGBC) LEED submittal in FY2015/FY2016. The estimated cost of development of the submittal packages of this building is estimated at $60K, which includes staff time for researching building history, building assessments, completion of USGBC LEED templates, and providing all required support documentation. An initial survey of the lighting and HVAC systems identified and implemented opportunities for lower cost improvements that had a positive effect on the building's overall energy savings; currently, additional funding is being sought to make the remaining changes. A small portion of the funding is set aside for the registration and review fees charged by USGBC/Green Building Certification Institute (GBCI). Existing campus-wide documentation, primarily based on LLNL's EMPs, will continue to be utilized in the building assessment documentation process. Funding has been requested for this effort.

Pending funding availability in FY2016, Buildings 211, 272, 423, 515, 531and 691 are scheduled for DOE HPSB assessments which are embedded in the EPA Portfolio Manager benchmarking website. The facilities will be assessed and all relevant information will be reported using the HPSB Assessment Tool. This includes tracking all energy usage, building ventilation and overall systems' performance, irrigation studies for possible water savings, and demonstrating that green cleaning, integrated pest management, and low-emitting materials are in use.

Resources Required

The overall scope of this project is anticipated to require a multi-year effort, and scheduling of upcoming projects is based primarily on staff availability; there is no dedicated HPSB staff at this time. Funding needed to complete the long-range tasks will be requested in future fiscal years.

The estimated cost of development of the submittal packages for Building 311 is estimated at $60K. The estimated cost of development of the HPSB submittal packages of ten buildings is estimated at $6K each.

Pending funding, additional staff may be hired and/or current staff will be trained to aid in completing more USGBC LEED/HPSB assessment templates and providing all required support documentation.

Funding has been requested to complete the remaining scope required for LLNL to meet its HPSB goal in each of the 19 remaining buildings, listed in Figure 2-16.

Building Name	GSF	Remaining Scope	Target Year	Estimated Cost ($)
B155	21,742	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	28,000
B161	6,105	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	12,000
B211	14,122	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	20,000
T2727	5,000	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	12,000
T2775	9,875	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	18,000
T2825	5,959	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	12,000
T4525	5,736	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	12,000
T4726	9,384	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	18,000
T4728	6,762	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	12,000
B694	10,590	All HPSB documentation	FY2016	6,000
		Lighting occupancy sensor design, procurement and installation	FY2017	19,000
B311	40,951	LEED Certification package needed	FY2016	60,000
T1677	28,576	Lighting occupancy sensor design, procurement and installation	FY2017	36,000
T1739	5,646	Lighting occupancy sensor design, procurement and installation	FY2017	12,000
T1889	16,821	Lighting occupancy sensor design, procurement and installation	FY2017	22,000
T3724	19,810	Lighting occupancy sensor design, procurement and installation	FY2017	26,000
T3725	19,867	Lighting occupancy sensor design, procurement and installation	FY2017	26,000
T3726	19,824	Lighting occupancy sensor design, procurement and installation	FY2017	26,000
T4675	11,142	Lighting occupancy sensor design, procurement and installation	FY2017	19,000
T6925	5,873	Lighting occupancy sensor design, procurement and installation	FY2017	12,000
Total				462,000

Figure 2-16. List of projects that, if funded and implemented, would allow LLNL to meet its HPSB goal

Building Name	GSF	Remaining Scope	Target Year	Estimated Cost ($)
B211	14,122	HPSB Assessment needed	FY2016	9,000
B272	10,124	HPSB Assessment needed	FY2016	8,000
B423	7,791	HPSB Assessment needed	FY2016	7,000
B515	8,588	HPSB Assessment needed	FY2016	7,000
B531	12,381	HPSB Assessment needed	FY2016	9,000
B691	18,437	HPSB Assessment needed	FY2016	9,750
B694	10,590	HPSB Assessment needed	FY2016	35,000
B140	66,660	HPSB Assessment needed	FY2016	65,000

Figure 2-17. Additional Buildings identified for HPSB assessments and LEED certification package.

SSPP Goal 2.5
Regional and local planning

Executive Order 13514 instructs federal agencies including DOE to meet the following regional and local integrated planning goals:

- Participate in regional transportation planning, recognition of existing community transportation infrastructure, and incorporation of such efforts into site policy and guidance documents.

- Ensure planning for new federal facilities or new leases includes consideration of sites that are pedestrian friendly, are near existing employment centers, are accessible to public transit, emphasize existing central cities and, in rural communities, existing or planned town centers.
- Identify and analyze impacts from energy usage and alternative energy sources in all Environmental Impact Statements and Environmental Assessments for proposals for new or expanded federal facilities under the National Environmental Policy Act of 1969, as amended (42 U.S.C. 4321 et seq.).
- Coordinate with regional programs for federal, state, tribal, and local ecosystem, watershed, and environmental management.
- Identify regional transportation planning, ecosystem, watershed, and environmental management initiatives affecting sites and opportunities to work with local authorities to align energy policies and siting of renewable energy infrastructure.

Transportation

The Laboratory recognizes the existing community transportation infrastructure and works with multiple local and state agencies on transportation planning, providing input on the selection of future Livermore stations served by regional Bay Area Rapid Transit (BART), and promoting public transit commuting ridership. Such collaborative planning allows LLNL to develop anticipated needs of providing appropriate internal means for Laboratory commuters to connect easily with public transit. The Laboratory's on-site shuttle schedule aligns with the local transit service (Wheels) during commute hours, connecting the route to the Livermore downtown transit center, the ACE Train Station, and the Dublin BART station.

The bicycle remains a popular seasonal method of commuting with increasing awareness of personal fitness and energy conservation, and housing developments close to LLNL. Local bike lanes lead directly onto the Laboratory site; the Bay Area weather and the relatively flat site terrain also contribute to bicycling and walking as major modes of internal travel on-site.

As a major employer in the community, LLNL is committed to promoting energy conservation and supports commuters by providing certain on-site conveniences to those who use alternate modes of transportation rather than the single-occupant vehicle:

- Maintaining a database to facilitate rideshare and vanpool matching.
- Permitting vanpools to route through "Limited" security areas.
- Providing preferential parking spaces for vanpool vehicles.
- Offering free bicycle safety helmets to on-site riders and bicycle commuters.
- Providing power charging stations as a pilot program for personal electric vehicles.
- Providing on-site taxi shuttle service and a site-use bicycle program.

Plans and Projected Performance

All buildings and ancillary facilities are located within the established Laboratory site boundaries; with approximately 6,900 gsf of leased facility in the local vicinity. Site planning for new facilities is coordinated with architectural and civil design for orientation, energy efficiency, and incorporation of environmental management system considerations including bioswale soft-shoulder for roadways and sustainable landscaping for open grounds.

Sustainable site development encompasses an integrated approach to the planning of future on-site facilities and infrastructure consistent with the LLNL Ten Year Site Plan (TYSP), striving to enhance site stewardship in coordination with the surrounding community. The Laboratory encourages walking and bicycling as a means of travel within the site; long-range site development envisions continuous improvement of a bicycle- and pedestrian-friendly environment:

- Future facilities development will be physically scaled and organized to maximize the potential of walking and bicycling on-site: quick trips on foot typically measure about one quarter mile, while the typical bicycling distance is about one-half mile.
- Sidewalks and landscaped pathways will provide safe and direct travel for pedestrians segregated from motor vehicles wherever feasible. Bicycle travel is accommodated by a mix of road sharing and pedestrian/bike shared-use pathways.
- LLNL supplies and maintains approximately 600 unassigned bicycles for employees' use on-site. Riders leave bicycles at destinations; bicycles are redistributed daily around the site. Sixty (60) bikes were replaced in FY2015 with new ones to ensure having sound equipment for the program.
- LLNL operates an on-call on-site taxi shuttle service, with additional kiosks locations within a quarter mile radius from major on-site destinations.
- LLNL continues to pursue civil improvement projects to expand the site-wide integrated pathway network for pedestrians and bicycles, providing landscaped linkages between major destinations.

LLNL's approach to landscaping is to strive for a campus-like environment and be responsive to a sustainable design appropriate for the location and function, utilizing drought-tolerant and native planting, hardscape, and smart irrigation control systems. The objective is to reduce irrigation water usage and optimize plant growth and maintenance efforts. LLNL has further fine-tuned watering of existing turf areas in FY2015, with approximately 32,600 sq. ft. converted to drought tolerate planting or xeriscape; the converted areas can expect a 50% reduction in irrigation water usage after the new plantings have been established.

Local Planning Coordination

LLNL continues to maintain good relationships with local community planning and government agencies, including the cities of Livermore and Tracy, as well as the counties of Alameda, Contra Costa, and San Joaquin. With the recent annexation of 1,022 acres east of the Laboratory to the City of Livermore, interactions include meetings with City of Livermore to discuss the collaborative R&D initiative LVOC proposal, discussions with water officials in Livermore to discuss wastewater issues, and participation in stakeholder groups to discuss environmental issues.

Under a collaboration initiative with the Laboratory, academia, private sector and outside agencies on R&D in green transportation, energy and high performance computing, the planned Livermore Valley Open Campus (LVOC) would foster creation of a significant number of additional jobs and have a positive economic effect in the region over the next five years, during the initial phase of LVOC's 30-year build-out. Future urban growth is expected to enhance a sustainable community.

Energy

LLNL continues to review all ongoing operations, new, or modified projects or modifications in site operations for impacts on utilities and energy use. Cumulative impacts on energy use and meeting energy goals will continue to be considered in long-range planning.

Environmental Planning

Many aspects of Site planning at the Laboratory are coordinated with DOE/NNSA's National Environmental Policy Act (NEPA) process and LEED project guidelines. The LLNL Environmental Functional Area addresses environmental compliance for LLNL/DOE through various programs, including the Environmental management Systems (EMS). The EMS addresses significant environmental aspects including water conservation, greenhouse gas reductions, waste reductions and sustainable acquisition Lab-wide. LLNL supported DOE/NNSA in preparing a Supplement Analysis under the National Environmental Policy Act (NEPA) for the five-year review of the Site-Wide Environmental Impact Statement (SWEIS) for Continued Operations of LLNL in 2011. DOE/NNSA recently communicated plans to prepare a Site-wide review under NEPA for continued operations through 2021.

Implementation Committee Member: East Alameda County Conservation Strategy

LLNL participates as a regional/local stakeholder in the implementation of the East Alameda County Conservation Strategy (EACCS). The EACCS provides a framework for long-term habitat protection and endangered species conservation.

Large-Flowered Fiddleneck Restoration

The large-flowered fiddleneck is a federally-listed endangered species with an extremely limited distribution (photo below). Only two native populations of this species are known to occur; one population is located at LLNL's Site 300, and the second is located on nearby private land. Two introduced experimental populations (one at Site 300 and a second on property owned by the East Bay Regional Parks) are also maintained by occasional seed bank enhancement. LLNL participates in regional large-flowered fiddleneck recovery efforts including efforts to maintain the experimental populations and research on the effects of fire frequency on large-flowered fiddleneck abundance. LLNL staff also serves as member of the large-flowered fiddleneck Recovery team.

The large-flowered fiddleneck (Amsinckia grandiflora) is a wildflower endemic to California, and occurs at LLNL's Site 300 in the large-flowered fiddleneck reserve.

Renewable Energy

Land use on-site will continue to evolve with opportunities to implement sustainability projects at the Livermore Site and Site 300. Construction on the 10-acre, 3.3MW ground-mounted photovoltaic solar array in the northwest security buffer of the Livermore Site was initiated in November FY16. LLNL will continue to consider renewable energy use at the Livermore Site and Site 300, in accordance with goals and long-range plans.

SSPP Goal 2.6a
Net Zero Buildings: Percentage of the site's existing buildings above 5,000 gross square feet intended to be energy, waste, or water net-zero buildings by FY 2025

Performance Status

No existing facility above 5,000 GSF has been identified for Net Zero capability in FY 2015.

Plans and Projected Performance

Due to the expected exponential increase in costs, upgrade of an existing facility to Net Zero is not easily achievable or practicable. A short list of existing facilities that may be viable as candidates for Net Zero (energy) will be developed in 2016.

Resources Required

To achieve LEED Gold certification, construction upgrade costs are generally 10% higher than usual. A significant funding investment to upgrade an existing facility to "net-zero" is expected. The availability of that additional funding is unknown at this time.

SSPP Goal 2.6b
Net Zero Buildings: Percentage of new buildings (>5,000 GSF) entering the planning process designed to achieve energy net-zero beginning in FY 2020

Performance Status

All new construction greater than 5,000 GSF will comply with the GPs (e.g., HPSB, LEED, etc.). No future facility exceeding 5,000 GSF has been identified for Net Zero capability in FY 2015.

Plans and Projected Performance

A short list of future facilities that may be viable as candidates for Net Zero (energy) will be developed in 2016.

Resources Required

Line item funding is being requested for construction of the new Emergency Operations Center (EOC) in FY2018. LLNL has begun to use Institutional General Plant Projects (IGPP) as well as direct General Plant Project (GPP) funding to construct new buildings (Figure 2-18).

New buildings will be constructed to meet either LEED Gold or achieve HPSB certification. To achieve LEED Gold certification, construction costs are generally 10% higher than usual. While the new construction projects have the potential to be candidate "net-zero" facilities, the upcharge for "net-zero" facilities and the availability of additional funding is unknown at this time.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)
IGPP Advanced Manufacturing Laboratory	9.8	N/A	N/A	0	0.2	4.7
IGPP Funded Generic Office Building	9.8	N/A	N/A	0	0	0
B654 Livermore Computing (ASC funded)	9.9	N/A	N/A	0.5	9.4	
Emergency Operations Center (line item funded)	22.5	N/A	N/A	0	0	0

Figure 2-18. Proposed new construction projects

SSPP Goal 2.7
Data Center Efficiency. Establish a power usage effectiveness target in the range of 1.2-1.4 for new data centers and less than 1.5 for existing data centers

Performance Status

In 2015 the DOE established a Data Center Working Group (DCWG) to review data center facilities across the complex. This working group is in the process of amending the definition of a data center, establishing reporting metrics and finally will be completing a compressive data center inventory based on the new criteria. Pending the outcome of new Data Center Optimization Initiative (DCOI), this will require a re-base line of previous goals and accomplishments. LLNL is concurrently developing new strategies to consolidate inefficient infrastructure, optimize existing facilities, and increase investment in more efficient infrastructure.

LLNL identified 61 data centers in 2012, 23 of these have been decommissioned and are no longer being used as data centers. Efforts in reducing energy consumption through server consolidation and server virtualization continue, resulting in reduced inventory of physical hardware and its associated energy costs. Since 2008, more than 1,071 servers from 34 facilities have been consolidated into the Enterprise Data Center (EDC).

On-going sustainability efforts include the installation of Cold Aisle Containment (CAC) systems, increasing ambient temperatures and reducing occupancy lighting in several key LLNL data center facilities. In addition, expansion of the use of virtual machines (VM) utilizing existing infrastructure-on-demand (IoD) services where on-site personnel can quickly provision server resources.

Plans and Projected Performance

Continue the identification of current and closed data centers along with a baseline inventory of data center elements (the data center elements are similar to those currently being captured in the CEDR report).

Documentation of consolidated investments and any associated savings and/or avoidances for non-enduring (closed or planned closure) of data centers since 2010.

Consolidation/optimization plan(s) for non-enduring data centers as well as any optimization efforts required to bring enduring data centers to performance targets.

Quarterly updates on data center inventory, plan(s) progress and closure status.

LLNL will continue to optimize the efficiency of HPC with the Sequoia platform and the new Vulcan platform. A combination of liquid-cooling and air-cooling techniques will be utilized for installation of Sequoia, with over 90% of the machine being liquid-cooled.

LLNL is heavily involved in the Energy Efficiency HPC Working Group, which participates in many HPC events. One such event is the DOE HPC Power Management Best Practices Workshop where HPC challenges and best practices are identified. The Working Group meets monthly and is comprised of nearly 100 contributing members from the HPC industry, including national laboratories, universities, and vendors. This working group is also working with the Green Top 500 list to develop the required metering to attain standardized energy levels during Linpack runs.

Because HPC computational efficiency is an ongoing contribution to mission excellence, LLNL will continue to research and develop techniques to improve the energy efficiency of the highly energy intensive HPC. LLNL is involved in a number of efforts that not only aim to reduce the energy use of HPC, but promote new standards of quantifying efficiency gains beyond gross energy use. It aims to drive the DOE complex to adopt the approach to use computational efficiency as a viable alternative to measuring advances in HPC sustainable stewardship.

Resources Required

Normal business processes are in place for LLNL to continue server consolidation efforts. Funding will be requested for optimization efforts required to bring enduring data centers to performance targets.

SSPP Goal 3.1
"Clean Energy" requires that the percentage of an agency's total electric and thermal energy accounted for by renewable and alternative energy shall be not less than: 10% in FY 2016-2017, working towards 25% by FY 2025

Performance Status

LLNL's energy consumption comes from electricity and natural gas. There is no thermal energy source at LLNL. The "Clean Energy" goal will be met by meeting the Renewable Electric Energy goal.

Plans and Projected Performance

LLNL will continue with the purchase of Renewable Energy Credits (RECs) in addition to the use of the renewable energy output of the Photo-Voltaic plant.

SSPP Goal 3.2
"Renewable Electric Energy" requires that renewable electric energy account for not less than 10% of a total agency electric consumption in FY16-17, working towards 30% of total agency electric consumption by FY 2025

Performance Status

Due to the low cost of purchased power, installing renewable energy at LLNL has been a challenge. LLNL is a member of the Northern California Sites Electric Power Consortium (the Consortium). The Consortium includes LLNL, Lawrence Berkeley National Laboratory (LBNL), and Stanford Linear Accelerator Center (SLAC). The Consortium currently utilizes two sources of power to meet its annual energy requirements: 1) the Central Valley Project (CVP) Base Resource allocation of hydropower; and 2) wholesale market power purchases. WAPA is the Consortium's procurement agent, and makes any required wholesale purchases on the Consortium's behalf.

The wholesale power rates are considerably less expensive when compared to local public utilities such as PG&E. These low rates have also made renewable energy development incur a longer ROI relative to projects with standard utility rates. The 10% renewable energy consumption requirement was exceeded at 13% through the purchase of Renewable Energy Credits (RECs) and Renewable Electric Energy in FY2015. LLNL purchased 35,169 MWh of wind RECs and 19,266 MWh of Renewable Electric Energy from incremental hydropower in FY2015 and submitted a waiver request in 2008 that justifies substitution of RECs for on-site generated renewable energy.

In FY2011, LLNL completed a Site 300 renewable resource assessment and valuation. The report details the potential for wind and solar photovoltaic (PV) resources at LLNL's Site 300. A renewable resource assessment was completed for LLNL's Site 200 in 2008. In late 2012, DOE/NNSA issued an Opportunity Notice for a solar energy project vendor to design, develop, finance, build, operate and maintain a solar PV system at Site 200. Several proposals were received with the selected vendor proposing an approximately 10-acre, 3 MW ground-mounted solar PV installation in the northwest buffer. The rate for purchasing the electricity from the system is competitive, but remains above the current WAPA price. A Power Purchase Agreement (PPA) has been completed between the vendor and WAPA.

The current project is in detail design and the schedule indicates that construction will begin in late 2015, with the solar plant being operational in the spring of 2016.

LLNL was also awarded a recent grant to balance the use of solar power at the building scale. This project will entail using a solar array at the Livermore Valley Open Campus (LVOC) and coordinating building energy management with a nearby building. This project will not result in any additional renewable credits for the LLNL site, but will aid in the knowledge of how renewable power can be used for individual buildings.

LLNL is currently exploring the use of Site 300 for renewable energy research purposes. The goal of this effort would be to provide a test bed for existing renewable technology (solar and wind), to improve the multi-scale modeling of renewable resource availability and variability using high dimensional models in concert with deployed sensors, and to examine avian interactions with renewable energy systems to reduce fatalities.

LLNL has deployed solar energy at a smaller scale, including a number of pathway and parking lot lights, and environmental sensors. In FY2012, LLNL discussed renewable energy options (including fuel cell purchases) with renewable energy providers, yet the relatively high cost of these projects prohibited their actualization.

Details of the REC purchases can be found in the FY2015 CEDR on the "List of Purchased Renewable Energy" worksheet.

Plans and Projected Performance

For FY2016, LLNL will purchase RECs to comply with the renewable energy requirement. The amount of RECs purchased can decrease substantially once solar power is operational at LLNL. LLNL will continue to support LFO and the solar provider to ensure the new power generation complies with all safety and electrical plans for both sites. LLNL will continue to explore research opportunities for renewable power generation at Site 300; if these projects come to fruition, LLNL will use that power as well. Additionally, the Site 200 renewable energy goals would contribute to DOE's goals.

Even with a 3 MW PV array, LLNL will still need to purchase additional RECs. Renewable energy projects are capital intensive. In general terms, a 6 MW solar array would be required to meet the renewable energy goals for LLNL; this would require an approximate $24M investment. A 6 MW solar array would also greatly contribute to LLNL's energy reduction goals. The high cost of on-site renewable power indicates an ROI that would exceed the projected 20-year useful life of the equipment. When compared to WAPA rates, renewable energy only becomes economically feasible when the producer is a private entity eligible for tax credits, tax exemptions, depreciation, and other assorted incentives.

Current plans for a new computing facility have incorporated air cooling for its needs, as opposed to using traditional water cooling, and the corresponding energy needed for cooling. The new computing facility will be HPSB compliant. This innovative design will not increase LLNL's water use, and will require less electrical demand than a traditional design.

Solar water heating has not been incorporated into LLNL new buildings plans. Hot water heating is a relatively low energy use, relative to the impact of electricity used for cooling and computation. New building designs that increase the electric efficiency of computation will help off-set LLNL's increasing need for power to support expanding mission.

For the next fiscal year, LLNL will accomplish the following:

- Continue to support the DOE LFO in its pursuit of on-site renewable energy at Site 200.
- Continue exploring scientific opportunities in renewable energy.
- Continue discussions with renewable energy providers on innovative opportunities in renewable energy for LLNL.
- Continue collaboration in the Northern California DOE Laboratory Consortium.

SSPP Goal 4.1
36% potable water intensity (Gal per gross square foot)reduction by FY2025 from a FY2007 baseline. (2015 target: 16%)

Performance Status

In FY2015, LLNL's potable water intensity savings from the FY2007 baseline rose from 12.72% to 21.25%, exceeding DOE's FY2015 target of 16% (Fig. 2-21). LLNL's progress in the potable water intensity savings area is primarily due to the following factors:

- Further fine-tuning of the Irrigation controllers
- Savings from the re-use of treated well water as make-up at Cooling Tower B133

The water consumption and cost data report is included in the CEDR.

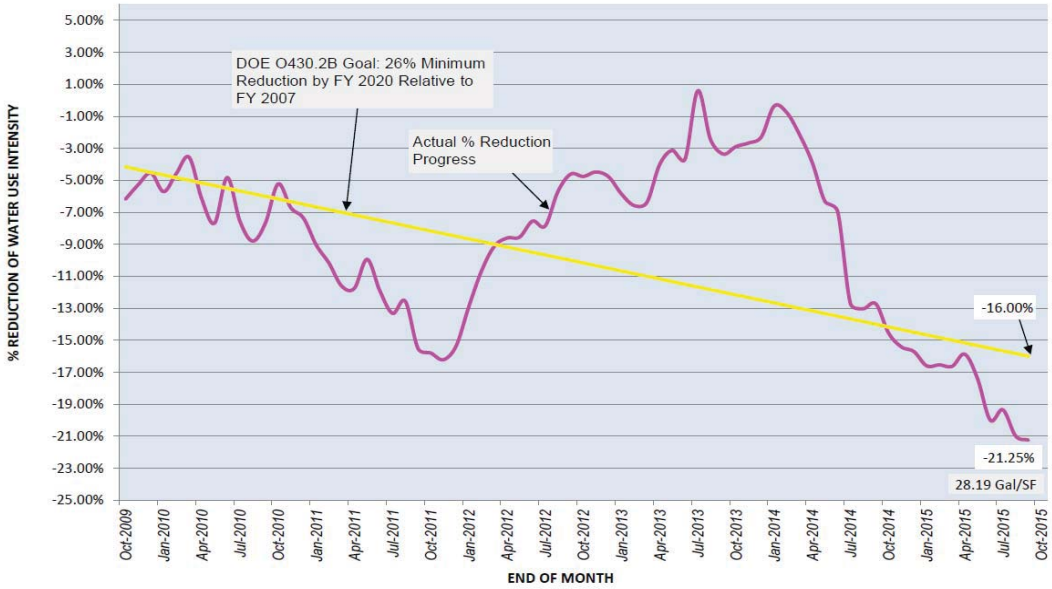


Figure 2-21 Energy Use Intensity Savings through end of FY2015

Potable water use at LLNL's cooling towers increased nearly 11% (11,455 kgals) from FY2014. FY2015 was a warmer year than FY2014, (215 more CDDs than in FY2014, and 561 more than base year FY2007) equating directly into higher cooling demand. As the chillers and air conditioning units respond to the demand, more make-up water is also required at the cooling towers. However, the R.O. Treated Groundwater Pilot Project at B133 Cooling Tower where treated well water is run through a reverse osmosis unit to produce near Hetch Hetchy quality water then recycled to the tower as make-up saved about 5.6M gallons of potable water. This project is expected to save about 7M gallons annually.

LLNL converted about 18,700 SF of existing turf at B111 to more sustainable landscaping and will result in reduced consumption of irrigation water. In addition, about 13,900 SF of turf areas at the West Inner Loop by buildings B362 through B364 were converted to drought tolerant landscaping, and expects a 50% reduction in irrigation water use for the converted areas after the new landscaping has been established. Together, these two areas are estimated to save about 684,000 gallons of potable water annually.

Conversion of existing turf to more sustainable landscaping at B111 (left) and along West Inner Loop (right)

California is experiencing a severe, unprecedented drought and 2015 marks the fourth year. In April 2015, California Gov. Jerry Brown issued an executive order mandating up to 25% water reduction from a 2013 baseline. San Francisco Public Utilities Commission (SFPUC) which runs Hetch Hetchy water supply requested a 10% potable water reduction and a mandatory 25% irrigation reduction. LLNL responded with a tighter fine-tuning of the irrigation controllers and schedule and more aggressive response to discovered leaks and maintenance repair. The irrigation reduction program was estimated to save about 14 million gallons of potable water in FY2015. By the end of September 2015, the estimated savings was approximately 20 million gallons. This is equivalent to a 68% irrigation reduction. Overall, LLNL saved about 19% on potable water use with respect to the 2013 baseline.

The Laboratory applies various intensity level of landscaping as appropriate to the contextual environment, ranging from special use to transitional and natural settings. As stated in the 2011 Sustainable Landscape Concept Plan, one of the site landscaping goals is to reduce the amount of irrigation water-intensive lawn. The use of turf would be limited to only certain special aesthetic and recreational applications; other lawn areas with no specific functional requirements would be converted to drought tolerant/Livermore valley compatible planting.

LLNL will continue to do incremental landscape and irrigation modifications to reduce water use as funding allows, reducing lawn areas and optimizing irrigation efficiency with alternate sustainable landscaping.

A breakdown of LLNL potable water consumption is illustrated in Figure 2-22. The cooling tower make-up component is our highest user at 58.27%, with Domestic use second at 16.82% and Facility Process use third at 12.57%. Irrigation component is down to 11%.

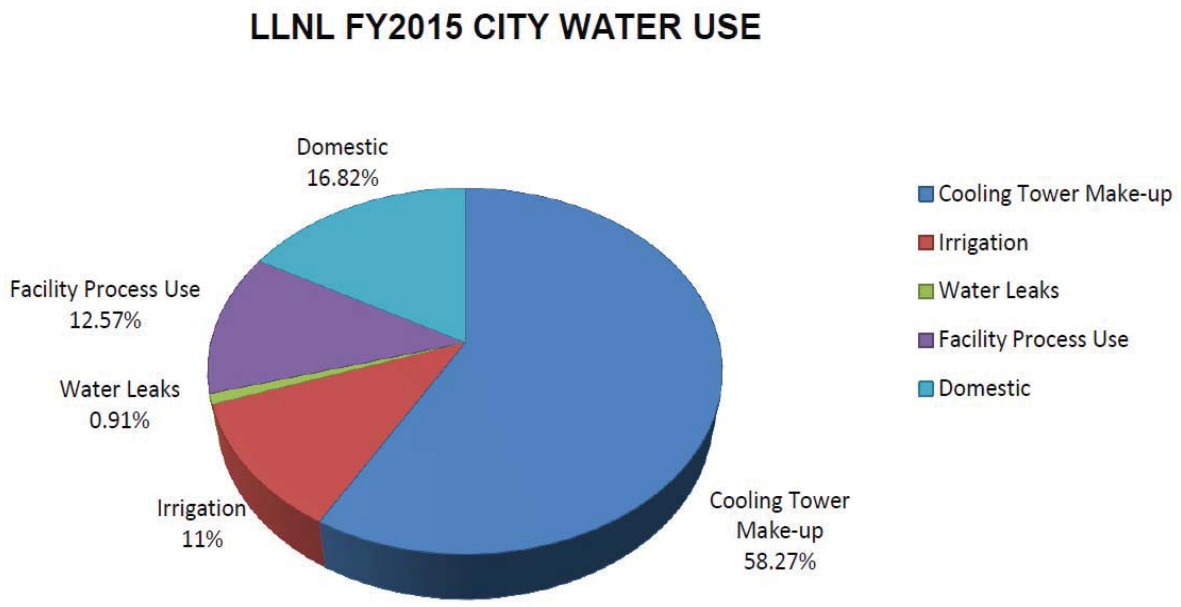


Figure 2-22. LLNL FY2015 potable water use breakdown.

Current LLNL practice is to meter areas or zones of greatest water use, such as the cooling towers and irrigation zones, rather than at individual buildings as it would be prohibitively expensive. All five cooling tower make-up water systems at LLNL are furnished with standard water meters. LLNL plans to upgrade all water meters to advanced water meters, pending funding. This will allow a more timely and accurate accounting of the total cooling tower make-up water load.

Plans and Projected Performance

There are several factors that will make it difficult to meet the FY2025 goal without additional resources to execute the needed water savings projects. Some challenges in the future include:

- The main supplier of LLNL potable water (Hetch Hetchy) has an annual shutdown for maintenance which directly impacts the amount of water LLNL must use as make-up water accepted in its cooling towers. At least 1% of LLNL's total annual consumption will be needed because the alternate supplier's (Zone 7) water quality has less desirable attributes and allows for only a few cycles before needing to be replaced at the cooling towers. In addition, this imposes an added burden to LLNL's sewer system, as the extra blowdown from the cooling towers is discharged to the sanitary sewer system. In addition to the annual shutdown, Hetch Hetchy requested a 30-day shutdown for mid-October to mid-November in order to perform drought contingency plans.
- Continued Livermore Computing mission growth requires additional cooling tower make-up. Unlike energy intensity calculations, there are no exclusions for mission growth for water reduction.

There are several water conservation projects underway, or being planned, that will assist the Laboratory in meeting the federal water reduction goal.

- An ongoing UESC Investment Grade Audit (IGA) is looking into proposing three water ECMs; Well water Cooling Tower make-up for U325, Wastewater Reclamation for Cooling Tower make-up at U291 and OS454 Livermore Computing (formerly TeraScale Facility) and Xeriscaping at B170. The final recommendation will be evaluated by LLNL and prioritized for management review and resource funding.
- LLNL has been in close communication with San Francisco Public Utilities Commission (SFPUC) who manages Hetch Hetchy water as far as opportunities for water conservation. In meetings with SFPUC, LLNL

has been notified that it qualifies for non-potable incentive programs. LLNL will pursue these programs with the continued assistance of SFPUC. A similar R.O. Treated Groundwater Project is being planned for deployment at the OS454 as well as at NIF. Another SFPUC program that LLNL is looking into involves sustainable landscaping and low-flow toilets and urinals.

- The Water Testbed Project continues to harvest rooftop rainwater at Building 471 for irrigation use in the area. Other candidate areas are being identified as funding becomes available.
- In keeping with its high standard of environmental stewardship and commitment to meeting DOE's water intensity reduction goals, LLNL continues to evaluate ways to identify, monitor, and mitigate inefficiencies in its water distribution systems. This will have an additional benefit of reducing electrical energy expended in water distribution across the site.
- LLNL's search for the most advanced and efficient leak detection technologies has created an opportunity to collaborate with industry leaders who employ the latest technological and environmentally sound methods to detect, locate, and correct leaks. Additional resources are required to pursue improved leak detection strategies currently available. However, with the low cost of water, LLNL is sensitive to investing funds in long payback projects that may not consistently yield the desired results.
- LLNL has proactively identified the benefit of adding continuous leak detection systems, such as geophonic data-loggers, that will be integrated into future water meter projects. These devices will be integrated into the meters' communication system to remotely monitor the water distribution infrastructure and provide graphical data that will alert system operators to any leaks. Major resources are needed to further advance a continuous leak detection system initiative.

Potential projects to meet LLNL's water intensity reduction goal are shown in the "Potable Water Savings Approaches to Meet Goal" highlight in this section.

DOE's FY2016 water intensity reduction goal is 18%. Based on LLNL's best estimate of available resources for FY2016, it is estimated that water intensity savings will be 20%, with a potable water use of 200,000 kgals for the year, considering the total building area of 7M SF. California's historic, continuing drought is a major driver for LLNL to strive to exceed the federal water reduction goal. If additional drought emergency measures are required, LLNL will evaluate how best to meet the emerging needs.

LLNL Uses Treated Well Water

...in cooling towers

In FY2013, LLNL initiated a pilot project to demineralize treated well water for use as make-up water in its cooling towers. The well water now goes through an additional treatment that includes running it through a reverse osmosis unit to eliminate the possibility of the water doing harm to the cooling towers. Until recently, treated well water was discharged to the arroyo.

As the percentage of water use is greatest at the cooling towers, a conversion to treated water now assists LLNL in meeting its water reduction goals. Using recycled treated well water as make-up water is estimated to save at least 5,500 kgals annually. The pilot project was completed FYE2013 and is expected to be fully deployed by the end of the calendar year. A photo of the reverse osmosis unit is shown at right.

...for irrigation

Another plan to evaluate the use of recycled and treated well water for irrigation is being considered. Treated well water is diverted to the reverse osmosis system where it is purified for use in the cooling tower. The treated well water will be blended with potable water to ensure a nondeleterious effect to the landscaping. Resources are needed to fully evaluate this plan.

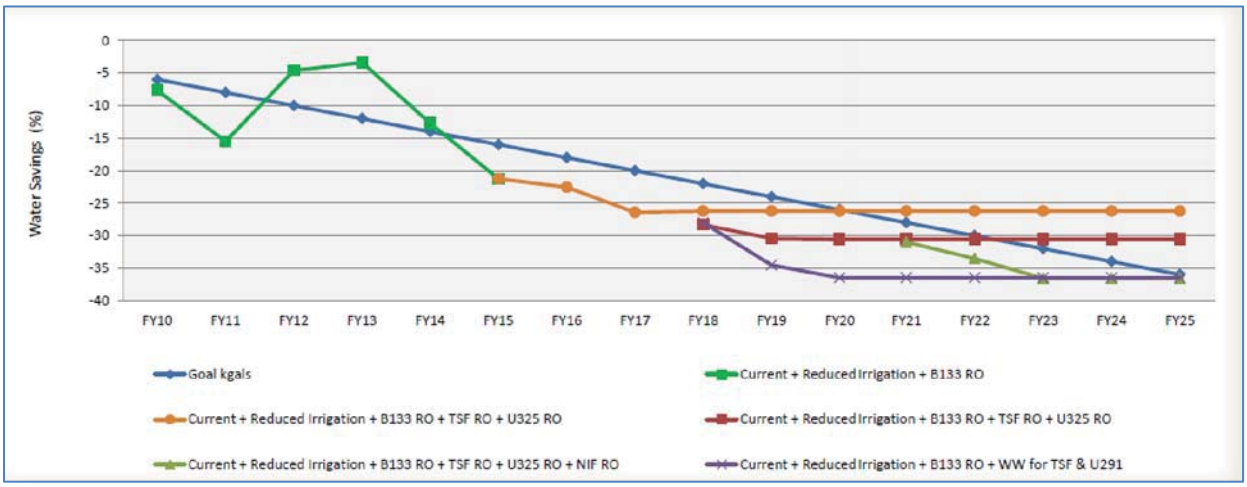
Resources Required

In FY2016, LLNL will request funding to complete the water intensity reduction measures shown in Figure 2-23. These projects, if funded and implemented, would allow LLNL to meet its water intensity reduction goal.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY17 ($M)	FY18 ($M)	FY19 ($M)	FY20 ($M)
Use RO Treated Wellwater at TSF	4.5	0.35	13.0	2	2.5		
Use RO Treated Wellwater at U325	4.9	0.23	21.6	2	2.9		
Use RO Treated Wellwater at U291	3.5	0.17	20.2		1	2.5	
Use RO Treated Wellwater at NIF	3.5	0.17	20.2			1	2.5
Use Reclaimed Wastewater at U291 and TSF	9.9	0.61	16.2	3	3	3.9	

Figure 2-23. Proposed projects in support of SSPP Goal 4.1.

Chart below illustrates the effect of the estimated savings on the goal.



Potable Water Savings Approaches to Meet Goal

SSPP Goal 4.2
30% water consumption (Gal) reduction of industrial, landscaping, and agricultural (ILA) water by FY2025 from a FY2010 baseline (2015 target: 10%)

Performance Status

LLNL uses potable water for industrial (i.e., cooling tower make-up) and landscaping irrigation at Site 200. At Site 300, potable well water is used for all purposes. A planned cutover from well water to Hetch Hetchy water is near completion and could be started up in 2016, pending operational readiness.

The new 30% water consumption reduction of ILA water goal does not strictly apply to LLNL since, by definition, ILA is non-potable water. However, LLNL is committed to reducing industrial use of potable water at the cooling towers and for landscape irrigation. As a subset of the water reduction savings, the portion attributable to ILA can also be tracked.

Storm Water Management

The management and control of storm water runoff quantity, timing, and water quality have become important considerations in low impact development and sustainability. Storm water management is a component of LLNL's EMS through various environmental aspects including ground water discharges, inadvertent releases, water use, and land resource use. LLNL also considers storm water management an element in water conservation and green building.

LLNL's storm water program has been designed to address regulatory requirements and DOE Orders. Storm water discharges at both Site 200 and Site 300 are regulated by the State of California under the authority of the Clean Water Act, using industrial and construction storm water National Pollutant Discharge Elimination System (NPDES) permits. The State also regulates storm water discharges under Porter-Cologne Water Quality Control Act using Waste Discharge Requirements. LLNL's storm water programs must also comply with DOE Orders, as specified in Contract DE-AC52-07NA27344. LLNL implements the storm water programs through its ES&H Manual and Storm Water Pollution Prevention Plans (SWPPP).

In December 2007, Congress enacted EISA, which established storm water runoff requirements for development and redevelopment projects. Section 438 of this Act requires all projects at federal facilities adding more than 5,000 square feet of new development or redevelopment to restore the predevelopment hydrology to the maximum extent feasible. LLNL has begun to use site planning, design, construction, and maintenance strategies to maintain or restore, to the maximum extent technically feasible, the predevelopment hydrology of the property with regard to the temperature, rate, volume, and duration of flow. This ensures that no adverse impacts to the site hydrology occur as a result of construction activities. In December of 2009, the U.S. EPA published the "Technical Guidance on Implementing the Storm Water Runoff Requirements for Federal Projects under Section 438 of the Energy Independence and Security Act" (EPA Guidance), which provides recommendations for implementing low-impact development strategies for runoff control.

In addition, the state-wide Storm Water General Permit for Construction Activities 2009-0009-DWQ (Construction General Permit) was reissued by the State of California in July 2010. This permit revision added additional water balance and runoff requirements for construction designs at sites of one acre or more to protect storm water quality. Construction SWPPPs are prepared for each individual project and specify all best management practices required by the Construction General Permit.

Storm Water Management Performance Status

New construction at LLNL will include storm water controls consistent with EISA 438 and EPA Guidance to the maximum extent technically feasible.

Storm Water Management Planned Actions

LLNL continues to identify other water conservation activities, including additional rainwater harvesting projects. Consistent with EISA 438 and low impact development, LLNL is including water balance considerations into designs for the East Campus Site Improvement project. This project will include a number of low impact development designs to meet or exceed the 95th percentile storm, consistent with the EPA Guidance.

The State of California has revised the Industrial General Storm Water Permit. LLNL has applied for permit coverage under the revised permit.

Storm Water Management Resources Required

As LLNL develops and redevelops areas of the site, storm water runoff management will be integrated into the planning process. This may incur a 15-30% increase in landscape and runoff management costs. As significant construction or renovation is scheduled for FY2016, additional resources required will be identified during the design phase.

SSPP Goal 5.1
20% reduction in annual petroleum consumption by FY 2015 relative to a FY 2005 baseline; maintain 20% reduction thereafter. (2015 target: 20%)

Performance Status (20% reduction in annual petroleum consumption by FY 2015 relative to a FY 2005 baseline; maintain 20% reduction thereafter.)

In FY2015, LLNL decreased its petroleum fuel consumption by 71% relative to the FY2005 baseline, well exceeding the required 2% annual reduction and 20% sustained reduction. This reduction was achieved by replacing unleaded vehicles with AFVs, implementing administrative controls over fueling, and reducing miles driven by promoting taxi services. Figure 2-19 shows the reduction of the overall petroleum consumption.

Plans and Projected Performance - Maintain 20% reduction in annual petroleum consumption relative to a FY 2005 baseline.

LLNL will continue to strengthen its alternative fuel infrastructure by replacing conventional fueled vehicles with AFVs and by promoting the use of alternative fuels.

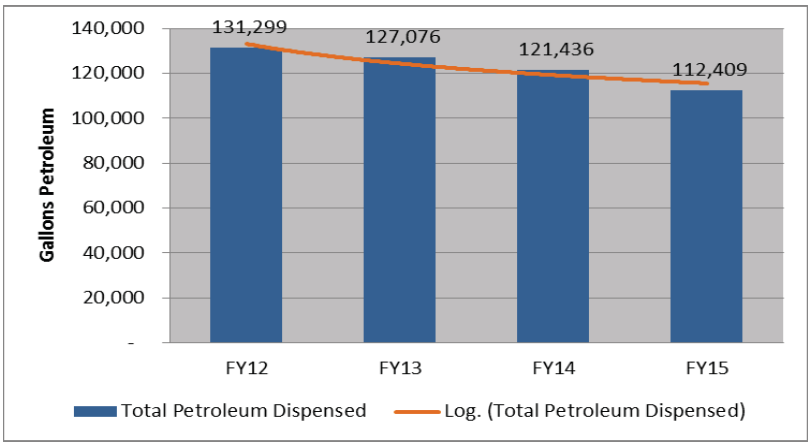


Figure 2-19. LLNL Petroleum Consumption Reduction.

SSPP Goal 5.2
10% increase in annual alternative fuel consumption by FY 2015 relative to a FY 2005 baseline; maintain 10% increase thereafter. (2015 target: 10%)

Performance Status

LLNL continues to focus its alternative-fuel strategy primarily on the use of ethanol fuel (E85) as its fuel of choice. In 2007, LLNL built an ethanol fuel station with a 12,000-gallon underground tank at a cost of $1.3 million. Subsequently, LLNL restructured its fleet to be composed of E85-compatible vehicles. In FY2015, LLNL's use of alternative fuels (AF) increased 31% relative to the previous year's consumption. As shown in Figure 2-20 below, LLNL has entered the maturity stage on AF consumption and year-over-year increases are anticipated to level off. We are working with GSA to identify other AF vehicle types that would be appropriate for use at the Laboratory, including electric vehicles.

Plans and Projected Performance

LLNL continues to maintain its fleet of electric vehicles on-site, and looks forward to developing approaches to expand the low-GHG fleet, as funds become available.

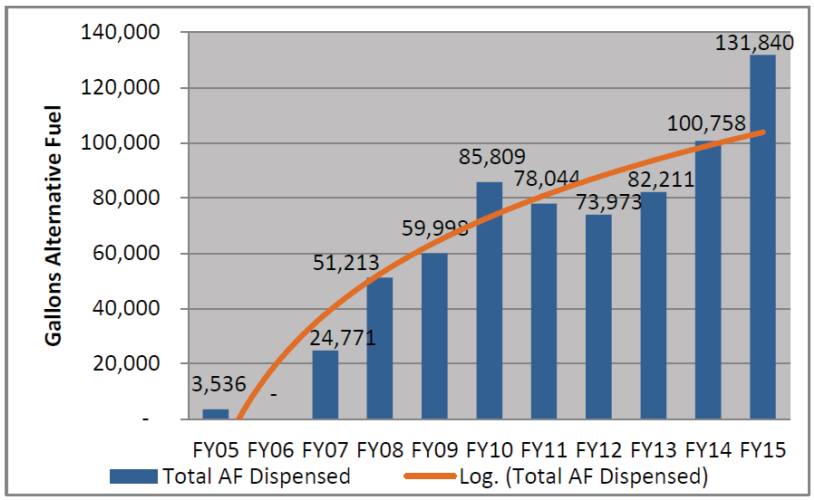


Figure 2-20. Total alternative fuel dispensed.

SSPP Goal 5.3
30% reduction in fleet-wide per-mile greenhouse gas emissions reduction by FY 2025 from a FY 2014 baseline. (2015 target: N/A; 2017 target: 4%)

Performance Status

Executive Order 13693 was issued in March 2015. DOE Federal Energy Management Program guidance related to greenhouse gas emissions calculations is pending. LLNL is evaluating the best alternatives to impact greenhouse gas emissions from vehicles. Alternatives may include alternate vehicle procurement channels.

Plans and Projected Performance

LLNL will continue to rely on E-85 and attempt to incorporate electric vehicles into the fleet to reach the 2017 target. LLNL will seek alternate procurement channels where practical and required to support achievement of the target. LLNL is dependent on sources such as CAFÉ standards and the OEMs which are outside of our sphere of influence resulting in insufficient information to fully assess the projected performance at this time.

SSPP Goal 5.4
75% of light duty vehicle acquisitions must consist of alternative fuel vehicles (AFV). (2015 target: 75%)

Performance Status - 100% of light duty vehicle purchases must consist of alternative fuel vehicles (AFV) by FY2015 and thereafter (75% FY2000-2015)

In FY2015, LLNL met and exceeded the required 75% replacement of fossil-fuel light-duty vehicles with AFVs. LLNL replaced over 87% of the light duty vehicles scheduled for exchange with AFVs. LLNL's current alternative-fuel fleet accounts for 97% of its total light-duty vehicles.

Plans and Projected Performance - 75% of light duty vehicle acquisitions must consist of alternative fuel vehicles (AFV). (2015 target: 75%)

LLNL will continue replacing its fleet with AFVs as manufacturers make them available and exploring different alternative fueled vehicle options, specifically in the area of electric vehicles. LLNL will continue with its primary E-85 alternative fuel vehicle strategy.

The laboratory launched a personal vehicle charging program in FY2014. The program is designed to allow employees to charge their vehicles using existing Livermore site designated charging locations for a monthly fee. Employees who choose to participate are asked to sign an end user agreement that provides details and terms of the program requirements. End users pay a monthly fee which provides them with access to a designated charging station. Twenty six (26) charging stations are available under the program and their use is allocated on a first-come, first-served basis. Thirty-one (31) employees are enrolled in the program.

This program is in response to employee requests and in support of NNSA and the Lab's site sustainability efforts.

DOE Fleet Management Information System (Fed FMS)

Plans and Projected Performance

NNSA HQ–Fleet will submit one NNSA fleet management plan that incorporates each site's accomplishment. LLNL will report status on the goals to the collective NNSA/DOE fleet goal.

LLNL has reviewed the current reporting requirements for the implementation of the DOE Fleet Management Information System (Fed FMS) as it relates to DOE owned vehicles. Metadata for each owned vehicle will be validated and updated. Monthly summaries of fuel costs and mileage will be entered beginning in December (November data). A unique fuel card has been issued to each vehicle to facilitate proper accounting. Odometer readings are collected using field transaction data gathered during fueling and vehicle representative data collection.

SSPP Goal 5.5
50% of passenger vehicle acquisitions consist of zero emission or plug-in hybrid electric vehicles by FY 2025. (2015 target: N/A)

Performance Status

LLNL is evaluating the best alternatives to impact greenhouse gas emissions from vehicles. Alternatives may include alternate vehicle procurement channels.

Plans and Projected Performance

FY 2016 goal is to evaluate the charging infrastructure required to support an electric fleet meeting the 2025 goal. Availability of electric vehicles will also be assessed. LLNL will seek alternate procurement channels where practical and required to support achievement of the target. LLNL is dependent on sources such as CAFÉ standards and the OEMs which are outside of our sphere of influence resulting in insufficient information to fully assess the projected performance at this time.

SSPP Goal 6.1
Promote sustainable acquisition and procurement to the maximum extent practicable, ensuring BioPreferred and biobased provisions and clauses are included in 95% of applicable contracts

According to LLNL policy, LLNL shall ensure 95% of new contract actions, including task orders under new contracts and existing contracts, require, to the extent possible, the supply or use of products and services that are energy efficient (ENERGY STAR or Federal Energy Management Program (FEMP)-designated), water efficient, bio-based environmentally preferable (including Electronic Product Environmental Assessment Tool (EPEAT)–registered products), non-ozone depleting, contain recycled content, or are non-toxic or less toxic alternatives; and LLNL shall update affirmative procurement plans (also known as green purchasing plans or environmentally preferable purchasing plans), policies, and programs to ensure that all federally-mandated designated products and services are included in all relevant acquisitions.

Performance Status

LLNL has an Affirmative Procurement Program (APP) which ensures environmentally preferable products and services, recycled content products, and bio-based products are purchased to the maximum extent practicable and are consistent with federal law and related procurement requirements, including EO 13423, Strengthening Federal Environmental, Energy, and Transportation Management, and the DOE Affirmative Procurement Program Guidance. Sustainable Acquisition or Environmental Affirmative Procurement Program (EPP) clauses requiring subcontractors to utilize environmentally preferable products/services and recovered/recycled content have been incorporated into all LLNL General Provisions (GPs) for purchase orders and subcontracts making LLNL 100% compliant with the requirement to include sustainable acquisition clauses in eligible contract actions. LLNL continues to implement Procurement Standard Practice 23.5, Environmental Affirmative Procurement and Waste Reduction Requirements. This Standard Practice describes the requirements for acquiring environmentally preferable products and services, products with recycled content, and bio-based products, to promote cost-effective waste reduction in Laboratory subcontracts. It is reviewed periodically by the Environmental Functional Area (EFA) in order to ensure all regulatory revisions, updates, and changes have been incorporated.

Sustainable Acquisition Highlights

- EPEAT: 95 % of all computers, monitors, imaging equipment, and televisions purchased during FY2015 successfully met the EPEAT criteria.
- LLNL continues to manage sustainable Integrated Contractor Purchasing Team (ICPT) agreements with Fisher Scientific, Grainger Industrial Supply, Holman's Inc., and VWR International Scientific Products. These agreements offer special promotional pricing discounts ranging from 22% to 24% to the DOE Contractor Complex for environmentally preferable products.
- LLNL continues to award subcontracts to suppliers who offer DOT critical carbon steel drums made out of 15% recycled content material. During FY2015, 12 Purchase Orders were awarded to Skolnik Industries totaling $135,569.
- A subcontract with a contract value of $15,750 was awarded to a supplier who manufactures metal waste boxes containing 22% recycled content material.
- LLNL Computer subcontractors include an EPEAT rated description field-on their websites.
- LLNL's Supply Chain Management Department (SCM) continues to require the major suppliers of desktops, laptops, computer monitors, imaging equipment and televisions to issue EPEAT reports on a quarterly basis

directly to the Sustainability Performance Program Manager and the Contract Administrator. Receiving detailed reports more frequently throughout the fiscal year assists the Environmental Functional Area (EFA) in analyzing and projecting the total EPEAT buys for the year.

- In cooperation with SCM, The Office City provides a punchout list that identifies recycled content items to its customers. The catalog, which allows LLNL's Technical Release Representatives (TRRs) to see and search for recycled products, went live on December 14, 2012.
- SCM continues to include quarterly EPEAT reporting requirements in its subcontract with Perfect Output for the purchase of multi-function devices (copiers/printers).
- The Controlled Items/Services List (CISL) requires approval be obtained from an EFA SME when the purchase of Non-EPEAT rated Desktops, notebook workstations or computer monitor is requested on a requisition.
- Received gold level DOE Green Buy Award in March 2015 for achievement in sustainable acquisition.

Plans and Projected Performance

LLNL will continue to support the purchase of environmentally preferable products and services, recycled content products, and bio-based products, to the maximum extent practicable, by ensuring the clauses identified in the General Provisions are included in all purchase orders and subcontracts.

LLNL will also continue to revise Standard Practice 23.5 as required in order to ensure compliance with LLNL's prime contract requirements.

Resources Required

Business processes are in place for LLNL to meet this goal. Resources from the Supply Chain Management Department are required to ensure green-related clauses/articles are incorporated into purchase order and subcontract pro-forma documents and to update Standard Practices, as required.

Monitoring and reporting EPEAT performance and raising overall awareness for sustainable acquisition requires EFA resources. As additional categories are added to EPEAT (such as imaging equipment, televisions, and servers) associated increases in tracking and informational outreach will be needed.

Recent Sustainability Awards

Plaques were presented by LFO to the awardees at the November sustainability meeting

LLNL was the only national laboratory to receive multiple Sustainability Awards in 2014. The LLNL team won the awards for the following criteria:

Water Management

LLNL Fights Drought with Multi-Faceted Approach to Water Conservation

In an effort to combat severe drought conditions in California, the Lawrence Livermore National Laboratory (LLNL) took several steps to improve water conservation.

LLNL launched a successful pilot project that uses treated groundwater to cool equipment and research facilities. This novel approach has the potential to significantly reduce potable water consumption at each of LLNL's five cooling towers, which account for nearly 45 percent of the lab's potable water consumption (approximately 100 million gallons annually). Since the inception of the pilot study, the lab reduced water use by 2.3 million gallons. The lab is currently exploring expansion to additional cooling towers.

LLNL also converted existing turf to native landscaping, further reducing water use by 7 million gallons in FY 2014

LLNL's multi-pronged approach to water conservation reduced potable water use 9.7 percent in the past year.

GREEN IT STEWARDSHIP

Exemplary performance implementing green information technologies (IT), including power management, sustainable electronics acquisition, and data-center sustainability.

LLNL Data Center Consolidation Delivers Significant Cost Savings

The Lawrence Livermore National Laboratory (LLNL) developed a Data Center Sustainability Master Plan to manage the consolidation and closure of data center space to drive energy and cost savings. The joint collaboration between LLNL's Weapons and Complex Integration's High Performance Computing data center and the laboratory's Operations & Business' enterprise data center leveraged the existing LLNL High Performance Computing (HPC) Strategic Facility Master Plan to prepare and execute the plan.

Since 2011, LLNL has closed 23 data centers (26,000 square feet of space), resulting in annual cost savings of $305,000 in energy costs and $43,000 in maintenance costs. The consolidation of space also saved the lab from expenditures on the installation and maintenance of electrical meters for the shuttered data centers. These savings represent a cost avoidance of nearly $10-15 million over the life of the data centers.

GOAL PERFORMANCE AND REPORTING

Excelled in multiple sustainability goal areas while reporting quality data and developing a compelling Site Sustainability Plan (SSP).

LLNL Advances Sustainability through Planning, Reporting, and Action

The Lawrence Livermore National Laboratory (LLNL) has made significant progress in meeting the interim targets of many federally-mandated sustainability goals. Through FY 2013, LLNL reduced fleet petroleum use by 71 percent compared to the FY 2005 baseline; utilized approximately 17 percent renewable electricity as a percentage of overall electricity use; and added 6 new High Performance Sustainable Buildings (HPSB) since FY 2012, raising its total green building count to approximately 10 percent of its total building inventory. LLNL's fleet and renewable progress exceed DOE targets, while the HPSB total is among the highest of any DOE site. These successes were driven by a site-wide commitment to sustainability and a dedicated sustainability team.

LLNL's planning efforts are also especially noteworthy. The Lab's annual Site Sustainability Plan (SSP) proves a comprehensive roadmap detailing projects, energy savings, and funding strategies. Most importantly, the SSP focuses not only on the strengths and successes achieved by the site, but also on its weakness and plans for improvement.

LLNL also recently finalized an agreement to develop a 3-MW solar photovoltaic array on their land, showing continued commitment to the principles leading to this award.

GREEN BUY AWARD

LLNL received a gold-level DOE GreenBuy Award for achievement in sustainable acquisition. The GreenBuy Awards program recognizes DOE facilities that purchase products with leadership-level sustainability attributes that save energy, conserve water and reduce health and environmental impacts. Federal policy requires DOE and its contractors to purchase environmentally friendly products and report integration of sustainable acquisition requirements in new contract actions; sites can elect to report on purchases of specific products in a number of categories to qualify for the GreenBuy recognition program.

SSPP Goals 7.1 and 7.2
Divert at least 50% of non-hazardous solid waste, excluding construction and demolition debris.
Divert at least 50% of construction and demolition materials and debris

LLNL's pollution prevention (P2) efforts have been guided by federal Executive Orders (EO), and are firmly entrenched in many of its management practices. Many of the goals have been in place at LLNL and have been exceeded. Pollution prevention is a key component of LLNL's Environmental Management System, which includes training for all employees. DOE's SSPP P2 goals and a summary of LLNL's status and plans are listed below.

- Goal: Divert at least 50% of routine non-hazardous solid waste from landfill by the end of FY15.

  LLNL status: LLNL consistently meets or exceeds this goal. In FY2015, LLNL diverted 76%.
- Goal: Divert at least 50% of construction and demolition materials and debris by the end of FY15.

  LLNL status: LLNL consistently meets or exceeds this goal. In FY2015, LLNL diverted 62%.

Performance Status

Paper Use

LLNL continues to focus on reducing printing paper and to purchase uncoated paper containing at least 30% post-consumer fiber in accordance with EO 13514 goals; Figure 2-24 highlights LLNL's progress in reducing paper usage. The Laboratory is identifying opportunities to go paperless where ever possible. For example, in FY2014 the Health Services Department installed new software which allowed employees to access test results online, thus eliminating the need to print and copy all test results to mail to employees.

The Managed Print Services Program (MPS) is an effort to manage business machines (i.e. copiers, printers, fax machines, and scanners) to increase operational efficiency and reduce LLNL's environmental footprint. Equipment selections include environmental benefits such as double-sided (duplex) printing and scanning capabilities to reduce paper usage, and use solid ink technology instead of traditional toner cartridges. MPS has been implemented in the Operations and Business Principal Directorate, the Computations Directorate, and the Director's Office.

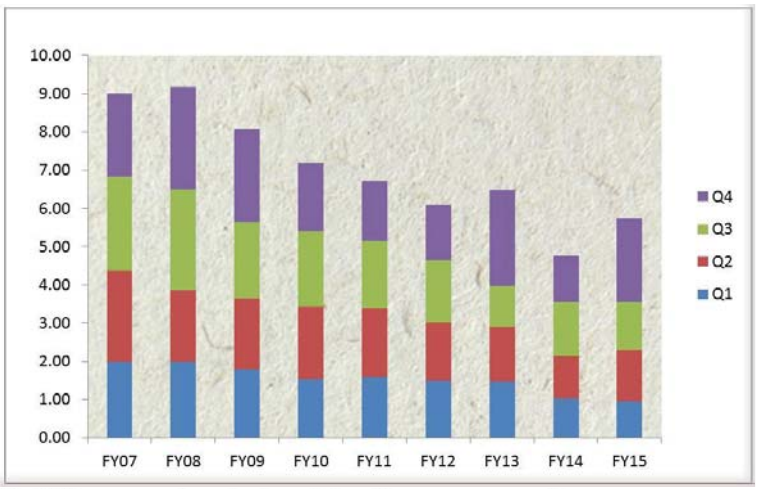


Figure 2-24. LLNL progress in reducing white office paper usage (reams per person purchased).

Waste Minimization and Recycling

LLNL regularly exceeds the EO 13514 goal that specifies that federal agencies divert at least 50% of routine non-hazardous solid waste, excluding construction and demolition debris, by the end of FY2015. LLNL continues its comingled recycling and composting program in 13 buildings (about 30% of LLNL's population) and in both on-site cafeterias. During FY2015, 66 metric tons of compostable waste and 43 metric tons of comingled recycling were collected under this program.

Waste collection areas in both LLNL on-site Cafeterias were revitalized in FY15 with new graphics, signs, and bins to encourage better separation of recyclable, compostable, and trash items into the correct bins. To make separation easier for employees and decrease the amount of waste sent to landfill, the Cafeterias switched all disposable foodservice ware to compostable products. Separation will be tracked during FY2016 to identify improvement.

The waste collection areas in both Cafeterias were revitalized with new signs and bins in FY2016 to encourage proper separation of recyclable, compostable and trash items

New signs show items specifically available in the Cafes to make separation easier for employees

Other accomplishments in waste management include the following:

- Raising awareness through awards, outreach, and numerous Laboratory events
- Encouraging reducing consumption and reusing items when feasible
- Performing reuse and recycling opportunity assessments in specific areas

LLNL does not anticipate any changes in site population in FY2016 that could impact waste generation.

Toxic Chemical Reduction

Using a priority-based approach, LLNL addressed the chemical usage reduction requirements of EO 13514 that focused on toxic, hazardous, and GHG-contributing chemical emissions. Twenty-seven chemicals were selected as "priority" chemicals in 2008 and continue to be tracked and reported regularly (Figure 2-26).

During FY2015, ChemTrack, in conjunction with various stakeholders, continued to work toward reducing the LLNL chemical and gas cylinder inventory over 10 years of age. The process includes review of chemical inventory data by the responsible line management and chemical custodians to designate legacy chemicals with no foreseeable need. Targeted bar coded containers are then uploaded onto inventory tablets that flag the designated chemicals to be removed from the facility as the Chemical Inventory Technicians perform inventory scanning. The FY2015 Targeted Legacy Chemical Reduction Process resulted in a reduction of 1,400 chemicals.

In FY2016, ChemTrack will be converting to the use of Radio-Frequency Identification (RFID) technology to track hazardous materials at LLNL. The RFID conversion process will include a chemical reduction step. The goal is to reduce the number of unneeded/expired hazardous materials at LLNL. ChemTrack will provide spreadsheets containing each Directorate's chemical inventory. Trade products that are past shelf life will be highlighted and they will be slated for reduction unless chemical custodians un-highlight them. Chemical custodians will be encouraged to review their inventory and highlight additional hazardous materials that they no longer need. The spreadsheets will then be returned to ChemTrack. ChemTrack will work closely with the hazardous waste management group to reduce identified hazardous materials.

Integrated Pest Management and Landscaping Practices

An integrated pest management program has been developed, including sustainable landscaping practices.

Materials Not Cleared for Unrestricted Release

A Distinguishable from Background (DFB) Radioactivity Determination for Waste document was finalized in FY2014 (LLNL-MI654907) to revise the process for certifying non-radioactive or radioactive waste. A DFB process for accelerator facilities has been implemented at most of LLNL's accelerator facilities.

Plans and Projected Performance

LLNL plans to continue to reduce pollution and increase recycling during FY2015 by:

- Raising awareness through awards, outreach, and Laboratory events
- Expanding the compost and recycling program to more areas across the site
- Continuing to reduce high risk chemical inventory for chemicals that do not have a foreseeable mission use

Resources Required

Normal business processes are in place for LLNL to meet this goal.

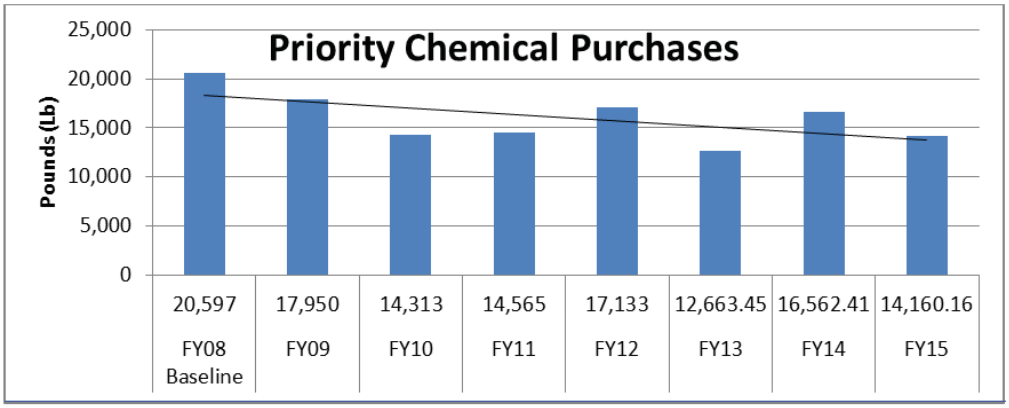


Figure 2-26. LLNL continues to track priority chemicals regularly.

SSPP Goal 8.1
Annual targets for performance contracting to be implemented in FY 2017 and annually thereafter as part of the planning of section 14 of E.O. 13693

LLNL has engaged in Energy Performance Contracts, most recently an ESPC wherein new HVAC Controls and WebCTRL software were installed in 24 facilities as part of ECM3.1 and 79 advanced electric meters and Energy Management software called EEM Suite were installed as part of ECM3.2.

LLNL is currently evaluating a UESC with the local utility, Pacific Gas and Electric (PG&E). This process is currently in the Investment Grade Audit (IGA) phase. The final report will be evaluated by LLNL and the energy conservation measures (ECMs) will be prioritized for future projects.

LLNL is currently supporting LFO with a 3.3MW photo voltaic project on 10 acres in the northwest buffer zone. This is a Power Purchase Agreement (PPA) with the selected vendor and WAPA. Construction was initiated in November 2015. The photo voltaic plant is expected to be fully operational in FY2016 with LLNL using 80% of the produced renewable power.

Challenges to Use of Energy Performance Contracts

LLNL's low cost of power and water has traditionally been an obstacle to justifying the payback on projects. This hurdle is expected to continue. Life cycle cost analysis can assist with improving the project's payback and will be applied as appropriate.

SSPP Goal 9.1
Purchases – 95% of eligible acquisitions each year are EPEAT-registered products

Performance Status

Each fiscal year LLNL is tasked to meet the 95% goal of all eligible acquisitions be EPEAT-registered products. In order to monitor our success against this goal, LLNL's Supply Chain Management Department (SCM) requires the major suppliers of desktops, laptops, computer monitors, imaging equipment and televisions to issue EPEAT reports on a quarterly basis directly to the Environmental Functional Area (EFA) representative and the Contract Administrator. Receipt of these detailed reports assisted EFA in analyzing and projecting the total EPEAT buys throughout the fiscal year. This reporting tool has allowed LLNL to be successful in meeting the 95% goal for the last two fiscal years. During FY15 the overall percentage of EPEAT desktops electronics, imaging equipment, and television buys totaled 98 % for the year. The goal was met again in FY14 when the overall EPEAT achievement was calculated to be 95% at the end of the fiscal year.

Plans and Projected Performance

LLNL will continue to review requisitions to see where EPEAT related products can be substituted for non-EPEAT requirements. LLNL will also continue to mandate that blanket agreement suppliers Holman's, The Office City (TIG), and Perfect Output submit quarterly reports that identify all EPEAT equipment acquisitions placed under these agreements. This data will be used to monitor performance and allow LLNL to make adjustments where necessary to ensure the goal is met.

SSPP Goal 9.2
Power management – 100% of eligible PCs, laptops, and monitors have power management enabled

Performance Status

LLNL continues to make progress in automating the electronic stewardship of its personal computing environment. Power management is actively managed on all eligible PCs, laptops, and monitors. All CRT monitors have been replaced by new energy efficient LCD monitors. All new standard PCs, laptops, and monitors adhere to ENERGY STAR and EPEAT Gold requirements.

Plans and Projected Performance

LLNL will continue its power management on all eligible PCs, laptops, and monitors. As computers are replaced, new systems will continue to be automatically included in the power management program. The Computation Associate Director in association with the LLNL CIO conducted a Windows Desktop Power management feasibility study. The study involved placing computers in a low power sleep mode during extended periods of idle time. Critical security patching and other maintenance can be performed remotely by utilizing Wake-On-LAN (WOL) technology. In theory all Windows systems can be placed in low power mode and remotely awakened by maintenance applications to perform automated tasks. The initial study was conducted on a small number of systems across a limited number of networks and facilities. It has proved to be promising, however a larger pool needs to be tested across dissimilar hardware and network facilities. We expect to test this technology further this year.

SSPP Goal 9.3
Automatic duplexing – 100% of eligible computers and imaging equipment have automatic duplexing enabled

Performance Status

The Statement of Work for LLNL's Managed Print Services (MPS) blanket agreement states that at a minimum, all multifunction devices and printers purchased under the Agreement shall possess duplex printing capabilities. The MPS vendor does not install all devices; however, when they do the installation, they are directed to configure the device to default to duplex printing.

As part of LLNL's Environmental Management System (EMS) significant outreach was conducted in FY15 to educate employees about the options available to increase printer efficiency, and reduce toner and paper use including setting printer defaults to double sided, to print in black and white instead of color, and use draft quality printing when appropriate. Information on the ink savings that could be realized from simply changing to a different font and electing to not print presentation viewgraphs was also evaluated and relayed to employees.

Plans and Projected Performance

As part of LLNL's EMS, the current print management policy will be reviewed to identify additional opportunities to increase toner and paper savings including an approach to evaluate the percent of printers set to default, which has not yet been fully evaluated.

SSPP Goal 9.4
End of Life – 100% of used electronics are reused or recycled using environmentally sound disposition options each year

Performance Status

LLNL manages electronic assets through the Donation, Utilization, and Sales (DUS) Group within the Property Management Division. DUS receives excess electronics and either donates, sells for reuse, or sends them to a certified recycling facility. DUS maintains a database that tracks the disposition of electronic devices sent off-site for reuse or recycling. Some electronic devices and storage media that contain sensitive information are handled by individual project areas and must first be purged of the information and then destroyed (e.g., shredded). All residual material is handled appropriately according to universal or hazardous waste regulations.

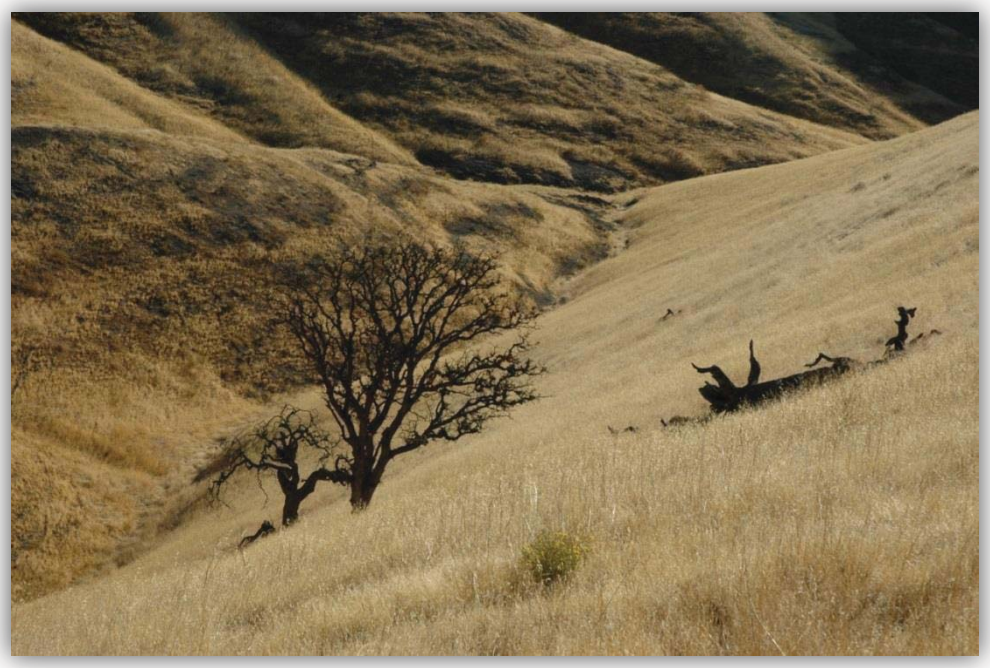
LLNL continually looks for new opportunities to reuse or recycle electronics. For example, in FY2015 a new reuse pathway was identified for cell phones.

Plans and Projected Performance

LLNL will continue to track reuse and recycling of electronic devices, and encourage reuse through online mechanisms and the lab's Second Time Around Store.

SSPP Goal 10.1
Update policies to incentivize planning for, and addressing the impacts of climate change

LLNL is committed to being a leader in responsible environmental stewardship and so incorporates pollution prevention, resource conservation and sustainable acquisitions into our planning and decision-making processes. We comply with all applicable environmental requirements and ensure that interactions with our regulators, DOE, and our community are based upon integrity, openness, and adherence to national security requirements. Through LLNL's existing environmental policy, the Lab commits to continuously improve environmental performance.



A parched landscape at LLNL's Site 300 in 2015; the years 2012 through 2015 were the driest in California's recorded history. (Photo Credit Lisa Paterson/LLNL)

Performance Status

The Lab has briefly begun to consider the immediate impacts on mission, workers, and physical property projected to result from sea level rise, increased precipitation, extreme temperatures, flooding, drought, and extreme storm events. According to the National Climate Assessment, the Southwest region is projected to experience an increase in the number of extreme heat days, a reduction in snowpack, and an increase in wildfire risks as a result of climate change. These risks in particular have an apparent and immediate potential to impact LLNL operations and mission.

LLNL water is supplied from Hetch Hetchy water system which relies primarily on Sierra Nevada snowmelt. The years 2012-2015 were the driest years in California's recorded history, and in March of 2015 California snowpack was at 5% of average. LLNL continues to explore ways to adapt to long-term water shortages, including using treated-ground water for cooling tower make-up and strategically replacing turf-grass with drought tolerant and native landscaping.

Climate change may increase the number of extreme heat days and the number of cooling degree days experienced at LLNL. While this has not yet had a substantial or lasting impact on operations, increases in the number of extreme heat days and changes in the number of cooling days would likely, over the long-term, increase cooling needs in

facilities at both Sites. Increases in cooling needs would result in increasing costs on Site, and create a greater potential for black-outs or brown-outs of the electrical grid. In addition to redundant grid suppliers, LLNL has back-up diesel electricity generators for critical systems and facilities. In recent years, LLNL has replaced several conventional roofs with white-roofs which reduce heating gain to the building thus decreasing the cooling load. Because LLNL already experiences extreme heat days, we have already considered the potential for extreme heat to impact outdoor workers. LLNL currently conducts training for these workers that includes strategies for the prevention of heat illness including work-rest regimens (see photo below).

During an exercise, LLNL emergency responders practice lifting a worker who has suffered heat related illness (Photo Credit Paul Hara/LLNL)

Plans and Projected Performance

LLNL plans to follow any direction and guidance from DOE in completing a thorough climate vulnerability assessment and adaptation plan. The assessment and plan would include the risks and impacts associated with extreme heat days, a reduction in snowpack, and an increase in wildfire risks, but in greater detail and with a comprehensive approach. The long-term risks and impacts would be considered as they may impact physical property, mission, and workers. Through the assessment and planning process, the Lab would identify existing resilient actions and areas for increasing actions to build resilience against predicted climate threats. As needed, LLNL may also identify and update policies as they relate to climate change.

SSPP Goal 10.2
Update emergency response procedures and protocols to account for projected climate change, including extreme weather events

LLNL currently incorporates into its emergency response program a broad range of hazards and environmental aspects, potential consequences, and lessons learned from simulated and actual emergencies. Simulated emergencies are practiced under varying conditions at both the Livermore Site and Site 300 to address the broad range of hazards. Additionally, through the general security policy and the security risk management policy, LLNL will follow DOE directives and federal law to protect DOE/NNSA interests against a broad range of threats.

Performance Status

In some cases proactive ongoing activities at LLNL already serve to address risks from potential climate hazards. For example, the Site 300 annual prescribed burn minimizes risks to assets from wild fires. As climate models predict more extreme droughts that persist for longer than normal periods of time, the risks from wild fires to Site 300 and Livermore Site assets may increase beyond those experienced in previous years. The Tesla wildfire burned 2,700 acres adjacent to LLNL's Site 300 in August 2015 causing the closure of Corral Hollow Road, where the Site 300 main gate is located (see photo below). Cal Fire continues to investigate the cause of the wildfire.

Changes in the earth's climate patterns promise lasting, impactful changes to Lab operations. While the Lab has not yet completed a full vulnerability assessment, LLNL has identified that any projected climate hazard could impact circumstances surrounding emergency situations, the manner in which the Lab responds to emergencies or the extent of the emergency. The frequency with which the Lab may need to address emergency situations that are associated with droughts and heat waves may increase as the impacts from climate hazards increase.

Plans and Projected Performance

Particular responses to extreme weather events and other longer term impacts from climate change are planned for analysis during the vulnerability assessment process, and would be incorporated into existing emergency response procedures as needed under direction from DOE. LLNL may also evaluate current activities that, while not initiated explicitly due to climate change impacts, would contribute to building resiliency into operations and assets.

Hillsides near Site 300 burned by the Tesla wildfire. LLNL emergency responders practice their fire extinguisher skills on an HVAC unit during an exercise. (Photo Credits Lisa Paterson and Paul Hara/LLNL)

SSPP Goal 10.3
Ensure workforce protocols and policies reflect projected human health and safety impacts of climate change

LLNL's existing workforce protocols and policies reflect the value of each worker returning home daily in the same or better condition than when they arrived at work. This sweeping approach to health and safety allows for adaptation as needed, including for extreme weather events and other projected impacts of climate change.

Workers review project requirements before starting work (Photo Credit Paul Hara/LLNL)

Performance Status

Through the Occupational Health and Safety Management System (OHSMS), LLNL has committed to protecting workers and the public. The Lab's ES&H requirements and safe work practices maintain compliance with federal, state, and local regulations. LLNL is dedicated to improving health and safety performance and to creating a workplace that is safe, healthy, and injury free. Though not initiated with the intent of addressing climate change impacts, the Lab's existing protocols and policies fully support addressing projected human health and safety impacts of climate change.

Plans and Projected Performance

Specific impacts of projected extreme weather events and other impacts from climate change are planned for review during the vulnerability assessment process under direction from DOE. The long-term projections and implications of climate change on worker health at work and outside of work would also be considered during the vulnerability assessment process. Protocols and policies would continue to evolve during the adaptation planning process as needed to address and integrate the findings of the vulnerability assessment under direction from DOE.

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SSPP Goal 10.4
Ensure site/lab management demonstrate commitment to adaptation efforts through internal communications and policies

The Lab has demonstrated its commitment to environmental stewardship and to protecting workers and the public, through its existing environmental policy and its existing health and safety policy, respectively. Through our Environmental Management System (EMS) and Occupational Health and Safety Management System (OHSMS), LLNL's management demonstrates a strong commitment to the policies, and consistently communicates internally to the Lab.

Performance Status

Existing LLNL policies were not initiated due to climate change hazards and impacts, but have established a culture of demonstrating management's commitment to environment, and health and safety. The LLNL Director introduces the annual ES&H briefing for all employees. All Environmental Management Plans (EMPs) and Safety Management Plans (SMPs) are reviewed and approved by the LLNL Deputy Director.

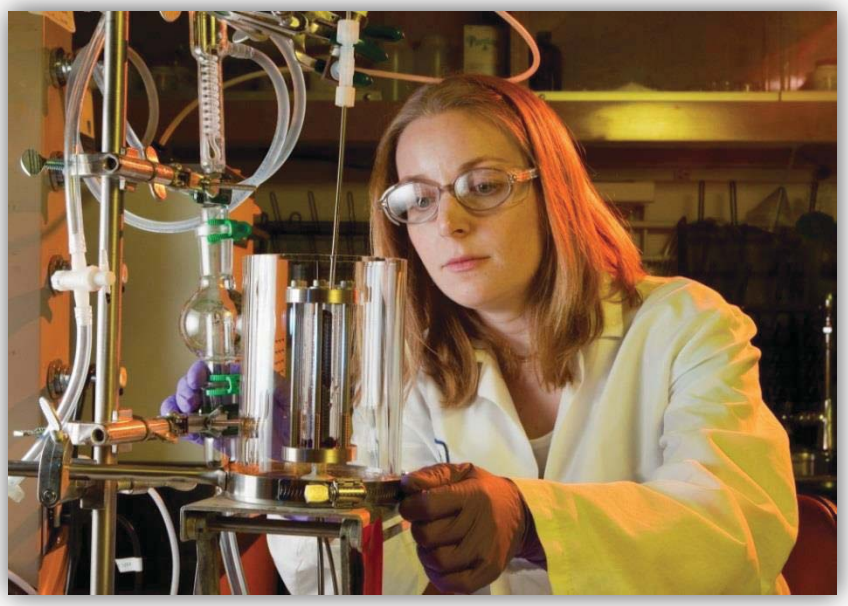
Plans and Projected Performance

LLNL management will continue to demonstrate commitment to adaptation efforts through existing internal communications and policies. During the vulnerability assessment process and resiliency and adaptation planning process, specific hazards or areas for increased attention may be identified. As needed, LLNL would evolve existing policies and communications to address these items.

The LLNL Site 300 work release meeting enables management and workers to discuss activities each morning and ensures safe work conditions. (Photo Credit Paul Hara/LLNL)

SSPP Goal 10.5
Ensure that site/lab climate adaptation and resilience policies and programs reflect best available current climate change science, updated as necessary

LLNL works to anticipate, innovate and deliver solutions for the nation's most challenging security problems including those that relate to energy and environmental security. LLNL's scientists and engineers include those working on the front lines to advance climate science.



An LLNL worker sets up equipment as part of research on carbon capture. (Photo Credit Jackie McBride/LLNL)

Performance Status

LLNL applies the best available science in all decision making. LLNL's Program for Climate Model Diagnosis and Intercomparison (PCMDI) develops improved methods and tools for the diagnosis and intercomparison of general circulation models that simulate the global climate. PCMDI also supports modeling studies initiated by the World Climate Research Programme (WCRP). PCMDI contributed to the work for which the Intergovernmental Panel on Climate Change (IPCC), who reports on scientific conclusions from climate change modeling, was awarded the Nobel Prize in 2007.

Plans and Projected Performance

LLNL plans to execute the vulnerability assessment and adaptation planning process under direction from DOE. During this process, LLNL's own climate scientists and experts in the field would advise on the use of the latest tools and science available for predicting and planning the effects of climate change as well as on the application of climate projections appropriate to Livermore's regional climate. LLNL will continue to apply the best available science in all decision making, including decisions relating to climate change adaptation and resilience.

Consolidated Energy Data Report (CEDR)

1.1	CEDR Content
1.2a	Performance Summary
1.2b	GHG Emissions Summary
2.1	Energy Management Data Report (Funds, Meters, Training)
2.1a	Metering Plan Data
2.2	Sustainable Acquisition
3.1	Facilities Utility/Fuel Consumption and Cost (Energy & Water)
3.2a	Operating On-Site Renewable Energy Systems
3.2b	Purchased Renewable Energy
3.3a	Active Conservation and Renewable Energy Measures List
3.3b	Cancelled Conservation and Renewable Energy Measures List
3.4	Building Inventory Changes
4.1	Source Energy Savings Credit
5.1	Electronics Stewardship - Acquisition and Disposal
5.2	Electronics Stewardship - Operations
6.1	Fugitive Emissions: Mixed Refrigerants
6.2	Fugitive Emissions: Fluorinated Gases and Others
6.3	Industrial Process Emissions by Process
7.1a	Fugitive Emissions: On-Site Wastewater Treatment
7.1b	Contracted Wastewater Treatment
8.1	Business Air Travel
8.2	Business Ground Travel
8.3	Employee Commuting
9.1a	Fugitive Emissions: On-Site Landfills and Municipal Solid Waste Facilities
9.1b	Fugitive Emissions: Contracted/Off-Site Landfills & Municipal Solid Waste Facilities
9.1c	Diversion of Municipal Solid Waste & Construction & Demolition Debris
10	Fleet Fuel (Optional)
11	EISA Section 432 - Compliance Path (Covered Facilities)

CEDR Content

The Consolidated Energy Data Report (CEDR) consists of 28 worksheets that should be completed by each site, as applicable, and included as part each site's SSP in a MS Excel electronic format. The CEDR is due to the SPO no later than December 7th.

Worksheet		Overview	Action
1.1	Content	Stand-alone overview of the CEDR tabs.	None.
1.2a	Performance Summary	Summary table of select goal performance.	None.
1.2b	GHG Emissions Summary	Summary table of GHG emissions broken down by scope.	None.
1.3	Factors and Drop-down Keys	Reference tab containing all factors and drop-down menus information for all tabs.	None.
2.1	Funds, Meters, Training	Collects information on energy and water spending, and metering status.	If applicable, complete cells with blue text.
2.1a	Metering Plan Data	Collects data for agency-wide metering plan for meter installation prioritization.	Review facility utilities that are appropriate for metering and select metering prioritization.
2.2	Sustainable Acquisition	Collects information on review of relevant contracts for sustainable acquisition requirements	Review pre-populated historical data and update with FY 2015 data.
3.1	Energy & Water	Collects quarterly consumption and associated cost information for facilities, non-fleet vehicles and equipment, and fully serviced leases (voluntary) for each fiscal year since FY 2003. Do not report on-site generated and purchased renewable energy in this tab. Conventional hydropower should be reported in this tab but separate from regular electricity for correct GHG and EUI accounting; do not report conventional hydropower in the renewable tabs.	Review pre-populated historical data and update with FY 2015 data.
3.2a	Operating On-Site Renewables	Houses the list of on-site renewable energy systems at DOE sites to track progress towards renewable energy requirements in EPAct2005 and DOE O 436.1. Also used towards developing the site's GHG inventory.	Review pre-populated data and update as necessary.
3.2b	Purchased Renewables	Collects renewable energy purchases to track progress towards renewable energy requirements in EPAct 2005 and DOE O 436.1. Also used towards developing the site's GHG inventory.	Review pre-populated historical data and update with FY 2015 data.
3.3a	Active ECM & RE Measures	Tracks planned energy and water conservation measures, in addition to future renewable energy systems. Also used to project future energy/water consumption along with performance towards goals.	Review pre-populated data and update as necessary.
3.3b	Cancel ECM & RE Measures	List of cancelled conservation and renewable energy measures. Informational only.	None.
3.4	Bldg Inventory Changes	Tracks demolition and new construction projects along with construction requirements for meeting HPSB, EPAct 2005 30 percent better than ASHRAE, and stormwater design. Also used to project future energy/water consumption. Note some of the information may be captured in the new FIMS module, please ensure consistency.	Review pre-populated data and update as necessary.
4.1	Source Energy Savings Credit	Part of the Annual Energy Report to adjust site energy use accounting from projects — especially combined heat and power — that would change the accounting of site vs. source energy.	Complete worksheet, if applicable.
5.1	Electronics Acq&Disp	Collects data on electronic acquisition (i.e. EPEAT, FEMP-Designated) and sound electronics disposition	Review pre-populated historical data and update with FY 2015 data.
5.2	Electronics O&M	Collects data on power management for computers and monitors, as well as duplex printing utilization for printers and multi-function devices.	Review pre-populated historical data and update with FY 2015 data.
6.1	Mixed Refrigerants	Collects and calculates fugitive emission data for refrigerants and fluorinated gases.	Review pre-populated historical data and update with FY 2015 data.
6.2	Fugitive F-gases	Collects and calculates fugitive emission data for fluorinated gases and other fugitive emissions.	Review pre-populated historical data and update with FY 2015 data.
6.3	Industrial Process	Collects and calculates GHG emission data for industrial process by process.	Review pre-populated historical data and update with FY 2015 data.
7.1a	On-Site Wastewater	Collects and calculates fugitive emissions data for on-site wastewater treatment.	Review pre-populated historical data and update with FY 2015 data.
7.1b	Contr. Wastewater	Collects and calculates GHG emissions resulting from contracted off-site wastewater treatment, excluding electricity.	Review pre-populated historical data and update with FY 2015 data.
8.1	Air Bus Travel	Collects and calculates emissions for prime contractor employee business air travel.	Review pre-populated historical data and update with FY 2015 data.
8.2	Ground Bus Travel	Collects and calculates emissions for prime contractor employee business ground travel.	Review pre-populated historical data and update with FY 2015 data.
8.3	Commuter Travel	Collects and calculates emissions for prime contractor employee commuting.	Review pre-populated historical data and update with FY 2015 data.
9.1a	On-Site Landfill MSW	Calculates emissions for on-site landfill and feeds to 9.1c	Review pre-populated historical data and update with FY 2015 data.
9.1b	Off-Site Landfill MSW	Calculates emissions for contracted/off-site municipal solid waste disposal and feeds to 9.1c	Review pre-populated historical data and update with FY 2015 data.
9.1c	MSW & C&D Diversion	Calculates MSW and construction and demolition diversion rates	Review pre-populated data and update as necessary.
10	Fleet Fuel (Optional)	Calculates emissions for fleet fuel consumption based on FAST data.	Optional - Download and paste FAST data.
11	Covered Facilities	List of covered facilities with anticipated evaluation dates and type/level.	Select covered facilities and complete associated data columns.

Performance Summary

The table below summarized performance for several sustainability goals based on information reported in this workbook. All tabs must be fully completed to populate this table for FY 2015 goal performance. Performance status for goals 1.1, 3.1, and 3.2 will not be complete for FY 2015 if Tab 10 Fleet Fuel (Optional) is not entered and "Current FY" is chosen in cell F6 below. Tab 10 remains optional, and will be filled in by SPO following the close of FAST to complete the DOE GHG Inventory.

Note: FY 2015 performance is not considered final until DOE's GHG Inventory is approved by FEMP.

If Tab 10 Fleet Fuel (Optional) has been updated with FY 2014 data, select "Current FY" in cell F6 to have the performance estimates based on latest data, otherwise leave as is.

Current FY

SSPP Goal #	DOE Goal	Baseline Year	Baseline	FY 2014	FY 2015	Performance Status (FY 2015)
1.1	50% Scope 1 & 2 GHG reduction by FY 2025 from a FY 2008 baseline	2008	193,782.7	109,742.8	122,628.1	-36.7%
1.2	25% Scope 3 GHG reduction by FY 2025 from a FY 2008 baseline	2008	46,008.2	35,585.6	35,204.4	-23.5%
2.1	25% energy intensity reduction by FY 2025 from a FY 2003 baseline *(Note: Estimates without REC credit, FY 2015 is final reporting year for E.O 13514 and new baseline for 2025 goal per E.O 13693)*		205,417	159,205	155,096	-24.5%
	Goal Energy (10^6 Btu)	2003	1,210,522	935,159	911,025	
	Goal Square Footage (x1,000)	2003	5,893	5,874	5,874	
2.3a	Individual buildings or processes metering for 90% of electricity (by October 1, 2012)				90.0%	90.0%
2.3b	Individual buildings or processes metering for 90% of natural gas (by October 1, 2015)				60.0%	60.0%
2.3c	Individual buildings or processes metering for 90% of steam (by October 1, 2015)				0.0%	0.0%
2.3d	Individual buildings or processes metering for 90% of chilled water (by October 1, 2015)				0.0%	0.0%
3.2	30% of annual electricity consumption from renewable sources by FY 2025 and thereafter (10% FY 2016-2017)			18.2%	13.3%	13.3%
	Renewable Electricity Usage (MWh)			74,223	54,474	
	Total Electricity Usage (MWh)			408,013	408,470	
4.1	36% water intensity reduction by FY 2025 from a FY 2007 baseline		35.8	31.2	28.1	-21.4%
	Potable Water Consumption (10^6 Gal)	2007	255	220	199	
	Total Gross Square Footage (x1,000)	2007	7,104	7,053	7,053	
4.2	30% water consumption reduction of industrial, landscaping, and agricultural (ILA) water by FY 2025 from a FY 2010 baseline	2010	0	0	0	#DIV/0!
5.1	20% reduction in fleet petroleum consumption by FY 2015 and each year thereafter, relative to a FY 2005 baseline *(Note: Estimates without biodiesel credit)*	2005	355,266	119,238	109,382	-69.2%
5.2	10% annual increase in fleet alternative fuel consumption by FY 2015 and each year thereafter, relative to a FY 2005 baseline	2005	3,160	72,783	22,684	617.9%
6.1	Procurements meet requirements by including necessary provisions and clauses			100.0%	100.0%	100.0%
7.1	Divert at least 50% of non-hazardous solid waste, excluding construction and demolition debris			72.9%	75.7%	75.7%
7.2	Divert at least 50% of construction and demolition materials and debris			80.3%	62.2%	62.2%
9.1	100% of eligible PCs, laptops, and monitors with power management actively implemented and in use			100.0%	79.7%	79.7%

GHG Emissions Summary

The tables below summarize Scope 1 & 2 and Scope 3 GHG emissions and provide a breakdown.
Note: FY 2015 performance is not considered final until DOE's GHG Inventory is approved by FEMP.

Scope 1&2 GHG Emissions Breakdown			
Categories	**Baseline (2008)**	**FY 2014**	**FY 2015**
Energy and Water	156,687.7	150,466.2	130,675.4
Mixed Refrigerants	736.3	663.4	1,311.7
Fugitive Emissions	34,578.6	2,738.2	9,996.9
Industrial Processes	0.0	0.0	0.0
On-Site WWT	7.2	11.6	12.2
On-Site Landfill MSW	0.0	0.0	0.0
Fleet Fuel	1,773.0	1,137.5	1,076.7
Purchased Renewables	0.0	0.0	0.0
RECs (subtracted)	NA	19,310.6	20,444.8
Total	**193,782.7**	**135,706.4**	**122,628.1**

Scope 3 GHG Emissions Breakdown			
Categories	**Baseline (2008)**	**FY 2014**	**FY 2015**
Energy and Water	8,624.1	6,775.8	7,131.9
Air Travel	9,709.0	8,015.3	8,412.5
Ground Travel	1,217.7	1,253.3	1,401.9
Commute	25,708.0	19,123.4	18,455.6
Off-Site WWT	19.6	14.1	13.7
Off-Site Landfill MSW	729.8	607.2	597.2
Purchased Renewables	NA	1,068.4	538.3
RECs (subtracted)	NA	1,272.0	1,346.7
Total	**46,008.2**	**35,585.6**	**35,204.4**

Energy Management Data Report

Requirement(s): See tables

Instructions: If applicable, complete cells with blue text and highlight the cell. The information requested is for completing DOE's Annual Energy Report.

Source: Site/Lab

ENERGY EFFICIENCY IMPROVEMENTS AND FUNDING

1-1. E.O. 13693/OMB Circular A-11 Direct Agency Obligations

	FY 2015		Projected FY 2016		Projected FY 2017	
		(Thou. $)		(Thou. $)		(Thou. $)
Direct obligations for facility energy efficiency improvements, including facility surveys/audits		$0.0		$0.0		$0.0
Estimated annual energy savings anticipated from obligations (Million BTU)	0.0	$0.0	0.0	$0.0	0.0	$0.0
Estimated annual water savings anticipated from obligations (Thousands Gal)	0.0	$0.0	0.0	$0.0	0.0	$0.0

1-2. E.O. 13693/OMB Circular A-11 Awarded Energy Savings Performance Contracts (ESPCs)

	Annual savings (10^6 BTU)	(Number/Thou. $)
Number of ESPC Task/Delivery Orders awarded in fiscal year & annual energy (Million BTU) savings	0.0	0.0
Investment value of ESPC Task/Delivery Orders awarded in fiscal year		$0.0
Amount privately financed under ESPC Task/Delivery Orders awarded in fiscal year		$0.0
Cumulative guaranteed cost savings of ESPCs awarded in fiscal year relative to the baseline spending		$0.0
Total contract award value of ESPCs awarded in fiscal year (sum of contractor payments for debt repayment, M&V, and other negotiated performance period services)		$0.0
Total payments made to all ESPC contractors in fiscal year		$0.0

1-3. E.O. 13693/OMB Circular A-11 Awarded Utility Energy Services Contracts (UESCs)

	Annual savings (10^6 BTU)	(Number/Thou. $)
Number of UESC Task/Delivery Orders awarded in fiscal year & annual energy (Million BTU) savings	0.0	0.0
Investment value of UESC Task/Delivery Orders awarded in fiscal year		$0.0
Amount privately financed under UESC Task/Delivery Orders awarded in fiscal year		$0.0
Cumulative cost savings of UESCs awarded in fiscal year relative to the baseline spending		$0.0
Total contract award value of UESCs awarded in fiscal year (sum of payments for debt repayment and other negotiated performance period services)		$0.0
Total payments made to all UESC contractors in fiscal year		$0.0

1-4. EPAct 1992 Training

	(Number)	(Thou. $)
Number of personnel trained in FY 2015/Expenditure	0	$0.0

Energy Management Data Report

Requirement(s): See tables

Instructions: If applicable, complete cells with blue text and highlight the cell. The information requested is for completing DOE's Annual Energy Report.

Source: Site/Lab

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1-5a. EPAct 2005 Metering Of Electricity Use

(Note: If a building has an advanced and a standard meter, only account for the advanced meter. If a building has multiple meters, ensure the utility metered is accounted/reported only once)

Fiscal Year	# of "Appropriate" Buildings Per EPAct 2005	Standard Meters			Advanced Meters			Total		Total % of Electricity Metered
		# of Buildings with Standard Meters	Estimated Amount of Purchased Electricity Metered (kWh/Yr)	Estimated Amount of On-Site Generate Electricity Metered (kWh/Yr)	# of Buildings with Advanced Meters	Estimated Amount of Purchased Electricity Metered (kWh/Yr)	Estimated Amount of On-Site Generate Electricity Metered (kWh/Yr)	# of Appropriate Buildings with Dedicated Meters	Cumulative % of "Appropriate" Buildings Metered	
2015 Report	143	27	8,343,234	0	116	354,785,885.0	0	143.0	100.0%	90.0%
2016 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2017 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2018 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%

1-5b. EISA 2007 Metering Of Natural Gas Use

(Note: If a building has an advanced and a standard meter, only account for the advanced meter. If a building has multiple meters, ensure the utility metered is accounted/reported only once)

Fiscal Year	# of "Appropriate" Buildings Per EPAct 2005	Standard Meters			Advanced Meters			Total		Total % of Natural Gas Metered
		# of Buildings with Standard Meters	Estimated Amount of Purchased Natural Gas Metered (CF/Yr)	Estimated Amount of On-Site Generate Natural Gas Metered (CF/Yr)	# of Buildings with Advanced Meters	Estimated Amount of Purchased Natural Gas Metered (CF/Yr)	Estimated Amount of On-Site Generate Natural Gas Metered (CF/Yr)	# of Appropriate Buildings with Dedicated Meters	Cumulative % of "Appropriate" Buildings Metered	
2015 Report	28	14	156,606	0	14	83,488	0	28.0	100.0%	60.0%
2016 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2017 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2018 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%

1-5c. EISA 2007 Metering Of Steam Use N/A

(Note: If a building has an advanced and a standard meter, only account for the advanced meter. If a building has multiple meters, ensure the utility metered is accounted/reported only once)

Fiscal Year	# of "Appropriate" Buildings Per EPAct 2005	Standard Meters			Advanced Meters			Total		Total % of Steam Metered
		# of Buildings with Standard Meters	Estimated Amount of Purchased Steam Metered (Btu/Yr)	Estimated Amount of On-Site Generate Steam Metered (Btu/Yr)	# of Buildings with Advanced Meters	Estimated Amount of Purchased Steam Metered (Btu/Yr)	Estimated Amount of On-Site Generate Steam Metered (Btu/Yr)	# of Appropriate Buildings with Dedicated Meters	Cumulative % of "Appropriate" Buildings Metered	
2015 Report	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2016 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2017 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2018 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%

1-5d. DOE O 436.1 & SSPP Metering Of Chilled Water Use N/A

(Note: If a building has an advanced and a standard meter, only account for the advanced meter. If a building has multiple meters, ensure the utility metered is accounted/reported only once)

Fiscal Year	# of "Appropriate" Buildings Per EPAct 2005	Standard Meters			Advanced Meters			Total		Total % of Chilled Water Metered
		# of Buildings with Standard Meters	Estimated Amount of Purchased Chilled Water Metered (Btu/Yr)	Estimated Amount of On-Site Generate Chilled Water Metered (Btu/Yr)	# of Buildings with Advanced Meters	Estimated Amount of Purchased Chilled Water Metered (Btu/Yr)	Estimated Amount of On-Site Generate Chilled Water Metered (Btu/Yr)	# of Appropriate Buildings with Dedicated Meters	Cumulative % of "Appropriate" Buildings Metered	
2015 Report	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2016 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2017 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2018 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%

1-5e. Water Management Best Practice Metering Of Water Use

(Note: If a building has an advanced and a standard meter, only account for the advanced meter. If a building has multiple meters, ensure the utility metered is accounted/reported only once)

Fiscal Year	# of "Appropriate" Buildings Per EPAct 2005	Standard Meters			Advanced Meters			Total		Total % of Water Metered
		# of Buildings with Standard Meters	Estimated Amount of Purchased Water Metered (Gal/Yr)	Estimated Amount of On-Site Captured Water Metered (Gal/Yr)	# of Buildings with Advanced Meters	Estimated Amount of Purchased Water Metered (Gal/Yr)	Estimated Amount of On-Site Captured Water Metered (Gal/Yr)	# of Appropriate Buildings with Dedicated Meters	Cumulative % of "Appropriate" Buildings Metered	
2015 Report	28	13	12,916	0	15	120,788	0	28.0	100.0%	60.8%
2016 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2017 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2018 Planned	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%

Agency-Wide Metering Plan Development - Building Level Metering

Requirement(s): EPAct 2005, EISA 2007

Data Source: 2014 FIMS Snapshot, Tab 11 Covered Facilities

Instructions: This tab is populated with facilities that are appropriate for metering based on the updated Federal Building Metering Guidance. Appropriate facilities include the following criteria: Facilities that will not be disposed within 5 years, facilities that do not have C, D, or F Exclusion Part (C - Fully serviced lease, D - Essentially only lighting, F - Lease some energy provided), facilities that are greater than 5,000 square feet, facilities that are building or trailer property types and facilities that have the ownership type of DOE Owned or DOE Leased. Sites will indicate their prioritization for these appropriate facilities by selecting the metering prioritization from the pick list in Column AE "Metering Prioritization for Agency-wide Metering Plan" based on the highlighted utility type in columns Y to AD. Electricity, Natural Gas, Steam, and Potable Water are required to be prioritized while Chilled Water and Non-Potable Fresh Water are optional. Data for metering implementation cost and notes can be added in Columns AF and AG. Note, if a facility has multiple not metered but appropriate utilities, there will be multiple rows in this tab for that facility.

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Facility Characteristics																		Additional Utility Meters			Respond to Utility Highlighted in Orange						Requested Data for Agency-Wide Metering Plan		
Program	Site Name	Property ID	Property Name	Site #	Real Property Unique ID	Asset Type	Property Type	Out-grant	Est Disposition Yr	Ownership	Gross /Rentable Sqft	Exclusion Part	Justification Comment	Sust-Guiding Principle %	Location City	Location State	EISA S 432 Covered Facility- For Site Prioritization	Meter-Coal	Meter-Fuel Oil	Meter-Gas-Other	Meter-Electricity	Meter-Gas-Natural	Meter-Steam/Hot Water	Meter-Water-Potable	Meter-Water-Chilled	Meter-Water-Non-Potable-Fresh	Metering Prioritization for Agency-wide Metering Plan	Estimated Cost for Meter Installation	Notes
NNSA	LLNL	041	LONG TERM STORAGE	112	89542	501 Buildings	Building	N		DOE Owned (C	25555				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	041	LONG TERM STORAGE	112	89542	501 Buildings	Building	N		DOE Owned (C	25555				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	111	DIRECTORS OFFICE	112	89547	501 Buildings	Building	N		DOE Owned (C	112418				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Advanc	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	112	COMPUTER CENTER	112	203771	501 Buildings	Building	N		DOE Owned (C	45512				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	112	COMPUTER CENTER	112	203771	501 Buildings	Building	N		DOE Owned (C	45512				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	113	G.S	112	89548	501 Buildings	Building	N		DOE Owned (C	44426				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Advanc	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	115	LIVERMORE COMPUTING FACII	112	89549	501 Buildings	Building	N		DOE Owned (C	17140				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	115	LIVERMORE COMPUTING FACII	112	89549	501 Buildings	Building	N		DOE Owned (C	17140				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	116	G.S	112	89550	501 Buildings	Building	N		DOE Owned (C	7781				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	116	G.S	112	89550	501 Buildings	Building	N		DOE Owned (C	7781				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	117	LIVERMORE COMPUTING FACII	112	89551	501 Buildings	Building	N		DOE Owned (C	11370				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Advance	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	117	LIVERMORE COMPUTING FACII	112	89551	501 Buildings	Building	N		DOE Owned (C	11370				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	121	PLS OFFICE	112	89553	501 Buildings	Building	N		DOE Owned (C	90759				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Advance	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	123	AUDITORIUM	112	89555	501 Buildings	Building	N		DOE Owned (C	7742				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	123	AUDITORIUM	112	89555	501 Buildings	Building	N		DOE Owned (C	7742				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	123	AUDITORIUM	112	89555	501 Buildings	Building	N		DOE Owned (C	7742				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	125	WEST CAFETERIA	112	89556	501 Buildings	Building	N		DOE Owned (C	12513				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	125	WEST CAFETERIA	112	89556	501 Buildings	Building	N		DOE Owned (C	12513				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	125	WEST CAFETERIA	112	89556	501 Buildings	Building	N		DOE Owned (C	12513				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1280	VACANT	112	89559	501 Buildings	Trailer	N	2022	DOE Owned (C	5760				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1280	VACANT	112	89559	501 Buildings	Trailer	N	2022	DOE Owned (C	5760				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1280	VACANT	112	89559	501 Buildings	Trailer	N	2022	DOE Owned (C	5760				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	131	ENGINEERING	112	89561	501 Buildings	Building	N		DOE Owned (C	285308				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Advanc	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	132N	G.S. DPRF	112	127068	501 Buildings	Building	N		DOE Owned (C	251318				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	132S	G.S / NTTC	112	89562	501 Buildings	Building	N		DOE Owned (C	219387				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Advanc	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	140	G.S / ISRF	112	143668	501 Buildings	Building	N		DOE Owned (C	66660				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	140	G.S / ISRF	112	143668	501 Buildings	Building	N		DOE Owned (C	66660				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	141	ELECTRONIC SHOPS	112	89576	501 Buildings	Building	N		DOE Owned (C	47342				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	141	ELECTRONIC SHOPS	112	89576	501 Buildings	Building	N		DOE Owned (C	47342				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	142	PLS OFFICE	112	143756	501 Buildings	Building	N		DOE Owned (C	20306			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standar	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	151	ISOTOPE SCIENCES FACILITY	112	89589	501 Buildings	Building	N		DOE Owned (C	96030				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	153	MICROFABRICATION LAB	112	89593	501 Buildings	Building	N		DOE Owned (C	25976				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		
NNSA	LLNL	154	BIO SECURITY & NANOSCIENC	112	89594	501 Buildings	Building	N		DOE Owned (C	9450				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	154	BIO SECURITY & NANOSCIENC	112	89594	501 Buildings	Building	N		DOE Owned (C	9450				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	154	BIO SECURITY & NANOSCIENC	112	89594	501 Buildings	Building	N		DOE Owned (C	9450				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	155	ISF OFFICE	112	141490	501 Buildings	Building	N		DOE Owned (C	21742				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	155	ISF OFFICE	112	141490	501 Buildings	Building	N		DOE Owned (C	21742				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	161	JUPITER LASER SUPPORT	112	89599	501 Buildings	Building	N		DOE Owned (C	6105				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	161	JUPITER LASER SUPPORT	112	89599	501 Buildings	Building	N		DOE Owned (C	6105				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	162	RESEARCH/CRYSTAL GTH	112	89600	501 Buildings	Building	N		DOE Owned (C	19042				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	162	RESEARCH/CRYSTAL GTH	112	89600	501 Buildings	Building	N		DOE Owned (C	19042				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	162	RESEARCH/CRYSTAL GTH	112	89600	501 Buildings	Building	N		DOE Owned (C	19042				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	165	OPTICS/DEVELOPMENT LAB	112	89606	501 Buildings	Building	N		DOE Owned (C	10053				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	165	OPTICS/DEVELOPMENT LAB	112	89606	501 Buildings	Building	N		DOE Owned (C	10053				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	165	OPTICS/DEVELOPMENT LAB	112	89606	501 Buildings	Building	N		DOE Owned (C	10053				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	166	DEVELOPMENT LAB	112	89607	501 Buildings	Building	N		DOE Owned (C	13226				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	166	DEVELOPMENT LAB	112	89607	501 Buildings	Building	N		DOE Owned (C	13226				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	166	DEVELOPMENT LAB	112	89607	501 Buildings	Building	N		DOE Owned (C	13226				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1677	IMF MANAGED OFFICE FACILIT	112	89608	501 Buildings	Trailer	N		DOE Owned (C	28576			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1677	IMF MANAGED OFFICE FACILIT	112	89608	501 Buildings	Trailer	N		DOE Owned (C	28576			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1739	JUPITER OFFICES	112	89633	501 Buildings	Trailer	N		DOE Owned (C	5646			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1739	JUPITER OFFICES	112	89633	501 Buildings	Trailer	N		DOE Owned (C	5646			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	174	PLS	112	89634	501 Buildings	Building	N		DOE Owned (C	19437				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		
NNSA	LLNL	174	PLS	112	89634	501 Buildings	Building	N		DOE Owned (C	19437				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	181	ENG FABRICATION	112	89640	501 Buildings	Building	N		DOE Owned (C	13532				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	181	ENG FABRICATION	112	89640	501 Buildings	Building	N		DOE Owned (C	13532				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1878	OFFICE	112	89647	501 Buildings	Trailer	N		DOE Owned (C	6292			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1878	OFFICE	112	89647	501 Buildings	Trailer	N		DOE Owned (C	6292			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1879	LABORATORY TRAINING CNTR	112	89648	501 Buildings	Trailer	N		DOE Owned (C	11118			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1879	LABORATORY TRAINING CNTR	112	89648	501 Buildings	Trailer	N		DOE Owned (C	11118			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1888	CAMS OFFICES AND ELECTRO	112	89655	501 Buildings	Trailer	N		DOE Owned (C	11520			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1888	CAMS OFFICES AND ELECTRO	112	89655	501 Buildings	Trailer	N		DOE Owned (C	11520			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1889	LABORATORY TRAINING CENTI	112	89656	501 Buildings	Trailer	N		DOE Owned (C	16821			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	1889	LABORATORY TRAINING CENTI	112	89656	501 Buildings	Trailer	N		DOE Owned (C	16821			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	190	CAMS FACILITY	112	89657	501 Buildings	Building	N		DOE Owned (C	10252				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	190	CAMS FACILITY	112	89657	501 Buildings	Building	N		DOE Owned (C	10252				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Metered	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	191	HEAF	112	89658	501 Buildings	Building	N		DOE Owned (C	121028				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	194	PLS	112	89662	501 Buildings	Building	N		DOE Owned (C	41543				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	197	PLS LAB FACILITY	112	89666	501 Buildings	Building	N		DOE Owned (C	10716				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	197	PLS LAB FACILITY	112	89666	501 Buildings	Building	N		DOE Owned (C	10716				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	211	PLS	112	133205	501 Buildings	Building	N		DOE Owned (C	14122				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	211	PLS	112	133205	501 Buildings	Building	N		DOE Owned (C	14122				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	216	CYBER SECURITY	112	89676	501 Buildings	Building	N		DOE Owned (C	18976				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	216	CYBER SECURITY	112	89676	501 Buildings	Building	N		DOE Owned (C	18976				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	217	VACANT	112	89677	501 Buildings	Building	N	2022	DOE Owned (C	17999				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	217	VACANT	112	89677	501 Buildings	Building	N	2022	DOE Owned (C	17999				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	217	VACANT	112	89677	501 Buildings	Building	N	2022	DOE Owned (C	17999				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	218	VACANT	112	89680	501 Buildings	Building	N	2022	DOE Owned (C	17956				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	218	VACANT	112	89680	501 Buildings	Building	N	2022	DOE Owned (C	17956				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	218	VACANT	112	89680	501 Buildings	Building	N	2022	DOE Owned (C	17956				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	219	VACANT	112	89682	501 Buildings	Building	N		DOE Owned (C	18429				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	219	VACANT	112	89682	501 Buildings	Building	N		DOE Owned (C	18429				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	231	DEVLMT & ASSBLY ENGNG	112	89699	501 Buildings	Building	N	9999	DOE Owned (C	142403				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	231	DEVLMT & ASSBLY ENGNG	112	89699	501 Buildings	Building	N	9999	DOE Owned (C	142403				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standar	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	234	MATERIALS MGMT OFFICE	112	125924	501 Buildings	Building	N		DOE Owned (C	5261				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Metered-Advance	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	234	MATERIALS MGMT OFFICE	112	125924	501 Buildings	Building	N		DOE Owned (C	5261				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	234	MATERIALS MGMT OFFICE	112	125924	501 Buildings	Building	N		DOE Owned (C	5261				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		

Agency-Wide Metering Plan Development - Building Level Metering

Requirement(s): EPAct 2005, EISA 2007

Data Source: 2014 FIMS Snapshot, Tab 11 Covered Facilities

Instructions: This tab is populated with facilities that are appropriate for metering based on the updated Federal Building Metering Guidance. Appropriate facilities include the following criteria: Facilities that will not be disposed within 5 years, facilities that do not have C, D, or F Exclusion Part (C - Fully serviced lease, D - Essentially only lighting, F - Lease some energy provided), facilities that are greater than 5,000 square feet, facilities that are building or trailer property types and facilities that have the ownership type of DOE Owned or DOE Leased. Sites will indicate their prioritization for these appropriate facilities by selecting the metering prioritization from the pick list in Column AE "Metering Prioritization for Agency-wide Metering Plan" based on the highlighted utility type in columns Y to AD. Electricity, Natural Gas, Steam, and Potable Water are required to be prioritized while Chilled Water and Non-Potable Fresh Water are optional. Data for metering implementation cost and notes can be added in Columns AF and AG. Note, if a facility has multiple not metered but appropriate utilities, there will be multiple rows in this tab for that facility.

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Facility Characteristics																		Additional Utility Meters			Respond to Utility Highlighted in Orange						Requested Data for Agency-Wide Metering Plan		
Program	Site Name	Property ID	Property Name	Site #	Real Property Unique ID	Asset Type	Property Type	Out-grant	Est Disposition Yr	Ownership	Gross /Rentable Sqft	Exclusion Part	Justification Comment	Sust-Guiding Principle %	Location City	Location State	EISA S 432 Covered Facility- For Site Prioritization	Meter-Coal	Meter-Fuel Oil	Meter-Gas-Other	Meter-Electricity	Meter-Gas-Natural	Meter-Steam/Hot Water	Meter-Water-Potable	Meter-Water-Chilled	Meter-Water-Non-Potable-Fresh	Metering Prioritization for Agency-wide Metering Plan	Estimated Cost for Meter Installation	Notes
NNSA	LLNL	235	MRDF	112	89702	501 Buildings	Building	N		DOE Owned (C	88175				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	235	MRDF	112	89702	501 Buildings	Building	N		DOE Owned (C	88175				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	239	RADIOGRAPHY	112	89703	501 Buildings	Building	N		DOE Owned (C	12904				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	239	RADIOGRAPHY	112	89703	501 Buildings	Building	N		DOE Owned (C	12904				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	242	OFFICE	112	201413	501 Buildings	Building	N		DOE Owned (C	20328				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	253	HC DEPT OFFICES & LABS	112	89722	501 Buildings	Building	N		DOE Owned (C	30932				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	253	HC DEPT OFFICES & LABS	112	89722	501 Buildings	Building	N		DOE Owned (C	30932				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	255	HC SPD LABS-OFFICES	112	89725	501 Buildings	Building	N		DOE Owned (C	21855				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	255	HC SPD LABS-OFFICES	112	89725	501 Buildings	Building	N		DOE Owned (C	21855				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	256	TELCOM NODE #1	112	89727	501 Buildings	Building	N		DOE Owned (C	5937				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	256	TELCOM NODE #1	112	89727	501 Buildings	Building	N		DOE Owned (C	5937				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	261	VACANT	112	89731	501 Buildings	Building	N	2028	DOE Owned (C	52655				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	261	VACANT	112	89731	501 Buildings	Building	N	2028	DOE Owned (C	52655				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	261	VACANT	112	89731	501 Buildings	Building	N	2028	DOE Owned (C	52655				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	262	G.S	112	140543	501 Buildings	Building	N		DOE Owned (C	10882				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	262	G.S	112	140543	501 Buildings	Building	N		DOE Owned (C	10882				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	262	G.S	112	140543	501 Buildings	Building	N		DOE Owned (C	10882				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	264	ESH OFFICES	112	202401	501 Buildings	Building	N		DOE Owned (C	20461			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	271	PROTECTIVE FORCE	112	89744	501 Buildings	Building	N		DOE Owned (C	18874				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Metered-Advance	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	271	PROTECTIVE FORCE	112	89744	501 Buildings	Building	N		DOE Owned (C	18874				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	271	PROTECTIVE FORCE	112	89744	501 Buildings	Building	N		DOE Owned (C	18874				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	272	PLS	112	89746	501 Buildings	Building	N		DOE Owned (C	10124				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	272	PLS	112	89746	501 Buildings	Building	N		DOE Owned (C	10124				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2727	LOCKS AND KEYS	112	89650	501 Buildings	Trailer	N		DOE Owned (C	5090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2727	LOCKS AND KEYS	112	89650	501 Buildings	Trailer	N		DOE Owned (C	5090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2727	LOCKS AND KEYS	112	89650	501 Buildings	Trailer	N		DOE Owned (C	5090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	274	SECURITY ADMINISTRATION	112	89747	501 Buildings	Building	N		DOE Owned (C	21436				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	274	SECURITY ADMINISTRATION	112	89747	501 Buildings	Building	N		DOE Owned (C	21436				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2775	SECURITY	112	89748	501 Buildings	Trailer	N		DOE Owned (C	9875				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2775	SECURITY	112	89748	501 Buildings	Trailer	N		DOE Owned (C	9875				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2775	SECURITY	112	89748	501 Buildings	Trailer	N		DOE Owned (C	9875				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2825	VACANT	112	89759	501 Buildings	Trailer	N	9999	DOE Owned (C	5959				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2825	VACANT	112	89759	501 Buildings	Trailer	N	9999	DOE Owned (C	5959				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	2825	VACANT	112	89759	501 Buildings	Trailer	N	9999	DOE Owned (C	5959				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	298	TARGET FABRICATION	112	89767	501 Buildings	Building	N		DOE Owned (C	47986				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	298	TARGET FABRICATION	112	89767	501 Buildings	Building	N		DOE Owned (C	47986				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	311	DOE OFFICES	112	89768	501 Buildings	Building	N		DOE Owned (C	40951				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	312	IMF MANAGED FACILITY	112	89769	501 Buildings	Building	N	9999	DOE Owned (C	11482				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	312	IMF MANAGED FACILITY	112	89769	501 Buildings	Building	N	9999	DOE Owned (C	11482				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	314	VACANT	112	89771	501 Buildings	Building	N		DOE Owned (C	13238				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	314	VACANT	112	89771	501 Buildings	Building	N		DOE Owned (C	13238				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	315	VACANT	112	89772	501 Buildings	Building	N		DOE Owned (C	18133				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	315	VACANT	112	89772	501 Buildings	Building	N		DOE Owned (C	18133				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	316	DIRECTORS OFFICE	112	89774	501 Buildings	Building	N		DOE Owned (C	14090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	316	DIRECTORS OFFICE	112	89774	501 Buildings	Building	N		DOE Owned (C	14090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	318	LOCKER ROOM	112	89777	501 Buildings	Building	N		DOE Owned (C	6112				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	318	LOCKER ROOM	112	89777	501 Buildings	Building	N		DOE Owned (C	6112				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	318	LOCKER ROOM	112	89777	501 Buildings	Building	N		DOE Owned (C	6112				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	319	OFFICE FACILITY	112	89782	501 Buildings	Building	N		DOE Owned (C	18048				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	319	OFFICE FACILITY	112	89782	501 Buildings	Building	N		DOE Owned (C	18048				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321A	MATERIALS FAB SHOP	112	89786	501 Buildings	Building	N		DOE Owned (C	59515				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321A	MATERIALS FAB SHOP	112	89786	501 Buildings	Building	N		DOE Owned (C	59515				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321A	MATERIALS FAB SHOP	112	89786	501 Buildings	Building	N		DOE Owned (C	59515				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321B	MATERIALS FAB SHOP	112	205437	501 Buildings	Building	N		DOE Owned (C	7511				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321B	MATERIALS FAB SHOP	112	205437	501 Buildings	Building	N		DOE Owned (C	7511				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321B	MATERIALS FAB SHOP	112	205437	501 Buildings	Building	N		DOE Owned (C	7511				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321C	MATERIALS FAB SHOP	112	205438	501 Buildings	Building	N		DOE Owned (C	78335				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321C	MATERIALS FAB SHOP	112	205438	501 Buildings	Building	N		DOE Owned (C	78335				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	321C	MATERIALS FAB SHOP	112	205438	501 Buildings	Building	N		DOE Owned (C	78335				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	322	PLATING SHOP	112	89788	501 Buildings	Building	N		DOE Owned (C	5704				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	322	PLATING SHOP	112	89788	501 Buildings	Building	N		DOE Owned (C	5704				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	322	PLATING SHOP	112	89788	501 Buildings	Building	N		DOE Owned (C	5704				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	323	EMERGENCY SERVICES / FIRE	112	89792	501 Buildings	Building	N		DOE Owned (C	18762				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		
NNSA	LLNL	323	EMERGENCY SERVICES / FIRE	112	89792	501 Buildings	Building	N		DOE Owned (C	18762				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	324	EMERGENCY SERVICES / ALAF	112	89793	501 Buildings	Building	N		DOE Owned (C	10181				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	324	EMERGENCY SERVICES / ALAF	112	89793	501 Buildings	Building	N		DOE Owned (C	10181				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	327	RADIOGRAPHY	112	89795	501 Buildings	Building	N		DOE Owned (C	19100				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	327	RADIOGRAPHY	112	89795	501 Buildings	Building	N		DOE Owned (C	19100				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	329	LASER WELD SHOP	112	89800	501 Buildings	Building	N		DOE Owned (C	5150				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	329	LASER WELD SHOP	112	89800	501 Buildings	Building	N		DOE Owned (C	5150				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	331	TRITIUM FACILITY	112	89801	501 Buildings	Building	N		DOE Owned (C	30484				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	332	PU FACILITY	112	89802	501 Buildings	Building	N		DOE Owned (C	104787				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	332	PU FACILITY	112	89802	501 Buildings	Building	N		DOE Owned (C	104787				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	334	HETB	112	89803	501 Buildings	Building	N		DOE Owned (C	10668				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	334	HETB	112	89803	501 Buildings	Building	N		DOE Owned (C	10668				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Metered-Advance	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	335	SUPPORT FACILITY	112	89804	501 Buildings	Building	N		DOE Owned (C	11988				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	335	SUPPORT FACILITY	112	89804	501 Buildings	Building	N		DOE Owned (C	11988				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	335	SUPPORT FACILITY	112	89804	501 Buildings	Building	N		DOE Owned (C	11988				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3427	IMF MANAGED OFFICE FACILIT	112	89810	501 Buildings	Trailer	N		DOE Owned (C	6365				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3427	IMF MANAGED OFFICE FACILIT	112	89810	501 Buildings	Trailer	N		DOE Owned (C	6365				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3427	IMF MANAGED OFFICE FACILIT	112	89810	501 Buildings	Trailer	N		DOE Owned (C	6365				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3527	DOE OFFICES	112	89817	501 Buildings	Trailer	N		DOE Owned (C	9782				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3527	DOE OFFICES	112	89817	501 Buildings	Trailer	N		DOE Owned (C	9782				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3527	DOE OFFICES	112	89817	501 Buildings	Trailer	N		DOE Owned (C	9782				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	361	BIOSCIENCES RESEARCH	112	89821	501 Buildings	Building	N		DOE Owned (C	68889				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	361	BIOSCIENCES RESEARCH	112	89821	501 Buildings	Building	N		DOE Owned (C	68889				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	364	BIOSCIENCES RESEARCH	112	89825	501 Buildings	Building	N		DOE Owned (C	10932				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		

Agency-Wide Metering Plan Development - Building Level Metering

Requirement(s): EPAct 2005, EISA 2007

Data Source: 2014 FIMS Snapshot, Tab 11 Covered Facilities

Instructions: This tab is populated with facilities that are appropriate for metering based on the updated Federal Building Metering Guidance. Appropriate facilities include the following criteria: Facilities that will not be disposed within 5 years, facilities that do not have C, D, or F Exclusion Part (C - Fully serviced lease, D - Essentially only lighting, F - Lease some energy provided), facilities that are greater than 5,000 square feet, facilities that are building or trailer property types and facilities that have the ownership type of DOE Owned or DOE Leased. Sites will indicate their prioritization for these appropriate facilities by selecting the metering prioritization from the pick list in Column AE "Metering Prioritization for Agency-wide Metering Plan" based on the highlighted utility type in columns Y to AD. Electricity, Natural Gas, Steam, and Potable Water are required to be prioritized while Chilled Water and Non-Potable Fresh Water are optional. Data for metering implementation cost and notes can be added in Columns AF and AG. Note, if a facility has multiple not metered but appropriate utilities, there will be multiple rows in this tab for that facility.

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Facility Characteristics																		Additional Utility Meters			Respond to Utility Highlighted in Orange						Requested Data for Agency-Wide Metering Plan		
Program	Site Name	Property ID	Property Name	Site #	Real Property Unique ID	Asset Type	Property Type	Out-grant	Est Dispo-sition Yr	Ownership	Gross /Rentable Sqft	Exclusion Part	Justification Comment	Sust-Guiding Principle %	Location City	Location State	EISA S 432 Covered Facility- For Site Prioritization	Meter-Coal	Meter-Fuel Oil	Meter-Gas-Other	Meter-Electricity	Meter-Gas-Natural	Meter-Steam/Hot Water	Meter-Water-Potable	Meter-Water-Chilled	Meter-Water-Non-Potable-Fresh	Metering Prioritization for Agency-wide Metering Plan	Estimated Cost for Meter Installation	Notes
NNSA	LLNL	364	BIOSCIENCES RESEARCH	112	89825	501 Buildings	Building	N		DOE Owned (C	10932				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	364	BIOSCIENCES RESEARCH	112	89825	501 Buildings	Building	N		DOE Owned (C	10932				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	365	G.S/BIO LAB	112	89827	501 Buildings	Building	N		DOE Owned (C	8825				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	365	G.S/BIO LAB	112	89827	501 Buildings	Building	N		DOE Owned (C	8825				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	365	G.S/BIO LAB	112	89827	501 Buildings	Building	N		DOE Owned (C	8825				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3724	NIF DIRECTORATE OFFICES	112	89834	501 Buildings	Trailer	N		DOE Owned (C	19810			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3724	NIF DIRECTORATE OFFICES	112	89834	501 Buildings	Trailer	N		DOE Owned (C	19810			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3725	NIF DIRECTORATE OFFICES	112	89835	501 Buildings	Trailer	N		DOE Owned (C	19867			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3725	NIF DIRECTORATE OFFICES	112	89835	501 Buildings	Trailer	N		DOE Owned (C	19867			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3726	DIRECTORS OFFICE	112	89836	501 Buildings	Trailer	N	9999	DOE Owned (C	19824			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	3726	DIRECTORS OFFICE	112	89836	501 Buildings	Trailer	N	9999	DOE Owned (C	19824			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	381	NIF DIRECTORATE OFFICES / F	112	89847	501 Buildings	Building	N		DOE Owned (C	95477				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	383	MACHINE SHOP	112	89849	501 Buildings	Building	N		DOE Owned (C	6715				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	383	MACHINE SHOP	112	89849	501 Buildings	Building	N		DOE Owned (C	6715				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		
NNSA	LLNL	391	DEVELOPMENT LABS	112	89855	501 Buildings	Building	N		DOE Owned (C	197841				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	391	DEVELOPMENT LABS	112	89855	501 Buildings	Building	N		DOE Owned (C	197841				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	392	OPTICS LABORATORY	112	89856	501 Buildings	Building	N		DOE Owned (C	8413				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	392	OPTICS LABORATORY	112	89856	501 Buildings	Building	N		DOE Owned (C	8413				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	404	MUSD / BATTERY SHOP / WARE	112	89861	501 Buildings	Building	N		DOE Owned (C	6460				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	404	MUSD / BATTERY SHOP / WARE	112	89861	501 Buildings	Building	N		DOE Owned (C	6460				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	405	VACANT	112	89862	501 Buildings	Building	N	2029	DOE Owned (C	8636				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	405	VACANT	112	89862	501 Buildings	Building	N	2029	DOE Owned (C	8636				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	405	VACANT	112	89862	501 Buildings	Building	N	2029	DOE Owned (C	8636				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	411	SHIPPING/RECEIVING	112	89868	501 Buildings	Building	N		DOE Owned (C	71625				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	411	SHIPPING/RECEIVING	112	89868	501 Buildings	Building	N		DOE Owned (C	71625				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	415	EMPLOYEE RESOURCES	112	89874	501 Buildings	Building	N		DOE Owned (C	19297				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	415	EMPLOYEE RESOURCES	112	89874	501 Buildings	Building	N		DOE Owned (C	19297				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	418	MUSD PAINT SHOP	112	89878	501 Buildings	Building	N		DOE Owned (C	12167				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	418	MUSD PAINT SHOP	112	89878	501 Buildings	Building	N		DOE Owned (C	12167				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	418	MUSD PAINT SHOP	112	89878	501 Buildings	Building	N		DOE Owned (C	12167				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	423	BEAM RESEARCH MACHINE SH	112	89888	501 Buildings	Building	N		DOE Owned (C	7791				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	423	BEAM RESEARCH MACHINE SH	112	89888	501 Buildings	Building	N		DOE Owned (C	7791				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	423	BEAM RESEARCH MACHINE SH	112	89888	501 Buildings	Building	N		DOE Owned (C	7791				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	431	BEAM RESEARCH CENTER	112	89891	501 Buildings	Building	N	9999	DOE Owned (C	54545				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	431	BEAM RESEARCH CENTER	112	89891	501 Buildings	Building	N	9999	DOE Owned (C	54545				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	431	BEAM RESEARCH CENTER	112	89891	501 Buildings	Building	N	9999	DOE Owned (C	54545				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	432	ENG FABRICATION	112	89893	501 Buildings	Building	N		DOE Owned (C	33575				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	432	ENG FABRICATION	112	89893	501 Buildings	Building	N		DOE Owned (C	33575				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	433	LABOR ONLY METAL SHOP	112	89896	501 Buildings	Building	N		DOE Owned (C	5793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	433	LABOR ONLY METAL SHOP	112	89896	501 Buildings	Building	N		DOE Owned (C	5793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	433	LABOR ONLY METAL SHOP	112	89896	501 Buildings	Building	N		DOE Owned (C	5793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	435	VACANT	112	89897	501 Buildings	Building	N	2025	DOE Owned (C	57724				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	435	VACANT	112	89897	501 Buildings	Building	N	2025	DOE Owned (C	57724				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	435	VACANT	112	89897	501 Buildings	Building	N	2025	DOE Owned (C	57724				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	436	PLS SHIPPING/RECEIVING/STC	112	89898	501 Buildings	Building	N		DOE Owned (C	9745				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	436	PLS SHIPPING/RECEIVING/STC	112	89898	501 Buildings	Building	N		DOE Owned (C	9745				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	438	ERD OFC-FIELD OPERATIONS	112	89901	501 Buildings	Building	N		DOE Owned (C	16262				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	438	ERD OFC-FIELD OPERATIONS	112	89901	501 Buildings	Building	N		DOE Owned (C	16262				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	439	LIVERMORE COMPUTING FACII	112	89908	501 Buildings	Building	N		DOE Owned (C	12055				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	439	LIVERMORE COMPUTING FACII	112	89908	501 Buildings	Building	N		DOE Owned (C	12055				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	443	VACANT	112	89914	501 Buildings	Building	N	2026	DOE Owned (C	8953				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	443	VACANT	112	89914	501 Buildings	Building	N	2026	DOE Owned (C	8953				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	443	VACANT	112	89914	501 Buildings	Building	N	2026	DOE Owned (C	8953				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	445	VACANT	112	89918	501 Buildings	Building	N	2026	DOE Owned (C	5100				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	445	VACANT	112	89918	501 Buildings	Building	N	2026	DOE Owned (C	5100				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4525	COMPUTATION FACILITY BLDG	112	89923	501 Buildings	Trailer	N		DOE Owned (C	5736				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4525	COMPUTATION FACILITY BLDG	112	89923	501 Buildings	Trailer	N		DOE Owned (C	5736				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	453	LIVERMORE COMPUTING FACII	112	200806	501 Buildings	Building	N		DOE Owned (C	240598	G - Metered TSF facilities in		100	Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4675	EMPLOYEE RESOURCES	112	89925	501 Buildings	Trailer	N		DOE Owned (C	11142			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4675	EMPLOYEE RESOURCES	112	89925	501 Buildings	Trailer	N		DOE Owned (C	11142			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4725	VACANT	112	89926	501 Buildings	Trailer	N		DOE Owned (C	9389				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4725	VACANT	112	89926	501 Buildings	Trailer	N		DOE Owned (C	9389				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4725	VACANT	112	89926	501 Buildings	Trailer	N		DOE Owned (C	9389				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4726	S&T / COMP	112	89927	501 Buildings	Trailer	N		DOE Owned (C	9384				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4726	S&T / COMP	112	89927	501 Buildings	Trailer	N		DOE Owned (C	9384				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4726	S&T / COMP	112	89927	501 Buildings	Trailer	N		DOE Owned (C	9384				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4727	O&B TID LIBRARY	112	89928	501 Buildings	Trailer	N		DOE Owned (C	9891			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4727	O&B TID LIBRARY	112	89928	501 Buildings	Trailer	N		DOE Owned (C	9891			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4728	COMPUTATIONS	112	89929	501 Buildings	Trailer	N		DOE Owned (C	6762				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4728	COMPUTATIONS	112	89929	501 Buildings	Trailer	N		DOE Owned (C	6762				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4728	COMPUTATIONS	112	89929	501 Buildings	Trailer	N		DOE Owned (C	6762				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4729	O&B TID LIBRARY	112	89930	501 Buildings	Trailer	N		DOE Owned (C	10018			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	4729	O&B TID LIBRARY	112	89930	501 Buildings	Trailer	N		DOE Owned (C	10018			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	481	NIF DIRECTORATE OFFICES	112	89932	501 Buildings	Building	N		DOE Owned (C	61303				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	481	NIF DIRECTORATE OFFICES	112	89932	501 Buildings	Building	N		DOE Owned (C	61303				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	482	NIF DIRECTORATE OFFICES	112	89933	501 Buildings	Building	N		DOE Owned (C	108000				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	482	NIF DIRECTORATE OFFICES	112	89933	501 Buildings	Building	N		DOE Owned (C	108000				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	490	BLDG 490 CHILLERS	112	89934	501 Buildings	Building	N		DOE Owned (C	216789				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	491	DEVELOPMENT LABS	112	89937	501 Buildings	Building	N		DOE Owned (C	13259				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	491	DEVELOPMENT LABS	112	89937	501 Buildings	Building	N		DOE Owned (C	13259				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	492	VACANT	112	89938	501 Buildings	Building	N		DOE Owned (C	9550				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Advance	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	492	VACANT	112	89938	501 Buildings	Building	N		DOE Owned (C	9550				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	493	SUPPORT FACILITY/STORAGE	112	89942	501 Buildings	Building	N		DOE Owned (C	19100				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standar	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	494	STORAGE	112	89943	501 Buildings	Building	N		DOE Owned (C	29961				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	494	STORAGE	112	89943	501 Buildings	Building	N		DOE Owned (C	29961				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	511	MUSD / CRAFTS SHOP	112	89951	501 Buildings	Building	N		DOE Owned (C	77078				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	511	MUSD / CRAFTS SHOP	112	89951	501 Buildings	Building	N		DOE Owned (C	77078				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	511	MUSD / CRAFTS SHOP	112	89951	501 Buildings	Building	N		DOE Owned (C	77078				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		

Agency-Wide Metering Plan Development - Building Level Metering

Requirement(s): EPAct 2005, EISA 2007

Data Source: 2014 FIMS Snapshot, Tab 11 Covered Facilities

Instructions: This tab is populated with facilities that are appropriate for metering based on the updated Federal Building Metering Guidance. Appropriate facilities include the following criteria: Facilities that will not be disposed within 5 years, facilities that do not have C, D, or F Exclusion Part (C - Fully serviced lease, D - Essentially only lighting, F - Lease some energy provided), facilities that are greater than 5,000 square feet, facilities that are building or trailer property types and facilities that have the ownership type of DOE Owned or DOE Leased. Sites will indicate their prioritization for these appropriate facilities by selecting the metering prioritization from the pick list in Column AE "Metering Prioritization for Agency-wide Metering Plan" based on the highlighted utility type in columns Y to AD. Electricity, Natural Gas, Steam, and Potable Water are required to be prioritized while Chilled Water and Non-Potable Fresh Water are optional. Data for metering implementation cost and notes can be added in Columns AF and AG. Note, if a facility has multiple not metered but appropriate utilities, there will be multiple rows in this tab for that facility.

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Facility Characteristics																		Additional Utility Meters			Respond to Utility Highlighted in Orange						Requested Data for Agency-Wide Metering Plan		
Program	Site Name	Property ID	Property Name	Site #	Real Property Unique ID	Asset Type	Property Type	Out-grant	Est Dispo-sition Yr	Ownership	Gross /Rentable Sqft	Exclusion Part	Justification Comment	Sust-Guiding Principle %	Location City	Location State	EISA S 432 Covered Facility- For Site Prioritization	Meter-Coal	Meter-Fuel Oil	Meter-Gas-Other	Meter-Electricity	Meter-Gas-Natural	Meter-Steam/Hot Water	Meter-Water-Potable	Meter-Water-Chilled	Meter-Water-Non-Potable-Fresh	Metering Prioritization for Agency-wide Metering Plan	Estimated Cost for Meter Installation	Notes
NNSA	LLNL	512	MUSD / CRAFTS SUPPLIES	112	89952	501 Buildings	Building	N		DOE Owned (C	8128				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	512	MUSD / CRAFTS SUPPLIES	112	89952	501 Buildings	Building	N		DOE Owned (C	8128				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	512	MUSD / CRAFTS SUPPLIES	112	89952	501 Buildings	Building	N		DOE Owned (C	8128				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	515	MUSD / CRAFTS STORAGE	112	89958	501 Buildings	Building	N		DOE Owned (C	8588				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	515	MUSD / CRAFTS STORAGE	112	89958	501 Buildings	Building	N		DOE Owned (C	8588				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	515	MUSD / CRAFTS STORAGE	112	89958	501 Buildings	Building	N		DOE Owned (C	8588				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	516	PE/CRAFTS FACILITY/ME	112	89959	501 Buildings	Building	N		DOE Owned (C	6496				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	516	PE/CRAFTS FACILITY/ME	112	89959	501 Buildings	Building	N		DOE Owned (C	6496				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	516	PE/CRAFTS FACILITY/ME	112	89959	501 Buildings	Building	N		DOE Owned (C	6496				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	517	ELECT UTILITY OFFICES	112	89960	501 Buildings	Building	N		DOE Owned (C	6090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	517	ELECT UTILITY OFFICES	112	89960	501 Buildings	Building	N		DOE Owned (C	6090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	517	ELECT UTILITY OFFICES	112	89960	501 Buildings	Building	N		DOE Owned (C	6090				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Standard	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	519	MUSD / HEAVY EQUIPMENT RE	112	89965	501 Buildings	Building	N		DOE Owned (C	9788				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	519	MUSD / HEAVY EQUIPMENT RE	112	89965	501 Buildings	Building	N		DOE Owned (C	9788				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	519	MUSD / HEAVY EQUIPMENT RE	112	89965	501 Buildings	Building	N		DOE Owned (C	9788				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	531	ICS OFFICE	112	89973	501 Buildings	Building	N		DOE Owned (C	12381				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	531	ICS OFFICE	112	89973	501 Buildings	Building	N		DOE Owned (C	12381				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Standard	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	543	O&B / PFS / SHMR OFFICES	112	89978	501 Buildings	Building	N		DOE Owned (C	78261				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Standard	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5475	ICS DEPT OFFICE	112	89979	501 Buildings	Trailer	N		DOE Owned (C	32368				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5475	ICS DEPT OFFICE	112	89979	501 Buildings	Trailer	N		DOE Owned (C	32368				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5477	IMF MANAGED OFFICE FACILIT	112	89980	501 Buildings	Trailer	N		DOE Owned (C	6693				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5477	IMF MANAGED OFFICE FACILIT	112	89980	501 Buildings	Trailer	N		DOE Owned (C	6693				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5477	IMF MANAGED OFFICE FACILIT	112	89980	501 Buildings	Trailer	N		DOE Owned (C	6693				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	551E	O&B / F&I OFFICES	112	130291	501 Buildings	Building	N		DOE Owned (C	40966				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5627	LEGAL SERVICES	112	89984	501 Buildings	Trailer	N		DOE Owned (C	8470			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	5627	LEGAL SERVICES	112	89984	501 Buildings	Trailer	N		DOE Owned (C	8470			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	571	NIF DIRECTORATE OFFICES	112	89985	501 Buildings	Building	N		DOE Owned (C	41407				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	571	NIF DIRECTORATE OFFICES	112	89985	501 Buildings	Building	N		DOE Owned (C	41407				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	581	THE NATIONAL IGNITION FACIL	112	140320	501 Buildings	Building	N		DOE Owned (C	696968	G - Metered	Electric power		Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	581	THE NATIONAL IGNITION FACIL	112	140320	501 Buildings	Building	N		DOE Owned (C	696968	G - Metered	Electric power		Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	583	NIF DIRECTORATE OFFICES	112	203637	501 Buildings	Building	N		DOE Owned (C	21793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Short-term Priority: Will be metered within 1 years	$6,000.00	
NNSA	LLNL	583	NIF DIRECTORATE OFFICES	112	203637	501 Buildings	Building	N		DOE Owned (C	21793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	583	NIF DIRECTORATE OFFICES	112	203637	501 Buildings	Building	N		DOE Owned (C	21793				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	611	AUTO FLEET MAINTENANCE	112	90016	501 Buildings	Building	N		DOE Owned (C	15018				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	611	AUTO FLEET MAINTENANCE	112	90016	501 Buildings	Building	N		DOE Owned (C	15018				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	612	EPD/RHWM WASTE TSDF	112	90017	501 Buildings	Building	N		DOE Owned (C	7015				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	612	EPD/RHWM WASTE TSDF	112	90017	501 Buildings	Building	N		DOE Owned (C	7015				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	612	EPD/RHWM WASTE TSDF	112	90017	501 Buildings	Building	N		DOE Owned (C	7015				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	671	NIF DIRECTORATE OFFICES	112	90041	501 Buildings	Building	N		DOE Owned (C	41476				Livermore	CA	Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	671	NIF DIRECTORATE OFFICES	112	90041	501 Buildings	Building	N		DOE Owned (C	41476				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	681	OPTICS ASSEMBLY BLDG	112	137350	501 Buildings	Building	N		DOE Owned (C	46819	G - Metered	Electric power		Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	681	OPTICS ASSEMBLY BLDG	112	137350	501 Buildings	Building	N		DOE Owned (C	46819	G - Metered	Electric power		Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	691	HIGH PRESSURE LAB	112	90042	501 Buildings	Building	N		DOE Owned (C	18437				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Metered-Standard	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	691	HIGH PRESSURE LAB	112	90042	501 Buildings	Building	N		DOE Owned (C	18437				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Metered-Advance	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	6925	IMF MANAGED OFFICE FACILIT	112	90043	501 Buildings	Trailer	N		DOE Owned (C	5873			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	6925	IMF MANAGED OFFICE FACILIT	112	90043	501 Buildings	Trailer	N		DOE Owned (C	5873			100	Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	693	EPD/RHWM WASTE STORAGE	112	90044	501 Buildings	Building	N		DOE Owned (C	12000				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	Facility is metered, FIMS will be updated		
NNSA	LLNL	693	EPD/RHWM WASTE STORAGE	112	90044	501 Buildings	Building	N		DOE Owned (C	12000				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	693	EPD/RHWM WASTE STORAGE	112	90044	501 Buildings	Building	N		DOE Owned (C	12000				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	6930	NIF OFFICE TRAILER	112	201480	501 Buildings	Trailer	N		DOE Owned (C	5937				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	6930	NIF OFFICE TRAILER	112	201480	501 Buildings	Trailer	N		DOE Owned (C	5937				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	6930	NIF OFFICE TRAILER	112	201480	501 Buildings	Trailer	N		DOE Owned (C	5937				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	694	EPD/RHWM OFFICE	112	132382	501 Buildings	Building	N		DOE Owned (C	10590				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	694	EPD/RHWM OFFICE	112	132382	501 Buildings	Building	N		DOE Owned (C	10590				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	695	EPD/RHWM LIQUID WST PROC	112	140676	501 Buildings	Building	N		DOE Owned (C	46504				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	696	EPD/RHWM WST PRCSSING-SC	112	135831	501 Buildings	Building	N		DOE Owned (C	21381				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	696	EPD/RHWM WST PRCSSING-SC	112	135831	501 Buildings	Building	N		DOE Owned (C	21381				Livermore	CA	Not Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	801A	FIRING FACILITY(FXR)	112	90522	501 Buildings	Building	N		DOE Owned (C	44262				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	801A	FIRING FACILITY(FXR)	112	90522	501 Buildings	Building	N		DOE Owned (C	44262				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	801A	FIRING FACILITY(FXR)	112	90522	501 Buildings	Building	N		DOE Owned (C	44262				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	805	INERT MACHNG/EXPLVS WST F	112	90526	501 Buildings	Building	N		DOE Owned (C	6830				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	805	INERT MACHNG/EXPLVS WST F	112	90526	501 Buildings	Building	N		DOE Owned (C	6830				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	805	INERT MACHNG/EXPLVS WST F	112	90526	501 Buildings	Building	N		DOE Owned (C	6830				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	851A	FIRING FACILITY	112	90572	501 Buildings	Building	N		DOE Owned (C	13176				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	851A	FIRING FACILITY	112	90572	501 Buildings	Building	N		DOE Owned (C	13176				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	851A	FIRING FACILITY	112	90572	501 Buildings	Building	N		DOE Owned (C	13176				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	871	ADMINISTRATION	112	90587	501 Buildings	Building	N		DOE Owned (C	7928				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	871	ADMINISTRATION	112	90587	501 Buildings	Building	N		DOE Owned (C	7928				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	871	ADMINISTRATION	112	90587	501 Buildings	Building	N		DOE Owned (C	7928				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	873	MUSD/C&M SHOPS	112	90589	501 Buildings	Building	N		DOE Owned (C	17452				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	873	MUSD/C&M SHOPS	112	90589	501 Buildings	Building	N		DOE Owned (C	17452				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	873	MUSD/C&M SHOPS	112	90589	501 Buildings	Building	N		DOE Owned (C	17452				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	874	MECHANICAL SHOPS	112	90590	501 Buildings	Building	N		DOE Owned (C	19972				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	874	MECHANICAL SHOPS	112	90590	501 Buildings	Building	N		DOE Owned (C	19972				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	874	MECHANICAL SHOPS	112	90590	501 Buildings	Building	N		DOE Owned (C	19972				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	875	MUSD/SUPPLY & MAINTENANC	112	90591	501 Buildings	Building	N		DOE Owned (C	15171				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	875	MUSD/SUPPLY & MAINTENANC	112	90591	501 Buildings	Building	N		DOE Owned (C	15171				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	875	MUSD/SUPPLY & MAINTENANC	112	90591	501 Buildings	Building	N		DOE Owned (C	15171				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	890	SITE 300 FIRE STATION	112	137313	501 Buildings	Building	N		DOE Owned (C	6863				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	Post Metering Plan Priority: No plans to be metered within 5 years		
NNSA	LLNL	890	SITE 300 FIRE STATION	112	137313	501 Buildings	Building	N		DOE Owned (C	6863				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	890	SITE 300 FIRE STATION	112	137313	501 Buildings	Building	N		DOE Owned (C	6863				Tracy	CA	Not Covered	Not Used	Not Used	Not Used	Not Metered	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	LLNL	U291	LCW STATION	112	90074	501 Buildings	Building	N		DOE Owned (C	8630				Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		
NNSA	Lawrenc	U325	LCW CONTROL SUPPORT	112	90078	501 Buildings	Building	N		DOE Owned (C	5072	G - Metered	The building is		Livermore	CA	Covered	Not Used	Not Used	Not Used	Metered-Advance	Not Metered	Not Used	Not Metered	Not Used	Not Used	TBD, Prioritization to be determined		

Sustainable Acquisition - Contract Review

Requirement(s): E.O. 13693, EPAct 2005, EISA 2007

Instructions: Please enter FY 2015 data related to review of contracts for sustainable acquisition clauses. If available, please enter the methodology used to determine the entered data. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column. For additional guidance see comments in row 12 of each column and the CEDR Technical Support Document.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

Contract Review

PSO	Site #	Site	FY	Acquisition Category	Number of New Contract Actions	Number Reviewed	Number without Opportunity for any Sustainable Acquisition	Number Meeting All Sustainable Acquisition Requirements	Percentage of Relevant Contracts Meeting All Requirements	Additional Information	SPO Comments
NNSA	112	LLNL	2012	Construction	143	143	0	143	100.0%	Generated a LINCS report that identified all of the subcontract actions that occurred in FY12. New awards were segregated from the Modifications that were issued to existing subcontracts. The new award actions were reviewed to identify new subcontracts issued for construction and custodial activities. The General Provisions for these subcontracts were reviewed to see if they contain the sustainable acquisition clause. If so, the action was identified as a new contract action meeting sustainable acquisition requirements. Modified contracts were also reviewed and all meet sustainable acquisition requirements.	Note: From PPTRS.
NNSA	112	LLNL	2012	Custodial	0	0	0	0	--	Generated a LINCS report that identified all of the subcontract actions that occurred in FY12. New awards were segregated from the Modifications that were issued to existing subcontracts. The new award actions were reviewed to identify new subcontracts issued for construction and custodial activities. The General Provisions for these subcontracts were reviewed to see if they contain the sustainable acquisition clause. If so, the action was identified as a new contract action meeting sustainable acquisition requirements. Modified contracts were also reviewed to ensure they contain the sustainable acquisition clause. No new custodial awards or modifications were issued in FY12.	Note: From PPTRS.
NNSA	112	LLNL	2012	Other (Optional)	0	0	0	0	--		
NNSA	112	LLNL	2013	Construction	34	34	0	34	100.0%	The new award actions were reviewed to identify new subcontracts issued for construction. The General Provisions for these subcontracts were reviewed to see if they contain the sustainable acquisition clause. If so, the action was identified as a new contract action meeting sustainable acquisition requirements.	
NNSA	112	LLNL	2013	Custodial	0	0	0	0	--		
NNSA	112	LLNL	2013	Other (Optional)					--		
NNSA	112	LLNL	2014	Construction	40	40	0	40	100.0%	The new award actions were reviewed to identify new subcontracts issued for construction during FY14. The General Provisions for these subcontracts were reviewed to see if they contain the sustainable acquisition clause. If so, the action was identified as a new contract action meeting sustainable acquisition requirements.	
NNSA	112	LLNL	2014	Custodial	0	0	0	0	-		
NNSA	112	LLNL	2014	Other (Optional)	0	0	0	0	--		
NNSA	112	LLNL	2015	Construction	120	120	0	120	100.0%		
NNSA	112	LLNL	2015	Custodial	4	4	0	4	100.0%		
NNSA	112	LLNL	2015		0	0	0	0	--		

Facilities Utility/Fuel Consumption and Cost

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): NECPA, EPAct 2005, EISA 2007, DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 quarterly consumption and associated cost information for facilities, non-fleet vehicles and equipment, and fully serviced leases (voluntary in FY 2015) by utility/fuel type and address SPO requests. Conventional hydropower should be reported in this tab but separate from regular electricity for correct GHG and EUI accounting; do not report conventional hydropower in the renewable tabs. On-site non-renewable energy should not be reported in this tab. On-site generated and purchased renewable energy should be reported in tabs 3.2a and 3.2b, respectively. FY 2015 square footage should be estimated based on FIMS reports 008, 047, and 063. The SPO will update estimated square footage, if need be, based on the FIMS snapshot in mid-November. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, note the change in the "Additional Information" column and reach out to DOE HQ Program and SPO prior to finalization of data. For additional guidance see comments in row 9 of each column and the CEDR Technical Support Document.

Source: Site/Lab

Utility/Fuel Consumption and Cost												Notes			Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2003	1	56,293.000	192,071.716	$2,028.000	$ 0.04	94550			2	18,569.877	0.000	1,223.216
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2003	1	4.430	611.340	$3.721	$ 0.84	94550			1	45.367	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2003	1	104,246.000	107,164.888	$491.000	$ 0.00	94550			1	5,687.455	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2003	1	21,162.000	72,204.744	$762.000	$ 0.04	94550			2	6,980.899	0.000	459.839
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2003	1	16,187.000	16,640.236	$76.000	$ 0.00	94550			1	883.131	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2003	2	56,912.000	194,183.744	$1,798.000	$ 0.03	94550			2	18,774.072	0.000	1,236.667
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2003	2	6.019	830.622	$7.361	$ 1.22	94550			1	61.640	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2003	2	120,297.000	123,665.316	$780.000	$ 0.01	94550			1	6,563.166	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2003	2	19,852.000	67,735.024	$627.000	$ 0.03	94550			2	6,548.757	0.000	431.373
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2003	2	16,236.000	16,690.608	$105.000	$ 0.01	94550			1	885.804	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2003	3	61,054.000	208,316.248	$2,348.000	$ 0.04	94550			2	20,140.431	0.000	1,326.670
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2003	3	1.958	270.204	$1.851	$ 0.95	94550			1	20.052	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2003	3	94,508.000	97,154.224	$554.000	$ 0.01	94550			1	5,156.169	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2003	3	19,407.000	66,216.684	$746.000	$ 0.04	94550			2	6,401.961	0.000	421.704
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2003	3	16,179.000	16,632.012	$95.000	$ 0.01	94550			1	882.694	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2003	4	64,932.000	221,547.984	$2,660.000	$ 0.04	94550			2	21,419.701	0.000	1,410.937
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2003	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2003	4	62,943.000	64,705.404	$359.000	$ 0.01	94550			1	3,434.045	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2003	4	5,893.000	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2003	4	22,310.000	76,121.720	$914.000	$ 0.04	94550			2	7,359.600	0.000	484.784
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2003	4	16,041.000	16,490.148	$92.000	$ 0.01	94550			1	875.165	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2003	4	1,131.000	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2004	1	80,172.000	273,546.864	$3,026.057	$ 0.04	94550			2	26,447.057	0.000	1,742.094
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2004	1	2.424	334.512	$3.030	$ 1.25	94550			1	24.824	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2004	1	1.340	123.280	$1.901	$ 1.42	94550			1	7.795	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2004	1	127,970.000	131,553.160	$676.321	$ 0.01	94550			1	6,981.789	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2004	1	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2004	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2004	2	80,956.000	276,221.872	$2,947.645	$ 0.04	94550			2	26,705.682	0.000	1,759.130
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2004	2	3.594	495.972	$4.258	$ 1.18	94550			1	36.806	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2004	2	2.070	190.440	$3.121	$ 1.51	94550			1	12.041	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2004	2	145,995.000	150,082.860	$892.188	$ 0.01	94550			1	7,965.198	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2004	2	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2004	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2004	3	86,284.000	294,401.008	$3,031.647	$ 0.04	94550			2	28,463.277	0.000	1,874.905
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2004	3	1.495	206.310	$2.262	$ 1.51	94550			1	15.310	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2004	3	1.490	137.080	$1.916	$ 1.29	94550			1	8.667	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2004	3	106,817.000	109,807.876	$635.695	$ 0.01	94550			1	5,827.724	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2004	3	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2004	3	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2004	4	92,078.000	314,170.136	$3,491.934	$ 0.04	94550			2	30,374.596	0.000	2,000.805
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2004	4	0.142	19.596	$0.220	$ 1.55	94550			1	1.454	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2004	4	0.180	16.560	$0.270	$ 1.50	94550			1	1.047	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2004	4	85,274.000	87,661.672	$552.533	$ 0.01	94550			1	4,652.380	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2004	4	7,235.023	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2004	4	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2004	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2004	4	0.000	0.000		NA	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2005	1	84,641.000	288,795.092	$3,143.510	$ 0.04	94550			2	27,921.286	0.000	1,839.203
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2005	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2005	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2005	1	140,865.000	144,809.220	$1,035.218	$ 0.01	94550			1	7,685.315	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2005	1	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2005	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2005	2	83,237.000	284,004.644	$3,564.238	$ 0.04	94550			2	27,458.136	0.000	1,808.695
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2005	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2005	2	2.260	207.920	$3.865	$ 1.71	94550			1	13.147	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2005	2	143,486.000	147,503.608	$971.960	$ 0.01	94550			1	7,828.311	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2005	2	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2005	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2005	3	88,286.000	301,231.832	$4,869.963	$ 0.06	94550			2	29,123.695	0.000	1,918.407
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2005	3	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2005	3	1.610	148.120	$2.661	$ 1.65	94550			1	9.365	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2005	3	111,807.000	114,937.596	$789.697	$ 0.01	94550			1	6,099.968	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2005	3	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2005	3	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2005	4	99,968.000	341,090.816	$5,641.050	$ 0.06	94550			2	32,977.341	0.000	2,172.250
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2005	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2005	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2005	4	83,156.000	85,484.368	$665.950	$ 0.01	94550			1	4,536.826	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2005	4	7,266.700	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2005	4	0.000	0.000	$0.000	NA	94550			2	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2005	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2005	4	0.000	0.000		NA	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2006	1	81,580.380	278,352.257	$4,553.038	$ 0.06	94550			2	26,911.652	0.000	1,772.697
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2006	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2006	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2006	1	120,273.700	123,641.364	$1,337.570	$ 0.01	94550			1	6,561.894	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2006	1	16,572.390	56,544.995	$922.088	$ 0.06	94550			2	5,466.883	0.000	360.109
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2006	1	1,740.277	1,789.005	$19.354	$ 0.01	94550			1	94.946	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2006	2	76,163.030	259,868.258	$4,250.560	$ 0.06	94550			2	25,124.582	0.000	1,654.981
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2006	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2006	2	3.290	302.680	$5.513	$ 1.68	94550			1	19.138	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2006	2	144,022.100	148,054.719	$1,247.555	$ 0.01	94550			1	7,857.560	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2006	2	19,348.030	66,015.478	$1,076.524	$ 0.06	94550			2	6,382.508	0.000	420.422
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2006	2	2,083.898	2,142.247	$18.051	$ 0.01	94550			1	113.693	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2006	3	80,130.410	273,404.959	$2,279.348	$ 0.03	94550			2	26,433.337	0.000	1,741.190

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2006	3	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2006	3	1.420	130.640	$2.175	$ 1.53	94550			1	8.260	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2006	3	101,908.500	104,761.938	$677.902	$ 0.01	94550			1	5,559.926	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2006	3	19,530.130	66,636.804	$553.820	$ 0.03	94550			2	6,442.579	0.000	424.379
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2006	3	1,474.535	1,515.822	$9.808	$ 0.01	94550			1	80.448	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2006	4	83,118.300	283,599.640	$4,631.270	$ 0.06	94550			2	27,418.979	0.000	1,806.116
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2006	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2006	4	0.400	36.800	$0.627	$ 1.57	94550			1	2.327	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2006	4	87,861.380	90,321.499	$599.458	$ 0.01	94550			1	4,793.543	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2006	4	6,994.439	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2006	4	20,317.300	69,322.628	$1,046.544	$ 0.05	94550			2	6,702.250	0.000	441.484
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2006	4	1,271.000	1,306.588	$8.630	$ 0.01	94550			1	69.343	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2006	4	241.197	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2007	1	69,315.250	236,503.633	$3,592.310	$ 0.05	94550			2	22,865.643	0.000	1,506.183
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2007	1	1.411	129.812	$2.288	$ 1.62	94550			1	8.208	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2007	1	133,086.500	136,812.922	$947.870	$ 0.01	94550			1	7,260.935	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2007	1	27,825.350	94,940.094	$1,465.277	$ 0.05	94550			2	9,178.998	0.000	604.630
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2007	1	3,964.107	4,075.102	$28.233	$ 0.01	94550			1	216.274	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2007	1	51.280	0.000	$167.746	$ 3.27	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2007	2	70,677.450	241,151.459	$4,835.460	$ 0.07	94550			2	23,315.005	0.000	1,535.783
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2007	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2007	2	145,213.200	149,279.170	$1,100.130	$ 0.01	94550			1	7,922.544	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2007	2	25,890.950	88,339.921	$1,363.411	$ 0.05	94550			2	8,540.880	0.000	562.596
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2007	2	2,627.492	2,701.062	$19.906	$ 0.01	94550			1	143.351	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2007	2	22.939	0.000	$130.299	$ 5.68	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2007	3	71,115.480	242,646.018	$4,798.430	$ 0.07	94550			2	23,459.501	0.000	1,545.301
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2007	3	3.366	309.672	$4.987	$ 1.48	94550			1	19.580	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2007	3	106,221.600	109,195.805	$832.740	$ 0.01	94550			1	5,795.240	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2007	3	28,423.280	96,980.231	$1,496.763	$ 0.05	94550			2	9,376.242	0.000	617.622
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2007	3	2,633.252	2,706.983	$20.644	$ 0.01	94550			1	143.665	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2007	3	78.904	0.000	$216.680	$ 2.75	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2007	4	76,978.930	262,652.109	$6,061.950	$ 0.08	94550			2	25,393.730	0.000	1,672.710
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2007	4	0.514	47.288	$0.822	$ 1.60	94550			1	2.990	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2007	4	83,016.800	85,341.270	$546.430	$ 0.01	94550			1	4,529.232	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2007	4	6,060.980	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2007	4	30,232.300	103,152.608	$1,592.026	$ 0.05	94550			2	9,973.000	0.000	656.931
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2007	4	2,718.885	2,795.014	$17.896	$ 0.01	94550			1	148.337	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2007	4	1,043.234	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2007	4	101.385	0.000	$350.188	$ 3.45	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2008	1	66,285.000	226,164.420	$3,868.000	$ 0.06	94550			2	21,866.028	0.000	1,440.337
NNSA	112	LLNL	Buildings	Fuel Oil	1,000 Gallons	2008	1	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2008	1	0.588	54.096	$0.764	$ 1.30	94550			1	3.420	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2008	1	131,909.000	135,602.452	$1,010.000	$ 0.01	94550			1	7,196.693	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2008	1	33,783.000	115,267.596	$1,944.000	$ 0.06	94550			2	11,144.301	0.000	734.086
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2008	1	2,719.000	2,795.132	$21.000	$ 0.01	94550			1	148.343	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2008	1	45.248	0.000	$191.346	$ 4.23	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2008	2	65,442.000	223,288.104	$3,800.000	$ 0.06	94550			2	21,587.940	0.000	1,422.019
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2008	2	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2008	2	147,338.000	151,463.464	$1,254.000	$ 0.01	94550			1	8,038.469	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2008	2	32,405.000	110,565.860	$1,864.000	$ 0.06	94550			2	10,689.728	0.000	704.143
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2008	2	3,342.000	3,435.576	$28.000	$ 0.01	94550			1	182.333	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2008	2	37.169	0.000	$154.323	$ 4.15	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2008	3	64,048.000	218,531.776	$3,742.000	$ 0.06	94550			2	21,128.088	0.000	1,391.728
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2008	3	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2008	3	103,633.000	106,534.724	$1,134.000	$ 0.01	94550			1	5,654.011	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2008	3	33,882.000	115,605.384	$1,949.000	$ 0.06	94550			2	11,176.959	0.000	736.237
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2008	3	3,530.000	3,628.840	$39.000	$ 0.01	94550			1	192.590	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2008	3	75.128	0.000	$317.187	$ 4.22	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2008	4	66,056.000	225,383.072	$3,877.000	$ 0.06	94550			2	21,790.485	0.000	1,435.361
NNSA	112	LLNL	Buildings	LPG	1,000 Gallons	2008	4	0.000	0.000	$0.000	NA	94550			1	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2008	4	76,438.000	78,578.264	$745.000	$ 0.01	94550			1	4,170.306	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2008	4	6,288.900	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2008	4	34,984.000	119,365.408	$2,013.000	$ 0.06	94550			2	11,540.486	0.000	760.183
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2008	4	3,253.000	3,344.084	$32.000	$ 0.01	94550			1	177.477	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2008	4	821.026	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2008	4	88.310	0.000	$431.846	$ 4.89	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2009	1	63,326.000	216,068.312	$4,057.000	$ 0.06	94550			2	20,889.916	0.000	1,376.040
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2009	1	118,011.000	121,315.308	$819.000	$ 0.01	94550			1	6,438.446	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2009	1	36,477.000	124,459.524	$2,337.000	$ 0.06	94550			2	12,032.995	0.000	792.625
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2009	1	3,701.000	3,804.628	$26.000	$ 0.01	94550			1	201.919	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2009	1	43.557	0.000	$213.423	$ 4.90	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2009	2	62,318.000	212,629.016	$3,994.000	$ 0.06	94550			2	20,557.398	0.000	1,354.136
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2009	2	132,495.000	136,204.860	$728.000	$ 0.01	94550			1	7,228.664	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2009	2	33,591.000	114,612.492	$2,153.000	$ 0.06	94550			2	11,080.965	0.000	729.914
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2009	2	2,995.000	3,078.860	$16.000	$ 0.01	94550			1	163.401	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2009	2	32.253	0.000	$152.723	$ 4.74	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2009	3	64,060.000	218,572.720	$3,354.000	$ 0.05	94550			2	21,132.047	0.000	1,391.989
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2009	3	93,866.000	96,494.248	$371.000	$ 0.00	94550			1	5,121.143	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2009	3	34,924.000	119,160.688	$1,828.000	$ 0.05	94550			2	11,520.693	0.000	758.880
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2009	3	2,777.000	2,854.756	$11.000	$ 0.00	94550			1	151.508	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2009	3	62.500	0.000	$305.859	$ 4.89	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2009	4	70,332.000	239,972.784	$4,659.000	$ 0.07	94550			2	23,201.048	0.000	1,528.276
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2009	4	71,166.000	73,158.648	$264.000	$ 0.00	94550			1	3,882.676	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2009	4	6,230.158	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2009	4	34,732.000	118,505.584	$2,301.000	$ 0.07	94550			2	11,457.356	0.000	754.708
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2009	4	2,185.000	2,246.180	$8.000	$ 0.00	94550			1	119.209	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2009	4	826.708	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2009	4	101.138	0.000	$459.445	$ 4.54	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2010	1	65,703.000	224,178.636	$4,449.000	$ 0.07	94550			2	21,674.038	0.000	1,427.691
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2010	1	124,649.000	128,139.172	$667.000	$ 0.01	94550			1	6,800.602	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2010	1	34,741.000	118,536.292	$2,353.000	$ 0.07	94550			2	11,460.325	0.000	754.903
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2010	1	3,531.000	3,629.868	$19.000	$ 0.01	94550			1	192.644	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2010	1	44.854	0.000	$201.551	$ 4.49	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2010	2	62,843.000	214,420.316	$4,344.000	$ 0.07	94550			2	20,730.584	0.000	1,365.544
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2010	2	125,803.000	129,325.484	$797.000	$ 0.01	94550			1	6,863.562	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2010	2	33,688.000	114,943.456	$2,329.000	$ 0.07	94550			2	11,112.963	0.000	732.022

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2010	2	3,198.000	3,287.544	$20.000	$ 0.01	94550			1	174.477	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2010	2	34.750	0.000	$162.362	$ 4.67	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2010	3	63,861.000	217,893.732	$4,700.000	$ 0.07	94550			2	21,066.401	0.000	1,387.665
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2010	3	97,065.000	99,782.820	$475.000	$ 0.00	94550			1	5,295.674	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2010	3	35,051.000	119,594.012	$2,580.000	$ 0.07	94550			2	11,562.588	0.000	761.639
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2010	3	2,716.000	2,792.048	$13.000	$ 0.00	94550			1	148.180	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2010	3	59.302	0.000	$265.918	$ 4.48	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2010	4	67,875.000	231,589.500	$5,326.000	$ 0.08	94550			2	22,390.535	0.000	1,474.887
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2010	4	79,626.000	81,855.528	$279.000	$ 0.00	94550			1	4,344.237	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2010	4	6,265.845	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2010	4	37,060.000	126,448.720	$2,908.000	$ 0.08	94550			2	12,225.315	0.000	805.294
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2010	4	2,317.000	2,381.876	$8.000	$ 0.00	94550			1	126.411	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2010	4	826.798	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2010	4	93.953	0.000	$275.898	$ 2.94	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2011	1	63,461.000	216,528.932	$4,439.000	$ 0.07	94550			2	19,675.789	0.000	1,296.064
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2011	1	114,907.000	118,124.396	$544.000	$ 0.00	94550			1	6,269.098	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2011	1	34,771.748	118,641.204	$2,432.000	$ 0.07	94550			2	10,780.819	0.000	710.143
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2011	1	3,074.000	3,160.072	$15.000	$ 0.00	94550			1	167.711	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2011	1	44.157	0.000	$297.879	$ 6.75	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2011	2	59,710.000	203,730.520	$4,322.000	$ 0.07	94550			2	18,512.809	0.000	1,219.457
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2011	2	132,246.000	135,948.888	$625.000	$ 0.00	94550			1	7,215.079	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2011	2	30,907.000	105,454.684	$2,237.000	$ 0.07	94550			2	9,582.572	0.000	631.214
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2011	2	3,583.000	3,683.324	$17.000	$ 0.00	94550			1	195.481	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2011	2	24.125	0.000	$126.401	$ 5.24	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2011	3	61,232.000	208,923.584	$2,814.000	$ 0.05	94550			2	18,984.698	0.000	1,250.541
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2011	3	100,003.000	102,803.084	$505.000	$ 0.01	94550			1	5,455.965	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2011	3	31,266.000	106,679.592	$2,098.000	$ 0.07	94550			2	9,693.878	0.000	638.545
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2011	3	3,016.000	3,100.448	$15.000	$ 0.00	94550			1	164.547	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2011	3	58.563	0.000	$305.497	$ 5.22	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2011	4	65,814.000	224,557.368	$2,814.000	$ 0.04	94550			2	20,405.326	0.000	1,344.119
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2011	4	72,335.000	74,360.380	$362.000	$ 0.01	94550			1	3,946.454	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2011	4	6,214.581	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2011	4	31,817.000	108,559.604	$1,361.000	$ 0.04	94550			2	9,864.713	0.000	649.799
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2011	4	2,823.000	2,902.044	$14.000	$ 0.00	94550			1	154.017	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2011	4	821.196	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2011	4	83.988	0.000	$508.326	$ 6.05	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2012	1	60,679.000	207,036.748	$3,835.000	$ 0.06	94550			2	18,198.660	0.000	1,198.764
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2012	1	106,233.000	109,207.524	$405.000	$ 0.00	94550			1	5,795.862	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2012	1	30,213.000	103,086.756	$1,910.000	$ 0.06	94550			2	9,061.391	0.000	596.883
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2012	1	10,004.000	10,284.112	$38.000	$ 0.00	94550			1	545.798	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2012	1	46.052	0.000	$265.044	$ 5.76	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2012	2	57,974.000	197,807.288	$3,258.000	$ 0.06	94550			2	17,387.385	0.000	1,145.324
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2012	2	113,578.000	116,758.184	$353.000	$ 0.00	94550			1	6,196.590	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2012	2	36,016.000	122,886.592	$2,024.000	$ 0.06	94550			2	10,801.809	0.000	711.526
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2012	2	11,027.000	11,335.756	$34.000	$ 0.00	94550			1	601.611	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2012	2	39.838	0.000	$233.949	$ 5.87	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2012	3	62,781.000	214,208.772	$3,045.000	$ 0.05	94550			2	18,829.086	0.000	1,240.291
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2012	3	82,554.000	84,865.512	$218.000	$ 0.00	94550			1	4,503.982	0.000	0.000

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2012	3	47,852.000	163,271.024	$2,321.000	$ 0.05	94550			2	14,351.626	0.000	945.356
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2012	3	10,106.000	10,388.968	$27.000	$ 0.00	94550			1	551.363	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2012	3	62.545	0.000	$386.266	$ 6.18	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2012	4	69,107.000	235,793.084	$2,559.000	$ 0.04	94550			2	20,726.361	0.000	1,365.266
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2012	4	68,062.000	69,967.736	$138.000	$ 0.00	94550			1	3,713.328	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2012	4	6,225.119	0.000		$ -	94550		Sq.Ft - CEDR	NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2012	4	43,408.000	148,108.096	$1,607.000	$ 0.04	94550			2	13,018.795	0.000	857.561
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2012	4	9,866.000	10,142.248	$20.000	$ 0.00	94550			1	538.269	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2012	4	826.878	0.000		$ -	94550		Sq.Ft - CEDR	NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2012	4	92.344	0.000	$648.233	$ 7.02	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2013	1	44,163.000	150,684.156	$2,408.000	$ 0.05	94550			2	13,245.232	0.000	872.477
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2013	1	92,890.000	95,490.920	$355.000	$ 0.00	94550			1	5,067.894	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2013	1	63,872.000	217,931.264	$3,482.000	$ 0.05	94550			2	19,156.295	0.000	1,261.844
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2013	1	25,264.000	25,971.392	$97.000	$ 0.00	94550			1	1,378.354	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2013	1	45.274	0.000	$317.200	$ 7.01	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2013	2	45,167.000	154,109.804	$2,464.000	$ 0.05	94550			2	13,546.349	0.000	892.312
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2013	2	107,873.000	110,893.444	$402.000	$ 0.00	94550			1	5,885.337	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2013	2	60,271.000	205,644.652	$3,288.000	$ 0.05	94550			2	18,076.294	0.000	1,190.704
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2013	2	27,809.000	28,587.652	$104.000	$ 0.00	94550			1	1,517.204	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2013	2	35.821	0.000	$222.000	$ 6.20	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2013	3	45,810.000	156,303.720	$2,666.000	$ 0.06	94550			2	13,739.195	0.000	905.015
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2013	3	72,743.000	74,779.804	$316.000	$ 0.00	94550			1	3,968.714	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2013	3	60,922.000	207,865.864	$3,546.000	$ 0.06	94550			2	18,271.540	0.000	1,203.565
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2013	3	21,574.000	22,178.072	$94.000	$ 0.00	94550			1	1,177.035	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2013	3	69.376	0.000	$487.150	$ 7.02	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2013	4	48,082.000	164,055.784	$2,868.000	$ 0.06	94550			2	14,420.607	0.000	949.900
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2013	4	58,963.000	60,613.964	$235.000	$ 0.00	94550			1	3,216.904	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fee	2013	4	5,863.211	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2013	4	61,260.000	209,019.120	$3,655.000	$ 0.06	94550			2	18,372.912	0.000	1,210.242
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2013	4	20,239.000	20,805.692	$81.000	$ 0.00	94550			1	1,104.200	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fee	2013	4	1,179.245	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2013	4	93.136	0.000	$692.287	$ 7.43	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2014	1	35,939.036	122,623.990	$2,712.000	$ 0.08	94550			2	9,998.243	0.000	658.594
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2014	1	90,220.000	92,565.720	$362.000	$ 0.00	94550			1	4,916.610	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2014	1	54,810.000	187,011.720	$3,263.000	$ 0.06	94550			2	15,248.147	0.000	1,004.411
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2014	1	26,502.000	27,191.052	$106.000	$ 0.00	94550			1	1,444.247	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2014	1	47.991	0.000	$441.000	$ 9.19	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2014	2	35,403.445	120,796.553	$2,534.000	$ 0.07	94550			2	9,849.242	0.000	648.779
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2014	2	92,057.000	94,450.482	$481.000	$ 0.01	94550			1	5,016.718	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2014	2	53,754.000	183,408.648	$3,035.000	$ 0.06	94550			2	14,954.368	0.000	985.059
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2014	2	22,578.000	23,165.028	$118.000	$ 0.01	94550			1	1,230.406	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2014	2	36.179	0.000	$304.000	$ 8.40	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2014	3	35,543.850	121,275.616	$2,433.000	$ 0.07	94550			2	9,888.302	0.000	651.352
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2014	3	71,060.000	72,907.560	$384.000	$ 0.01	94550			1	3,872.470	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2014	3	56,663.000	193,334.156	$3,059.000	$ 0.05	94550			2	15,763.652	0.000	1,038.368
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2014	3	19,578.000	20,087.028	$106.000	$ 0.01	94550			1	1,066.918	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2014	3	57.226	0.000	$536.000	$ 9.37	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2014	4	35,936.669	122,615.916	$2,736.000	$ 0.08	94550			2	9,997.585	0.000	658.551

Utility/Fuel Consumption and Cost													Notes		Estimated GHG Emissions			
PSO	Site #	Site	Category	Subcategory	Usage Unit	FY	QTR	Usage Amount	BTU x 10^6	Cost (1,000 $)	$/Usage Unit	Main Site Zip Code	Additional Information	SPO Notes	Scope	Anthropogenic $MtCO_2e$	Biogenic $MtCO_2e$	Scope 3 - T&D Loss, $MtCO_2e$
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2014	4	55,986.000	57,441.636	$193.000	$ 0.00	94550			1	3,051.001	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fe	2014	4	5,873.944	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2014	4	61,701.000	210,523.812	$3,705.000	$ 0.06	94550			2	17,165.224	0.000	1,130.690
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2014	4	19,074.000	19,569.924	$66.000	$ 0.00	94550			1	1,039.453	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fe	2014	4	1,179.431	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2014	4	78.602	0.000	$751.000	$ 9.55	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2015	1	38,987.000	133,023.644	$2,621.000	$ 0.07	94550			2	10,846.187	0.000	714.449
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2015	1	84,019.225	86,203.725	$390.000	$ 0.00	94550			1	4,578.694	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2015	1	57,921.025	197,626.537	$3,463.000	$ 0.06	94550			2	16,113.635	0.000	1,061.421
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2015	1	27,241.200	27,949.471	$126.000	$ 0.00	94550			1	1,484.531	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2015	1	40.454	0.000	$315.288	$ 7.79	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2015	2	38,012.000	129,696.944	$2,242.000	$ 0.06	94550			2	10,574.942	0.000	696.582
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2015	2	91,168.118	93,538.489	$304.000	$ 0.00	94550			1	4,968.278	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2015	2	55,715.142	190,100.065	$2,922.000	$ 0.05	94550			2	15,499.958	0.000	1,020.998
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2015	2	27,166.100	27,872.419	$91.000	$ 0.00	94550			1	1,480.438	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2015	2	33.869	0.000	$228.852	$ 6.76	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2015	3	38,040.000	129,792.480	$2,048.000	$ 0.05	94550			2	10,582.732	0.000	697.095
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2015	3	75,501.053	77,464.080	$240.000	$ 0.00	94550			1	4,114.489	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2015	3	58,454.183	199,445.672	$2,798.000	$ 0.05	94550			2	16,261.959	0.000	1,071.192
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2015	3	25,681.500	26,349.219	$82.000	$ 0.00	94550			1	1,399.533	0.000	0.000
NNSA	112	LLNL	Water	Potable	Million Gallons	2015	3	48.748	0.000	$379.556	$ 7.79	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2015	4	39,732.000	135,565.584	$2,689.000	$ 0.07	94550			2	11,053.446	0.000	728.102
NNSA	112	LLNL	Buildings	Natural Gas	1,000 Cubic Feet	2015	4	58,484.001	60,004.585	$187.000	$ 0.00	94550			1	3,187.132	0.000	0.000
NNSA	112	LLNL	Buildings	Square Feet	1,000 Square Fe	2015	4	5,873.944	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Excluded	Electricity - Grid	Megawatt Hour	2015	4	62,323.018	212,646.137	$3,751.000	$ 0.06	94550			2	17,338.269	0.000	1,142.089
NNSA	112	LLNL	Excluded	Natural Gas	1,000 Cubic Feet	2015	4	21,858.700	22,427.026	$71.000	$ 0.00	94550			1	1,191.207	0.000	0.000
NNSA	112	LLNL	Excluded	Square Feet	1,000 Square Fe	2015	4	1,179.431	0.000		$ -	94550			NA	0.000	0.000	0.000
NNSA	112	Lawren	Water	Potable	Million Gallons	2015	4	75.445	0.000	$653.732	$ 8.67	94550			NA	0.000	0.000	0.000

List of Operating On-Site Renewable Energy Systems

Requirement(s): EPAct 2005, DOE O 436.1, E.O. 13693

Instructions: Update the list of currently operating on-site renewable energy systems and address SPO requests. For additional guidance see comments in row 9 of each column and the CEDR Technical Support Document. Purchased renewable energy should be listed in the "Purchased RE" worksheet. Newly proposed or potential on-site renewable energy systems should be listed in the "Conservation & RE Measures" worksheet. Edited and new data cells should be highlighted.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

System Information															Production/Consumption Information									Cost	Biomass Fuel Information					Notes	
PSO	Site #	Site	System Description/Name	Location Description (e.g., building name, etc.)	System Location (Zip Code)	Year Installed (YYYY)	End Use Category	Siting Status - On Federal or Indian Land?	Is the Project that Produces the Renewable Energy on Brownfields or Other Environmentally Compromised Land?	Ownership Status	% of RECs Retained	On or Off Grid?	Does the site own the T&D system that delivers the electricity?	Scope 1 or 2 System?	Generator Nameplate Capacity (MW)	System Type/Cate-gory	Estimated Annual Renewable Electricity Output (MWh/Yr)	Estimated Annual Renewable Electricity Consumed (MWh/Yr)	Estimated EPAct 2005 Bonus (MWh/Yr)	Estimated Annual GHG Emissions Avoided ($mtCO_2e$/Yr)	Estimated Annual Biomass/No RECs GHG Emissions ($mtCO_2e$/Yr)	Estimated Annual Renewable Thermal Output (10^6 BTU/Yr)	Estimated Annual Renewable Thermal Consumed (10^6 BTU/Yr)	Equipment Implemen-tation Cost ($)	Principal Biomass Fuel Type	Principal Biomass Fuel Use (10^6 BTU/Yr)	Secondary / Blend Fuel Type	Secondary / Blend Fuel Use (10^6 BTU/Yr)	Fuel Costs ($)	Addi-tional Informa tion	SPO Notes
NNSA	112	LLNL	Photo-voltaic	Site-300	94550	2001	Goal Subject	On Federal Land, On User Site		Agency Owns Energy and RECs from Project	100%	Electric Off Grid	Yes	Scope 1	0.000171	Solar Photovoltaic	3.000	3.000	3.000	1.272	0.000		0.000								
NNSA	112	LLNL	Photo-voltaic	Discovery Visitor's Center, T1800, Lake Hausmann	94550	2003	Goal Subject	On Federal Land, On User Site		Agency Owns Energy and RECs from Project	100%	Electric Off Grid	Yes	Scope 1	0.001027	Solar Photovoltaic	16.740	16.740	16.740	7.100	0.000		0.000								

List of Purchased Renewable Energy

Requirement(s): EPAct 2005, DOE O 436.1, E.O. 13693
Instructions: Update the list of purchased renewable energy resources and address SPO requests. Conventional hydropower should be reported in tab 3.1 for correct accounting; do not report conventional hydropower in this tab. For additional guidance see comments in row 9/10 of each column and the CEDR Technical Support Document. On-site operational renewable energy should be listed in the "Operating On-Site Renewables" worksheet. Edited and new data cells should be highlighted.
Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Purchase Information																	Consumption Information						Cost		Notes	
PSO	Site #	Site	Type of Renewable Energy Purchased	System Type/Category	Source Location (Zip Code)	Is the Project that Produces the Renewable Energy on Brownfields or Other Environmentally Compromised Land?	Service Year (YYYY)	Purchase Year (FY)	REC Supplier/ Contract With…	RECs purchased on multi-year contract?	Contract Begins		Contract Ends		End Use Category	Siting Status - On Federal or Indian Land?	Total Renewable Electricity Purchased (MWh/Yr)	Estimated Annual GHG Emissions Avoided ($mtCO_2e$/Yr)	Scope 3 - T&D Loss, $mtCO_2e$	Purchased Renewable Energy Biomass Emissions mtCO2e	FY 2008 Anthropogenic mtCO2e	Total Renewable Thermal Purchased (10^6 BTU/Yr)	Annual Cost ($)	$/Unit	Additional Information	SPO Notes
											Month	Year	Month	Year												
NNSA	112	LLNL	Renewable Energy Credits	Wind	59036		Before 1/1/1999	2008							Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	14,614.000	8,885.781	585.314	0.000	0.000		$ 13,786.00	$ 0.94		
NNSA	112	LLNL	Renewable Energy Credits	Wind	58413		Before 1/1/1999	2009							Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	14,933.000	14,702.992	968.498	0.000	0.000		$ 15,600.00	$ 1.04		
NNSA	112	LLNL	Renewable Energy Credits	Wind	58413		Before 1/1/1999	2010							Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	32,995.000	32,486.788	2,139.931	0.000	0.000		$ 37,119.38	$ 1.13		
NNSA	112	LLNL	Renewable Energy Credits	Wind	79566		Before 1/1/1999	2011							Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	33,424.000	16,651.886	1,096.873	0.000	0.000		$ 32,000.00	$ 0.96		
NNSA	112	LLNL	Renewable Energy Credits	Wind	79566		Before 1/1/1999	2012							Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	33,799.000	17,756.341	1,169.625	0.000	0.000		$ 33,799.00	$ 1.00		
NNSA	112	LLNL	Renewable Energy Credits	Incremental Hydropower	96019		After 1/1/1999	2012							Goal Subject	On Federal Land, Transmitted to Site	32,377.000	14,625.082	963.366	0.000	0.000		$ 4,856.55	$ 0.15		Request: Please review ser
NNSA	112	LLNL	Renewable Energy Credits	Wind	79566		Before 1/1/1999	2013	WAPA	Yes				2015	Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	38,095.000	20,013.250	1,318.289	0.000	0.000		$ 58,667.00	$ 1.54		
NNSA	112	LLNL	Renewable Energy Credits	Incremental Hydropower	96019		After 1/1/1999	2013	WAPA	Yes					Goal Subject	On Federal Land, Transmitted to Site	34,209.000	15,452.619	1,017.877	0.000	0.000		$ 5,131.00	$ 0.15		Request: Please review ser
NNSA	112	LLNL	Renewable Energy Credits	Wind	79566		Before 1/1/1999	2014	WAPA	Yes					Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	35,942.000	19,310.612	1,272.006	0.000	0.000		$ 41,333.30	$ 1.15		
NNSA	112	LLNL	Purchased Renewable Electric Energy	Incremental Hydropower	96019		After 1/1/1999	2014	WAPA	Yes					Goal Subject	On Federal Land, Transmitted to Site	38,242.000	16,219.973	1,068.423	0.000	0.000		$ 3,824.20	$ 0.10		
NNSA	112	LLNL	Renewable Energy Credits	Biogas (captured methane)	33905		After 1/1/1999	2015	WAPA	Yes					Goal Subject	NOT on Federal or Indian Land, Transmitted to User Site	35,169.000	20,444.809	1,346.716	0.000	0.000		$ 43,961.00	$ 1.25		
NNSA	112	LLNL	Purchased Renewable Electric Energy	Incremental Hydropower	96019		After 1/1/1999	2015	WAPA	Yes					Goal Subject	On Federal Land, Transmitted to Site	19,266.000	8,171.487	538.263	0.000	0.000		$ 963.00	$ 0.05		

Active Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Update the list of conservations and renewable energy measures/projects and address SPO requests. For additional guidance see comments in row 10/11 of each column and the

Source: Site/Lab June 2012 EISA Sec 432 report

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Measure/Project Description												Funding Overview			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Measure(s) Location (Zip Code)	Is this a multiple or single facility ECM?	Does the measure contribute to the reduction of deferred maintenance?	Is this effort/measure beyond typical O&M improvement to meet a goal?	Funding Source/Type (Actual or Potential)	Starting Year of Measure Implementation (Anticipated or Actual - YYYY)
NNSA	112	LLNL	NNSA-0112-0003	2009	No	TC40	Identified	Data Center Efficiency	Virtual Servers: Collocate server and storage equipment and close down remote servers rooms to reduce electrical, mechanical and maintenance costs. 86 virtual machines will be installed in B112 and will allow the removal of 700 physical servers.		Multiple	No	Yes	Unknown	2011
NNSA	112	LLNL	NNSA-0112-0004	2009	No	LLNL-TC13-01	Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape. Recycle treated groundwater and rainwater collected from building roofs for irrigation. Upgrade irrigation system with 'smart' water controllers. Buildings 071, 111, 113, 121, 170, 482, 581.		Multiple	No	Yes	GPP	2011
NNSA	112	LLNL	NNSA-0112-0006	2009	No	LLNL-TC5-02	Identified	Lighting Improvements	Lighting Improvements - Interior: Install computer energy analysis hardware and software to monitor and control environmental conditions such as lighting and HVAC. Install motion detectors for indoor lighting and replace older inefficient lamps with energy efficient lamps. Multiple buildings.		Multiple	No	Yes	Other	2011
NNSA	112	LLNL	NNSA-0112-0007	2009	No	LLNL-TC5-01	Identified	Lighting Improvements	Lighting Improvements - Exterior: Replace outdoor standard lighting with PV and LED lighting fixures to reduce energy consumption. Multiple buildings.		Multiple	No	Yes	Unknown	2011
NNSA	112	LLNL	NNSA-0112-0008	2009	No	LLNL-E-01	Identified	Photovoltaic	Renewable Energy Photovoltaic System: Install concentrated photovoltaic systems to carry up to 25% of LLNL's Power use.		Multiple	No	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0009	2009	No	LLNL-E-02	Identified	Wind	Renewable Energy - Wind Power : Install 5MW Wind turbine generators at Site 300 to make it fully self sufficient.		Multiple	No	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation		Multiple	Yes	No	Disposition	2007
NNSA	112	LLNL	NNSA-0112-0011	2009	No	LLNL-W-04	Identified	Water and Sewer Conservation Systems	Integration of cooling tower operations: This project will optimize the operations of the sites cooling towers to minimize water and power usage while maintaining reliability.		Multiple	Yes	No	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0012	2009	No	LLNL-TC-04	Identified	Boiler Plant Improvements	Boiler Replacement Project: Replace boilers in vaious buildings across site with new efficient boilers that also comply with newly-adopted SF Bay Area Air Quality Management District site emmision reduction requirements. Multiple buildings.		Multiple	Yes	No	M&R Indirect	2013
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit		Multiple	Yes	No	M&R Indirect	2010
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters		Multiple	Yes	No	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades		Multiple	Yes	No	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0018	2009	No	8.1	Identified	Electric Motors and Drives	Motor replacement with high effciency motors		Multiple	Yes	No	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0019	2009	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives		Multiple	Yes	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0020	2009	No	13.1	Identified	Water and Sewer Conservation Systems	Plumbing Fixture Replacement: Replace fixtures with low flow water closets and urinals. Multiple buildings.		Multiple	Yes	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0021	2009	No	13.2	Identified	Water and Sewer Conservation Systems	Water efficient irrigation		Multiple	No	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0022	2009	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert		Multiple	Yes	Yes	Unknown	2015
NNSA	112	LLNL	NNSA-0112-0028	2009	No	4.3	Identified	Heating, Ventilating, and Air Conditioning (HVAC)	Fume hood modification		Multiple	Yes	Yes	Unknown	2016

Active Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1
Instructions: Update the list of conservations and renewable energy measures/projects and address SPO requests. For additional guidance see comments in row 10/11 of each column and the
Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
														If M&V has been conducted,			
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Completion/ Operational Year of Measure (Anticipated or Actual -- YYYY)	Estimated Service Life	Estimated Implementation Cost ($)	Are there plans to measure and verify the performance of this measure?	Type of M&V	MM	YYYY	Were the findings from the M&V consistent with projections?
NNSA	112	LLNL	NNSA-0112-0003	2009	No	TC40	Identified	Data Center Efficiency	Virtual Servers: Collocate server and storage equipment and close down remote servers rooms to reduce electrical, mechanical and maintenance costs. 86 virtual machines will be installed in B112 and will allow the removal of 700 physical servers.	2015	6	$560,000	No				
NNSA	112	LLNL	NNSA-0112-0004	2009	No	LLNL-TC13-01	Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape. Recycle treated groundwater and rainwater collected from building roofs for irrigation. Upgrade irrigation system with 'smart' water controllers. Buildings 071, 111, 113, 121, 170, 482, 581.	2020	15	$5,000,000					
NNSA	112	LLNL	NNSA-0112-0006	2009	No	LLNL-TC5-02	Identified	Lighting Improvements	Lighting Improvements - Interior: Install computer energy analysis hardware and software to monitor and control environmental conditions such as lighting and HVAC. Install motion detectors for indoor lighting and replace older inefficient lamps with energy efficient lamps. Multiple buildings.	2015	24	$5,000,000					
NNSA	112	LLNL	NNSA-0112-0007	2009	No	LLNL-TC5-01	Identified	Lighting Improvements	Lighting Improvements - Exterior: Replace outdoor standard lighting with PV and LED lighting fixures to reduce energy consumption. Multiple buildings.	2015	10	$5,000,000					
NNSA	112	LLNL	NNSA-0112-0008	2009	No	LLNL-E-01	Identified	Photovoltaic	Renewable Energy Photovoltaic System: Install concentrated photovoltaic systems to carry up to 25% of LLNL's Power use.	2016	15	$35,000,000					
NNSA	112	LLNL	NNSA-0112-0009	2009	No	LLNL-E-02	Identified	Wind	Renewable Energy - Wind Power : Install 5MW Wind turbine generators at Site 300 to make it fully self sufficient.	2016	15	$15,000,000					
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation	2016	25	$80,000,000					
NNSA	112	LLNL	NNSA-0112-0011	2009	No	LLNL-W-04	Identified	Water and Sewer Conservation Systems	Integration of cooling tower operations: This project will optimize the operations of the sites cooling towers to minimize water and power usage while maintaining reliability.	2020	20	$500,000					
NNSA	112	LLNL	NNSA-0112-0012	2009	No	LLNL-TC-04	Identified	Boiler Plant Improvements	Boiler Replacement Project: Replace boilers in vaious buildings across site with new efficient boilers that also comply with newly-adopted SF Bay Area Air Quality Management District site emmision reduction requirements. Multiple buildings.	2015	20	$14,000,000					
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	2015	25	$60,000					
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters	2016	25	$1,332,473					
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades	2016	25	$2,869,670					
NNSA	112	LLNL	NNSA-0112-0018	2009	No	8.1	Identified	Electric Motors and Drives	Motor replacement with high effciency motors	2016	25	$1,111,073					
NNSA	112	LLNL	NNSA-0112-0019	2009	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	2016	25	$1,992,522					
NNSA	112	LLNL	NNSA-0112-0020	2009	No	13.1	Identified	Water and Sewer Conservation Systems	Plumbing Fixture Replacement: Replace fixtures with low flow water closets and urinals. Multiple buildings.	2020	25	$2,307,400					
NNSA	112	LLNL	NNSA-0112-0021	2009	No	13.2	Identified	Water and Sewer Conservation Systems	Water efficient irrigation	2020	25	$663,048					
NNSA	112	LLNL	NNSA-0112-0022	2009	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	2015	25	$388,044					
NNSA	112	LLNL	NNSA-0112-0028	2009	No	4.3	Identified	Heating, Ventilating, and Air Conditioning (HVAC)	Fume hood modification	2016	25	$3,527,081					

Active Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1
Instructions: Update the list of conservations and renewable energy measures/projects and address SPO requests. For additional guidance see comments in row 10/11 of each column and the
Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description											Source Savings/Re				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
											Provide estimated energy saved or switched for each energy type, as applicable. If there are no s				
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Is this a energy saving measure or renewable energy system?	Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)	Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)	Estimated Annual Coal Saved (Short Ton/Yr)
NNSA	112	LLNL	NNSA-0112-0003	2009	No	TC40	Identified	Data Center Efficiency	Virtual Servers: Collocate server and storage equipment and close down remote servers rooms to reduce electrical, mechanical and maintenance costs. 86 virtual machines will be installed in B112 and will allow the removal of 700 physical servers.	Energy Saving	2,491.208	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0004	2009	No	LLNL-TC13-01	Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape. Recycle treated groundwater and rainwater collected from building roofs for irrigation. Upgrade irrigation system with 'smart' water controllers. Buildings 071, 111, 113, 121, 170, 482, 581.	Energy Saving	95.454	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0006	2009	No	LLNL-TC5-02	Identified	Lighting Improvements	Lighting Improvements - Interior: Install computer energy analysis hardware and software to monitor and control environmental conditions such as lighting and HVAC. Install motion detectors for indoor lighting and replace older inefficient lamps with energy efficient lamps. Multiple buildings.	Energy Saving	20,000.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0007	2009	No	LLNL-TC5-01	Identified	Lighting Improvements	Lighting Improvements - Exterior: Replace outdoor standard lighting with PV and LED lighting fixures to reduce energy consumption. Multiple buildings.	Fuel Switching	20,000.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0008	2009	No	LLNL-E-01	Identified	Photovoltaic	Renewable Energy Photovoltaic System: Install concentrated photovoltaic systems to carry up to 25% of LLNL's Power use.	Fuel Switching	59,285.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0009	2009	No	LLNL-E-02	Identified	Wind	Renewable Energy - Wind Power : Install 5MW Wind turbine generators at Site 300 to make it fully self sufficient.	Fuel Switching	13,000.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation	Energy Saving	22,928.963	0.000	0.000	410.613	0.000
NNSA	112	LLNL	NNSA-0112-0011	2009	No	LLNL-W-04	Identified	Water and Sewer Conservation Systems	Integration of cooling tower operations: This project will optimize the operations of the sites cooling towers to minimize water and power usage while maintaining reliability.	Energy Saving	4,574.443	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0012	2009	No	LLNL-TC-04	Identified	Boiler Plant Improvements	Boiler Replacement Project: Replace boilers in vaious buildings across site with new efficient boilers that also comply with newly-adopted SF Bay Area Air Quality Management District site emmision reduction requirements. Multiple buildings.	Energy Saving	2,074.713	0.000	4,400.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	Energy Saving	117.006	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters	Energy Saving	1,548.066	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades	Energy Saving	195.487	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0018	2009	No	8.1	Identified	Electric Motors and Drives	Motor replacement with high effciency motors	Energy Saving	1,589.683	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0019	2009	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	Energy Saving	4,681.419	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0020	2009	No	13.1	Identified	Water and Sewer Conservation Systems	Plumbing Fixture Replacement: Replace fixtures with low flow water closets and urinals. Multiple buildings.	Water Saving I	10.702	0.000	0.000	0.192	0.000
NNSA	112	LLNL	NNSA-0112-0021	2009	No	13.2	Identified	Water and Sewer Conservation Systems	Water efficient irrigation	Energy Saving	6.055	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0022	2009	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	Energy Saving	486.803	0.000	0.000	8.718	0.000
NNSA	112	LLNL	NNSA-0112-0028	2009	No	4.3	Identified	Heating, Ventilating, and Air Conditioning (HVAC)	Fume hood modification	Energy Saving	11,029.066	0.000	0.000	197.509	0.000

Active Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1
Instructions: Update the list of conservations and renewable energy measures/projects and address SPO requests. For additional guidance see comments in row 10/11 of each column and the
Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description										ewable Energy Output							Cost	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)	(al)
										avings associated with the measure enter "0". If								
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Steam Saved (10^9 BTU/Yr)	Estimated Annual Other Saved (10^9 BTU/Yr)	If "Other", what is "Other"?	Estimated Annual Potable Water Savings (10^3 Gal/Yr)	Estimated Annual ILA (Non-Potable Freshwater) Savings (10^3 Gal/Yr)	Estimated Annual Renewable Electricity Output (MWh/Yr)	Estimated Annual Renewable Thermal Output (10^9 BTU/Yr)	Estimated Annual Energy Cost Savings ($/Yr)	Estimated Annual Water Cost Savings ($/Yr)
NNSA	112	LLNL	NNSA-0112-0003	2009	No	TC40	Identified	Data Center Efficiency	Virtual Servers: Collocate server and storage equipment and close down remote servers rooms to reduce electrical, mechanical and maintenance costs. 86 virtual machines will be installed in B112 and will allow the removal of 700 physical servers.	0.000	0.000		0.000	0.000	0.000	0.000	$250,000	$0
NNSA	112	LLNL	NNSA-0112-0004	2009	No	LLNL-TC13-01	Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape. Recycle treated groundwater and rainwater collected from building roofs for irrigation. Upgrade irrigation system with 'smart' water controllers. Buildings 071, 111, 113, 121, 170, 482, 581.	0.000	0.000		24,000.000	0.000	0.000	0.000	$6,682	$120,000
NNSA	112	LLNL	NNSA-0112-0006	2009	No	LLNL-TC5-02	Identified	Lighting Improvements	Lighting Improvements - Interior: Install computer energy analysis hardware and software to monitor and control environmental conditions such as lighting and HVAC. Install motion detectors for indoor lighting and replace older inefficient lamps with energy efficient lamps. Multiple buildings.	0.000	0.000		0.000	0.000	0.000	0.000	$1,400,000	$0
NNSA	112	LLNL	NNSA-0112-0007	2009	No	LLNL-TC5-01	Identified	Lighting Improvements	Lighting Improvements - Exterior: Replace outdoor standard lighting with PV and LED lighting fixures to reduce energy consumption. Multiple buildings.	0.000	0.000		0.000	0.000	20,000.000	0.000	$1,400,000	$0
NNSA	112	LLNL	NNSA-0112-0008	2009	No	LLNL-E-01	Identified	Photovoltaic	Renewable Energy Photovoltaic System: Install concentrated photovoltaic systems to carry up to 25% of LLNL's Power use.	0.000	0.000		0.000	0.000	59,400.000	0.000	$4,150,000	$0
NNSA	112	LLNL	NNSA-0112-0009	2009	No	LLNL-E-02	Identified	Wind	Renewable Energy - Wind Power : Install 5MW Wind turbine generators at Site 300 to make it fully self sufficient.	0.000	0.000		0.000	0.000	13,000.000	0.000	$910,000	$0
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation	0.000	0.000		0.000	0.000	0.000	0.000	$2,380,000	$0
NNSA	112	LLNL	NNSA-0112-0011	2009	No	LLNL-W-04	Identified	Water and Sewer Conservation Systems	Integration of cooling tower operations: This project will optimize the operations of the sites cooling towers to minimize water and power usage while maintaining reliability.	0.000	0.000		5,411.000	0.000	0.000	0.000	$320,213	$27,056
NNSA	112	LLNL	NNSA-0112-0012	2009	No	LLNL-TC-04	Identified	Boiler Plant Improvements	Boiler Replacement Project: Replace boilers in vaious buildings across site with new efficient boilers that also comply with newly-adopted SF Bay Area Air Quality Management District site emmision reduction requirements. Multiple buildings.	0.000	0.000		0.000	0.000	0.000	0.000	$100,000	$0
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	0.000	0.000		0.000	0.000	0.000	0.000	$9,239	$0
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters	0.000	0.000		0.000	0.000	0.000	0.000	$86,049	$0
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades	0.000	0.000		0.000	0.000	0.000	0.000	$227,287	$0
NNSA	112	LLNL	NNSA-0112-0018	2009	No	8.1	Identified	Electric Motors and Drives	Motor replacement with high effciency motors	0.000	0.000		0.000	0.000	0.000	0.000	$88,368	$0
NNSA	112	LLNL	NNSA-0112-0019	2009	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	0.000	0.000		0.000	0.000	0.000	0.000	$260,208	$0
NNSA	112	LLNL	NNSA-0112-0020	2009	No	13.1	Identified	Water and Sewer Conservation Systems	Plumbing Fixture Replacement: Replace fixtures with low flow water closets and urinals. Multiple buildings.	0.000	0.000		15,869.600	0.000	0.000	0.000	$163,346	$79,348
NNSA	112	LLNL	NNSA-0112-0021	2009	No	13.2	Identified	Water and Sewer Conservation Systems	Water efficient irrigation	0.000	0.000		6,055.000	0.000	0.000	0.000	$6,055	$30,275
NNSA	112	LLNL	NNSA-0112-0022	2009	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	0.000	0.000		0.000	0.000	0.000	0.000	$40,127	$0
NNSA	112	LLNL	NNSA-0112-0028	2009	No	4.3	Identified	Heating, Ventilating, and Air Conditioning (HVAC)	Fume hood modification	0.000	0.000		0.000	0.000	0.000	0.000	$650,977	$0

Active Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1
Instructions: Update the list of conservations and renewable energy measures/projects and address SPO requests. For additional guidance see comments in row 10/11 of each column and the
Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description										Savings		Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(am)	(an)	(ao)	(ap)	(aq)	(ar)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Cost Savings ($/Yr) from switching to a renewable energy source	Estimated Annual Ancillary Cost Savings ($/Yr)	Site Priority	Additional Information	Bldg # (Optional)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0003	2009	No	TC40	Identified	Data Center Efficiency	Virtual Servers: Collocate server and storage equipment and close down remote servers rooms to reduce electrical, mechanical and maintenance costs. 86 virtual machines will be installed in B112 and will allow the removal of 700 physical servers.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0004	2009	No	LLNL-TC13-01	Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape. Recycle treated groundwater and rainwater collected from building roofs for irrigation. Upgrade irrigation system with 'smart' water controllers. Buildings 071, 111, 113, 121, 170, 482, 581.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0006	2009	No	LLNL-TC5-02	Identified	Lighting Improvements	Lighting Improvements - Interior: Install computer energy analysis hardware and software to monitor and control environmental conditions such as lighting and HVAC. Install motion detectors for indoor lighting and replace older inefficient lamps with energy efficient lamps. Multiple buildings.	$0	$0	N/A	Not a Renewable Energy Project		
NNSA	112	LLNL	NNSA-0112-0007	2009	No	LLNL-TC5-01	Identified	Lighting Improvements	Lighting Improvements - Exterior: Replace outdoor standard lighting with PV and LED lighting fixures to reduce energy consumption. Multiple buildings.	$1,400,000	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0008	2009	No	LLNL-E-01	Identified	Photovoltaic	Renewable Energy Photovoltaic System: Install concentrated photovoltaic systems to carry up to 25% of LLNL's Power use.	$4,150,000	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0009	2009	No	LLNL-E-02	Identified	Wind	Renewable Energy - Wind Power : Install 5MW Wind turbine generators at Site 300 to make it fully self sufficient.	$910,000	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0011	2009	No	LLNL-W-04	Identified	Water and Sewer Conservation Systems	Integration of cooling tower operations: This project will optimize the operations of the sites cooling towers to minimize water and power usage while maintaining reliability.	$0	$0	N/A	Not a renewable energy system		
NNSA	112	LLNL	NNSA-0112-0012	2009	No	LLNL-TC-04	Identified	Boiler Plant Improvements	Boiler Replacement Project: Replace boilers in vaious buildings across site with new efficient boilers that also comply with newly-adopted SF Bay Area Air Quality Management District site emmision reduction requirements. Multiple buildings.	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0018	2009	No	8.1	Identified	Electric Motors and Drives	Motor replacement with high effciency motors	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0019	2009	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0020	2009	No	13.1	Identified	Water and Sewer Conservation Systems	Plumbing Fixture Replacement: Replace fixtures with low flow water closets and urinals. Multiple buildings.	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0021	2009	No	13.2	Identified	Water and Sewer Conservation Systems	Water efficient irrigation	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0022	2009	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0028	2009	No	4.3	Identified	Heating, Ventilating, and Air Conditioning (HVAC)	Fume hood modification	$0	$0	N/A	JCI Initial Proposal		

Measure/Project Description												Funding Overview			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Measure(s) Location (Zip Code)	Is this a multiple or single facility ECM?	Does the measure contribute to the reduction of deferred maintenance?	Is this effort/measure beyond typical O&M improvement to meet a goal?	Funding Source/Type (Actual or Potential)	Starting Year of Measure Implementation (Anticipated or Actual - YYYY)
NNSA	112	LLNL	NNSA-0112-0014	2009	No	LLNL-W-01	Verified	Water and Sewer Conservation Systems	Water Reclamation System: Install a modular sewage treatment system to provide irrigation water. Upgrade the irrigation piping system for reclaimed water distribution.		Multiple	No	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED		Multiple	Yes	Yes	ESPC	2008
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED		Multiple	Yes	Yes	ESPC	2008

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
														If M&V has been conducted,			
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Completion/ Operational Year of Measure (Anticipated or Actual -- YYYY)	Estimated Service Life	Estimated Implementation Cost ($)	Are there plans to measure and verify the performance of this measure?	Type of M&V	MM	YYYY	Were the findings from the M&V consistent with projections?
NNSA	112	LLNL	NNSA-0112-0014	2009	No	LLNL-W-01	Verified	Water and Sewer Conservation Systems	Water Reclamation System: Install a modular sewage treatment system to provide irrigation water. Upgrade the irrigation piping system for reclaimed water distribution.	2020	25	$9,800,000					
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED	2012	25	$5,820,050	Yes	B - Retrofit	Dec	2014	Yes - Better
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	2012	25	$2,365,076	Yes	A - Retrofit	Mar	2014	s - As Estimated

Measure/Project Description											Source Savings/Re				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
											Provide estimated energy saved or switched for each energy type, as applicable. If there are no s				
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Is this a energy saving measure or renewable energy system?	Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)	Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)	Estimated Annual Coal Saved (Short Ton/Yr)
NNSA	112	LLNL	NNSA-0112-0014	2009	No	LLNL-W-01	Verified	Water and Sewer Conservation Systems	Water Reclamation System: Install a modular sewage treatment system to provide irrigation water. Upgrade the irrigation piping system for reclaimed water distribution.	Energy Saving	254.804	0.000	0.000	4.563	0.000
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED	Energy Saving	8,273.336	0.000	48,700.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	Energy Saving	5,153.204	0.000	0.000	0.000	0.000

Measure/Project Description										ewable Energy Output							Cost	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)	(al)
	avings associated with the measure enter "0". If																	
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Steam Saved (10^9 BTU/Yr)	Estimated Annual Other Saved (10^9 BTU/Yr)	If "Other", what is "Other"?	Estimated Annual Potable Water Savings (10^3 Gal/Yr)	Estimated Annual ILA (Non-Potable Freshwater) Savings (10^3 Gal/Yr)	Estimated Annual Renewable Electricity Output (MWh/Yr)	Estimated Annual Renewable Thermal Output (10^9 BTU/Yr)	Estimated Annual Energy Cost Savings ($/Yr)	Estimated Annual Water Cost Savings ($/Yr)
NNSA	112	LLNL	NNSA-0112-0014	2009	No	LLNL-W-01	Verified	Water and Sewer Conservation Systems	Water Reclamation System: Install a modular sewage treatment system to provide irrigation water. Upgrade the irrigation piping system for reclaimed water distribution.	0.000	0.000		95,000.000	0.000	0.000	0.000	$26,449	$475,000
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$1,005,466	$0
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$378,145	$0

Measure/Project Description										Savings		Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(am)	(an)	(ao)	(ap)	(aq)	(ar)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Cost Savings ($/Yr) from switching to a renewable energy source	Estimated Annual Ancillary Cost Savings ($/Yr)	Site Priority	Additional Information	Bldg # (Optional)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0014	2009	No	LLNL-W-01	Verified	Water and Sewer Conservation Systems	Water Reclamation System: Install a modular sewage treatment system to provide irrigation water. Upgrade the irrigation piping system for reclaimed water distribution.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED	$0	$0	N/A	COMPLETED		Project in CTS.
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	$0	$0	N/A	COMPLETED		Project in CTS.

Measure/Project Description												Funding Overview			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Measure(s) Location (Zip Code)	Is this a multiple or single facility ECM?	Does the measure contribute to the reduction of deferred maintenance?	Is this effort/measure beyond typical O&M improvement to meet a goal?	Funding Source/Type (Actual or Potential)	Starting Year of Measure Implementation (Anticipated or Actual - YYYY)
NNSA	112	LLNL	NNSA-0112-0005	2010	No		Identified	Data Center Efficiency	Terascale B-453 Free Cooling: - Modify existing HVAC system to utilize seasonal and nighttime cool outside air to provide free cooling, in lieu of mechanically cooled air, to the high performance computing center space.		Single	No	Yes	Unknown	2015
NNSA	112	LLNL	NNSA-0112-0029	2010	No		Identified	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation. Buildings 170, 181, 551E, 551W.		Multiple	Yes	Yes	M&R Indirect	2016
NNSA	112	LLNL	NNSA-0112-0030	2010	No		Identified	Renewable Energy Assessment	Renewable Energy Project Development: Feasibility planning to develop solar, wind and fuel cells packages for third party financing. Projects include 10 MW solar panels at Site 200 and 10 MW solar panels at Site 300, 30 MW wind farm at Site 300, and three 400KW fuel cell units that will tie into the 13.8KV electrical system at Site 200.		Multiple	No	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0031	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape.		Multiple	Yes	No	Unknown	2011
NNSA	112	LLNL	NNSA-0112-0032	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Upgrade irrigation system with 'smart' water controllers.		Multiple	Yes	Yes	Unknown	2011
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement		Multiple	Yes	Yes	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0034	2010	No	4.4	Identified	Other	High efficiency air filters		Multiple	Yes	No	Unknown	2016
NNSA	112	LLNL	NNSA-0112-0035	2010	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives		Multiple	Yes		Unknown	2016
NNSA	112	LLNL	NNSA-0112-0036	2010	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert		Multiple	Yes	Yes	Unknown	2015
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting)		Single	No	No	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)		Single	No	No	Unknown	2015
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED		Single	No	No	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED		Single	No	No	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED		Single	No	Yes	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED		Single	No	No	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED		Single	No	No	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED		Single	No	Yes	M&R Indirect	2012
NNSA	112	LLNL	NNSA-0112-0049-A	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0049-B	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (Lighting ECM-4) COMPLETED		Single	No	No	M&R Indirect	2013
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)		Single	No	No	TBD	2015

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
														If M&V has been conducted,			
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Completion/ Operational Year of Measure (Anticipated or Actual -- YYYY)	Estimated Service Life	Estimated Implementation Cost ($)	Are there plans to measure and verify the performance of this measure?	Type of M&V	MM	YYYY	Were the findings from the M&V consistent with projections?
NNSA	112	LLNL	NNSA-0112-0005	2010	No		Identified	Data Center Efficiency	Terascale B-453 Free Cooling: - Modify existing HVAC system to utilize seasonal and nighttime cool outside air to provide free cooling, in lieu of mechanically cooled air, to the high performance computing center space.	2015	25	$6,500,000					
NNSA	112	LLNL	NNSA-0112-0029	2010	No		Identified	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation. Buildings 170, 181, 551E, 551W.	2016	30	$4,500,000					
NNSA	112	LLNL	NNSA-0112-0030	2010	No		Identified	Renewable Energy Assessment	Renewable Energy Project Development: Feasibility planning to develop solar, wind and fuel cells packages for third party financing. Projects include 10 MW solar panels at Site 200 and 10 MW solar panels at Site 300, 30 MW wind farm at Site 300, and three 400KW fuel cell units that will tie into the 13.8KV electrical system at Site 200.	2016	N/A	$400,000					
NNSA	112	LLNL	NNSA-0112-0031	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape.	2020	30	$200,000					
NNSA	112	LLNL	NNSA-0112-0032	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Upgrade irrigation system with 'smart' water controllers.	2020	20	$100,000					
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement	2016	25	$3,489,118					
NNSA	112	LLNL	NNSA-0112-0034	2010	No	4.4	Identified	Other	High efficiency air filters	2016	25	$444,158					
NNSA	112	LLNL	NNSA-0112-0035	2010	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	2016	25	$199,252					
NNSA	112	LLNL	NNSA-0112-0036	2010	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	2016	25	$201,783					
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting)	2013	10	$97,285					
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)	2015	10	$31,052					
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED	2013	10	$13,804					
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED	2012	10	$66,734					
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	2015	10	$324,453					
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED	2013	10	$251,305					
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED	2012	10	$137,509					
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED	2012	10	$5,406					
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED	2012	10	$50,477					
NNSA	112	LLNL	NNSA-0112-0049-A	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (HVAC & Lighting)	2015	15	$1,040,026					
NNSA	112	LLNL	NNSA-0112-0049-B	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (Lighting ECM-4) COMPLETED	2013	15	$52,746					
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)	2015	15	$212,800					
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)	2015	15	$105,888					

Measure/Project Description											Source Savings/Re				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
											Provide estimated energy saved or switched for each energy type, as applicable. If there are no s				
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Is this a energy saving measure or renewable energy system?	Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)	Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)	Estimated Annual Coal Saved (Short Ton/Yr)
NNSA	112	LLNL	NNSA-0112-0005	2010	No		Identified	Data Center Efficiency	Terascale B-453 Free Cooling: - Modify existing HVAC system to utilize seasonal and nighttime cool outside air to provide free cooling, in lieu of mechanically cooled air, to the high performance computing center space.	Energy Saving	12,017.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0029	2010	No		Identified	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation. Buildings 170, 181, 551E, 551W.	Energy Saving	1,428.571	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0030	2010	No		Identified	Renewable Energy Assessment	Renewable Energy Project Development: Feasibility planning to develop solar, wind and fuel cells packages for third party financing. Projects include 10 MW solar panels at Site 200 and 10 MW solar panels at Site 300, 30 MW wind farm at Site 300, and three 400KW fuel cell units that will tie into the 13.8KV electrical system at Site 200.	Fuel Switching	0.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0031	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape.	Water Saving I	0.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0032	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Upgrade irrigation system with 'smart' water controllers.	Water Saving I	0.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement	Energy Saving	8,821.158	0.000	0.000	157.970	0.000
NNSA	112	LLNL	NNSA-0112-0034	2010	No	4.4	Identified	Other	High efficiency air filters	Energy Saving	1,548.066	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0035	2010	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	Energy Saving	591.658	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0036	2010	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	Energy Saving	486.803	0.000	0.000	8.718	0.000
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting)	Energy Saving	551.280	0.000	5,490.300	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)	Energy Saving	309.780	0.000	1,845.200	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED	Energy Saving	17.333	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED	Energy Saving	167.380	0.000	3,415.200	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	Energy Saving	737.920	0.000	6,202.200	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED	Energy Saving	3,353.602	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED	Energy Saving	1,551.010	0.000	4,021.900	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED	Energy Saving	206.040	0.000	1,982.700	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED	Energy Saving	480.810	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0049-A	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (HVAC & Lighting)	Energy Saving	2,221.495	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0049-B	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (Lighting ECM-4) COMPLETED	Energy Saving	328.506	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)	Energy Saving	3,472.920	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)	Energy Saving	383.955	0.000	786.809	0.000	0.000

Measure/Project Description										ewable Energy Output							Cost	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)	(al)
										avings associated with the measure enter "0". If								
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Steam Saved (10^9 BTU/Yr)	Estimated Annual Other Saved (10^9 BTU/Yr)	If "Other", what is "Other"?	Estimated Annual Potable Water Savings (10^3 Gal/Yr)	Estimated Annual ILA (Non-Potable Freshwater) Savings (10^3 Gal/Yr)	Estimated Annual Renewable Electricity Output (MWh/Yr)	Estimated Annual Renewable Thermal Output (10^9 BTU/Yr)	Estimated Annual Energy Cost Savings ($/Yr)	Estimated Annual Water Cost Savings ($/Yr)
NNSA	112	LLNL	NNSA-0112-0005	2010	No		Identified	Data Center Efficiency	Terascale B-453 Free Cooling: - Modify existing HVAC system to utilize seasonal and nighttime cool outside air to provide free cooling, in lieu of mechanically cooled air, to the high performance computing center space.	0.000	0.000		6,570.000	0.000	0.000	0.000	$525,000	$57,850
NNSA	112	LLNL	NNSA-0112-0029	2010	No		Identified	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation. Buildings 170, 181, 551E, 551W.	0.000	0.000		0.000	0.000	0.000	0.000	$30,000	$0
NNSA	112	LLNL	NNSA-0112-0030	2010	No		Identified	Renewable Energy Assessment	Renewable Energy Project Development: Feasibility planning to develop solar, wind and fuel cells packages for third party financing. Projects include 10 MW solar panels at Site 200 and 10 MW solar panels at Site 300, 30 MW wind farm at Site 300, and three 400KW fuel cell units that will tie into the 13.8KV electrical system at Site 200.	0.000	0.000		0.000	0.000	0.000	0.000	$0	$0
NNSA	112	LLNL	NNSA-0112-0031	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape.	0.000	0.000		5,000.000	0.000	0.000	0.000	$0	$25,000
NNSA	112	LLNL	NNSA-0112-0032	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Upgrade irrigation system with 'smart' water controllers.	0.000	0.000		2,500.000	0.000	0.000	0.000	$0	$12,500
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement	0.000	0.000		0.000	0.000	0.000	0.000	$986,543	$0
NNSA	112	LLNL	NNSA-0112-0034	2010	No	4.4	Identified	Other	High efficiency air filters	0.000	0.000		0.000	0.000	0.000	0.000	$11,620	$0
NNSA	112	LLNL	NNSA-0112-0035	2010	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	0.000	0.000		0.000	0.000	0.000	0.000	$41,416	$0
NNSA	112	LLNL	NNSA-0112-0036	2010	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	0.000	0.000		0.000	0.000	0.000	0.000	$27,867	$0
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$81,263	$0
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)	0.000	0.000		0.000	0.000	0.000	0.000	$36,103	$0
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$1,224	$0
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$38,151	$0
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	0.000	0.000		0.000	0.000	0.000	0.000	$106,941	$0
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$236,832	$0
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$153,067	$0
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$29,837	$0
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$33,956	$0
NNSA	112	LLNL	NNSA-0112-0049-A	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$156,184	$0
NNSA	112	LLNL	NNSA-0112-0049-B	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (Lighting ECM-4) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$23,199	$0
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)	0.000	0.000		0.000	0.000	0.000	0.000	$245,258	$0
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$33,300	$0

Measure/Project Description										Savings		Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(am)	(an)	(ao)	(ap)	(aq)	(ar)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Cost Savings ($/Yr) from switching to a renewable energy source	Estimated Annual Ancillary Cost Savings ($/Yr)	Site Priority	Additional Information	Bldg # (Optional)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0005	2010	No		Identified	Data Center Efficiency	Terascale B-453 Free Cooling: - Modify existing HVAC system to utilize seasonal and nighttime cool outside air to provide free cooling, in lieu of mechanically cooled air, to the high performance computing center space.	$0	$0	N/A	B453		
NNSA	112	LLNL	NNSA-0112-0029	2010	No		Identified	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation. Buildings 170, 181, 551E, 551W.	$0	$0	N/A	Buildings 170, 181, 551E, 551W,		
NNSA	112	LLNL	NNSA-0112-0030	2010	No		Identified	Renewable Energy Assessment	Renewable Energy Project Development: Feasibility planning to develop solar, wind and fuel cells packages for third party financing. Projects include 10 MW solar panels at Site 200 and 10 MW solar panels at Site 300, 30 MW wind farm at Site 300, and three 400KW fuel cell units that will tie into the 13.8KV electrical system at Site 200.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0031	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Install drought-tolerant plants and landscape.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0032	2010	No		Identified	Water and Sewer Conservation Systems	Water Conservation Systems: Upgrade irrigation system with 'smart' water controllers.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement	$0	$0	N/A	B115, B117, B125, B170, B191, B411, B438, B439, B543		
NNSA	112	LLNL	NNSA-0112-0034	2010	No	4.4	Identified	Other	High efficiency air filters	$0	$0	N/A	B391, B543, B453.		
NNSA	112	LLNL	NNSA-0112-0035	2010	No	8.2	Identified	Electric Motors and Drives	Variable speed motors or drives	$0	$0	N/A	B391, B691		
NNSA	112	LLNL	NNSA-0112-0036	2010	No	17.1	Identified	Commissioning, Re/Retro-commissioning	Retro-commissioning services LEED EB Cert	$0	$0	N/A	B115, B117, B181, B191, B194, B391, B411, B438, B471, B543,		
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0049-A	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0049-B	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B112 (Lighting ECM-4) COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)	$0	$0	N/A			

Measure/Project Description												Funding Overview			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Measure(s) Location (Zip Code)	Is this a multiple or single facility ECM?	Does the measure contribute to the reduction of deferred maintenance?	Is this effort/measure beyond typical O&M improvement to meet a goal?	Funding Source/Type (Actual or Potential)	Starting Year of Measure Implementation (Anticipated or Actual - YYYY)
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0064	2012	No		Identified	Audit/Evaluation (Energy, Water)	ASHRAE Level II Audit Recommendations - B311 (HVAC, Lighting & Water)		Single	No	No	Other	2013
NNSA	112	LLNL	NNSA-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED		Multiple	No	Yes	M&R Indirect	2011
NNSA	112	LLNL	NNSA-0112-0046	2012	No		Awarded/Approved	Lighting Improvements	Lighting Improvements - Exterior: Replace 200 exterior parking and street lighting with LED lighting fixures to reduce energy consumption. COMPLETED		Multiple	No	Yes	M&R Indirect	2011
NNSA	112	LLNL	NNSA-0112-0047	2012	No		Awarded/Approved	Water and Sewer Conservation Systems	Install 1,800 sink aerators at restrooms and kitchen faucets.		Multiple	No	Yes	M&R Indirect	2011
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED		Multiple	No	No	M&R Indirect	2011
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)		Single	No	No	TBD	2015
NNSA	112	LLNL		2013	No		Awarded/Approved	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation - Buildings 451. COMPLETED.		Single	Yes	Yes	M&R Indirect	2013
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups		Multiple	No	No	On-Bill Financin	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at B133		Single	No	Yes	M&R Indirect	2014
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Reduced Irrigation		Multiple	No	Yes	M&R Indirect	2014
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 30,000 SF		Single	No	Yes	M&R Indirect	2014
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 32,600 SF		Multiple	No	Yes	M&R Indirect	2015
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at OS454		Single	No	Yes	M&R Indirect	2015
NNSA	112	LLNL		2016	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 20,000 SF		Multiple	No	Yes	M&R Indirect	2016

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
														If M&V has been conducted,			
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Completion/ Operational Year of Measure (Anticipated or Actual -- YYYY)	Estimated Service Life	Estimated Implementation Cost ($)	Are there plans to measure and verify the performance of this measure?	Type of M&V	MM	YYYY	Were the findings from the M&V consistent with projections?
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	2015	15	$1,322,000					
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)	2015	15	$1,125,463					
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)	2015	15	$587,729					
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)	2015	15	$1,121,419					
NNSA	112	LLNL	NNSA-0112-0064	2012	No		Identified	Audit/Evaluation (Energy, Water)	ASHRAE Level II Audit Recommendations - B311 (HVAC, Lighting & Water)	2014	15	$142,096					
NNSA	112	LLNL	NNSA-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED	2011	15	$328,000	No				
NNSA	112	LLNL	NNSA-0112-0046	2012	No		Awarded/Approved	Lighting Improvements	Lighting Improvements - Exterior: Replace 200 exterior parking and street lighting with LED lighting fixures to reduce energy consumption. COMPLETED	2011	15	$225,000	No				
NNSA	112	LLNL	NNSA-0112-0047	2012	No		Awarded/Approved	Water and Sewer Conservation Systems	Install 1,800 sink aerators at restrooms and kitchen faucets.	2013	15	$10,000	No				
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED	2012	25	$60,000	No				
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)	2015	15	$280,000					
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)	2015	15	$149,800					
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)	2015	15	$185,200					
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)	2015	15	$239,700					
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)	2015	15	$258,800					
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)	2015	15	$403,000					
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)	2015	15	$519,000					
NNSA	112	LLNL		2013	No		Awarded/Approved	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation - Buildings 451. COMPLETED.	2013	30	$3,716,899	No				
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	2015	10	TBD	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	2016	25	$775,786	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	2016	25	$100,661	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)	2016	25	$106,200	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)	2016	25	$49,100	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)	2016	25	$103,700	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)	2016	25	$132,700	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)	2016	25	$1,402,000	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)	2016	25	$298,253	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)	2016	25	$12,950	TBD				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)	2016	25	$511,000	TBD				
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at B133	2014	25	$526,000					
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Reduced Irrigation	2014	25	$100,000					
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 30,000 SF	2014	25	$140,000					
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 32,600 SF	2015	25	$180,000					
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at OS454	2016	25	$4,500,000					
NNSA	112	LLNL		2016	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 20,000 SF	2016	25	$120,000					

Measure/Project Description											Source Savings/Re				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
											Provide estimated energy saved or switched for each energy type, as applicable. If there are no s				
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Is this a energy saving measure or renewable energy system?	Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)	Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)	Estimated Annual Coal Saved (Short Ton/Yr)
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	Energy Saving	1,573.051	0.000	4,236.663	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)	Energy Saving	1.371.585	0.000	15,037.924	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)	Energy Saving	2,188.103	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)	Energy Saving	1,359.517	0.000	8,144.035	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0064	2012	No		Identified	Audit/Evaluation (Energy, Water)	ASHRAE Level II Audit Recommendations - B311 (HVAC, Lighting & Water)	Energy Saving	113.651	0.000	913.482	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED	Energy Saving	1,700.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0046	2012	No		Awarded/Approved	Lighting Improvements	Lighting Improvements - Exterior: Replace 200 exterior parking and street lighting with LED lighting fixures to reduce energy consumption. COMPLETED	Energy Saving	184.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0047	2012	No		Awarded/Approved	Water and Sewer Conservation Systems	Install 1,800 sink aerators at restrooms and kitchen faucets.	Water Saving I	0.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED	Energy Saving	500.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)	Energy Saving	607.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)	Energy Saving	362.400	0.000	38.797	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)	Energy Saving	1,037.200	0.000	727.449	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)	Energy Saving	738.800	0.000	3,606.499	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)	Energy Saving	314.826	0.000	7,362.464	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)	Energy Saving	1,146.000	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)	Energy Saving	978.212	0.000	640.155	0.000	0.000
NNSA	112	LLNL		2013	No		Awarded/Approved	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation - Buildings 451. COMPLETED.	Energy Saving	357.143	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	Energy Saving	TBD	0.000	TBD	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	Energy Saving	559.954	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	Energy Saving	239.665	0.000	519.500	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)	Energy Saving	353.572	0.000	810.500	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)	Energy Saving	892.550	0.000	1,415.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)	Energy Saving	608.982	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)	Energy Saving	477.391	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)	Energy Saving	250.674	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)	Energy Saving	12.346	0.000	474.700	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)	Energy Saving	35.822	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)	Energy Saving	1,214.872	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at B133	Water Saving ECM Only		0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Reduced Irrigation	Water Saving ECM Only		0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 30,000 SF	Water Saving ECM Only		0.000	0.000	0.000	0.000
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 32,600 SF	Water Saving ECM Only		0.000	0.000	0.000	0.000
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at OS454	Water Saving ECM Only		0.000	0.000	0.000	0.000
NNSA	112	LLNL		2016	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 20,000 SF	Water Saving ECM Only		0.000	0.000	0.000	0.000

Measure/Project Description										ewable Energy Output							Cost	
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)	(ak)	(al)
										avings associated with the measure enter "0". If								
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Steam Saved (10^9 BTU/Yr)	Estimated Annual Other Saved (10^9 BTU/Yr)	If "Other", what is "Other"?	Estimated Annual Potable Water Savings (10^3 Gal/Yr)	Estimated Annual ILA (Non-Potable Freshwater) Savings (10^3 Gal/Yr)	Estimated Annual Renewable Electricity Output (MWh/Yr)	Estimated Annual Renewable Thermal Output (10^9 BTU/Yr)	Estimated Annual Energy Cost Savings ($/Yr)	Estimated Annual Water Cost Savings ($/Yr)
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$158,034	$0
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$216,398	$0
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$154,525	$0
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)	0.000	0.000		0.000	0.000	0.000	0.000	$160,746	$0
NNSA	112	LLNL	NNSA-0112-0064	2012	No		Identified	Audit/Evaluation (Energy, Water)	ASHRAE Level II Audit Recommendations - B311 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$15,070	$0
NNSA	112	LLNL	NNSA-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$119,000	$0
NNSA	112	LLNL	NNSA-0112-0046	2012	No		Awarded/Approved	Lighting Improvements	Lighting Improvements - Exterior: Replace 200 exterior parking and street lighting with LED lighting fixures to reduce energy consumption. COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$12,880	$0
NNSA	112	LLNL	NNSA-0112-0047	2012	No		Awarded/Approved	Water and Sewer Conservation Systems	Install 1,800 sink aerators at restrooms and kitchen faucets.	0.000	0.000		2,000.000	0.000	0.000	0.000	$0	$26,000
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000	$35,000	$0
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)	0.000	0.000		1,010.000	0.000	0.000	0.000	$47,800	$5,050
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)	0.000	0.000		95.000	0.000	0.000	0.000	$26,600	$475
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)	0.000	0.000		325.000	0.000	0.000	0.000	$83,700	$1,625
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)	0.000	0.000		40.000	0.000	0.000	0.000	$81,300	$200
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)	0.000	0.000		1,359.000	0.000	0.000	0.000	$87,760	$6,795
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)	0.000	0.000		2,160.000	0.000	0.000	0.000	$91,600	$10,800
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)	0.000	0.000		2,871.000	0.000	0.000	0.000	$91,600	$14,355
NNSA	112	LLNL		2013	No		Awarded/Approved	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation - Buildings 451. COMPLETED.	0.000	0.000		0.000	0.000	0.000	0.000	$30,000	$0
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	0.000	0.000		0.000	0.000	0.000	0.000	TBD	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$60,423	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$16,717	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$24,861	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$59,920	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$36,540	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$28,643	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$15,040	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$2,877	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$2,150	$0
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)	0.000	0.000		0.000	0.000	0.000	0.000	$72,893	$0
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at B133	0.000	0.000		7,000.000	0.000	0.000	0.000	$ 1,404	$53,760
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Reduced Irrigation	0.000	0.000		17,000.000	0.000	0.000	0.000	$ 3,409	$130,560
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 30,000 SF	0.000	0.000		629.000	0.000	0.000	0.000	$ 126	$4,831
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 32,600 SF	0.000	0.000		684.000	0.000	0.000	0.000	$ 137	$5,253
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at OS454	0.000	0.000		40,000.000	0.000	0.000	0.000	$ 8,021	$307,200
NNSA	112	LLNL		2016	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 20,000 SF	0.000	0.000		420.000	0.000	0.000	0.000	$ 84	$3,226

Measure/Project Description										Savings		Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(am)	(an)	(ao)	(ap)	(aq)	(ar)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Cost Savings ($/Yr) from switching to a renewable energy source	Estimated Annual Ancillary Cost Savings ($/Yr)	Site Priority	Additional Information	Bldg # (Optional)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0064	2012	No		Identified	Audit/Evaluation (Energy, Water)	ASHRAE Level II Audit Recommendations - B311 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0046	2012	No		Awarded/Approved	Lighting Improvements	Lighting Improvements - Exterior: Replace 200 exterior parking and street lighting with LED lighting fixures to reduce energy consumption. COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0047	2012	No		Awarded/Approved	Water and Sewer Conservation Systems	Install 1,800 sink aerators at restrooms and kitchen faucets.	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2013	No		Awarded/Approved	Building Envelope Modifications	Building Envelope Replacement: Replace single pane windows with double pane windows, replace damaged siding and inefficient insulation - Buildings 451. COMPLETED.	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	$0	$0				
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at B133	$0	$0		COMPLETED	133	
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Reduced Irrigation	$0	$0		COMPLETED	Site	
NNSA	112	LLNL		2014	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 30,000 SF	$0	$0		COMPLETED	361	
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 32,600 SF	$0	$0		COMPLETED	111/West Inner Loop	
NNSA	112	LLNL		2015	No		Identified	Water and Sewer Conservation Systems	Treated Well Water Reuse at OS454	$0	$0			454	
NNSA	112	LLNL		2016	No		Identified	Water and Sewer Conservation Systems	Xeriscaping, 20,000 SF	$0	$0			551E&W	

Cancelled Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Informational only. No action.

Source: Site/Lab June 2012 EISA Sec 432 report

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Measure/Project Description												Funding Overview						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(k)	(l)	(m)	(n)	(o)	(p)	(q)	(r)	(s)
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Measure(s) Location (Zip Code)	Is this a multiple or single facility ECM?	Does the measure contribute to the reduction of deferred maintenance?	Is this effort/measure beyond typical O&M improvement to meet a goal?	Funding Source/Type (Actual or Potential)	Starting Year of Measure Implementation (Anticipated or Actual - YYYY)	Completion/ Operational Year of Measure (Anticipated or Actual -- YYYY)	Estimated Service Life	Estimated Implementation Cost ($)
NNSA	112	LLNL	NNSA-0112-0015	2009	No	TC30	Cancelled	Other	Facilities Footprint Consolidation		Multiple			N/A				$15,000,000
NNSA	112	LLNL	NNSA-0112-0023	2009	No	N/A	Cancelled	Boiler Plant Improvements	Secure boilers		N/A	N/A	N/A	N/A	N/A	N/A	N/A	$150,000
NNSA	112	LLNL	NNSA-0112-0024	2009	No	N/A	Cancelled	Data Center Efficiency	PC shutdown		N/A	N/A	N/A	N/A	N/A	N/A	N/A	$5,000
NNSA	112	LLNL	NNSA-0112-0025	2009	No	N/A	Cancelled	Boiler Plant Improvements	Boiler replacement project		N/A	N/A	N/A	N/A	N/A	N/A	N/A	$9,000,000
NNSA	112	LLNL	NNSA-0112-0026	2009	No	N/A	Cancelled	Other	Cold and dark facilities		N/A	N/A	N/A	N/A	N/A	N/A	N/A	
NNSA	112	LLNL	NNSA-0112-0027	2009	No	N/A	Cancelled	Energy Related Process Improvements	Vending machine energy management controls		N/A	N/A	N/A	N/A	N/A	N/A	N/A	$22,000
NNSA	112	LLNL	NNSA-0112-0054	2012	No		Cancelled	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - OS454 (Operations)		Single	No	No	TBD	N/A	N/A	N/A	N/A

Cancelled Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Informational only. No action.

Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description										Measurement & Verification									Sour
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(t)	(u)	(v)		(w)	(x)	(y)	(z)	(aa)	(ab)
											If M&V has been conducted, provide type and date					Provide estimated energy saved or switched for each energy type measure enter "0". If estimated savings ar			
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Are there plans to measure and verify the performance of this measure?	Type of M&V	MM	YYYY	Were the findings from the M&V consistent with projections?	Is this a energy saving measure or renewable energy system?	Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)	Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)
NNSA	112	LLNL	NNSA-0112-0015	2009	No	TC30	Cancelled	Other	Facilities Footprint Consolidation						Energy Savi	22,928.963	0.000	0.000	410.613
NNSA	112	LLNL	NNSA-0112-0023	2009	No	N/A	Cancelled	Boiler Plant Improvements	Secure boilers	No					Energy Savi	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0024	2009	No	N/A	Cancelled	Data Center Efficiency	PC shutdown	No					Energy Savi	4.991	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0025	2009	No	N/A	Cancelled	Boiler Plant Improvements	Boiler replacement project	No					Energy Savi	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0026	2009	No	N/A	Cancelled	Other	Cold and dark facilities	No					Energy Savi	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0027	2009	No	N/A	Cancelled	Energy Related Process Improvements	Vending machine energy management controls	No					Energy Savi	0.000	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0054	2012	No		Cancelled	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - OS454 (Operations)	No					Energy Savi	N/A	N/A	N/A	N/A

Cancelled Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Informational only. No action.

Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description										ce Savings/Renewable Energy Output						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)
										, as applicable. If there are no savings associated with the e unknown at this time enter "TBD".						
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Coal Saved (Short Ton/Yr)	Estimated Annual Steam Saved (10^9 BTU/Yr)	Estimated Annual Other Saved (10^9 BTU/Yr)	If "Other", what is "Other"?	Estimated Annual Potable Water Savings (10^3 Gal/Yr)	Estimated Annual ILA (Non-Potable Freshwater) Savings (10^3 Gal/Yr)	Estimated Annual Renewable Electricity Output (MWh/Yr)
NNSA	112	LLNL	NNSA-0112-0015	2009	No	TC30	Cancelled	Other	Facilities Footprint Consolidation	0.000	0.000	0.000				0.000
NNSA	112	LLNL	NNSA-0112-0023	2009	No	N/A	Cancelled	Boiler Plant Improvements	Secure boilers	0.000	0.000	0.000		0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0024	2009	No	N/A	Cancelled	Data Center Efficiency	PC shutdown	0.000	0.000	0.000		0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0025	2009	No	N/A	Cancelled	Boiler Plant Improvements	Boiler replacement project	0.000	0.000	0.000		0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0026	2009	No	N/A	Cancelled	Other	Cold and dark facilities	0.000	0.000	0.000		0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0027	2009	No	N/A	Cancelled	Energy Related Process Improvements	Vending machine energy management controls	0.000	0.000	0.000		0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0054	2012	No		Cancelled	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - OS454 (Operations)	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Cancelled Conservation and Renewable Energy Measures List

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Informational only. No action.

Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description											Cost Savings				Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(aj)	(ak)	(al)	(am)	(an)	(ao)	(ap)	(aq)	
PSO	Site #	Site	HQ Measure #	If Covered, EISA S432 Reporting Year (YYYY)	Has this measure been included in an official DOE budget requests? If yes, provide Project/Measure #	Site Project #	Conservation Measure(s) Status	Conservation Measure(s) Type	Conservation Measure(s) Name or Description	Estimated Annual Renewable Thermal Output (10^9 BTU/Yr)	Estimated Annual Energy Cost Savings ($/Yr)	Estimated Annual Water Cost Savings ($/Yr)	Estimated Annual Cost Savings ($/Yr) from switching to a renewable energy source	Estimated Annual Ancillary Cost Savings ($/Yr)	Site Priority	Additional Information	Bldg # (Optional)	2014 Review Comments
NNSA	112	LLNL	NNSA-0112-0015	2009	No	TC30	Cancelled	Other	Facilities Footprint Consolidation		$2,450,000			$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0023	2009	No	N/A	Cancelled	Boiler Plant Improvements	Secure boilers		$0	$0		$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0024	2009	No	N/A	Cancelled	Data Center Efficiency	PC shutdown		$0	$0		$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0025	2009	No	N/A	Cancelled	Boiler Plant Improvements	Boiler replacement project		$0	$0		$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0026	2009	No	N/A	Cancelled	Other	Cold and dark facilities		$0	$0		$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0027	2009	No	N/A	Cancelled	Energy Related Process Improvements	Vending machine energy management controls		$0	$0		$0	N/A	Cancelled		
NNSA	112	LLNL	NNSA-0112-0054	2012	No		Cancelled	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - OS454 (Operations)	N/A	N/A	N/A	N/A	N/A	N/A	Impacts mission, not recommended for implementation at this time.		

Building Inventory Changes, HPSB Compliance and Projected Utilities Consumption

Requirement(s): EPAct 2005, EISA 2007, DOE O 436.1

Instructions: Update this worksheet with information on new building construction, major renovation, replacements, and buildings that are to be disposed of in the near future, and address SPO requests. For additional guidance see comments in row 9 of each column and the CEDR Technical Support Document. Edited and new data cells should be highlighted. Note some of the information may be captured in the new FIMS module, please ensure consistency.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Basic Information																			For compliance with Sec 438 of EISA	For compliance with DOE O 436.1	Complete this section if *new* building project was CD-1 or lower on 10/1/06		Complete this section if construction has been completed	Notes	
PSO	Site #	Site	Project ID	Building/Project Name	Location (Zip Code)	Planned or Actual CD-2 Date (MM/YY)	Current CD Status	HQ Approved Change (Y/N)	Total Project Cost ($ M)	Number/Type of Facilities	Facility Change Status	Anticipated Electricity Usage (kWh/Yr)	Anticipated Natural Gas Usage (10^3 Cubic Feet/Yr)	Anticipated Potable Water Usage (10^3 Gal/Yr)	Anticipated ILA Water Usage (10^3 Gal/Yr)	Excluded from Energy Intensity?	Expected Building Occupancy or Removal Year (YYYY)	Anticipated Square Footage	If > 5,000 sq ft, will it maintain or restore pre-development hydrology?	What GP equivalency will the building achieve?	Estimated percentage below ASHRAE Std 90.1 in terms of energy use	If not at least 30% below ASHRAE Std 90.1, will design achieve maximum level of energy efficiency that is life-cycle cost-effective?	In terms of energy use, percentage below ANSI/ASHRAE/IESNA Standard 90.1 achieved	Additional Information	SPO Comments/Notes
NNSA	112	LLNL		Building 654/HPCC	94550					1/Datacenter	New	TBD	TBD	TBD	N/A					LEED® Gold					
NNSA	112	LLNL		Building 031/EMF	94550	10/01/16				1/Emergency Operations Center	New	TBD	TBD	TBD	N/A			17,000		LEED® Gold					

Source Energy Savings Credit

Requirement(s): E.O. 13123

Instructions: Optional, complete the tables below for projects that increase site energy use but save source energy. For additional guidance see: http://www.eere.energy.gov/femp/pdfs/sec502e_%20guidance.pdf. Edited and new data cells should be highlighted.

Source: Site/Lab

EPACT Goal Subject Buildings

Name of Project Saving Source Energy in FY 2013 (insert additional rows as necessary)	Annual Site Energy Increase with the Project	Annual Source Energy Saved with the Project	Adjustment to Annual Site Energy
	(10^6 BTU/Yr)	(10^6 BTU/Yr)	(10^6 BTU/Yr)
Project No. 1	0.0	0.0	0.0
Project No. 2	0.0	0.0	0.0
Project No. 3	0.0	0.0	0.0
Totals	**0.0**	**0.0**	**0.0**

EPACT Excluded Buildings

Name of Project Saving Source Energy in FY 2013 (insert additional rows as necessary)	Annual Site Energy Increase with the Project	Annual Source Energy Saved with the Project	Adjustment to Annual Site Energy
	(10^6 BTU/Yr)	(10^6 BTU/Yr)	(10^6 BTU/Yr)
Project No. 1	0.0	0.0	0.0
Project No. 2	0.0	0.0	0.0
Project No. 3	0.0	0.0	0.0
Totals	**0.0**	**0.0**	**0.0**

Electronic Stewardship - Acquisition and Disposal

Requirement(s): E.O. 13693

Instructions: Please complete FY 2015 electronic stewardship data related to acquisition and disposal. Acquisition data is required to be entered only for categories which have EPEAT standards, while electronics disposal is required for all categories. "E under the Electronic Category (Column E) to enter the weight of product recycled if the number of any individual products is unknown. If entering data for both Bulk Electronics Disposal and individual product disposal, there should be no overlap (e.g. if 8 the weight of those monitors should not be included in any "Bulk Electronics Disposal" entry). If available, enter any details on methodology used for collecting this data.

Source: Site/Lab

Methodology

Basic Information					EPEAT Acquisition											
PSO	Site #	Site	FY	Electronic Category	EPEAT Qualified Product?	EPEAT Type	Required Data Entry	Total Number Acquired	# of EPEAT Bronze Acquired	# of EPEAT Silver Acquired	# of EPEAT Gold Acquired	# of ENERGY STAR (but not EPEAT) Acquired	Non-EPEAT Units	EPEAT %	Disposal Units	Transferred or Donated
NNSA	112	LLNL	2012	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	1911	0	0	1909	0	2	100%	# of Units	2
NNSA	112	LLNL	2012	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	1538	0	134	1310	12	94	94%	# of Units	0
NNSA	112	LLNL	2012	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	1246	0	8	1238	0	0	100%	# of Units	0
NNSA	112	LLNL	2012	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	
NNSA	112	LLNL	2012	Printers	No	Imaging Equipment	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Multifunction Devices	No	Imaging Equipment	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Televisions	No	Televisions	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2012	Bulk Electronics Disposal	N/A	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	Metric Tons	
NNSA	112	LLNL	2013	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	985	0	1	978	1	6	99%	# of Units	0
NNSA	112	LLNL	2013	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	728	0	51	652	4	25	97%	# of Units	0
NNSA	112	LLNL	2013	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	N/A	N/A	N/A	N/A		0	--	# of Units	0
NNSA	112	LLNL	2013	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	446	0	10	436	0	0	100%	# of Units	12
NNSA	112	LLNL	2013	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	0					0	--	# of Units	0
NNSA	112	LLNL	2013	Printers	Yes	Imaging Equipment	Acquisition and/or Disposal	134	103	12	0	0	19	86%	# of Units	0
NNSA	112	LLNL	2013	Multifunction Devices	Yes	Imaging Equipment	Acquisition and/or Disposal	45	3	18	0	0	24	47%	# of Units	0
NNSA	112	LLNL	2013	Televisions	Yes	Televisions	Acquisition and/or Disposal	21	0	5	0		16	24%	# of Units	0
NNSA	112	LLNL	2013	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2013	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2013	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2013	Bulk Electronics Disposal	N/A	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	Metric Tons	
NNSA	112	LLNL	2014	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	788	0	0	788		0	100%	# of Units	2
NNSA	112	LLNL	2014	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	931	0	3	927	1	1	100%	# of Units	0
NNSA	112	LLNL	2014	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	0					0	--	# of Units	1

Electronic Stewardship - Acquisition and Disposal

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): E.O. 13693

Instructions: Please complete FY 2015 electronic stewardship data related to acquisition and disposal. Acqui3ulk Electronics Disposal" can be chosen under the Electronic Category (Column E) to enter the weight of product recycled if the number of any individuLCD monitors are entered as recycled, the weight of those monitors should not be included in any "Bulk Electronics Disposal" entry). If available, ente

Source: Site/Lab

Methodology

Basic Information							Disposal					Notes	
PSO	Site #	Site	FY	Electronic Category	EPEAT Qualified Product?	EPEAT Type	Recycled by Certified Recycler	Recycled by non-Certified Recycler	Sent for Disposal (e.g. landfill)	Percentage Transferred/Donated Only	Percentage Recycled or Transferred/Donated	Additional Information	SPO Comments
NNSA	112	LLNL	2012	Desktop Computers	Yes	Computers & Displays	0	2532	0	0.1%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	LCD Monitors	Yes	Computers & Displays	0	1686	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	CRT Monitors	No	Computers & Displays	0	240	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Notebook Computers	Yes	Computers & Displays	0	1415	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Thin Clients	Yes	Computers & Displays				--	--		Note: Source PPTRS.
NNSA	112	LLNL	2012	Printers	No	Imaging Equipment	0	586	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Multifunction Devices	No	Imaging Equipment	0	82	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Televisions	No	Televisions	0	135	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Servers	No	N/A	0	421	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Mobile Phones	No	N/A	0	260	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Personal Digital Assistants	No	N/A	0	1988	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Bulk Electronics Disposal	N/A	N/A				--	--		Note: Source PPTRS.
NNSA	112	LLNL	2013	Desktop Computers	Yes	Computers & Displays	0	2942	0	0.0%	100%		
NNSA	112	LLNL	2013	LCD Monitors	Yes	Computers & Displays	0	1788	0	0.0%	100%		
NNSA	112	LLNL	2013	CRT Monitors	No	Computers & Displays	0	222	0	0.0%	100%		
NNSA	112	LLNL	2013	Notebook Computers	Yes	Computers & Displays	0	1507	0	0.8%	100%		
NNSA	112	LLNL	2013	Thin Clients	Yes	Computers & Displays	0	9	0	0.0%	100%		
NNSA	112	LLNL	2013	Printers	Yes	Imaging Equipment	0	674	0	0.0%	100%		
NNSA	112	LLNL	2013	Multifunction Devices	Yes	Imaging Equipment	0	84	0	0.0%	100%		
NNSA	112	LLNL	2013	Televisions	Yes	Televisions	0	118	0	0.0%	100%		
NNSA	112	LLNL	2013	Servers	No	N/A	0	387	0	0.0%	100%		
NNSA	112	LLNL	2013	Mobile Phones	No	N/A	0	374	0	0.0%	100%		
NNSA	112	LLNL	2013	Personal Digital Assistants	No	N/A	0	24	0	0.0%	100%		
NNSA	112	LLNL	2013	Bulk Electronics Disposal	N/A	N/A				--	--		
NNSA	112	LLNL	2014	Desktop Computers	Yes	Computers & Displays	385	0	0	0.5%	100%		
NNSA	112	LLNL	2014	LCD Monitors	Yes	Computers & Displays	262	0	0	0.0%	100%		
NNSA	112	LLNL	2014	CRT Monitors	No	Computers & Displays	0	0	0	100.0%	100%		

Methodology

Basic Information					EPEAT Acquisition											
NNSA	112	LLNL	2014	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	848	0	6	842	0	0	100%	# of Units	0
NNSA	112	LLNL	2014	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	71	0	1	0		70	1%	# of Units	0
NNSA	112	LLNL	2014	Printers	Yes	Imaging Equipment	Acquisition and/or Disposal	144	60	71	0	8	13	91%	# of Units	2
NNSA	112	LLNL	2014	Multifunction Devices	Yes	Imaging Equipment	Acquisition and/or Disposal	7	3	2	0	0	2	71%	# of Units	1
NNSA	112	LLNL	2014	Televisions	Yes	Televisions	Acquisition and/or Disposal	28	0	6	0	11	22	21%	# of Units	0
NNSA	112	LLNL	2014	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	3
NNSA	112	LLNL	2014	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2014	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2014	Bulk Electronics Disposal	N/A	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	Metric Tons	
NNSA	112	LLNL	2015	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	640	0	1	639	0	0	100%	# of Units	1
NNSA	112	LLNL	2015	Workstations	Yes	Computers & Displays	Acquisition and/or Disposal	585	0	0	0	0	585	0%	# of Units	0
NNSA	112	LLNL	2015	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	1502	0	13	1480		9	99%	# of Units	0
NNSA	112	LLNL	2015	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	0
NNSA	112	LLNL	2015	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	1314	0	68	1245	0	1	100%	# of Units	1
NNSA	112	LLNL	2015	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	48	0	40	6	0	2	96%	# of Units	0
NNSA	112	LLNL	2015	Tablets/Slates	Yes	Computers & Displays	Acquisition and/or Disposal	288	42	79	166	0	1	100%	# of Units	0
NNSA	112	LLNL	2015	Printers	Yes	Imaging Equipment	Acquisition and/or Disposal	248	20	215	0	11	13	95%	# of Units	2
NNSA	112	LLNL	2015	Multifunction Devices	Yes	Imaging Equipment	Acquisition and/or Disposal	89	0	83	0	2	6	93%	# of Units	1
NNSA	112	LLNL	2015	Copiers	Yes	Imaging Equipment	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	0
NNSA	112	LLNL	2015	Digital Duplicators	Yes	Imaging Equipment	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	0
NNSA	112	LLNL	2015	Fax Machines	Yes	Imaging Equipment	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	0
NNSA	112	LLNL	2015	Mailing Machines	Yes	Imaging Equipment	Acquisition and/or Disposal	0	0	0	0	0	0	--	# of Units	0
NNSA	112	LLNL	2015	Scanners	Yes	Imaging Equipment	Acquisition and/or Disposal	44	21	19	0	2	4	91%	# of Units	0
NNSA	112	LLNL	2015	Televisions	Yes	Televisions	Acquisition and/or Disposal	78	0	7	1	17	70	10%	# of Units	0
NNSA	112	LLNL	2015	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2015	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2015	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	# of Units	0
NNSA	112	LLNL	2015	Bulk Electronics Disposal	N/A	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--	Metric Tons	

Methodology	

Basic Information							Disposal					Notes
NNSA	112	LLNL	2014	Notebook Computers	Yes	Computers & Displays	3	0	1	0.0%	75%	classified destruction (NNSA NAP 14.1-C, Cyber Security Plan Policy 2339/4334) requires special disposal
NNSA	112	LLNL	2014	Thin Clients	Yes	Computers & Displays	0	0	0	--	--	
NNSA	112	LLNL	2014	Printers	Yes	Imaging Equipment	424	0	0	0.5%	100%	
NNSA	112	LLNL	2014	Multifunction Devices	Yes	Imaging Equipment	37	0	0	2.6%	100%	
NNSA	112	LLNL	2014	Televisions	Yes	Televisions	51	0	0	0.0%	100%	
NNSA	112	LLNL	2014	Servers	No	N/A	193	0	0	1.5%	100%	
NNSA	112	LLNL	2014	Mobile Phones	No	N/A	1329	0	639	0.0%	68%	classified destruction (NNSA NAP 14.1-C, Cyber Security Plan Policy 2339/4334) requires special disposal
NNSA	112	LLNL	2014	Personal Digital Assistants	No	N/A	0	0	251	0.0%	0%	classified destruction (NNSA NAP 14.1-C, Cyber Security Plan Policy 2339/4334) requires special disposal
NNSA	112	LLNL	2014	Bulk Electronics Disposal	N/A	N/A				--	--	
NNSA	112	LLNL	2015	Desktop Computers	Yes	Computers & Displays	578	0	0	0.2%	100%	
NNSA	112	LLNL	2015	Workstations	Yes	Computers & Displays	1	0	0	0.0%	100%	
NNSA	112	LLNL	2015	LCD Monitors	Yes	Computers & Displays	0	0	0	--	--	
NNSA	112	LLNL	2015	CRT Monitors	No	Computers & Displays	0	0	0	--	--	
NNSA	112	LLNL	2015	Notebook Computers	Yes	Computers & Displays	78	0	0	1.3%	100%	
NNSA	112	LLNL	2015	Thin Clients	Yes	Computers & Displays	27	0	0	0.0%	100%	
NNSA	112	LLNL	2015	Tablets/Slates	Yes	Computers & Displays	0	0	0	--	--	
NNSA	112	LLNL	2015	Printers	Yes	Imaging Equipment	476	0	0	0.4%	100%	
NNSA	112	LLNL	2015	Multifunction Devices	Yes	Imaging Equipment	70	0	0	1.4%	100%	
NNSA	112	LLNL	2015	Copiers	Yes	Imaging Equipment	12	0	0	0.0%	100%	
NNSA	112	LLNL	2015	Digital Duplicators	Yes	Imaging Equipment	0	0	0	--	--	
NNSA	112	LLNL	2015	Fax Machines	Yes	Imaging Equipment	0	0	0	--	--	
NNSA	112	LLNL	2015	Mailing Machines	Yes	Imaging Equipment	0	0	0	--	--	
NNSA	112	LLNL	2015	Scanners	Yes	Imaging Equipment	0	0	0	--	--	
NNSA	112	LLNL	2015	Televisions	Yes	Televisions	0	0	0	--	--	
NNSA	112	LLNL	2015	Servers	No	N/A	204	0	0	0.0%	100%	
NNSA	112	LLNL	2015	Mobile Phones	No	N/A	71	0	0	0.0%	100%	
NNSA	112	LLNL	2015	Personal Digital Assistants	No	N/A	0	0	0	--	--	
NNSA	112	LLNL	2015	Bulk Electronics Disposal	N/A	N/A				--	--	

Electronic Stewardship - Operations

Requirement(s): E.O. 13693

Instructions: Please enter FY 2015 data for both power management of computers and monitors and duplex printing for printers. Note for FY 2015 reporting, desktop computers, notebook computers, and both CRT and LCD monitors are now recorded in just two categories, whereas in previous years they each had their own category. For Column H, printers, copiers and multifunction devices (MFDs) are considered ineligible for duplex printing if they are only capable of single sided printing. Computers or monitors are considered exempt from power management requirements if they are running mission critical applications (e.g., facility security monitoring, uninterruptable laboratory experiments).

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

Basic Information						Green Operation				Notes		
PSO	Site #	Site	FY	Electronic Category	Required Data Entry	Number Owned	Number Ineligible from Power Management (exempt) or Duplex Printing (incapable)	Number Using Power Management or Duplex Printing	Percentage	Additional Information	SPO Comments	2014 Review Comments
NNSA	112	LLNL	2012	Printers, Copiers, MFDs	Duplex Printing	4,628	122	94	2%		Note: Source PPTRS.	
NNSA	112	LLNL	2012	Desktop Computers	Power Management	11,809	7,609	4,200	100%		Note: Source PPTRS.	
NNSA	112	LLNL	2012	CRT Monitors	Power Management	1,180	1,180	-	--		Note: Source PPTRS.	
NNSA	112	LLNL	2012	LCD Monitors	Power Management	10,628	6,428	4,200	100%		Note: Source PPTRS.	
NNSA	112	LLNL	2012	Notebook Computers	Power Management	7,567	5,267	2,300	100%		Note: Source PPTRS.	
NNSA	112	LLNL	2013	Desktop Computers	Power Management	9,496	4,657	4,839	100%			
NNSA	112	LLNL	2013	CRT Monitors	Power Management	590	590	-	--			
NNSA	112	LLNL	2013	LCD Monitors	Power Management	8,096	2,748	5,348	100%			
NNSA	112	LLNL	2013	Notebook Computers	Power Management	6,019	2,971	3,048	100%			
NNSA	112	LLNL	2014	Computers (Desktop & Notebook)	Power Management	9,104	3,779	5,325	100%			Modified type from "Desktop Computer" to "Computers (Desktop & Notebook)"
NNSA	112	LLNL	2014	Monitors (CRT & LCD)	Power Management	-			--			Modified type from "CRT Monitors" to "Monitors (CRT & LCD)"
NNSA	112	LLNL	2014	Monitors (CRT & LCD)	Power Management	11,110	3,123	7,987	100%			Modified type from "LCD Monitors" to "Monitors (CRT & LCD)"
NNSA	112	LLNL	2014	Computers (Desktop & Notebook)	Power Management	5,885	4,343	1,542	100%			Modified type from "Notebook Computers" to "Computers (Desktop & Notebook)". Also modified Required data entry to "power management" instead of "duplex printing"
NNSA	112	LLNL	2015	Computers (Desktop & Notebook)	Power Management	15,419	3,641	4,381	37%			
NNSA	112	LLNL	2015	Monitors (CRT & LCD)	Power Management	24,643	-	24,643	100%			
NNSA	112	LLNL	2015	Printers, Copiers, MFDs	Power Management	3,834	706	3,128	100%			

Fugitive Emissions: Refrigerants and Fluorinated Gases, Mixed Refrigerants

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 refrigerant data using the default or simplified material balance approach, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

Refrigerant Information																										Notes	
							Default Approach	OR	Simplified Material Balance Approach							F-Gas: Type 1		F-Gas: Type 2		F-Gas: Type 3		F-Gas: Type 4					
PSO	Site #	Site	FY	Data Entry Type	Refrigerant Type	Composition	Quantity Purchased/	Quantity Returned	Quantity in storage at	Quantity in storage at end	Sum of all refrigerant	Sum of all refrigerant	Total capacity of refrigerant in	Total capacity of refrigerant in	Emitted Refrigerant	Material	Amount (lbs)	Material	Amount (lbs)	Material	Amount (lbs)	Material	Amount (lbs)	Anthropogenic $mtCO_2e$	Additional Information	SPO Notes
NNSA	112	LLNL	2008	Fiscal Year	R-23	R-23	11.000	-							11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2008	Fiscal Year	R-407C	R-32/125/134a	162.500	-							162.500	HFC-32	37.375	HFC-125	40.625	HFC-134	84.500	-	-	112.443		
NNSA	112	LLNL	2008	Fiscal Year	R-C318	R-C318	50.000	-							50.000	PFC-c31	50.000	-	-	-	-	-	-	197.313		
NNSA	112	LLNL	2008	Fiscal Year	R-23	R-23	11.000	-							11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2008	Fiscal Year	R-407C	R-32/125/134a	162.500	-							162.500	HFC-32	37.375	HFC-125	40.625	HFC-134	84.500	-	-	112.443		
NNSA	112	LLNL	2008	Fiscal Year	R-C318	R-C318	50.000	-							50.000	PFC-c31	50.000	-	-	-	-	-	-	197.313		
NNSA	112	LLNL	2011	Fiscal Year	R-14	R-14	4.500	-							4.500	PFC-14	4.500	-	-	-	-	-	-	13.268		
NNSA	112	LLNL	2011	Fiscal Year	R-23	R-23	11.000	-							11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2011	Fiscal Year	R-407C	R-32/125/134a	50.000	-							50.000	HFC-32	11.500	HFC-125	12.500	HFC-134	26.000	-	-	34.598		
NNSA	112	LLNL	2011	Fiscal Year	R-410A	R-32/125	500.000	-							500.000	HFC-32	250.000	HFC-125	250.000	-	-	-	-	391.223		
NNSA	112	LLNL	2011	Fiscal Year	R-C318	R-C318	30.000	-							30.000	PFC-c31	30.000	-	-	-	-	-	-	118.388		
NNSA	112	LLNL	2011	Fiscal Year	R-14	R-14	4.500	-							4.500	PFC-14	4.500	-	-	-	-	-	-	13.268		
NNSA	112	LLNL	2011	Fiscal Year	R-23	R-23	11.000	-							11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2011	Fiscal Year	R-407C	R-32/125/134a	50.000	-							50.000	HFC-32	11.500	HFC-125	12.500	HFC-134	26.000	-	-	34.598		
NNSA	112	LLNL	2011	Fiscal Year	R-410A	R-32/125	500.000	-							500.000	HFC-32	250.000	HFC-125	250.000	-	-	-	-	391.223		
NNSA	112	LLNL	2011	Fiscal Year	R-C318	R-C318	30.000	-							30.000	PFC-c31	30.000	-	-	-	-	-	-	118.388		
NNSA	112	LLNL	2012	Fiscal Year	R-23	R-23	11.000								11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2012	Fiscal Year	R-134a	R-134a	45.000								45.000	HFC-134	45.000	-	-	-	-	-	-	26.535		
NNSA	112	LLNL	2012	Fiscal Year	R-407C	R-32/125/134a	275.000								275.000	HFC-32	63.250	HFC-125	68.750	HFC-134	143.000	-	-	190.288		
NNSA	112	LLNL	2012	Fiscal Year	R-C318	R-C318	70.000								70.000	PFC-c31	70.000	-	-	-	-	-	-	276.238		
NNSA	112	LLNL	2012	Fiscal Year	R-508B	R-23/116	10.000								10.000	HFC-23	4.600	PFC-116	5.400	-	-	-	-	46.947		
NNSA	112	LLNL	2012	Fiscal Year	R-23	R-23	11.000								11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
NNSA	112	LLNL	2012	Fiscal Year	R-134a	R-134a	45.000								45.000	HFC-134	45.000	-	-	-	-	-	-	26.535		
NNSA	112	LLNL	2012	Fiscal Year	R-407C	R-32/125/134a	275.000								275.000	HFC-32	63.250	HFC-125	68.750	HFC-134	143.000	-	-	190.288		
NNSA	112	LLNL	2012	Fiscal Year	R-C318	R-C318	70.000								70.000	PFC-c31	70.000	-	-	-	-	-	-	276.238		
NNSA	112	LLNL	2012	Fiscal Year	R-508B	R-23/116	10.000								10.000	HFC-23	4.600	PFC-116	5.400	-	-	-	-	46.947		
NNSA	112	LLNL	2013	Fiscal Year	R-23	R-23	-								-	HFC-23	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2013	Fiscal Year	R-134a	R-134a	625.000								625.000	HFC-134	625.000	-	-	-	-	-	-	368.544		
NNSA	112	LLNL	2013	Fiscal Year	R-404A	R-125/143a/134	24.000								24.000	HFC-125	10.560	HFC-134	0.960	HFC-143	12.480	-	-	35.489		
NNSA	112	LLNL	2013	Fiscal Year	R-C318	R-C318	24.000								24.000	PFC-c31	24.000	-	-	-	-	-	-	94.710		
NNSA	112	LLNL	2013	Fiscal Year	R-508B	R-23/116	-								-	HFC-23	-	PFC-116	-	-	-	-	-	-		
NNSA	112	LLNL	2013	Fiscal Year	R-23	R-23	-								-	HFC-23	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2013	Fiscal Year	R-134a	R-134a	625.000								625.000	HFC-134	625.000	-	-	-	-	-	-	368.544		
NNSA	112	LLNL	2013	Fiscal Year	R-404A	R-125/143a/134	24.000								24.000	HFC-125	10.560	HFC-134	0.960	HFC-143	12.480	-	-	35.489		
NNSA	112	LLNL	2013	Fiscal Year	R-C318	R-C318	24.000								24.000	PFC-c31	24.000	-	-	-	-	-	-	94.710		
NNSA	112	LLNL	2013	Fiscal Year	R-508B	R-23/116	-								-	HFC-23	-	PFC-116	-	-	-	-	-	-		
NNSA	112	LLNL	2014	Fiscal Year	R-134a	R-134a	349.050								349.050	HFC-134	349.050	-	-	-	-	-	-	226.407		
NNSA	112	LLNL	2014	Fiscal Year	R-22	R-22	4,935.000								4,935.000	-	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2014	Fiscal Year	R-404A	R-125/143a/134	156.000								156.000	HFC-125	68.640	HFC-134	6.240	HFC-143	81.120	-	-	277.494		
NNSA	112	LLNL	2014	Fiscal Year	R-410A	R-32/125	50.000								50.000	HFC-32	25.000	HFC-125	25.000	-	-	-	-	47.344		
NNSA	112	LLNL	2014	Fiscal Year	R-C318	R-C318	24.000								24.000	PFC-c31	24.000	-	-	-	-	-	-	112.128		
NNSA	112	LLNL	2015	Fiscal Year	R-12	R-12	16.880								16.880	-	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2015	Fiscal Year	R-134a	R-134a	552.810								552.810	HFC-134	552.810	-	-	-	-	-	-	358.573		
NNSA	112	LLNL	2015	Fiscal Year	R-22	R-22	3,275.000								3,275.000	-	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2015	Fiscal Year	R-245fa	R-245fa	30.000								30.000	HFC-245	30.000	-	-	-	-	-	-	14.016		
NNSA	112	LLNL	2015	Fiscal Year	R-410A	R-32/125	380.000								380.000	HFC-32	190.000	HFC-125	190.000	-	-	-	-	359.812		
NNSA	112	LLNL	2015	Fiscal Year	R-414B	R-22/124/600a/	25.000								25.000	-	-	-	-	-	-	-	-	-		
NNSA	112	LLNL	2015	Fiscal Year	R-C318	R-C318	124.000								124.000	PFC-c31	124.000	-	-	-	-	-	-	579.328		

Fugitive Emissions: Fugitive Fluorinated Gases and Other Fugitive Emissions (Not to Include Process Emissions)

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 fugitive data using the default or simplified material balance approach, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. Do not report process emissions in this tab. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blu
Orange	Fields that need to reviewed and updated w changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

Fugitive Gas Information																		Notes	
							Default Approach	OR	Simplified Material Balance Approach										
PSO	Site #	Site	FY	Data Entry Type	Material Type	Composition	Quantity Purchased/ Issued (lbs)	Quantity Returned to Supply (lbs)	Quantity in storage at beginning of inventory year (lbs)	Quantity in storage at end of inventory year (lbs)	Sum of all F-Gas acquisitions (lbs)	Sum of all F-Gas disbursements (lbs)	Total capacity of F-Gas in equipment at beginning of inventory year	Total capacity of all F-Gas in equipment at end of inventory year (lbs)	Quantity Emitted (lbs)	Total Anthropogenic $mtCO_2e$	Target Anthropogenic $mtCO_2e$	Additional Information	SPO Notes
NNSA	112	LLNL	2008	Fiscal Year	Methane	CH4	4.200								4.200	0.040	0.040		
NNSA	112	LLNL	2008	Fiscal Year	Carbon dioxide	CO2	20,868.500								20,868.500	9.466	9.466		
NNSA	112	LLNL	2008	Fiscal Year	HFC-134a	CH2FCF3	1,914.000								1,914.000	1,128.628	1,128.628		
NNSA	112	LLNL	2008	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	196.500								196.500	115.870	115.870		
NNSA	112	LLNL	2008	Fiscal Year	Nitrous oxide	N2O	18.900								18.900	2.658	2.658		
NNSA	112	LLNL	2008	Fiscal Year	PFC-c318	C-C4F8	24.000								24.000	94.710	94.710		
NNSA	112	LLNL	2008	Fiscal Year	Sulfur hexafluoride	SF6	3,065.000								3,065.000	33,227.202	33,227.202		
NNSA	112	LLNL	2010	Fiscal Year	Methane	CH4	1.460								1.460	0.014	0.014		
NNSA	112	LLNL	2010	Fiscal Year	Carbon dioxide	CO2	28,368.020								28,368.020	12.868	12.868		
NNSA	112	LLNL	2010	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	199.220								199.220	117.474	117.474		
NNSA	112	LLNL	2010	Fiscal Year	PFC-c318	C-C4F8	42.000								42.000	165.743	165.743		
NNSA	112	LLNL	2010	Fiscal Year	Sulfur hexafluoride	SF6	473.550								473.550	5,133.684	5,133.684		
NNSA	112	LLNL	2011	Fiscal Year	Carbon dioxide	CO2	11,542.000	-							11,542.000	5.235	5.235		
NNSA	112	LLNL	2011	Fiscal Year	HFC-245ca	C3H3F5	0.060	-							0.060	0.015	0.015		
NNSA	112	LLNL	2011	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	212.300	-							212.300	125.187	125.187		
NNSA	112	LLNL	2011	Fiscal Year	Methane	CH4	20.290	-							20.290	0.193	0.193		
NNSA	112	LLNL	2011	Fiscal Year	Nitrous oxide	N2O	0.500	-							0.500	0.070	0.070		
NNSA	112	LLNL	2011	Fiscal Year	PFC-9-1-18	C10F18	0.050	-							0.050	0.170	0.170		
NNSA	112	LLNL	2011	Fiscal Year	Sulfur hexafluoride	SF6	1,437.000	-							1,437.000	15,578.300	15,578.300		Request: Please review
NNSA	112	LLNL	2012	Fiscal Year	Sulfur hexafluoride	SF6	199.000								199.000	2,157.329	2,157.329		
NNSA	112	LLNL	2012	Fiscal Year	Methane	CH4	3.120								3.120	0.030	0.030		
NNSA	112	LLNL	2012	Fiscal Year	Carbon dioxide	CO2	17,480.900								17,480.900	7.929	7.929		
NNSA	112	LLNL	2012	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	39.560								39.560	23.327	23.327		
NNSA	112	LLNL	2012	Fiscal Year	HFC-245ca	C3H3F5	2.200								2.200	0.559	0.559		
NNSA	112	LLNL	2012	Fiscal Year	Carbon dioxide	CO2	687,180.870								687,180.870	311.700	311.700	311.7 Tonnes of C	Note: Site noted usage i
NNSA	112	LLNL	2013	Fiscal Year	Sulfur hexafluoride	SF6	290.000								290.000	3,143.846	3,143.846		
NNSA	112	LLNL	2013	Fiscal Year	Methane	CH4	4.810								4.810	0.046	0.046		
NNSA	112	LLNL	2013	Fiscal Year	Carbon dioxide	CO2	12,197.000								12,197.000	5.532	5.532		
NNSA	112	LLNL	2013	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	435.120								435.120	256.577	256.577		
NNSA	112	LLNL	2013	Fiscal Year	HFC-245ca	C3H3F5	-								-	-	-		
NNSA	112	LLNL	2013	Fiscal Year	Nitrous oxide	N2O	6.000								6.000	0.844	0.844		
NNSA	112	LLNL	2014	Fiscal Year	Carbon dioxide	CO2	17,802.730								17,802.730	8.075	8.075		
NNSA	112	LLNL	2014	Fiscal Year	HFC-43-10mee	CF3CFHCFH(	52.740								52.740	39.233	39.233		
NNSA	112	LLNL	2014	Fiscal Year	Sulfur hexafluoride	SF6	259.540								259.540	2,684.136	2,684.136		
NNSA	112	LLNL	2014	Fiscal Year	carbon tetrachloride	CCl4	10.450								10.450	6.636	6.636		
NNSA	112	LLNL	2014	Fiscal Year	Methane	CH4	14.540								14.540	0.165	0.165		
NNSA	112	LLNL	2015	Fiscal Year	Carbon dioxide	CO2	21,656.030								21,656.030	9.823	9.823		
NNSA	112	LLNL	2015	Fiscal Year	Carbon Tetrachloride	CCl4	8.700								8.700	5.525	5.525		
NNSA	112	LLNL	2015	Fiscal Year	CFC-113	CCl2FCCIF2	1.000								1.000	2.177	-		
NNSA	112	LLNL	2015	Fiscal Year	HCFE-235da2 (Isoflurane)		4.800								4.800	0.762	0.762		
NNSA	112	LLNL	2015	Fiscal Year	HFC-43-10mee		224.160								224.160	166.751	166.751		
NNSA	113	LLNL	2015	Fiscal Year	HFE-347mcc3		1,765.05								1,765.050	460.352	460.352		
NNSA	114	LLNL	2015	Fiscal Year	Methane		1.35								1.350	0.015	0.015		
NNSA	115	LLNL	2015	Fiscal Year	Nitrous oxide	N2O	12								12.000	1.622	1.622		
NNSA	116	LLNL	2015	Fiscal Year	Sulfur hexafluoride	SF6	904.29								904.290	9,352.075	9,352.075		

Industrial Process Emissions By Process (Not Reported under Tab 6.2 Fugitive F-gases)

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 industrial process emission data by process, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. Report emissions at the individual process level; a laboratory is not considered a single process. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Methodology

Industrial Process Information										Notes	
PSO	Site #	Site	FY	Process Type	GHG Type	Composition	Quantity Emitted (lbs)	Total Anthropogenic $mtCO_2e$	Target Anthropogenic $mtCO_2e$	Additional Information	SPO Notes
NNSA	112	LLNL				#N/A		-	-		

Fugitive Emissions: On-site Wastewater Treatment (Domestic Only)

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 on-site wastewater treatment plant/system data by type, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

On-Site Wastewater Treatment Information														Notes	
PSO	Site #	Site	FY	Workdays per Year	Centralized WWTP with Anaerobic Digestion (Persons)	Centralized WWTP with Nitrification / Denitrification (Persons)	Centralized WWTP without Nitrification / Denitrification (Persons)	Effluent Discharge to Rivers and Estuaries with Nitrification / Denitrification (Persons)	Effluent Discharge to Rivers and Estuaries without Nitrification / Denitrification (Persons)	Wastewater Treatment Lagoons (Persons)	Septic Systems (Persons)	Biogenic $mtCO_2e$	Anthropogenic $mtCO_2e$	Additional Information	SPO Notes
NNSA	112	LLNL	2008	230.000							110.421	-	7.200		Request: Please review and provide an update. Do not have original r
NNSA	112	LLNL	2010	230.000							110.421	-	7.200		Request: Please review and provide an update. Do not have original r
NNSA	112	LLNL	2011	230.000						78.000	76.000	-	10.448	LLNL assumptions for lagoon: 1) 69 FTE on 4/10s + 4 firemen 24/7, 2) Firefighter days per year total of 1460, 3) FTE equivalents an a 4-10 round up to 9 is 8.202, 4) Total = 78. For septic: 1) 44 FTE on 4/10s + 5 FTE 24/7 four days per week + 3 FTE 24/7 three days per week + 5 officers and 10 trainees 5 days per week at the firing range, 2) Security equivalent of 17.4, 3) FTE equivalents a 4-10 round up to 18, 4) Total = 76.4	
NNSA	112	LLNL	2012	184.000						72.000		-	4.056	LLNL assumptions for lagoon: 72 FTE on 4/10s	
NNSA	112	LLNL	2012	365.000						12.000		-	1.341	LLNL assumptions for lagoon: 4 firemen 24/7	
NNSA	112	LLNL	2012	184.000							38.000	-	1.982	LLNL assumptions for septic:38 FTE on 4/10s	
NNSA	112	LLNL	2012	197.000							15.000	-	0.838	LLNL assumptions for septic: 5 FTE 24/7 four days per week (8 hour shifts) Security	
NNSA	112	LLNL	2012	168.000							9.000	-	0.429	LLNL assumptions for septic 3 FTE 24/7 three days per week (8 hour shifts) Security	
NNSA	112	LLNL	2013	230.000						66.000		-	4.648	LLNL assumptions for lagoon General Services Area 66 M-Th 10 hours	
NNSA	112	LLNL	2013	230.000						12.000		-	0.845	LLNL assumptions for sewage lagoon Fire Dept. 3 shifts, 4 people, including weekends	
NNSA	112	LLNL	2013	230.000							42.000	-	2.739	LLNL assumptions for septic systems Forward Areas 42 M-Th 10 hours	
NNSA	112	LLNL	2013	230.000							15.000	-	0.978	LLNL assumptions for security officers discharging to septic 3 shifts, 5 on day (M-Th), 3 on off shift including weekends	
NNSA	112	LLNL	2014	230.000						73.000		-	6.120	LLNL assumptions for lagoon General Services Area 73 M-Th 10 hours	
NNSA	112	LLNL	2014	230.000						12.000		-	1.006	LLNL assumptions for sewage lagoon Fire Dept. 3 shifts, 4 people, including weekends	
NNSA	112	LLNL	2014	230.000							43.000	-	3.338	LLNL assumptions for septic systems Forward Areas 43 M-Th 10 hours	
NNSA	112	LLNL	2014	230.000							15.000	-	1.164	LLNL assumptions for security officers discharging to septic 3 shifts, 5 on day (M-Th), 3 on off shift including weekends	
NNSA	112	LLNL	2015	230.000						74.000		-	6.204	LLNL assumptions for lagoon General Services Area 66 M-Th 10 hours	
NNSA	112	LLNL	2015	230.000						12.000		-	1.006	LLNL assumptions for sewage lagoon Fire Dept. 3 shifts, 4 people, including weekends	
NNSA	112	LLNL	2015	230.000							49.000	-	3.804	LLNL assumptions for septic systems Forward Areas 42 M-Th 10 hours	
NNSA	112	LLNL	2015	230.000							15.000	-	1.164	LLNL assumptions for security officers discharging to septic 3 shifts, 5 on day (M-Th), 3 on off shift including weekends	

Contracted Wastewater Treatment (Domestic Only)

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 contracted wastewater treatment plant/system data, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. If actual percentages are available from wastewater treatment plant/system contractor, site may override the current calculated percentages in columns I, K, M, and O. Finally, if historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Methodology

Contracted Wastewater Information																			Notes	
							Centralized WWTP with Nitrification / Denitrification		Centralized WWTP without Nitrification / Denitrification		Effluent Discharge to Rivers and Estuaries with Nitrification / Denitrification		Effluent Discharge to Rivers and Estuaries without Nitrification / Denitrification		Wastewater Treatment Lagoons					
PSO	Site #	Site	FY	Workdays per Year	Centralized WWTP with Anaerobic Digestion (Persons)		%	Persons	%	Persons	%	Persons	%	Persons	%	Persons	Biogenic $mtCO_2e$	Total Anthropogenic $mtCO_2e$	Additional Information	Notes
NNSA	112	LLNL	2008	230.000	7,832.0	7,832.0	100.0%	7,832.0	0.0%	-	100.0%	7,832.0	0.0%	-	0.0%	-	24.782	19.626	Data corrected (2009-2013) to reflect 100% nitrifica	
NNSA	112	LLNL	2010	230.000	6,430.0	6,430.0	100.0%	6,430.0	0.0%	-	100.0%	6,430.0	0.0%	-	0.0%	-	20.346	16.113	Data corrected (2009-2013) to reflect 100% nitrifica	
NNSA	112	LLNL	2011	230.000	6,532.0	6,532.0	100.0%	6,532.0	0.0%	-	100.0%	6,532.0	0.0%	-	0.0%	-	20.669	16.368	Data corrected (2009-2013) to reflect 100% nitrifica	
NNSA	112	LLNL	2012	230.000	6,764.0	6,764.0	100.0%	6,764.0	0.0%	-	100.0%	6,764.0	0.0%	-	0.0%	-	21.403	16.950	Data corrected (2009-2013) to reflect 100% nitrifica	
NNSA	112	LLNL	2013	230.000	6,569.0	6,569.0	100.0%	6,569.0	0.0%	-	100.0%	6,569.0	0.0%	-	0.0%	-	20.786	16.461		
NNSA	112	LLNL	2014	230.000	5,870.0	5,870.0	100.0%	5,870.0	0.0%	-	100.0%	5,870.0	0.0%	-	0.0%	-	18.574	14.146		
NNSA	112	LLNL	2015	230.000	5,665.0	5,665.0	100.0%	5,665.0	0.0%	-	100.0%	5,665.0	0.0%	-	0.0%	-	17.925	13.652		

Business Air Travel

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 air travel data by flight type for the primary contractor, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. Federal business air travel information will be pulled by DOE headquarters from GovTrip. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Methodology

Air Travel Information										Notes	
PSO	Site #	Site	FY	Process Type	Flight Type	Fuel Type	Consumption/ Usage	Unit of Measure	Anthropogenic $mtCO_2e$	Additional Information	SPO Notes
NNSA	112	LLNL	2008	Air Business Travel	Unknown	Jet Fuel	35,453,275	Passenger miles	9,709.000	No raw data available at Request: Do not have raw data.	
NNSA	112	LLNL	2010	Air Business Travel	Unknown	Jet Fuel	36,152,583	Passenger miles	9,900.508	No raw data available at Request: Do not have raw data.	
NNSA	112	LLNL	2011	Air Business Travel	Short Haul (< 300 miles)	Jet Fuel	12,877	Passenger miles	3.604		
NNSA	112	LLNL	2011	Air Business Travel	Medium Haul (300 mile ≤ x < 700 mile)	Jet Fuel	500,757	Passenger miles	116.102		
NNSA	112	LLNL	2011	Air Business Travel	Long Haul (≥ 700 miles)	Jet Fuel	50,138,400	Passenger miles	9,418.669		
NNSA	112	LLNL	2012	Air Business Travel	Short Haul (< 300 miles)	Jet Fuel	9,753	Passenger miles	2.855		
NNSA	112	LLNL	2012	Air Business Travel	Medium Haul (300 mile ≤ x < 700 mile)	Jet Fuel	371,246	Passenger miles	62.017		
NNSA	112	LLNL	2012	Air Business Travel	Long Haul (≥ 700 miles)	Jet Fuel	37,923,550	Passenger miles	7,248.555		
NNSA	112	LLNL	2013	Air Business Travel	Short Haul (< 300 miles)	Jet Fuel	8,306	Passenger miles	2.431		
NNSA	112	LLNL	2013	Air Business Travel	Medium Haul (300 mile ≤ x < 700 mile)	Jet Fuel	345,698	Passenger miles	57.749		
NNSA	112	LLNL	2013	Air Business Travel	Long Haul (≥ 700 miles)	Jet Fuel	41,923,003	Passenger miles	8,012.995		
NNSA	112	LLNL	2014	Air Business Travel	Short Haul (< 300 miles)	Jet Fuel	10,761	Passenger miles	2.990		
NNSA	112	LLNL	2014	Air Business Travel	Medium Haul (300 mile ≤ x < 700 mile)	Jet Fuel	343,616	Passenger miles	56.205		
NNSA	112	LLNL	2014	Air Business Travel	Long Haul (≥ 700 miles)	Jet Fuel	41,264,414	Passenger miles	7,956.109		
NNSA	112	LLNL	2015	Air Business Travel	Short Haul (< 300 miles)	Jet Fuel	11,155	Passenger miles	3.099		
NNSA	112	LLNL	2015	Air Business Travel	Medium Haul (300 mile ? x < 700 mile)	Jet Fuel	360,519	Passenger miles	58.970		
NNSA	112	LLNL	2015	Air Business Travel	Long Haul (? 700 miles)	Jet Fuel	43,309,520	Passenger miles	8,350.422		

Business Ground Travel (Domestic Only)

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blu
Orange	Fields that need to reviewed and updated wi changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 ground travel data for the primary contractor, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. Federal business ground travel information will be pulled by DOE headquarters from GovTrip. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Methodology

Ground Travel Information | **Notes**

PSO	Site #	Site	FY	Process Type	Vehicle Type	Fuel Type	Consumption/ Usage	Unit of Measure	Site Average Miles per Trip	Default Average Miles per Trip	Anthropogenic $mtCO_2e$	Adjusted Ground Usaged based on non-default avg days per year	Additional Information	Notes
NNSA	112	LLNL	2008	Rental Trip Mileage	Passenger Car	Gasoline	7,759	Number of Agency Business Trips	419.000	419.000	1,217.700	7,758.757		Request: Do not have raw data.
NNSA	112	LLNL	2010	Rental Trip Mileage	Passenger Car	Gasoline	7,696	Number of Agency Business Trips	419.000	419.000	1,207.900	7,696.315		Request: Do not have raw data.
NNSA	112	LLNL	2011	Rental Trip Mileage	Passenger Car	Gasoline	15,305	Number of Agency Business Trips	152.700	419.000	875.400	5,577.741		
NNSA	112	LLNL	2011	POV Mileage	Passenger Car	Gasoline	995,445	Total Reimbursed Mileage		-	372.865	995,445.000		
NNSA	112	LLNL	2011	Mass Transit Trip Mileage	Intercity Rail	Diesel	5	Number of Agency Business Trips	575.400	575.400	0.533	5.000		
NNSA	112	LLNL	2012	Rental Trip Mileage	Passenger Car	Gasoline	11,503	Number of Agency Business Trips	240.852	210.000	1,037.758	13,192.971		
NNSA	112	LLNL	2012	POV Mileage	Passenger Car	Gasoline	995,395	Total Reimbursed Mileage		-	372.846	995,395.000		
NNSA	112	LLNL	2013	Rental Trip Mileage	Passenger Car	Gasoline	10,301	Number of Agency Business Trips	210.000	210.000	810.276	10,301.000		
NNSA	112	LLNL	2013	POV Mileage	Passenger Car	Gasoline	751,369	Total Reimbursed Mileage		-	281.441	751,369.000		
NNSA	112	LLNL	2014	Rental Trip Mileage	Passenger Car	Gasoline	12,260	Number of Agency Business Trips		210.000	963.701	12,260.000		
NNSA	112	LLNL	2014	POV Mileage	Passenger Car	Gasoline	773,747	Total Reimbursed Mileage		-	289.622	773,747.000		
NNSA	112	LLNL	2015	Rental Trip Mileage	Passenger Car	Gasoline	13,110	Number of Agency Business Trips		210.000	1,030.516	13,110.000		
NNSA	112	LLNL	2015	POV Mileage	Passenger Car	Gasoline	992,304	Total Reimbursed Mileage		-	371.430	992,304.000		

Employee Commuting (Domestic Only)

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: Provide FY 2015 commuting data for both Federal and primary contractor employees, a short description of the methodology used for gathering information both in the CEDR and SSP narrative, and address SPO requests. If historical data is updated please be sure to address this in your SSP narrative, highlight the cell, and note the change in the "Additional Information" column.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

Ground Travel Information													Notes	
PSO	Site #	Site	FY	Process Type	Vehicle Type	Fuel Type	Consumption/ Usage	Unit of Measure	Site Number of Commute Days per Year	Default Number of Commute Days per Year	Anthropogenic $mtCO_2e$	Adjusted Consumption based on days per year	Additional Information	Notes
NNSA	112	LLNL	2008	Personal Owned Vehicles	POV Passenger Car	Gasoline	274,725	Commute (Miles / Day)	230.000	230.000	23,667.924	274,725.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2008	Car/Van Pools	Van Pool	Gasoline	41,833	Commute (Miles / Day)	230.000	230.000	1,285.266	41,833.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2008	Mass Transit	Bus	Diesel	18,069	Commute (Miles / Day)	230.000	230.000	445.375	18,069.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2008	Human Powered	Walking and/or Bicycling		9,927	Commute (Miles / Day)	230.000	230.000	-	9,927.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2008	Personal Owned Vehicles	Motorcycle	Gasoline	7,885	Commute (Miles / Day)	230.000	230.000	309.464	7,885.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2009	Personal Owned Vehicles	POV Passenger Car	Gasoline	224,448	Commute (Miles / Day)	230.000	230.000	19,336.494	224,448.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2009	Car/Van Pools	Van Pool	Gasoline	34,573	Commute (Miles / Day)	230.000	230.000	1,062.212	34,573.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2009	Mass Transit	Bus	Diesel	15,245	Commute (Miles / Day)	230.000	230.000	375.767	15,245.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2009	Human Powered	Walking and/or Bicycling		8,112	Commute (Miles / Day)	230.000	230.000	-	8,112.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2009	Personal Owned Vehicles	Motorcycle	Gasoline	7,198	Commute (Miles / Day)	230.000	230.000	282.501	7,198.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2010	Personal Owned Vehicles	POV Passenger Car	Gasoline	226,067	Commute (Miles / Day)	230.000	230.000	19,475.973	226,067.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2010	Car/Van Pools	Van Pool	Gasoline	33,568	Commute (Miles / Day)	230.000	230.000	1,031.335	33,568.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2010	Mass Transit	Bus	Diesel	15,041	Commute (Miles / Day)	230.000	230.000	370.739	15,041.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2010	Personal Owned Vehicles	Motorcycle	Gasoline	6,656	Commute (Miles / Day)	230.000	230.000	261.229	6,656.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2011	Personal Owned Vehicles	POV Passenger Car	Gasoline	230,302	Commute (Miles / Day)	230.000	230.000	19,840.824	230,302.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2011	Car/Van Pools	Van Pool	Gasoline	33,814	Commute (Miles / Day)	230.000	230.000	1,038.893	33,814.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2011	Mass Transit	Bus	Diesel	15,145	Commute (Miles / Day)	230.000	230.000	373.302	15,145.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2011	Human Powered	Walking and/or Bicycling		7,935	Commute (Miles / Day)	230.000	230.000	-	7,935.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2011	Personal Owned Vehicles	Motorcycle	Gasoline	6,745	Commute (Miles / Day)	230.000	230.000	264.722	6,745.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2012	Personal Owned Vehicles	POV Passenger Car	Gasoline	239,228	Commute (Miles / Day)	230.000	230.000	20,609.810	239,228.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2012	Car/Van Pools	Van Pool	Gasoline	33,778	Commute (Miles / Day)	230.000	230.000	1,037.787	33,778.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2012	Mass Transit	Bus	Diesel	15,700	Commute (Miles / Day)	230.000	230.000	386.982	15,700.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2012	Human Powered	Walking and/or Bicycling		8,449	Commute (Miles / Day)	230.000	230.000	-	8,449.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2012	Personal Owned Vehicles	POV Passenger Car	Gasoline	7,224	Commute (Miles / Day)	230.000	230.000	622.357	7,224.000	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL	2013	Personal Owned Vehicles	POV Passenger Car	Gasoline	232,331	Commute (Miles / Day)	230.000	230.000	20,015.625	232,331.000		
NNSA	112	LLNL	2013	Car/Van Pools	Van Pool	Gasoline	32,804	Commute (Miles / Day)	230.000	230.000	1,007.862	32,804.000		
NNSA	112	LLNL	2013	Mass Transit	Bus	Diesel	15,248	Commute (Miles / Day)	230.000	230.000	375.841	15,248.000		
NNSA	112	LLNL	2013	Human Powered	Walking and/or Bicycling		8,206	Commute (Miles / Day)	230.000	230.000	-	8,206.000		

PSO	Site #	Site	FY	Process Type	Vehicle Type	Fuel Type	Consumption/ Usage	Unit of Measure	Site Number of Commute Days per Year	Default Number of Commute Days per Year	Anthropogenic $mtCO_2e$	Adjusted Consumption based on days per year	Additional Information	Notes
NNSA	112	LLNL	2013	Personal Owned Vehicles	Motorcycle	Gasoline	7,016	Commute (Miles / Day)	230.000	230.000	275.358	7,016.000		
NNSA	112	LLNL	2014	Personal Owned Vehicles	POV Passenger Car	Gasoline	207,771	Commute (Miles / Day)	230.000	230.000	17,887.323	207,771.000		
NNSA	112	LLNL	2014	Car/Van Pools	Van Pool	Gasoline	29,280	Commute (Miles / Day)	230.000	230.000	898.884	29,280.000		
NNSA	112	LLNL	2014	Mass Transit	Bus	Diesel	13,681	Commute (Miles / Day)	230.000	230.000	337.205	13,681.000		
NNSA	112	LLNL	2014	Human Powered	Walking and/or Bicycling		7,097	Commute (Miles / Day)	230.000	230.000	-	7,097.000		
NNSA	112	LLNL	2015	Personal Owned Vehicles	POV Passenger Car	Gasoline	200,515	Commute (Miles / Day)	230.000	230.000	17,262.643	200,515.000		
NNSA	112	LLNL	2015	Car/Van Pools	Van Pool	Gasoline	28,257	Commute (Miles / Day)	230.000	230.000	867.478	28,257.000		
NNSA	112	LLNL	2015	Mass Transit	Bus	Diesel	13,204	Commute (Miles / Day)	230.000	230.000	325.448	13,204.000		
NNSA	112	LLNL	2015	Human Powered	Walking and/or Bicycling		6,849	Commute (Miles / Day)	230.000	230.000	-	6,849.000		

Fugitive Emissions: On-site Landfills and Municipal Solid Waste Facilities (Domestic Only)

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: This is a required tab for FY 2015 GHG estimates of on-site landfill/municipal solid waste emissions and GHG goal performance. Sites may elect to provide a short description of the methodology used for gathering this information. Data input has been changed to metric tons instead of short tons to be more consistent with waste diversion input on Tab 9.1c. Historic Data has been updated to reflect that change.

Source: Site/Lab

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Methodology

On-Site Landfill Information																								Notes	
										Percentage Uncontrolled Release (CO2 Biogenic)		Percentage Uncontrolled Release (CH4)		Landfill Gas Collection System Efficiency (CH4)		Venting Loss (CH4)		Methotropic Bacteria Oxidation Factor (CH4)		Combustion Oxidation Factor (CO2 Biogenic)					
PSO	Site #	Site	FY	Annual Mass of Solid Waste Disposed On-site (Metric Tons)	Annual Mass of Solid Waste Disposed On-site (Short Tons)	Landfill Open Date (Year)	Landfill Close Date (Year)	Carbon dioxide (biogenic) (MT Megagram)	Methane (MT Megagram)	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Biogenic $mtCO_2e$	Anthropogenic $mtCO_2e$	Comments	Notes
					0.0						100%		50%		75%		1%		10%		99%	-	-		

Fugitive Emissions: Contracted/Off-site Landfills and Municipal Solid Waste Facilities (Domestic Only)

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): DOE O 436.1, E.O. 13693

Instructions: This is a required tab for FY 2015 GHG estimates of off-site landfill/municipal solid waste emissions and GHG goal performance. Sites may elect to provide a short description of the methodology used for gathering this information. Sites which send their waste to a DOE-owned landfill should report zero waste in this tab, and note the waste amount transferred to that site in the "Additional Comments" column. Data input has been changed to metric tons instead of short tons to be more consistent with waste diversion input on Tab 9.1c. Historic data has been updated to reflect that change.

Source: Site/Lab

Methodology

Contracted/Off-Site Landfill Information

						Degradable Organic Carbon (Megagram C/ Megagram		DOC Anaerobic Digestibility (%)			Methane % of Landfill Gas (%)						Percentage Uncontrolled Release (CO2 Biogenic)		Percentage Uncontrolled Release (CH4)		Landfill Gas Collection System Efficiency		Venting Loss (CH4)		Methotropic Bacteria Oxidation Factor (CH4)		Combustion Oxidation Factor (CO2 Biogenic)		Notes			
PSO	Site #	Site	FY	Annual Mass of Solid Waste Disposed Off-site (Metric Tons)	Annual Mass of Solid Waste Disposed Off-site (Short Tons)	Site	Default	Site	Default	Methane Correction Factor	Site	Default	Methane Molecular Weight Conversion	Carbon Dioxide Molecular Weight Conversion	Carbon dioxide (biogenic) (MT Megagram)	Methane (MT Megagram)	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Biogenic $mtCO_2e$	Anthropogenic $mtCO_2e$	Additional Information	Notes
NNSA	112	LLNL	2008	906.622	999.385		0.203		50.0%	1.0		50.0%	1.333	3.667	168.707	61.348		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	230.713	729.768		
NNSA	112	LLNL	2010	906.622	999.385		0.203		50.0%	1.0		50.0%	1.333	3.667	168.707	61.348		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	230.713	729.768		
NNSA	112	LLNL	2011	833.971	919.300		0.203		50.0%	1.0		50.0%	1.333	3.667	155.188	56.432		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	212.225	671.288		
NNSA	112	LLNL	2012	754.995	832.244		0.203		50.0%	1.0		50.0%	1.333	3.667	140.492	51.088		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	192.127	607.718		
NNSA	112	LLNL	2013	643.950	709.837		0.203		50.0%	1.0		50.0%	1.333	3.667	119.828	43.574		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	163.869	518.335		
NNSA	112	LLNL	2014	633.690	698.527		0.203		50.0%	1.0		50.0%	1.333	3.667	117.919	42.880		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	161.258	607.202		
NNSA	112	LLNL	2015	623.300	687.074		0.203		50.0%	1.0		50.0%	1.333	3.667	115.986	42.177		100.0%		50.0%		75.0%		1.0%		10.0%		99.0%	158.614	597.247		

Diversion of Municipal Solid Waste and Construction & Demolition Debris

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

Requirement(s): E.O. 13693

Instructions: FY 2015 data on municipal solid waste (MSW) sent to a landfill should be entered in Tabs 9.1a and 9.1b, and will then be automatically imported to this tab in columns E and F. Please complete those tabs before entering FY 2015 data on MSW diversion in columns J through M, and construction and demolition diversion data in columns O and P. The MSW diversion rate calculated on this tab may not be complete if multiple sub-sites are used: i.e. if Tabs 9.1a, 9.1b, and 9.1c do not all utilize the same Site Information (Columns B and C). This may occur for several sites which have reported separately in CEDR but aggregated data for PPTRS. Diversion rate will properly calculate for all data on Tab 1.2 Performance Summary.

Source: Site/Lab

Methodology

Site				MSW Diversion										C&D Diversion			Notes	
PSO	Site #	Site	FY	Mass of Solid Waste Disposed On-site (Metric Tons)	Mass of Solid Waste Disposed Off-site (Metric Tons)	Additional Waste not pulled from Tab 9.1a or 9.1b	Waste in 9.1a attributable to other sites (or to be excluded from	Total Landfilled MSW attributable to site (Metric Tons)	Diverted Waste (Metric Tons)	Off-Site Composting (Metric Tons)	On-site Composting (Metric Tons)	Waste to Energy (Metric Tons)	MSW Diversion Rate	Landfilled C&D Waste (Metric Tons)	Diverted C&D Waste (Metric Tons)	C&D Diversion Rate	Additional Information	Comments
NNSA	112	LLNL	2012	0.0	755.0			755.0	1645.0	83.0	0.0	0.0	69.6%	979.0	1318.0	57.4%		Note: From PPTRS.
NNSA	112	LLNL	2013	0.0	644.0			644.0	1704.0	65.0	0.0	0.0	73.3%	535.0	1626.0	75.2%		
NNSA	112	LLNL	2014	0.0	633.7			633.7	1636.2	67.0	0.0	0.0	72.9%	183.8	748.9	80.3%		
NNSA	112	LLNL	2015	0.0	623.3			623.3	1871.5	66.0	0.0	0.0	75.7%	359.9	593.3	62.2%		

Fleet Fuel (FAST Data)

Requirement(s): NECPA, EISA 2007, DOE O 436.1, E.O. 13693

Instructions: This is an optional tab for FY 2015 GHG estimates of fleet fuel and fleet fuel goal performance. If information for FY 2015 has been entered, select "Current FY" from the drop-down list in tab 1.2, Performance Summary, to have performance estimates based on latest data, otherwise leave as is.

Source: FAST

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2000	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG	NS	None	No	762	918	hundred cubic feet	0.83	4,165.000	No	5.055108	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2000	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	E/ER	No	2704	2704	gallons	1	2,379.000	No	23.96117249	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2000	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	LE	No	27703	27703	gallons	1	35,459.000	No	245.4868201	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2000	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NS	None	No	53079	46276	gallons	1.147	40,959.000	No	491.0681082	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2000	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NS	None	No	367732	367732	gallons	1	452,459.000	No	3258.613123	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG	NS	None	No	274	330	hundred cubic feet	0.83	4,831.000	No	1.817716	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	NS	E/ER	No	13051	11378	gallons	1.147	12,060.000	No	120.7432295	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	E/ER	No	315	315	gallons	1	387.000	No	2.791334813	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	LE	No	34632	34632	gallons	1	53,623.000	No	306.8873246	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NS	None	No	33013	28782	gallons	1.147	39,011.000	No	305.4245833	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2001	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NS	None	No	394995	394995	gallons	1	539,361.000	No	3500.200935	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG 3000	NS	None	No	1177	5229	gallons at 3000 psi	0.225	3,641.000	No	7.808218	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	NS	E/ER	No	14274	12445	gallons	1.147	10,453.000	No	132.0579924	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	E/ER	No	659	659	gallons	1	744.000	No	5.839649657	

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	NS	LE	No	38443	38443	gallons	1	48,548.000	No	340.6580452	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NS	None	No	21497	18742	gallons	1.147	20,222.000	No	198.8826301	
NNSA	112	Oakland Site Office	Lawrence Livermore National Laboratory	2002	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NS	None	No	383734	383734	gallons	1	486,449.000	No	3400.412931	
NNSA	112	Oakland Site Office - NNSA	Lawrence Livermore National Laboratory	2003	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	14523	12662	gallons	1.147	19,564.000	No	134.3616522	
NNSA	112	Oakland Site Office - NNSA	Lawrence Livermore National Laboratory	2003	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	1310	1310	gallons	1	2,030.000	No	11.60840827	
NNSA	112	Oakland Site Office - NNSA	Lawrence Livermore National Laboratory	2003	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	42239	42239	gallons	1	65,904.000	No	374.295845	
NNSA	112	Oakland Site Office - NNSA	Lawrence Livermore National Laboratory	2003	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	23058	20103	gallons	1.147	31,160.000	No	213.3244492	
NNSA	112	Oakland Site Office - NNSA	Lawrence Livermore National Laboratory	2003	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	374970	374970	gallons	1	581,204.000	No	3322.751794	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2004	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG	CA	None	No	2988	3600	hundred cubic feet	0.83	3,970.000	No	19.822392	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2004	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	6386	5568	gallons	1.147	6,960.000	No	59.08101018	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2004	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	43019	43019	gallons	1	64,098.000	No	381.2077217	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2004	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	30765	26822	gallons	1.147	33,528.000	No	284.6268835	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2004	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	353987	353987	gallons	1	527,441.000	No	3136.813449	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2004	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	1272	1272	gallons	1	3,078.000	No	11.27167582	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Alternative	Bio-diesel	B20	CA	None	No	796	707	gallons	1.126	2,436.000	No	5.892586335	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG	CA	None	No	2093	2522	hundred cubic feet	0.83	3,214.000	No	13.884962	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	B20	CA	None	No	3186	2829	gallons	1.126	9,742.000	Exempt	23.58515083	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5081	4430	gallons	1.147	8,860.000	No	47.00761239	

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	207	207	gallons	1	414.000	No	1.834305735	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	37255	37255	gallons	1	74,510.000	No	330.1307253	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	B20	CA	None	No	0	0	gallons	1.126	0.000	Covered	0	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	27700	24150	gallons	1.147	48,300.000	No	256.2705891	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2005	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	326594	326594	gallons	1	653,188.000	No	2894.073657	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2005	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	271	377	gallons	0.72	999.000	No	0.361862114	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2005	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	972	972	gallons	1	2,575.000	No	8.61326171	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	No	Alternative	CNG	CNG	CA	None	No	935	1127	hundred cubic feet	0.83	1,824.000	No	6.20279	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5139	4480	gallons	1.147	10,796.000	No	47.54420784	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	87	87	gallons	1	210.000	No	0.770940091	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	34096	34096	gallons	1	86,603.000	No	302.1376248	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	29991	26148	gallons	1.147	63,017.000	No	277.4661096	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2006	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	267553	267553	gallons	1	679,584.000	No	2370.888899	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2006	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	1184	1645	gallons	0.72	3,054.000	No	1.580976912	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2006	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	2779	2779	gallons	1	5,917.000	No	24.62577602	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	17835	24771	gallons	0.72	59,946.000	No	23.81480002	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5993	5225	gallons	1.147	13,271.000	No	55.44511337	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	266	232	gallons	1.147	589.000	No	2.460937787	

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NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	985	985	gallons	1	2,580.000	No	8.728459655	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	27329	27329	gallons	1	71,601.000	No	242.1726639	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	31717	27652	gallons	1.147	70,235.000	No	293.4344503	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2007	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	238620	238620	gallons	1	625,184.000	No	2114.502582	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2007	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	1099	1527	gallons	0.72	3,665.000	No	1.467477725	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2007	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	2800	2800	gallons	1	7,100.000	No	24.81186501	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	36873	51213	gallons	0.72	161,321.000	No	49.23594736	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	6116	5332	gallons	1.147	19,196.000	No	56.58306581	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	13	11	gallons	1.147	40.000	No	0.120271396	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	213	213	gallons	1	767.000	No	1.887474017	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	27551	27551	gallons	1	99,183.000	No	244.1398903	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	31584	27536	gallons	1.147	99,130.000	No	292.2039814	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2008	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	158586	158586	gallons	1	570,910.000	No	1405.290866	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2008	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	1099	1527	gallons	0.72	6,108.000	No	1.467477725	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2008	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	2800	2800	gallons	1	8,400.000	No	24.81186501	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2009	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	44386	61647	gallons	0.72	138,705.000	No	59.26794021	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2009	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	39257	34226	gallons	1.147	67,084.000	No	363.1918598	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2009	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	Yes	454	396	gallons	1.147	776.000	No	4.2002472	

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NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2009	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	122891	122891	gallons	1	301,082.000	No	1088.983894	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2009	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	520	722	gallons	0.72	1,137.000	No	0.694347968	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2009	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	202	202	gallons	1	600.000	No	1.789998833	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	17791	24710	gallons	0.72	62,517.000	No	23.7560475	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	44470	61764	gallons	0.72	156,265.000	No	59.38010412	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5614	4895	gallons	1.147	11,995.000	No	51.93873961	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	253	221	gallons	1.147	542.000	No	2.340666391	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	Yes	2736	2385	gallons	1.147	5,844.000	No	25.31250295	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	3994	3994	gallons	1	11,465.000	No	35.39235316	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	31696	27634	gallons	1.147	67,708.000	No	293.2401658	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2010	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	96611	96611	gallons	1	277,277.000	No	856.106818	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2010	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	711	711	gallons	1	2,144.000	No	6.300441436	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2010	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	LA	None	No	23	23	gallons	1	63.000	No	0.203811748	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2010	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NV	None	No	9	9	gallons	1	24.000	No	0.079752423	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	15862	22031	gallons	0.72	70,940.000	No	21.1802836	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	40329	56013	gallons	0.72	180,362.000	No	53.85069078	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	6025	5254	gallons	1.147	619.000	No	55.74116604	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	235	205	gallons	1.147	701.000	No	2.174136767	

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NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	101	101	gallons	1	25.000	No	0.894999416	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	8581	8581	gallons	1	31,149.000	No	76.03950487	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	29786	25969	gallons	1.147	69,262.000	No	275.5695223	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2011	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	94590	94590	gallons	1	342,766.000	No	838.1979683	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2011	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	21	30	gallons	0.72	0.000	No	0.028040976	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2011	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	497	497	gallons	1	1,794.000	No	4.404106039	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	14969	20790	gallons	0.72	72351	No	19.98787449	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	43381	60252	gallons	0.72	209678	No	57.92597924	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	7274	6342	gallons	1.147	426	No	67.29647166	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	3229	2815	gallons	1.147	9715	No	29.87356434	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	E/ER	No	318	318	gallons	1	0	No	2.817918954	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	8085	8085	gallons	1	31209	No	71.64426021	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	27110	23636	gallons	1.147	67355	No	250.8121181	
NNSA	112	NNSA Service Center - Albuquerque	Lawrence Livermore National Laboratory	2012	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	89992	89992	gallons	1	347163	No	797.4533414	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2012	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	181	251	gallons	0.72	708	No	0.241686504	
NNSA	112	NNSA Service Center - Albuquerque	Livermore Site Office	2012	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	782	782	gallons	1	3167	No	6.929599442	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	15243	21170	gallons	0.72	86226	No	20.35374246	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	39989	55539	gallons	0.72	226371	No	53.39669403	

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NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	TN	None	No	14	19	gallons	0.72	70	No	0.018693984	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	7029	6127	gallons	1.147	140	No	65.02981844	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	LE	No	316	275	gallons	1.147	1099	No	2.923520078	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	3437	3437	gallons	1	14921	No	30.4565643	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	28706	25026	gallons	1.147	93487	No	265.5777448	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NV	None	No	129	112	gallons	1.147	455	No	1.19346231	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	VA	None	No	163	140	gallons	1.147	545	No	1.508018268	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	AZ	None	No	165	165	gallons	1	640	No	1.462127759	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	73214	73214	gallons	1	320747	No	648.7771017	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	ID	None	No	86	86	gallons	1	292	No	0.762078711	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NV	None	No	269	269	gallons	1	988	No	2.383711317	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	SC	None	No	76	76	gallons	1	276	No	0.673464907	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	SD	None	No	619	619	gallons	1	1939	No	5.485194443	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	TN	None	No	8	8	gallons	1	32	No	0.070891043	
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	VA	None	No	8	8	gallons	1	29	No	0.070891043	
NNSA	112	NNSA Complex-Albuquerque	Livermore Site Office	2013	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	41	57	gallons	0.72	233	No	0.054746667	
NNSA	112	NNSA Complex-Albuquerque	Livermore Site Office	2013	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	499	499	gallons	1	2003	No	4.4218288	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	18,944	26,312	gallons	0.72	$101,435.00	No	25.29588243	

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NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	53,761	74,667	gallons	0.72	$288,145.00	No	71.78694761	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	DE	None	No	26	36	gallons	0.72	$115.00	No	0.034717744	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	NM	None	No	16	21	gallons	0.72	$74.00	No	0.021364766	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	TN	None	No	12	16	gallons	0.72	$55.00	No	0.016023574	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5,294	4,615	gallons	1.147	$16,208.00	No	48.97718752	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	3,166	3,166	gallons	1	$12,634.00	No	28.04850366	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	AZ	None	No	361	313	gallons	1.15	$1,215.00	No	3.339774215	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	22,681	19,771	gallons	1.15	$73,182.00	No	209.8321855	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NM	None	No	326	281	gallons	1.15	$1,017.00	No	3.015973391	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NV	None	No	135	116	gallons	1.15	$457.00	No	1.248946036	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	VA	None	No	172	147	gallons	1.15	$535.00	No	1.591249765	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	AL	None	No	27	27	gallons	1	95.000	No	0.239200758	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	AR	None	No	147	147	gallons	1	486.000	No	1.302315236	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	AZ	None	No	301	301	gallons	1	1,145.000	No	2.666645483	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	92740	92740	gallons	1	368,781.000	No	821.6103061	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	GA	None	No	30	30	gallons	1	113.000	No	0.26577862	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	ID	None	No	97	97	gallons	1	340.000	No	0.85935087	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	MS	None	No	28	28	gallons	1	102.000	No	0.248060045	

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NC	None	No	27	27	gallons	1	96.000	No	0.239200758	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NM	None	No	303	303	gallons	1	1,046.000	No	2.684364058	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NV	None	No	241	241	gallons	1	881.000	No	2.135088244	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	OK	None	No	180	180	gallons	1	584.000	No	1.594671718	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	OR	None	No	44	44	gallons	1	147.000	No	0.389808642	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	SC	None	No	22	22	gallons	1	73.000	No	0.194904321	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	SD	None	No	307	307	gallons	1	987.000	No	2.719801207	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	TN	None	No	213	213	gallons	1	718.000	No	1.887028199	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	TX	None	No	105	105	gallons	1	345.000	No	0.930225169	
NNSA	112	NNSA Fleets	Livermore Site Office	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	24	34	gallons	0.72	121.000	No	0.032047148	
NNSA	112	NNSA Fleets	Livermore Site Office	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	751	751	gallons	1	2,969.000	No	6.653324777	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	AZ	None	No	1187.145	1035	gallons	1.147	3255.00	No	10.98281513	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	AZ	None	No	256	256	gallons	1	607.00	No	2.267977554	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	31008.70914	27034.62	gallons	1.147	79648.63	No	286.8755879	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	6038.57649	5264.67	gallons	1.147	13456.82	No	55.86560127	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Alternative	E-85	E85	CA	None	No	69958.8	97165	gallons	0.72	306614.00	No	93.41583509	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	22684.32	31506	gallons	0.72	99390.00	No	30.29032368	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	CA	None	No	72055	72055	gallons	1	246589.00	No	638.3559478	

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	GAS	CA	LE	No	1932	1932	gallons	1	6597.00	No	17.1161431	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Alternative	E-85	E85	DE	None	No	140.4	195	gallons	0.72	516.00	No	0.187475818	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Alternative	E-85	E85	FL	None	No	38.16	53	gallons	0.72	133.00	No	0.050954966	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	IA	None	No	40	40	gallons	1	113.00	No	0.354371493	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	IA	None	No	209	209	gallons	1	525.00	No	1.85159105	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	IL	None	No	23	23	gallons	1	67.00	No	0.203763608	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	IN	None	No	42	42	gallons	1	100.00	No	0.372090067	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	KY	None	No	24	24	gallons	1	62.00	No	0.212622896	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	MD	None	No	15	15	gallons	1	31.00	No	0.13288931	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	MO	None	No	60	60	gallons	1	143.00	No	0.531557239	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NE	None	No	115	115	gallons	1	285.00	No	1.018818042	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NM	None	No	1458.984	1272	gallons	1.147	3809.00	No	13.49772062	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NM	None	No	176	176	gallons	1	419.00	No	1.559234568	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NV	None	No	205.313	179	gallons	1.147	542.00	No	1.899443389	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Alternative	E-85	E85	NV	None	No	498.24	692	gallons	0.72	1759.00	No	0.6652988	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	NV	None	No	459	459	gallons	1	1404.00	No	4.06641288	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	OH	None	No	33	33	gallons	1	86.00	No	0.292356482	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	PA	None	No	64	64	gallons	1	173.00	No	0.566994388	

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural	Fuel GGE Conversion	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$	2014 Review
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	SD	None	No	385	385	gallons	1	953.00	No	3.410825618	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	UT	None	No	45	45	gallons	1	138.00	No	0.398667929	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	VA	None	No	112.406	98	gallons	1.147	294.00	No	1.039918727	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	VA	None	No	1287	1287	gallons	1	3308.00	No	11.40190278	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	WV	None	No	26	26	gallons	1	67.00	No	0.23034147	
NNSA	112	NNSA Fleets	Lawrence Livermore National Laboratory	2015	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	GAS	WY	None	No	95	95	gallons	1	284.00	No	0.841632295	

EISA Section 432 - Compliance Path

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Please strategize and plan for your 4-year period by updating the FIMS list below and identifying covered facilities, estimating energy consumption, providing anticipated evaluation year and type/level including re-/retro-commissioning and benchmarking status. Sites will be provided the option to update or use information provided in December for their EISA Section 432 June snapshot reporting.

Key:	
Light Green	Pre-populated data by SPO to be reviewed and updated with changes highlighted in blue.
Orange	Fields that need to reviewed and updated with changes highlighted in blue.
Yellow	Optional data field to be completed, if applicable and available.
Red	Calculated fields. No action required.

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	205181	8	LLNS OFF-SITE OFFICE		B	3,156	3,156	-		112	NNSA	NNSA	C	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89542	41	LONG TERM STORAGE		B	25,555	25,555	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89544	71	WESTGATE BADGE OFFICE		B	4,166	4,166	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89546	110	STORAGE		B	153	153	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89547	111	DIRECTORS OFFICE		B	112,418	112,418	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	203771	112	COMPUTER CENTER		B	45,512	45,512	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89548	113	G.S		B	44,426	44,426	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89549	115	COMPUTATION FACILITY BLDG		B	17,140	17,140	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89550	116	G.S		B	7,781	7,781	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89551	117	COMPUTATION FACILITY BLDG		B	11,370	11,370	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89552	118	TELECONFERENCE FACILITY		B	1,505	1,505	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89553	121	PAT OFFICE		B	90,759	90,759	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89554	122	PROTOCOL OFFICE		B	962	962	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89555	123	AUDITORIUM		B	7,742	7,742	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89556	125	WEST CAFETERIA		B	12,513	12,513	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89561	131	ENGINEERING		B	285,308	285,308	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89563	133	CENTRAL PLANT/DPRF/NTTC		B	5,631	5,631	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	125727	134	G.S/STORAGE		B	1,284	1,284	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	125728	135	G.S/STORAGE		B	1,369	1,369	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	143668	140	G.S		B	66,660	66,660	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89576	141	ELECTRONIC SHOPS		B	47,342	47,342	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	143756	142	PAT		B	20,306	20,306	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89589	151	ISOTOPE SCIENCES FACILITY		B	96,018	96,018	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89590	152	GENERATOR HOUSE		B	751	751	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89593	153	MICROFABRICATION LAB		B	25,976	25,976	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89594	154	BIO SECURITY & NANOSCIENCES LA		B	9,450	9,450	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	141490	155	ISF OFFICE		B	21,742	21,742	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89599	161	JUPITER LASER SUPPORT		B	6,105	6,105	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89600	162	RESEARCH/CRYSTAL GTH		B	19,042	19,042	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89605	164	MACHINE SHOP		B	207	207	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89606	165	OPTICS/DEVELOPMENT LAB		B	10,053	10,053	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89607	166	DEVELOPMENT LAB		B	13,226	13,226	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	125923	170	NARAC FACILITY		B	43,760	43,760	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89626	173	PAT WELD SHOP		B	413	413	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89634	174	PAT		B	19,332	19,332	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89635	175	IMF MANAGED LAB		B	16,656	16,656	-		112	NNSA	NNSA	O	N	Operating	9999	Livermore	CA
Lawrence Livermore National Laboratory	89636	176	PAT SHOP		B	3,973	3,973	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89638	179	PAT		B	2,720	2,720	-		112		NNSA	O	N	Operating		Livermore	CA

EISA Section 432 - Compliance Path

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Please strategize and plan for your 4-year period by updating the FIMS list
consumption, providing anticipated evaluation year and type/level including re-/retro-con
the option to update or use information provided in December for their EISA Section 43

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	205181	8	LLNS OFF-SITE OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89542	41	LONG TERM STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89544	71	WESTGATE BADGE OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89546	110	STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89547	111	DIRECTORS OFFICE	Covered	13,034.732	1,355.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	203771	112	COMPUTER CENTER	Covered	20,418.176	55.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89548	113	G.S	Covered	11,917.417	425.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	Please update evaluation date.
Lawrence Livermore National Laboratory	89549	115	COMPUTATION FACILITY BLDG	Covered	2,805.029	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89550	116	G.S	Not Covered		-										
Lawrence Livermore National Laboratory	89551	117	COMPUTATION FACILITY BLDG	Covered	15,280.536		03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89552	118	TELECONFERENCE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89553	121	PAT OFFICE	Covered	15,788.495	790.000	03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89554	122	PROTOCOL OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89555	123	AUDITORIUM	Not Covered		-										
Lawrence Livermore National Laboratory	89556	125	WEST CAFETERIA	Not Covered		-										
Lawrence Livermore National Laboratory	89561	131	ENGINEERING	Covered	57,162.721	2,285.000	03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89563	133	CENTRAL PLANT/DPRF/NTTC	Covered	51,529.954	4,390.721	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	125727	134	G.S/STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	125728	135	G.S/STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	143668	140	G.S	Covered	7,984.513	820.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89576	141	ELECTRONIC SHOPS	Covered	4,179.765	415.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	143756	142	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89589	151	ISOTOPE SCIENCES FACILITY	Covered	30,692.582	430.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89590	152	GENERATOR HOUSE	Not Covered		-										
Lawrence Livermore National Laboratory	89593	153	MICROFABRICATION LAB	Covered	20,405.411		FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89594	154	BIO SECURITY & NANOSCIENCES LA	Not Covered		-										
Lawrence Livermore National Laboratory	141490	155	ISF OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89599	161	JUPITER LASER SUPPORT	Not Covered		-										
Lawrence Livermore National Laboratory	89600	162	RESEARCH/CRYSTAL GTH	Covered	2,026.912		FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89605	164	MACHINE SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89606	165	OPTICS/DEVELOPMENT LAB	Not Covered		-										
Lawrence Livermore National Laboratory	89607	166	DEVELOPMENT LAB	Not Covered		-										
Lawrence Livermore National Laboratory	125923	170	NARAC FACILITY	Covered	7,856.194	445.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	Please update evaluation date.
Lawrence Livermore National Laboratory	89626	173	PAT WELD SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89634	174	PAT	Covered	4,614.095		FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89635	175	IMF MANAGED LAB	Not Covered		-										
Lawrence Livermore National Laboratory	89636	176	PAT SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89638	179	PAT	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	89640	181	PAT		B	13,532	13,532	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89641	182	VACANT		B	1,958	1,958	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89657	190	CAMS FACILITY		B	10,252	10,252	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89658	191	HEAF		B	121,028	121,028	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89662	194	PAT		B	41,543	41,543	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89664	195	EPD/ORAD SHOP		B	400	400	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89665	196	EPD/ORAD SRVC-MNTRNG STAT		B	853	853	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89666	197	IMF MANAGED LAB FACILITY		B	10,716	10,716	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89668	198	MACHINE SHOP		B	966	966	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	133205	211	PAT		B	14,122	14,122	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89671	212	VACANT		B	3,770	3,770	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89674	214	VACANT		B	4,837	4,837	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89676	216	CYBER SECURITY		B	18,976	18,976	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89677	217	VACANT		B	17,999	17,999	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89680	218	VACANT		B	17,956	17,956	-		112	NNSA	NNSA	O	N	Operationa		Livermore	CA
Lawrence Livermore National Laboratory	89682	219	IMF MANAGED OFFICE FACILITY		B	18,429	18,429	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89684	221	VACANT		B	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89699	231	DEVLMT & ASSBLY ENGNG		B	142,403	142,403	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89701	233	MATERIALS MANAGEMENT		B	4,933	4,933	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	125924	234	MATERIALS MGMT OFFICE		B	5,261	5,261	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89702	235	MRDF		B	88,175	88,175	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89703	239	RADIOGRAPHY		B	12,517	12,517	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89707	241	VACANT		B	54,369	54,369	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	201413	242	OFFICE		B	20,328	20,328	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89711	243	E&E LAB SPACE		B	20,000	20,000	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89714	251	VACANT		B	31,120	31,120	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89640	181	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89641	182	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89657	190	CAMS FACILITY	Covered	751.084		FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89658	191	HEAF	Covered	14,295.542	580.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	Please update evaluation date.
Lawrence Livermore National Laboratory	89662	194	PAT	Covered	13,144.131	85.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89664	195	EPD/ORAD SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89665	196	EPD/ORAD SRVC-MNTRNG STAT	Not Covered		-										
Lawrence Livermore National Laboratory	89666	197	IMF MANAGED LAB FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89668	198	MACHINE SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	133205	211	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89671	212	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89674	214	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89676	216	CYBER SECURITY	Covered	1,973.207		FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89677	217	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89680	218	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89682	219	IMF MANAGED OFFICE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89684	221	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89699	231	DEVLMT & ASSBLY ENGNG	Covered	16,390.044	345.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89701	233	MATERIALS MANAGEMENT	Not Covered		-										
Lawrence Livermore National Laboratory	125924	234	MATERIALS MGMT OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89702	235	MRDF	Covered	3,146.639	570.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89703	239	RADIOGRAPHY	Not Covered		-										
Lawrence Livermore National Laboratory	89707	241	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	201413	242	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89711	243	E&E LAB SPACE	Not Covered		-										
Lawrence Livermore National Laboratory	89714	251	VACANT	Not Covered												

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Lawrence Livermore National Laboratory	89716	252	HC/SHIPNG/RECEIVNG SHED		B	192	192	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89722	253	HC DEPT OFFICES & LABS		B	30,932	30,932	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89724	254	HC BIO ASSAY LAB		B	2,488	2,488	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89725	255	HC SPD LABS-OFFICES		B	21,855	21,855	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89727	256	TELCOM NODE #1		B	5,937	5,937	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89731	261	VACANT		B	52,655	52,655	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	140543	262	G.S		B	10,882	10,882	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90072	263	VACANT		B	51	51	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	202401	264	ESH OFFICES		B	20,461	20,461	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89744	271	PROTECTIVE FORCE		B	18,874	18,874	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89746	272	PAT		B	10,124	10,124	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89747	274	SECURITY ADMINISTRATION		B	21,436	21,436	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89752	280	VACANT		B	5,341	5,341	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89757	281	LABORATORY		B	18,505	18,505	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89758	282	PAT		B	2,160	2,160	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89761	292	CAMS LAB FACILITY		B	20,811	20,811	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89763	293	CAMS LAB FACILITY		B	800	800	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89764	294	CAMS LAB FACILITY		B	970	970	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89765	297	PAPER DISPOSAL		B	992	992	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89767	298	TARGET FABRICATION		B	47,986	47,986	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89768	311	DOE OFFICES		B	40,951	40,951	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89769	312	IMF MANAGED FACILITY		B	11,482	11,482	-		112	NNSA	NNSA	O	N	Operating	9999	Livermore	CA
Lawrence Livermore National Laboratory	89770	313	REGIONAL DISPATCH CENTER		B	4,352	4,352	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89771	314	DIR.OFF/QA		B	13,238	13,238	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89772	315	ESH ENVIRONMENTAL PROT		B	18,133	18,133	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89774	316	DIRECTORS OFFICE		B	14,090	14,090	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89775	317	NETWORKING GROUP FACILITY		B	1,426	1,426	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89777	318	POOL CHANGE ROOM		B	6,112	6,112	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89782	319	IMF MANAGED OFFICE FACILITY		B	18,048	18,048	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89788	322	PLATING SHOP		B	5,704	5,704	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89792	323	EMERGENCY SERVICES / FIRE STAT		B	18,555	18,555	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89793	324	EMERGENCY SERVICES / ALARMS O		B	11,290	11,290	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89794	326	VACANT		B	3,516	3,516	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89795	327	RADIOGRAPHY		B	19,100	19,100	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89800	329	LASER WELD SHOP		B	5,150	5,150	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89801	331	TRITIUM FACILITY		B	30,484	30,484	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89802	332	PU FACILITY		B	104,787	104,787	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89803	334	HETB		B	10,668	10,668	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89804	335	SUPPORT FACILITY		B	11,988	11,988	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89805	336	SOUTH SECURITY PORTAL		B	792	792	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89806	337	NW SECURITY PORTAL		B	792	792	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89808	341	VACANT		B	44,184	44,184	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89716	252	HC/SHIPNG/RECEIVNG SHED	Not Covered		-										
Lawrence Livermore National Laboratory	89722	253	HC DEPT OFFICES & LABS	Covered	4,418.226	250.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89724	254	HC BIO ASSAY LAB	Not Covered		-										
Lawrence Livermore National Laboratory	89725	255	HC SPD LABS-OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89727	256	TELCOM NODE #1	Covered	4,278.996	N/A	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89731	261	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	140543	262	G.S	Not Covered		-										
Lawrence Livermore National Laboratory	90072	263	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	202401	264	ESH OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89744	271	PROTECTIVE FORCE	Not Covered		-										
Lawrence Livermore National Laboratory	89746	272	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89747	274	SECURITY ADMINISTRATION	Not Covered		-										
Lawrence Livermore National Laboratory	89752	280	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89757	281	LABORATORY	Not Covered		-										
Lawrence Livermore National Laboratory	89758	282	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89761	292	CAMS LAB FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89763	293	CAMS LAB FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89764	294	CAMS LAB FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89765	297	PAPER DISPOSAL	Not Covered		-										
Lawrence Livermore National Laboratory	89767	298	TARGET FABRICATION	Covered	18,241.599	185.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89768	311	DOE OFFICES	Not Covered												
Lawrence Livermore National Laboratory	89769	312	IMF MANAGED FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89770	313	REGIONAL DISPATCH CENTER	Not Covered		-										
Lawrence Livermore National Laboratory	89771	314	DIR.OFF/QA	Not Covered		-										
Lawrence Livermore National Laboratory	89772	315	ESH ENVIRONMENTAL PROT	Not Covered		-										
Lawrence Livermore National Laboratory	89774	316	DIRECTORS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89775	317	NETWORKING GROUP FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89777	318	POOL CHANGE ROOM	Not Covered		-										
Lawrence Livermore National Laboratory	89782	319	IMF MANAGED OFFICE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89788	322	PLATING SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89792	323	EMERGENCY SERVICES / FIRE STAT	Not Covered		-										
Lawrence Livermore National Laboratory	89793	324	EMERGENCY SERVICES / ALARMS O	Not Covered		-										
Lawrence Livermore National Laboratory	89794	326	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89795	327	RADIOGRAPHY	Not Covered		-										
Lawrence Livermore National Laboratory	89800	329	LASER WELD SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89801	331	TRITIUM FACILITY	Covered	8,543.985	170.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89802	332	PU FACILITY	Covered	13,443.106	225.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89803	334	HETB	Covered	2,090.160		FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89804	335	SUPPORT FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89805	336	SOUTH SECURITY PORTAL	Not Covered		-										
Lawrence Livermore National Laboratory	89806	337	NW SECURITY PORTAL	Not Covered		-										
Lawrence Livermore National Laboratory	89808	341	VACANT	Not Covered												

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Lawrence Livermore National Laboratory	89812	343	IMF MANAGED OFFICE/LAB FACILITY		B	27,368	27,368	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89813	345	VACANT		B	9,467	9,467	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89821	361	BIOSCIENCES RESEARCH		B	68,889	68,889	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89822	362	BIOSCIENCES RESEARCH		B	3,766	3,766	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89824	363	VACANT		B	1,584	1,584	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89825	364	BIOSCIENCES RESEARCH		B	10,932	10,932	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89827	365	G.S/BIO LAB		B	8,825	8,825	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89828	366	BIOSCIENCES RESEARCH		B	2,631	2,631	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89829	367	VACANT		B	629	629	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	202152	368	G.S/BSL-3 LABORATORY		B	1,590	1,590	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89839	373	BIO WAREHOUSE		B	1,768	1,768	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89841	376	VACANT		B	1,575	1,575	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89845	378	LAB SPACE		B	3,840	3,840	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89846	379	LAB SPACE		B	1,500	1,500	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89847	381	OFFICE/RESEARCH		B	95,421	95,421	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89848	382	TECH SUPPORT		B	292	292	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89849	383	MACHINE SHOP		B	6,715	6,715	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89855	391	DEVELOPMENT LABS		B	197,841	197,841	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89856	392	OPTICS LABORATORY		B	8,413	8,413	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89861	404	MUSD / BATTERY SHOP / WAREHOUS		B	6,460	6,460	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89862	405	INDUSTRIAL ELECTRONICS		B	8,636	8,636	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89863	406	VACANT		B	345	345	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89868	411	SHIPPING/RECEIVING		B	71,625	71,625	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89874	415	EMPLOYEE RESOURCES		B	19,297	19,297	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89878	418	MUSD PAINT SHOP		B	12,414	12,414	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89888	423	PAT MACHINE SHOP		B	7,791	7,791	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89812	343	IMF MANAGED OFFICE/LAB FACILITY	Not Covered												
Lawrence Livermore National Laboratory	89813	345	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89821	361	BIOSCIENCES RESEARCH	Covered	13,279.111	435.000	03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89822	362	BIOSCIENCES RESEARCH	Not Covered		-										
Lawrence Livermore National Laboratory	89824	363	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89825	364	BIOSCIENCES RESEARCH	Not Covered		-										
Lawrence Livermore National Laboratory	89827	365	G.S/BIO LAB	Not Covered		-										
Lawrence Livermore National Laboratory	89828	366	BIOSCIENCES RESEARCH	Not Covered		-										
Lawrence Livermore National Laboratory	89829	367	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	202152	368	G.S/BSL-3 LABORATORY	Not Covered		-										
Lawrence Livermore National Laboratory	89839	373	BIO WAREHOUSE	Not Covered		-										
Lawrence Livermore National Laboratory	89841	376	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89845	378	LAB SPACE	Not Covered		-										
Lawrence Livermore National Laboratory	89846	379	LAB SPACE	Not Covered		-										
Lawrence Livermore National Laboratory	89847	381	OFFICE/RESEARCH	Covered	36,171.869	585.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89848	382	TECH SUPPORT	Not Covered		-										
Lawrence Livermore National Laboratory	89849	383	MACHINE SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89855	391	DEVELOPMENT LABS	Covered	39,667.700	390.000	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	Please update evaluation date.
Lawrence Livermore National Laboratory	89856	392	OPTICS LABORATORY	Covered	6,370.757		FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89861	404	MUSD / BATTERY SHOP / WAREHOUS	Not Covered		-										
Lawrence Livermore National Laboratory	89862	405	INDUSTRIAL ELECTRONICS	Not Covered		-										
Lawrence Livermore National Laboratory	89863	406	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89868	411	SHIPPING/RECEIVING	Not Covered												
Lawrence Livermore National Laboratory	89874	415	EMPLOYEE RESOURCES	Not Covered		-										
Lawrence Livermore National Laboratory	89878	418	MUSD PAINT SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89888	423	PAT MACHINE SHOP	Not Covered		-										

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Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	89891	431	ACCELERATOR RESCH CNTR		B	54,545	54,545	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89893	432	IMF MANAGED LAB FACILITY		B	33,575	33,575	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89896	433	LABOR ONLY METAL SHOP		B	5,793	5,793	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89897	435	VACANT		B	57,724	57,724	-		112	SC	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89898	436	AXION		B	9,745	9,745	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89901	438	ERD OFC-FIELD OPERATIONS		B	16,262	16,262	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89908	439	INSTITUTIONAL COMPUTING/ARCHIV		B	12,055	12,055	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89913	442	ERD / D&D OPERATIONS		B	4,169	4,169	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89914	443	VACANT		B	8,953	8,953	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89915	444	VACANT		B	805	805	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89918	445	VACANT		B	5,100	5,100	-		112	NNSA	NNSA	O	N	Operationa	9999	Livermore	CA
Lawrence Livermore National Laboratory	89919	446	VACANT		B	1,743	1,743	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89922	451	COMPUTATION FACILITY BLDG	G - Meterec	B	51,398	29,177	22,221	Electric metered data has been identified via review of 1-line diagrams and coordination with the facility management team and reports from dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-90 data	112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90062	452	COMPUTATION FACILITY BLDG.		B	492	492	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	200806	453	TERA SCALE FACILITY	G - Meterec	B	240,598	192,598	48,000	TSF facilities include B453 and OS 454. Electric metered data has been identified via review of 1-line diagrams and coordination with dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-90 data	112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	143564	471	CENTRAL CAFETERIA		B	16,086	16,086	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89931	473	VACANT		B	205	205	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89932	481	OFFICE		B	61,165	61,165	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89933	482	OFFICE		B	108,000	108,000	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89934	490	IMF MANAGED LAB FACILITY		B	216,789	216,789	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89937	491	VACANT		B	13,259	13,259	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89938	492	VACANT		B	9,550	9,550	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89942	493	SUPPORT FACILITY/STORAGE		B	19,100	19,100	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89943	494	STORAGE		B	29,961	29,961	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	137823	501	DUS OFFICE		T	210	210	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89945	509	MUSD SHEET MTL SHOP STO		B	254	254	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89946	510	MUSD / FACS / UPS BATTERY BANK		B	144	144	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89951	511	MUSD / CRAFTS SHOP		B	77,078	77,078	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89952	512	MUSD / CRAFTS SUPPLIES		B	5,896	5,896	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89958	515	MUSD / CRAFTS STORAGE		B	8,409	8,409	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89959	516	PE/CRAFTS FACILITY/ME		B	6,496	6,496	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89960	517	ELECT UTILITY OFFICES		B	6,090	6,090	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89965	519	MUSD / HEAVY EQUIPMENT REPAIR		B	10,006	10,006	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89966	520	MUSD / PESTICIDE STORAGE		B	400	400	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89968	522	LABOR ONLY RESTROOM FACILITY		B	516	516	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89971	523	LABOR ONLY / WELD / CARPTRY WK		B	3,507	3,507	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

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Lawrence Livermore National Laboratory	89891	431	ACCELERATOR RESCH CNTR	Not Covered		-										
Lawrence Livermore National Laboratory	89893	432	IMF MANAGED LAB FACILITY	Covered	3,158.038	60.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89896	433	LABOR ONLY METAL SHOP	Not Covered		-										
Lawrence Livermore National Laboratory	89897	435	VACANT	Not Covered												
Lawrence Livermore National Laboratory	89898	436	AXION	Not Covered		-										
Lawrence Livermore National Laboratory	89901	438	ERD OFC-FIELD OPERATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	89908	439	INSTITUTIONAL COMPUTING/ARCHIV	Covered	19,323.166		03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89913	442	ERD / D&D OPERATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	89914	443	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89915	444	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89918	445	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89919	446	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89922	451	COMPUTATION FACILITY BLDG	Covered	72,839.027	390.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	90062	452	COMPUTATION FACILITY BLDG.	Not Covered		-										
Lawrence Livermore National Laboratory	200806	453	TERA SCALE FACILITY	Covered	378,529.091	1,260.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	143564	471	CENTRAL CAFETERIA	Not Covered		-										
Lawrence Livermore National Laboratory	89931	473	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89932	481	OFFICE	Covered	2,610.330	765.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89933	482	OFFICE	Covered	6,726.413	1,595.000	03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89934	490	IMF MANAGED LAB FACILITY	Covered	35,362.188	1,055.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89937	491	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89938	492	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89942	493	SUPPORT FACILITY/STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89943	494	STORAGE	Not Covered												
Lawrence Livermore National Laboratory	137823	501	DUS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89945	509	MUSD SHEET MTL SHOP STO	Not Covered		-										
Lawrence Livermore National Laboratory	89946	510	MUSD / FACS / UPS BATTERY BANK	Not Covered		-										
Lawrence Livermore National Laboratory	89951	511	MUSD / CRAFTS SHOP	Covered	2,836.454	590.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89952	512	MUSD / CRAFTS SUPPLIES	Not Covered		-										
Lawrence Livermore National Laboratory	89958	515	MUSD / CRAFTS STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89959	516	PE/CRAFTS FACILITY/ME	Not Covered		-										
Lawrence Livermore National Laboratory	89960	517	ELECT UTILITY OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89965	519	MUSD / HEAVY EQUIPMENT REPAIR	Not Covered		-										
Lawrence Livermore National Laboratory	89966	520	MUSD / PESTICIDE STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89968	522	LABOR ONLY RESTROOM FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89971	523	LABOR ONLY / WELD / CARPTRY WK	Not Covered		-										

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Lawrence Livermore National Laboratory	89972	525	LABOR ONLY ELECT		B	1,080	1,080	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89973	531	ICS OFFICE		B	12,381	12,381	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	136930	532	EPD/ORAD SERVICE BLDG		T	215	215	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89975	533	EPD/DO STORAGE		B	320	320	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89978	543	O&B / PFS / SHMR OFFICES		B	78,261	78,261	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89985	571	NIF OFFICE		B	41,407	41,407	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	140320	581	THE NATIONAL IGNITION FACILITY	G - Metere	B	696,968	3,796	693,172	Electric power and natural gas consumptic	112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	140857	582	SERVICE BUILDING		B	2,933	2,933	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	203637	583	OFFICE		B	21,793	21,793	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89992	591	NIF STORAGE		B	3,200	3,200	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90003	597	ERD CORP YARD		B	260	260	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	143692	610	TRUCK INSPECTION STATION		B	4,314	4,314	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90016	611	AUTO FLEET MAINTENANCE		B	15,018	15,018	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90017	612	EPD/RHWM WASTE TSDF		B	7,015	7,015	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90021	614	EPD/RHWM WASTE TSDF		B	1,221	1,221	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90022	615	DUS OFFICE		B	3,525	3,525	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90023	616	DONATION UTIL&SALES		B	2,273	2,273	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	90027	619	DONATION UTIL&SALES		B	2,038	2,038	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	140321	622	F&I CORP. YARD		B	1,033	1,033	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90029	624	EPD/RHWM OFFICE		B	240	240	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90030	625	EPD/RHWM WASTE TSDF		B	4,854	4,854	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90035	651	VISITOR CENTER		B	2,381	2,381	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90036	652	PUBLIC AFFAIRS STORAGE		B	208	208	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	202698	653	EPD SAMPLE STAGING		T	96	96	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90040	663	HEALTH SERVICES		B	24,786	24,786	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90041	671	PROCUREMENT		B	41,476	41,476	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	137350	681	OPTICS ASSEMBLY BLDG	G - Metere	B	46,819	46,819	46,819	Electric power and natural gas consumptic	112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	140859	684	CHEMICAL STORAGE		B	278	278	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90042	691	IMF MANAGED LAB FACILITY		B	18,437	18,437	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90044	693	EPD/RHWM WASTE STORAGE		B	12,000	12,000	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	132382	694	EPD/RHWM OFFICE		B	10,590	10,590	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	140676	695	EPD/RHWM LIQUID WST PROCSSING		B	46,504	46,504	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	135831	696	EPD/RHWM WST PRCSSING-SOLID		B	21,381	21,381	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	135832	697	EPD/RHWM WRHS-CHEM EXCHG		B	4,118	4,118	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90524	803	EPD/ORAD STRG WRHS		B	1,719	1,719	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90525	804	STAGING AREA		B	107	107	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90526	805	INERT MACHNG/EXPLVS WST PACKN		B	6,830	6,830	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90528	807	HE MACHINING		B	1,575	1,575	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90533	811	VACANT		B	1,081	1,081	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90537	813	CHANGE HOUSE		B	2,870	2,870	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131384	816	EXPLSE WASTE STRG FAC		B	1,223	1,223	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90543	819	PE/STORAGE-C&M SHOPS		B	828	828	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89972	525	LABOR ONLY ELECT	Not Covered		-										
Lawrence Livermore National Laboratory	89973	531	ICS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	136930	532	EPD/ORAD SERVICE BLDG	Not Covered		-										
Lawrence Livermore National Laboratory	89975	533	EPD/DO STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89978	543	O&B / PFS / SHMR OFFICES	Covered	4,489.315	1,105.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89985	571	NIF OFFICE	Not Covered												
Lawrence Livermore National Laboratory	140320	581	THE NATIONAL IGNITION FACILITY	Covered	102,957.829	400.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	140857	582	SERVICE BUILDING	Not Covered		-										
Lawrence Livermore National Laboratory	203637	583	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89992	591	NIF STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	90003	597	ERD CORP YARD	Not Covered		-										
Lawrence Livermore National Laboratory	143692	610	TRUCK INSPECTION STATION	Not Covered		-										
Lawrence Livermore National Laboratory	90016	611	AUTO FLEET MAINTENANCE	Not Covered		-										
Lawrence Livermore National Laboratory	90017	612	EPD/RHWM WASTE TSDF	Not Covered		-										
Lawrence Livermore National Laboratory	90021	614	EPD/RHWM WASTE TSDF	Not Covered		-										
Lawrence Livermore National Laboratory	90022	615	DUS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	90023	616	DONATION UTIL&SALES	Not Covered		-										
Lawrence Livermore National Laboratory	90027	619	DONATION UTIL&SALES	Not Covered		-										
Lawrence Livermore National Laboratory	140321	622	F&I CORP. YARD	Not Covered		-										
Lawrence Livermore National Laboratory	90029	624	EPD/RHWM OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	90030	625	EPD/RHWM WASTE TSDF	Not Covered		-										
Lawrence Livermore National Laboratory	90035	651	VISITOR CENTER	Not Covered		-										
Lawrence Livermore National Laboratory	90036	652	PUBLIC AFFAIRS STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	202698	653	EPD SAMPLE STAGING	Not Covered		-										
Lawrence Livermore National Laboratory	90040	663	HEALTH SERVICES	Not Covered		-										
Lawrence Livermore National Laboratory	90041	671	PROCUREMENT	Covered	2,223.474	870.000	FY2016	FY2016	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	137350	681	OPTICS ASSEMBLY BLDG	Covered	5,246.748	60.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	140859	684	CHEMICAL STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	90042	691	IMF MANAGED LAB FACILITY	Not Covered		-							2011	Facility not benchmarked		
Lawrence Livermore National Laboratory	90044	693	EPD/RHWM WASTE STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	132382	694	EPD/RHWM OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	140676	695	EPD/RHWM LIQUID WST PROCSSING	Covered	23,417.459	30.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	135831	696	EPD/RHWM WST PRCSSING-SOLID	Not Covered		-										
Lawrence Livermore National Laboratory	135832	697	EPD/RHWM WRHS-CHEM EXCHG	Not Covered		-										
Lawrence Livermore Lab Site 300	90524	803	EPD/ORAD STRG WRHS	Not Covered		-										
Lawrence Livermore Lab Site 300	90525	804	STAGING AREA	Not Covered		-										
Lawrence Livermore Lab Site 300	90526	805	INERT MACHNG/EXPLVS WST PACKN	Not Covered		-										
Lawrence Livermore Lab Site 300	90528	807	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	90533	811	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90537	813	CHANGE HOUSE	Not Covered		-										
Lawrence Livermore Lab Site 300	131384	816	EXPLSE WASTE STRG FAC	Not Covered		-										
Lawrence Livermore Lab Site 300	90543	819	PE/STORAGE-C&M SHOPS	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore Lab Site 300	90545	821	CHEMISTRY STORAGE		B	650	650	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90547	824	HE STORAGE FACILITY		B	300	300	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90548	825	CHEM PROCESS FACILITY		B	1,370	1,370	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90549	826	CHEM PROCESS FACILITY		B	1,638	1,638	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90557	830	VACANT		B	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90559	833	EPD/ERD SERVICE-R&D		B	1,892	1,892	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90562	835	EPD/ERD STORAGE		B	1,216	1,216	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90564	837	VACANT		B	1,031	1,031	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90567	841	PE/STORAGE - C&M SHOPS		B	1,786	1,786	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90570	848	VACANT		B	1,300	1,300	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90571	850	VACANT		B	5,095	5,095	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90576	856	VACANT		B	1,613	1,613	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90579	859	STORAGE		B	1,500	1,500	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90580	860	STORAGE		B	298	298	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90581	865	VACANT		B	61,360	61,360	-		112	NNSA	NNSA	O	N	Operationa	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90584	867	BUNKER SUPPORT FACILITY		B	4,342	4,342	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90585	869	PE/MAINT SHOP STORAGE		B	353	353	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90586	870	VACANT		B	4,000	4,000	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90587	871	ADMINISTRATION		B	7,928	7,928	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90588	872	PE/PAINT SHOP		B	1,887	1,887	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90589	873	PE/C&M SHOPS		B	17,452	17,452	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90590	874	MECHANICAL SHOPS		B	19,972	19,972	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90591	875	PE/SUPPLY & MAINTENANCE		B	15,171	15,171	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90592	876	STORES & RECLAMATION		B	2,400	2,400	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90593	877	COMPUTER TECHL SUPPORT		B	3,352	3,352	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90594	878	PE/MAINT SHOP STORAGE		B	488	488	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90595	879	MOTOR POOL & GARAGE		B	2,879	2,879	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90596	880	VACANT		B	2,839	2,839	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90598	882	PFD COMM CENTER		B	4,912	4,912	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	137320	886	CHEMICAL STORAGE		T	36	36	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	137312	889	SITE 300 MEDICAL FACILITY		B	2,719	2,719	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	137313	890	SITE 300 FIRE STATION		B	6,863	6,863	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90600	892	CENTRAL CONTROL POST		B	866	866	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	139177	895	EPD/ORAD OFFICE		B	380	380	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89558	1277	VACANT		T	4,058	4,058	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89559	1280	VACANT		T	5,644	5,644	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89597	1601	VACANT		T	2,228	2,228	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89598	1602	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89603	1631	OFFICE		T	1,490	1,490	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89604	1632	VACANT		T	4,290	4,290	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89608	1677	IMF MANAGED OFFICE FACILITY		T	28,576	28,576	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89609	1678	VACANT		T	3,550	3,550	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore Lab Site 300	90545	821	CHEMISTRY STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90547	824	HE STORAGE FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90548	825	CHEM PROCESS FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90549	826	CHEM PROCESS FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90557	830	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90559	833	EPD/ERD SERVICE-R&D	Not Covered		-										
Lawrence Livermore Lab Site 300	90562	835	EPD/ERD STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90564	837	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90567	841	PE/STORAGE - C&M SHOPS	Not Covered		-										
Lawrence Livermore Lab Site 300	90570	848	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90571	850	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90576	856	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90579	859	STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90580	860	STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90581	865	VACANT	Not Covered												
Lawrence Livermore Lab Site 300	90584	867	BUNKER SUPPORT FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90585	869	PE/MAINT SHOP STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90586	870	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90587	871	ADMINISTRATION	Not Covered		-										
Lawrence Livermore Lab Site 300	90588	872	PE/PAINT SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	90589	873	PE/C&M SHOPS	Not Covered		-										
Lawrence Livermore Lab Site 300	90590	874	MECHANICAL SHOPS	Not Covered		-										
Lawrence Livermore Lab Site 300	90591	875	PE/SUPPLY & MAINTENANCE	Not Covered		-										
Lawrence Livermore Lab Site 300	90592	876	STORES & RECLAMATION	Not Covered		-										
Lawrence Livermore Lab Site 300	90593	877	COMPUTER TECHL SUPPORT	Not Covered		-										
Lawrence Livermore Lab Site 300	90594	878	PE/MAINT SHOP STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90595	879	MOTOR POOL & GARAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90596	880	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90598	882	PFD COMM CENTER	Not Covered		-										
Lawrence Livermore Lab Site 300	137320	886	CHEMICAL STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	137312	889	SITE 300 MEDICAL FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	137313	890	SITE 300 FIRE STATION	Not Covered		-										
Lawrence Livermore Lab Site 300	90600	892	CENTRAL CONTROL POST	Not Covered		-										
Lawrence Livermore Lab Site 300	139177	895	EPD/ORAD OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89558	1277	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89559	1280	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89597	1601	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89598	1602	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89603	1631	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89604	1632	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89608	1677	IMF MANAGED OFFICE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89609	1678	VACANT	Not Covered		-										

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Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	89611	1680	VACANT		T	5,697	5,697	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89991	1713	TOILET TRAILER		T	335	335	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	135609	1714	SHOWER FACILITY		T	270	270	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89624	1726	JUPITER SUPPORT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89625	1727	JUPITER TECH SUPPORT		T	1,837	1,837	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89627	1730	JUPITER VISITORS		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89629	1735	JUPITER MAIN OFFICE		T	3,261	3,261	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89630	1736	SECURITY TRAINING		T	4,526	4,526	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89633	1739	JUPITER OFFICES		T	5,646	5,646	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	135819	1802	TOILET TRAILER		T	411	411	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89642	1826	VACANT		T	3,590	3,590	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89647	1878	VACANT		T	6,292	6,292	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89648	1879	LABORATORY TRAINING CNTR		T	11,118	11,118	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89651	1884	VACANT		T	2,880	2,880	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89652	1885	VACANT		T	4,266	4,266	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89653	1886	ICS RECEIVING / STORAGE		T	3,643	3,643	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89654	1887	VACANT		T	5,108	5,108	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89655	1888	VACANT		T	11,520	11,520	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89656	1889	INSTITUTIONALY MANAGED MULTI-TE		T	17,380	17,380	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89659	1925	PAT		T	2,236	2,236	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89661	1927	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	128145	2180	VACANT		T	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89715	2512	VACANT		T	360	360	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89717	2525	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	90046	2552	VACANT		T	2,100	2,100	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89726	2554	VACANT		T	740	740	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89728	2580	SECURE COMMUNICATION CENTER		T	4,203	4,203	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90001	2625	VACANT		T	240	240	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89790	2627	VACANT		T	1,867	1,867	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89735	2632	SECURITY		T	2,202	2,202	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89738	2679	VACANT		T	12,310	12,310	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89739	2684	VACANT		T	5,284	5,284	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89740	2685	VACANT		T	4,320	4,320	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89741	2687	VACANT		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89743	2701	SECURITY SHOWER TRAILER		T	720	720	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89628	2726	OFFICE		T	2,098	2,098	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89650	2727	LOCKS AND KEYS		T	5,090	5,090	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89996	2728	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89748	2775	SECURITY		T	9,831	9,831	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89750	2777	SECURITY ARMORY		T	1,400	1,400	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89751	2787	SECURITY FITNESS FACILITY		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89753	2801	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89611	1680	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89991	1713	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	135609	1714	SHOWER FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89624	1726	JUPITER SUPPORT	Not Covered		-										
Lawrence Livermore National Laboratory	89625	1727	JUPITER TECH SUPPORT	Not Covered		-										
Lawrence Livermore National Laboratory	89627	1730	JUPITER VISITORS	Not Covered		-										
Lawrence Livermore National Laboratory	89629	1735	JUPITER MAIN OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89630	1736	SECURITY TRAINING	Not Covered		-										
Lawrence Livermore National Laboratory	89633	1739	JUPITER OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	135819	1802	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	89642	1826	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89647	1878	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89648	1879	LABORATORY TRAINING CNTR	Not Covered		-										
Lawrence Livermore National Laboratory	89651	1884	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89652	1885	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89653	1886	ICS RECEIVING / STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89654	1887	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89655	1888	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89656	1889	INSTITUTIONALY MANAGED MULTI-TE	Not Covered		-										
Lawrence Livermore National Laboratory	89659	1925	PAT	Not Covered		-										
Lawrence Livermore National Laboratory	89661	1927	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	128145	2180	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89715	2512	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89717	2525	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	90046	2552	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89726	2554	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89728	2580	SECURE COMMUNICATION CENTER	Not Covered		-										
Lawrence Livermore National Laboratory	90001	2625	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89790	2627	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89735	2632	SECURITY	Not Covered		-										
Lawrence Livermore National Laboratory	89738	2679	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89739	2684	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89740	2685	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89741	2687	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89743	2701	SECURITY SHOWER TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	89628	2726	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89650	2727	LOCKS AND KEYS	Not Covered		-										
Lawrence Livermore National Laboratory	89996	2728	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89748	2775	SECURITY	Not Covered		-										
Lawrence Livermore National Laboratory	89750	2777	SECURITY ARMORY	Not Covered		-										
Lawrence Livermore National Laboratory	89751	2787	SECURITY FITNESS FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89753	2801	VACANT	Not Covered		-										

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Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	89754	2802	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89832	2808	TOILET TRAILER		T	238	238	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89759	2825	OFFICE		T	5,922	5,922	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89762	2925	VACANT		T	4,917	4,917	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89778	3180	VACANT		T	4,371	4,371	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89783	3203	MATERIAL FABRICATION DIV		T	649	649	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89784	3204	VACANT		T	649	649	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89789	3226	VACANT		T	3,077	3,077	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	143411	3304	TOILET TRAILER		T	128	128	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	140533	3340	OFFICES		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89810	3427	VACANT		T	6,365	6,365	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89816	3526	HUMAN RELIABILITY PROGRAM		T	2,165	2,165	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89817	3527	DOE OFFICES		T	9,782	9,782	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	133598	3555	HUMAN RELIABILITY PROGRAM		T	508	508	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89820	3577	VACANT		T	4,614	4,614	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89826	3649	BIOSCIENCES RESEARCH		T	4,800	4,800	-		112	SC	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89834	3724	COMPUTATION FACILITY BLDG		T	19,810	19,810	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89835	3725	NIF DIRECTORATE OFFICES		T	19,867	19,867	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89836	3726	NIF DIRECTORATE OFFICES		T	19,824	19,824	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89840	3751	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89843	3775	VACANT		T	1,440	1,440	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89857	3925	REDWOOD RM.-CONF./CLASSROOM		T	1,081	1,081	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89860	3982	VACANT		T	1,920	1,920	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89867	4107	VACANT		T	388	388	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89921	4113	PAINT SHOP STORAGE		T	203	203	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89890	4302	ERD OFFICES		T	5,022	5,022	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89892	4316	VACANT		T	299	299	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	140566	4352	ERD OFC-FIELD OPERATIONS		T	240	240	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89899	4377	ERD OFFICES		T	4,920	4,920	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89900	4378	ERD OFFICES		T	5,180	5,180	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89588	4382	VACANT		T	3,600	3,600	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89902	4383	VACANT		T	4,988	4,988	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89903	4384	VACANT		T	1,577	1,577	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89904	4385	VACANT		T	3,744	3,744	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89906	4387	VACANT		T	3,658	3,658	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89907	4388	VACANT		T	320	320	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89911	4406	VACANT		T	1,560	1,560	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89920	4475	VACANT		T	4,176	4,176	-		112	SC	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89923	4525	COMPUTATION FACILITY BLDG		T	5,713	5,713	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89924	4576	COMPUTATION FACILITY BLDG		T	848	848	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89925	4675	EMPLOYEE RESOURCES		T	11,287	11,287	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89926	4725	VACANT		T	9,389	9,389	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

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Lawrence Livermore National Laboratory	89754	2802	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89832	2808	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	89759	2825	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89762	2925	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89778	3180	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89783	3203	MATERIAL FABRICATION DIV	Not Covered		-										
Lawrence Livermore National Laboratory	89784	3204	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89789	3226	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	143411	3304	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	140533	3340	OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89810	3427	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89816	3526	HUMAN RELIABILITY PROGRAM	Not Covered		-										
Lawrence Livermore National Laboratory	89817	3527	DOE OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	133598	3555	HUMAN RELIABILITY PROGRAM	Not Covered		-										
Lawrence Livermore National Laboratory	89820	3577	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89826	3649	BIOSCIENCES RESEARCH	Not Covered		-										
Lawrence Livermore National Laboratory	89834	3724	COMPUTATION FACILITY BLDG	Not Covered		-										
Lawrence Livermore National Laboratory	89835	3725	NIF DIRECTORATE OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89836	3726	NIF DIRECTORATE OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89840	3751	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89843	3775	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89857	3925	REDWOOD RM.-CONF./CLASSROOM	Not Covered		-										
Lawrence Livermore National Laboratory	89860	3982	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89867	4107	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89921	4113	PAINT SHOP STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89890	4302	ERD OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89892	4316	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	140566	4352	ERD OFC-FIELD OPERATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	89899	4377	ERD OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89900	4378	ERD OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89588	4382	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89902	4383	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89903	4384	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89904	4385	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89906	4387	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89907	4388	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89911	4406	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89920	4475	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89923	4525	COMPUTATION FACILITY BLDG	Not Covered		-										
Lawrence Livermore National Laboratory	89924	4576	COMPUTATION FACILITY BLDG	Not Covered		-										
Lawrence Livermore National Laboratory	89925	4675	EMPLOYEE RESOURCES	Not Covered		-										
Lawrence Livermore National Laboratory	89926	4725	VACANT	Not Covered		-										

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Lawrence Livermore National Laboratory	89927	4726	S&T / COMP		T	9,384	9,384	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89928	4727	O&B TID LIBRARY		T	9,891	9,891	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89929	4728	COMPUTATIONS		T	6,762	6,762	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89930	4729	O&B TID LIBRARY		T	10,018	10,018	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89935	4905	VACANT		T	322	322	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89936	4906	VACANT		T	322	322	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	143340	4924	VACANT		T	638	638	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89941	4926	VACANT		T	1,638	1,638	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89949	5104	INDUSTRIAL GAS FACILITY		T	624	624	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89950	5105	LABOR ONLY CONSTRUCTION		T	510	510	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89953	5125	LABOR ONLY CONSTRUCTION OFFIC		T	2,912	2,912	-		112	NNSA	NNSA	O	N	Operating	9999	Livermore	CA
Lawrence Livermore National Laboratory	89967	5207	MUSD / AC STORAGE		T	320	320	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89969	5225	LABOR ONLY CONSTRUCTION OFFIC		T	1,952	1,952	-		112	NNSA	NNSA	O	N	Operating	9999	Livermore	CA
Lawrence Livermore National Laboratory	89970	5226	VACANT		T	2,548	2,548	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89976	5425	VACANT		T	5,260	5,260	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89977	5426	VACANT		T	5,180	5,180	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89979	5475	ICS DEPT OFFICE		T	32,368	32,368	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89980	5477	IMF MANAGED OFFICE FACILITY		T	6,693	6,693	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89983	5626	AUDIT & OVERSIGHT		T	4,356	4,356	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89984	5627	LEGAL SERVICES		T	8,470	8,470	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	141330	5675	STAFF RELATIONS		T	4,277	4,277	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90019	6127	EPD/RHWM OFFICE		T	1,560	1,560	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90024	6178	EPD/RHWM OFF/CHANGE HOUSE		T	1,040	1,040	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90025	6179	EPD/RHWM OFFICE		T	3,904	3,904	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89742	6205	MUSD HEAVY EQUIP. STORAGE		T	404	404	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89818	6206	IE STORAGE		T	684	684	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	201383	6301	RIGGER STORAGE		T	732	732	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90032	6325	VACANT		T	4,320	4,320	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89865	6424	VACANT		T	390	390	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89994	6426	VACANT		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	209507	6475	HIGH PERFORMANCE COMPUTING IN		B	12,070	12,070	-		112	NNSA	NNSA	C	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90034	6501	PUBLIC AFFAIRS OFFICE		T	908	908	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90037	6525	VISITORS CTR AUDITRM		T	971	971	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90038	6526	PUBLIC AFFAIRS OFFICE		T	2,756	2,756	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89667	6527	VACANT		T	2,115	2,115	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90039	6575	PUBLIC AFFAIRS OFFICE		T	1,460	1,460	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89730	6870	OFFICE		T	1,416	1,416	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	533	6901	TOILET TRAILER		T	520	520	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90043	6925	OFFICES		T	5,873	5,873	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89781	6926	OFFICES		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89631	6928	OFFICES		T	1,912	1,912	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	201479	6929	NIF OFFICE TRAILER		T	4,925	4,925	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89927	4726	S&T / COMP	Not Covered		-										
Lawrence Livermore National Laboratory	89928	4727	O&B TID LIBRARY	Not Covered		-										
Lawrence Livermore National Laboratory	89929	4728	COMPUTATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	89930	4729	O&B TID LIBRARY	Not Covered		-										
Lawrence Livermore National Laboratory	89935	4905	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89936	4906	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	143340	4924	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89941	4926	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89949	5104	INDUSTRIAL GAS FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89950	5105	LABOR ONLY CONSTRUCTION	Not Covered		-										
Lawrence Livermore National Laboratory	89953	5125	LABOR ONLY CONSTRUCTION OFFIC	Not Covered		-										
Lawrence Livermore National Laboratory	89967	5207	MUSD / AC STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89969	5225	LABOR ONLY CONSTRUCTION OFFIC	Not Covered		-										
Lawrence Livermore National Laboratory	89970	5226	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89976	5425	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89977	5426	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89979	5475	ICS DEPT OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89980	5477	IMF MANAGED OFFICE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89983	5626	AUDIT & OVERSIGHT	Not Covered		-										
Lawrence Livermore National Laboratory	89984	5627	LEGAL SERVICES	Not Covered		-										
Lawrence Livermore National Laboratory	141330	5675	STAFF RELATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	90019	6127	EPD/RHWM OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	90024	6178	EPD/RHWM OFF/CHANGE HOUSE	Not Covered		-										
Lawrence Livermore National Laboratory	90025	6179	EPD/RHWM OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89742	6205	MUSD HEAVY EQUIP. STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89818	6206	IE STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	201383	6301	RIGGER STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	90032	6325	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89865	6424	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89994	6426	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	209507	6475	HIGH PERFORMANCE COMPUTING I	Not Covered		-										
Lawrence Livermore National Laboratory	90034	6501	PUBLIC AFFAIRS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	90037	6525	VISITORS CTR AUDITRM	Not Covered		-										
Lawrence Livermore National Laboratory	90038	6526	PUBLIC AFFAIRS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89667	6527	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	90039	6575	PUBLIC AFFAIRS OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	89730	6870	OFFICE	Not Covered		-										
Lawrence Livermore National Laboratory	533	6901	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	90043	6925	OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89781	6926	OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	89631	6928	OFFICES	Not Covered		-										
Lawrence Livermore National Laboratory	201479	6929	NIF OFFICE TRAILER	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	201480	6930	NIF OFFICE TRAILER		T	5,937	5,937	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90045	6951	EPD/RHWM SERVICE BUILDING		T	1,440	1,440	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	143464	6989	TOILET TRAILER		T	756	756	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	137861	7990	DINE COLLEGE OFFICES		T	880	880	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90561	8340	EPD/ERD SRVC-MNTRNG TF834		T	282	282	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	204013	8580	BREAKROOM TRAILER		T	384	384	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136739	8724	EPD/ERD SERVICE-R&D		T	322	322	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	128006	8726	EPD/ERD OFFICE		T	953	953	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90597	8806	VACANT		T	509	509	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Tracy	CA
Lawrence Livermore Lab Site 300	132064	8825	SHOWER FACILITY		T	370	370	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	132065	8826	SECURITY FITNESS		T	943	943	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90601	8990	B899 A&B WASH UP FACILITY		T	281	281	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	135719	8991	INSTRUCTOR FACILITY		T	480	480	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89495	002LS	LANDSCAPING		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	208114	003A	S Program		B	3,750	3,750	-		112	NNSA	NNSA	C	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	204000	012D	EAST AVENUE SECURITY STORAGE		B	205	205	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89503	021CA	CMPRSSED AIR SYS COMPRESSOR CTRL		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89504	022CA	CMPRSSED AIR SYS COMPRESSOR CTRL NW		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89505	023CA	CMPRD AIR SYS DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89506	02AL	SITEWIDE ACCELERATORS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89508	02CND	RETURN LINES / CONDENSATE		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89509	02CSL	COMM SYSTEM LINES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	112	02EDT	ELECTRIC DIST TRANSFORMERS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89511	02EGU	UTIL ELECT GENERATORS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89512	02EPL	UTIL ELEC PRI DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89513	02EPT	ELEC POWER TRANSFORMERS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89514	02ESL	UTIL ELEC SEC DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89515	02FAS	FIRE ALARM SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89516	02FNC	ALL OTHER FENCES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89517	02GAWR	GARAGE AUTO WASH RACK		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89520	02GSDL	GAS SYS DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89524	02LGS	UTIL ELECT SUBSTATIONS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	1	02LLIX	LLIX CABLE SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89525	02MFEST	ERD STORAGE AREA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89526	02OST	STORAGE OIL TANKS TO-1		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89527	02PRK	ALL OTHER PARKING AREAS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89529	02RDP	ROADS PAVED		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89530	02RDU	ROADS UNPAVED & IMPROVED		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89531	02RTW	RETAINING WALLS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89532	02SAS	SECURITY ALARM SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89533	02SCL	ALL OTHER SECURITY LIGHTG		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89534	02SCSG	SEWER COLL SYST GRAVITY		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	201480	6930	NIF OFFICE TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	90045	6951	EPD/RHWM SERVICE BUILDING	Not Covered		-										
Lawrence Livermore National Laboratory	143464	6989	TOILET TRAILER	Not Covered		-										
Lawrence Livermore National Laboratory	137861	7990	DINE COLLEGE OFFICES	Not Covered		-										
Lawrence Livermore Lab Site 300	90561	8340	EPD/ERD SRVC-MNTRNG TF834	Not Covered		-										
Lawrence Livermore Lab Site 300	204013	8580	BREAKROOM TRAILER	Not Covered		-										
Lawrence Livermore Lab Site 300	136739	8724	EPD/ERD SERVICE-R&D	Not Covered		-										
Lawrence Livermore Lab Site 300	128006	8726	EPD/ERD OFFICE	Not Covered		-										
Lawrence Livermore Lab Site 300	90597	8806	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	132064	8825	SHOWER FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	132065	8826	SECURITY FITNESS	Not Covered		-										
Lawrence Livermore Lab Site 300	90601	8990	B899 A&B WASH UP FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	135719	8991	INSTRUCTOR FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89495	002LS	LANDSCAPING	Not Covered		-										
Lawrence Livermore National Laboratory	208114	003A	S Program	Not Covered		-										
Lawrence Livermore National Laboratory	204000	012D	EAST AVENUE SECURITY STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	89503	021CA	CMPRSSED AIR SYS COMPRESSOR	Not Covered		-										
Lawrence Livermore National Laboratory	89504	022CA	CMPRSSED AIR SYS COMPRESSOR	Not Covered		-										
Lawrence Livermore National Laboratory	89505	023CA	CMPRD AIR SYS DIST LINES	Not Covered		-										
Lawrence Livermore National Laboratory	89506	02AL	SITEWIDE ACCELERATORS	Not Covered		-										
Lawrence Livermore National Laboratory	89508	02CND	RETURN LINES / CONDENSATE	Not Covered		-										
Lawrence Livermore National Laboratory	89509	02CSL	COMM SYSTEM LINES	Not Covered		-										
Lawrence Livermore National Laboratory	112	02EDT	ELECTRIC DIST TRANSFORMERS	Not Covered		-										
Lawrence Livermore National Laboratory	89511	02EGU	UTIL ELECT GENERATORS	Not Covered		-										
Lawrence Livermore National Laboratory	89512	02EPL	UTIL ELEC PRI DIST LINES	Not Covered		-										
Lawrence Livermore National Laboratory	89513	02EPT	ELEC POWER TRANSFORMERS	Not Covered		-										
Lawrence Livermore National Laboratory	89514	02ESL	UTIL ELEC SEC DIST LINES	Not Covered		-										
Lawrence Livermore National Laboratory	89515	02FAS	FIRE ALARM SYSTEM	Not Covered		-										
Lawrence Livermore National Laboratory	89516	02FNC	ALL OTHER FENCES	Not Covered		-										
Lawrence Livermore National Laboratory	89517	02GAWR	GARAGE AUTO WASH RACK	Not Covered		-										
Lawrence Livermore National Laboratory	89520	02GSDL	GAS SYS DIST LINES	Not Covered		-										
Lawrence Livermore National Laboratory	89524	02LGS	UTIL ELECT SUBSTATIONS	Not Covered		-										
Lawrence Livermore National Laboratory	1	02LLIX	LLIX CABLE SYSTEM	Not Covered		-										
Lawrence Livermore National Laboratory	89525	02MFEST	ERD STORAGE AREA	Not Covered		-										
Lawrence Livermore National Laboratory	89526	02OST	STORAGE OIL TANKS TO-1	Not Covered		-										
Lawrence Livermore National Laboratory	89527	02PRK	ALL OTHER PARKING AREAS	Not Covered		-										
Lawrence Livermore National Laboratory	89529	02RDP	ROADS PAVED	Not Covered		-										
Lawrence Livermore National Laboratory	89530	02RDU	ROADS UNPAVED & IMPROVED	Not Covered		-										
Lawrence Livermore National Laboratory	89531	02RTW	RETAINING WALLS	Not Covered		-										
Lawrence Livermore National Laboratory	89532	02SAS	SECURITY ALARM SYSTEM	Not Covered		-										
Lawrence Livermore National Laboratory	89533	02SCL	ALL OTHER SECURITY LIGHTG	Not Covered		-										
Lawrence Livermore National Laboratory	89534	02SCSG	SEWER COLL SYST GRAVITY	Not Covered		-										

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Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	89535	02STL	ALL OTHER STREET LIGHTING		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89536	02STM	SUPPLY LINES / STEAM		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89537	02SWCS	STORM WATER COLL SYS GRAV		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89538	02SWP	ALL OTHER SIDEWALKS & PATHS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89540	02TS	TRUCK SCALE		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89541	02WRS	WASTE RETENTION SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	127068	132N	DPRF		B	251,316	251,316	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89562	132S	G.S		B	219,385	219,385	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90498	15AL	SITEWIDE ACCELERATORS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90499	15CASC	CONPRD AIR SYS COMPRESS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90500	15CSL	COMM SYSTEM LINES		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90501	15CW	WATER SYS POTBL DIST		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90502	15EDT	ELECT DIST TRANSFORMERS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90503	15EGV	UTILITY ELEC GENERATORS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90504	15EPL	UTIL PRI ELEC DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90505	15EPT	ELEC POWER TRANSFORMERS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90506	15ESL	UTIL ELEC SEC DIST LINES		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90507	15FAS	FIRE ALARM SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90508	15FNC	ALL OTHER FENCES		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90509	15GDS	GAS DIST SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90510	15HS	HEATING SYS / BOILERS / OIL		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90511	15LGS	UTIL ELEC SUBSTATIONS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90512	15LS	LANDSCAPING		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90513	15RW	RETAINING WALL		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90514	15RWPA	ROADS WALKS PAVED AREAS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90515	15SAS	SECURITY ALARM SYSTEM		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90516	15SCL	ALL OTHER SECURITY LIGHTGS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90517	15SCSG	SEWAGE COLL SYS GRAVITY		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90518	15SOT	STORAGE OIL TANK		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90519	15SPS	SEWAGE POND / SEPTIC & RETN TKS		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90520	15STL	ALL OTHER STREET LIGHTING		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90640	15WST	WATER STORAGE TANKS - 11		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore National Laboratory	128200	170A	VACANT		B	800	800	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	134179	193A	EPD/ORAD SRVC-MNTRNG STAT		B	151	151	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89663	194A	VACANT		B	240	240	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	129496	196A	EPD/ORAD STORAGE		B	112	112	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	201360	231A	BEAD BLASTER-RECEIVING		T	110	110	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	215602	2806	ROCK PREP LAB		Building	221	221	0		112	NNSA	NNSA	DOE Owne	N			Livermore	CA
Lawrence Livermore National Laboratory	89766	297A	MUSD CLASS DOC DESTRUCTION		B	320	320	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	138782	312A	VACANT		B	107	107	-		112	NNSA	NNSA	O	N	Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	89786	321A	MATERIALS FAB SHOP		B	59,515	59,515	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	205437	321B	MATERIALS FAB SHOP		B	7,511	7,511	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	89535	02STL	ALL OTHER STREET LIGHTING	Not Covered		-										
Lawrence Livermore National Laboratory	89536	02STM	SUPPLY LINES / STEAM	Not Covered		-										
Lawrence Livermore National Laboratory	89537	02SWCS	STORM WATER COLL SYS GRAV	Not Covered		-										
Lawrence Livermore National Laboratory	89538	02SWP	ALL OTHER SIDEWALKS & PATHS	Not Covered		-										
Lawrence Livermore National Laboratory	89540	02TS	TRUCK SCALE	Not Covered		-										
Lawrence Livermore National Laboratory	89541	02WRS	WASTE RETENTION SYSTEM	Not Covered		-										
Lawrence Livermore National Laboratory	127068	132N	DPRF	Covered	17,703.555	1,745.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89562	132S	G.S	Covered	13,700.958	1,595.000	FY2014	FY2014	Walk-Throu	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore Lab Site 300	90498	15AL	SITEWIDE ACCELERATORS	Not Covered		-										
Lawrence Livermore Lab Site 300	90499	15CASC	CONPRD AIR SYS COMPRESS	Not Covered		-										
Lawrence Livermore Lab Site 300	90500	15CSL	COMM SYSTEM LINES	Not Covered		-										
Lawrence Livermore Lab Site 300	90501	15CW	WATER SYS POTBL DIST	Not Covered		-										
Lawrence Livermore Lab Site 300	90502	15EDT	ELECT DIST TRANSFORMERS	Not Covered		-										
Lawrence Livermore Lab Site 300	90503	15EGV	UTILITY ELEC GENERATORS	Not Covered		-										
Lawrence Livermore Lab Site 300	90504	15EPL	UTIL PRI ELEC DIST LINES	Not Covered		-										
Lawrence Livermore Lab Site 300	90505	15EPT	ELEC POWER TRANSFORMERS	Not Covered		-										
Lawrence Livermore Lab Site 300	90506	15ESL	UTIL ELEC SEC DIST LINES	Not Covered		-										
Lawrence Livermore Lab Site 300	90507	15FAS	FIRE ALARM SYSTEM	Not Covered		-										
Lawrence Livermore Lab Site 300	90508	15FNC	ALL OTHER FENCES	Not Covered		-										
Lawrence Livermore Lab Site 300	90509	15GDS	GAS DIST SYSTEM	Not Covered		-										
Lawrence Livermore Lab Site 300	90510	15HS	HEATING SYS / BOILERS / OIL	Not Covered		-										
Lawrence Livermore Lab Site 300	90511	15LGS	UTIL ELEC SUBSTATIONS	Not Covered		-										
Lawrence Livermore Lab Site 300	90512	15LS	LANDSCAPING	Not Covered		-										
Lawrence Livermore Lab Site 300	90513	15RW	RETAINING WALL	Not Covered		-										
Lawrence Livermore Lab Site 300	90514	15RWPA	ROADS WALKS PAVED AREAS	Not Covered		-										
Lawrence Livermore Lab Site 300	90515	15SAS	SECURITY ALARM SYSTEM	Not Covered		-										
Lawrence Livermore Lab Site 300	90516	15SCL	ALL OTHER SECURITY LIGHTGS	Not Covered		-										
Lawrence Livermore Lab Site 300	90517	15SCSG	SEWAGE COLL SYS GRAVITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90518	15SOT	STORAGE OIL TANK	Not Covered		-										
Lawrence Livermore Lab Site 300	90519	15SPS	SEWAGE POND / SEPTIC & RETN TKS	Not Covered		-										
Lawrence Livermore Lab Site 300	90520	15STL	ALL OTHER STREET LIGHTING	Not Covered		-										
Lawrence Livermore Lab Site 300	90640	15WST	WATER STORAGE TANKS - 11	Not Covered		-										
Lawrence Livermore National Laboratory	128200	170A	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	134179	193A	EPD/ORAD SRVC-MNTRNG STAT	Not Covered		-										
Lawrence Livermore National Laboratory	89663	194A	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	129496	196A	EPD/ORAD STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	201360	231A	BEAD BLASTER-RECEIVING	Not Covered		-										
Lawrence Livermore National Laboratory	215602	2806	ROCK PREP LAB	Not Covered											Facility Added from 2014	Snapshot. Please indicate if "Covered" or "No
Lawrence Livermore National Laboratory	89766	297A	MUSD CLASS DOC DESTRUCTION	Not Covered		-										
Lawrence Livermore National Laboratory	138782	312A	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89786	321A	MATERIALS FAB SHOP	Covered	8,771.191	225.000	03/13	03/13	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	205437	321B	MATERIALS FAB SHOP	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	205438	321C	MATERIALS FAB SHOP		B	78,335	78,335	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89787	321D	EE FABRICATION		B	2,106	2,106	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	139832	321E	MMED BOILER ROOM		B	2,581	2,581	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89791	322A	PLATING SHOP ANNEX		B	340	340	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	129497	335A	EMRGCY RESPONSE FACILITY		B	64	64	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	129498	335B	EMRGCY RESPONSE FACILITY		B	64	64	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89957	514A	VACANT		B	2,473	2,473	-		112	EM	NNSA	O	N	Shutdown F	9999	Livermore	CA
Lawrence Livermore National Laboratory	89963	517A	MUSD / CUSTODIAN LAUNDRY RM		B	462	462	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	136929	518A	INDUSTRIAL GAS STORAGE		T	195	195	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	138127	519A	HEAVY EQUIPMENT STORAGE		T	401	401	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	130291	551E	O&B / F&I OFFICES		B	41,068	41,068	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	130292	551W	BUS/NCOP/TID/SCM		B	65,776	65,776	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	136921	597A	ERD RESTRM & SHWR FAC		B	99	99	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90020	612A	EPD/RHWM WASTE TSDF		B	4,283	4,283	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	208280	6931	NIF CONSTRUCTION BREAKROOM		T	1,405	1,405	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90522	801A	FIRING FACILITY(FXR)		B	44,262	44,262	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133958	801B	TECHNICAL MAINTENANCE SHOP		B	790	790	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133961	801D	ADMINISTRATION		B	4,686	4,686	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90523	802A	VACANT		B	3,264	3,264	-		112	NNSA	NNSA	O	N	Shutdown F	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90527	806A	HE MACHINING		B	3,417	3,417	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133963	806B	HE MACHINING		B	4,088	4,088	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	130264	806C	MACHINING STORAGE		B	640	640	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133967	806D	MACHINING STORAGE		B	192	192	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90530	809A	HE PRESSING		B	2,570	2,570	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	143694	809B	MECHANICAL SUPPORT		B	617	617	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	139520	809C	HE OVEN FACILITY		B	606	606	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90532	810A	HE ASSEMBLY		B	3,365	3,365	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133974	810B	HE ASSEMBLY		B	921	921	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133975	810C	ASSEMBLY STORAGE		B	914	914	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90534	812A	VACANT		B	2,656	2,656	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134157	812D	VACANT		B	325	325	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134160	812E	LABORATORY		B	1,310	1,310	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90539	817A	HE PRESSING CONTROL ROOM		B	417	417	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133981	817B	HE PRESSING CELL		B	639	639	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133984	817D	HE PRESSING STORAGE		B	207	207	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133985	817E	HE PRESSING-INACTIVE		B	186	186	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133986	817F	HE PRESSING OVENS		B	526	526	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133987	817G	HE PRESSING BOILERS		B	237	237	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133988	817H	HE PRESSING INERT STORAGE		B	890	890	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90541	818A	HE STORAGE FACILITY		B	1,244	1,244	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133989	818C	HE STORAGE FACILITY		B	578	578	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90546	823A	LINAC RADIOGRAPHY		B	1,089	1,089	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

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Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	205438	321C	MATERIALS FAB SHOP	Covered	11,668.784	202.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89787	321D	EE FABRICATION	Not Covered		-										
Lawrence Livermore National Laboratory	139832	321E	MMED BOILER ROOM	Not Covered		-										
Lawrence Livermore National Laboratory	89791	322A	PLATING SHOP ANNEX	Not Covered		-										
Lawrence Livermore National Laboratory	129497	335A	EMRGCY RESPONSE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	129498	335B	EMRGCY RESPONSE FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	89957	514A	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	89963	517A	MUSD / CUSTODIAN LAUNDRY RM	Not Covered		-										
Lawrence Livermore National Laboratory	136929	518A	INDUSTRIAL GAS STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	138127	519A	HEAVY EQUIPMENT STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	130291	551E	O&B / F&I OFFICES	Covered	2,013.653	565.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	130292	551W	BUS/NCOP/TID/SCM	Covered	5,322.551	425.000	FY2016	FY2016	Walk-Throu	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	136921	597A	ERD RESTRM & SHWR FAC	Not Covered		-										
Lawrence Livermore National Laboratory	90020	612A	EPD/RHWM WASTE TSDF	Not Covered		-										
Lawrence Livermore National Laboratory	208280	6931	NIF CONSTRUCTION BREAKROOM	Not Covered		-										
Lawrence Livermore Lab Site 300	90522	801A	FIRING FACILITY(FXR)	Not Covered												
Lawrence Livermore Lab Site 300	133958	801B	TECHNICAL MAINTENANCE SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	133961	801D	ADMINISTRATION	Not Covered		-										
Lawrence Livermore Lab Site 300	90523	802A	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90527	806A	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	133963	806B	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	130264	806C	MACHINING STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	133967	806D	MACHINING STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90530	809A	HE PRESSING	Not Covered		-										
Lawrence Livermore Lab Site 300	143694	809B	MECHANICAL SUPPORT	Not Covered		-										
Lawrence Livermore Lab Site 300	139520	809C	HE OVEN FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90532	810A	HE ASSEMBLY	Not Covered		-										
Lawrence Livermore Lab Site 300	133974	810B	HE ASSEMBLY	Not Covered		-										
Lawrence Livermore Lab Site 300	133975	810C	ASSEMBLY STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90534	812A	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134157	812D	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134160	812E	LABORATORY	Not Covered		-										
Lawrence Livermore Lab Site 300	90539	817A	HE PRESSING CONTROL ROOM	Not Covered		-										
Lawrence Livermore Lab Site 300	133981	817B	HE PRESSING CELL	Not Covered		-										
Lawrence Livermore Lab Site 300	133984	817D	HE PRESSING STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	133985	817E	HE PRESSING-INACTIVE	Not Covered		-										
Lawrence Livermore Lab Site 300	133986	817F	HE PRESSING OVENS	Not Covered		-										
Lawrence Livermore Lab Site 300	133987	817G	HE PRESSING BOILERS	Not Covered		-										
Lawrence Livermore Lab Site 300	133988	817H	HE PRESSING INERT STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90541	818A	HE STORAGE FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	133989	818C	HE STORAGE FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90546	823A	LINAC RADIOGRAPHY	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore Lab Site 300	133990	823B	LINAC RADIOGRAPHY		B	1,842	1,842	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90550	827A	CHEMISTRY BLDG		B	4,539	4,539	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90551	827B	SERVICE SHOP		B	871	871	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90552	827C	CHEM PROCESS FACILITY		B	4,579	4,579	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90553	827D	CHEM PROCESS FACILITY		B	4,579	4,579	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90554	827E	CHEM PROCESS FACILITY		B	4,407	4,407	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90555	828A	OFFICE		B	212	212	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	133991	828B	HE MACHINING-INACTIVE		B	199	199	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	133992	828C	HE MACHINING-INACTIVE		B	258	258	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90558	832A	STORAGE		B	540	540	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133994	832C	STORAGE		B	335	335	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133996	832E	MM OFFICE/SHIP&RECEIVE		B	1,581	1,581	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90560	834A	THERMAL TEST FACILITY		B	1,694	1,694	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133997	834B	VACANT		B	751	751	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	130265	834C	VACANT		B	751	751	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	133998	834D	VACANT		B	1,694	1,694	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134000	834E	VACANT		B	998	998	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134001	834F	VACANT		B	649	649	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134002	834G	VACANT		B	527	527	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	134003	834H	THERMAL TEST FACILITY		B	998	998	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134004	834J	VACANT		B	511	511	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	130266	834K	PUMP STATION		B	545	545	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134005	834L	VACANT		B	1,281	1,281	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90563	836A	DYNAMIC TEST FACILITY		B	2,191	2,191	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134007	836B	VACANT		B	4,505	4,505	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134010	836C	VACANT		B	2,900	2,900	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134011	836D	DYNAMIC TEST FACILITY		B	3,427	3,427	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90568	843A	EPD/ERD CORP YARD		B	486	486	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131922	843B	EPD/ERD STORAGE		B	402	402	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90569	845A	EXPL WASTE TREATMNT FAC		B	431	431	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133564	845B	EWTF		B	290	290	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90572	851A	FIRING FACILITY		B	12,996	12,996	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134014	851B	MACHINE SHOP		B	985	985	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134701	851C	FABRICATION SHOP		B	652	652	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90574	854A	VACANT		B	2,458	2,458	-		112	NNSA	NNSA	O	N	Operating	9999	Tracy	CA
Lawrence Livermore Lab Site 300	90575	855A	HE MACHINING		B	667	667	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134046	855B	HE MACHINING		B	637	637	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134047	855C	HE MACHINING		B	612	612	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	129504	874A	VACANT		T	279	279	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	129505	874B	VACANT		T	279	279	-		112	NNSA	NNSA	O	N	Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	138146	899A	GUN SHOP		B	572	572	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore Lab Site 300	138147	899B	PISTOL RANGE TRNING/OFFICE		B	688	688	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore Lab Site 300	133990	823B	LINAC RADIOGRAPHY	Not Covered		-										
Lawrence Livermore Lab Site 300	90550	827A	CHEMISTRY BLDG	Not Covered		-										
Lawrence Livermore Lab Site 300	90551	827B	SERVICE SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	90552	827C	CHEM PROCESS FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90553	827D	CHEM PROCESS FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90554	827E	CHEM PROCESS FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90555	828A	OFFICE	Not Covered		-										
Lawrence Livermore Lab Site 300	133991	828B	HE MACHINING-INACTIVE	Not Covered		-										
Lawrence Livermore Lab Site 300	133992	828C	HE MACHINING-INACTIVE	Not Covered		-										
Lawrence Livermore Lab Site 300	90558	832A	STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	133994	832C	STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	133996	832E	MM OFFICE/SHIP&RECEIVE	Not Covered		-										
Lawrence Livermore Lab Site 300	90560	834A	THERMAL TEST FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	133997	834B	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	130265	834C	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	133998	834D	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134000	834E	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134001	834F	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134002	834G	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134003	834H	THERMAL TEST FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	134004	834J	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	130266	834K	PUMP STATION	Not Covered		-										
Lawrence Livermore Lab Site 300	134005	834L	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90563	836A	DYNAMIC TEST FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	134007	836B	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134010	836C	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	134011	836D	DYNAMIC TEST FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	90568	843A	EPD/ERD CORP YARD	Not Covered		-										
Lawrence Livermore Lab Site 300	131922	843B	EPD/ERD STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90569	845A	EXPL WASTE TREATMNT FAC	Not Covered		-										
Lawrence Livermore Lab Site 300	133564	845B	EWTF	Not Covered		-										
Lawrence Livermore Lab Site 300	90572	851A	FIRING FACILITY	Not Covered		-										
Lawrence Livermore Lab Site 300	134014	851B	MACHINE SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	134701	851C	FABRICATION SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	90574	854A	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90575	855A	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	134046	855B	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	134047	855C	HE MACHINING	Not Covered		-										
Lawrence Livermore Lab Site 300	129504	874A	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	129505	874B	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	138146	899A	GUN SHOP	Not Covered		-										
Lawrence Livermore Lab Site 300	138147	899B	PISTOL RANGE TRNING/OFFICE	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	208115	9997	L Enfant Plaza		B	5,274	5,274	-		112	NNSA	NNSA	C	N	Operating		Washington I	DC
Lawrence Livermore National Laboratory	205760	9998	THE AMERICAN RED CROSS	F - Lease s	B	5,682	-	5,682	Partialy leased facility should be excluded	112	NNSA	NNSA	C	N	Operating		Rockville	MD
Lawrence Livermore National Laboratory	90049	CW01	WATER SYS POT DISTRIBUTION		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90050	CW02	WATER SYS POT SUPPLY LINE		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90051	CW03	WATER SYS POT STA(ZONE7)		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90052	CW06	STORAGE WATER TANKS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90053	DW001	WATER SYS DW TREAT PLTS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90054	DW002	WATER SYS DW DIST		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90056	LCW06	CLG WATER SYS DISTRIBUTION		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	204001	OS012A	SECURITY KIOSK		S		26	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	204002	OS012B	SECURITY KIOSK		S		26	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	204003	OS012C	SECURITY KIOSK		S		26	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130229	OS041S	SECURITY KIOSK		S		60	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130228	OS071N	SECURITY KIOSK		S		132	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130227	OS113E	SECURITY KIOSK		S		34	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136771	OS122S	SECURITY KIOSK		S		217	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130225	OS122W	SECURITY KIOSK		S		60	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130204	OS169WA	EPD/RHWM WASTE ACC AREA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	201336	OS231S	SECURITY KIOSK		S		90	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136985	OS235N	SECURITY KIOSK		S		32	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136773	OS243W	SECURITY KIOSK		S		32	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90073	OS270	PROGRAMMATIC STORAGE SO PRO FORCE		S		433	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90058	OS273	LINE OF SITE VAULT		S		831	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130207	OS298A	OUTSIDE STORAGE		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130226	OS316N	SECURITY KIOSK		S		49	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	201318	OS321E	SECURITY KIOSK		S		54	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130208	OS321WA	BUILDING 321 WAA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130209	OS332WA	BUILDING 332 WAA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90059	OS338	GUARD TOWER		S		416	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130210	OS361WA	BIO WST ACCUMLTN AREA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90061	OS394	VACANT		S		144	-		112	NNSA	NNSA	O		Shutdown F		Livermore	CA
Lawrence Livermore National Laboratory	136774	OS415W	SECURITY KIOSK		S		154	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130211	OS418WA	BUILDING 418 WAA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	200870	OS454	TSF COOLING TOWERS		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89944	OS495	STORAGE		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	207155	OS513	E85 FUELING STATION		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90063	OS518	GAS CYLINDER DOCK		S		3,270	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	204249	OS601	GUARD KIOSK		S		83	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	144392	OS610E	SECURITY KIOSK		S		49	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	11	OS621	CNG FUEL STATION		S		824	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136775	OS651N	SECURITY KIOSK		S		92	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90064	OS665	MEDICAL TRIAGE AREA		S		576	-		112	NNSA	NNSA	O		Operating		Livermore	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	208115	9997	L Enfant Plaza	Not Covered		-										
Lawrence Livermore National Laboratory	205760	9998	THE AMERICAN RED CROSS	Not Covered		-										
Lawrence Livermore National Laboratory	90049	CW01	WATER SYS POT DISTRIBUTION	Not Covered		-										
Lawrence Livermore National Laboratory	90050	CW02	WATER SYS POT SUPPLY LINE	Not Covered		-										
Lawrence Livermore National Laboratory	90051	CW03	WATER SYS POT STA(ZONE7)	Not Covered		-										
Lawrence Livermore National Laboratory	90052	CW06	STORAGE WATER TANKS	Not Covered		-										
Lawrence Livermore National Laboratory	90053	DW001	WATER SYS DW TREAT PLTS	Not Covered		-										
Lawrence Livermore National Laboratory	90054	DW002	WATER SYS DW DIST	Not Covered		-										
Lawrence Livermore National Laboratory	90056	LCW06	CLG WATER SYS DISTRIBUTION	Not Covered		-										
Lawrence Livermore National Laboratory	204001	OS012A	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	204002	OS012B	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	204003	OS012C	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130229	OS041S	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130228	OS071N	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130227	OS113E	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	136771	OS122S	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130225	OS122W	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130204	OS169WA	EPD/RHWM WASTE ACC AREA	Not Covered		-										
Lawrence Livermore National Laboratory	201336	OS231S	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	136985	OS235N	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	136773	OS243W	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	90073	OS270	PROGRAMMATIC STORAGE SO PRO	Not Covered		-										
Lawrence Livermore National Laboratory	90058	OS273	LINE OF SITE VAULT	Not Covered		-										
Lawrence Livermore National Laboratory	130207	OS298A	OUTSIDE STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	130226	OS316N	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	201318	OS321E	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130208	OS321WA	BUILDING 321 WAA	Not Covered		-										
Lawrence Livermore National Laboratory	130209	OS332WA	BUILDING 332 WAA	Not Covered		-										
Lawrence Livermore National Laboratory	90059	OS338	GUARD TOWER	Not Covered		-										
Lawrence Livermore National Laboratory	130210	OS361WA	BIO WST ACCUMLTN AREA	Not Covered		-										
Lawrence Livermore National Laboratory	90061	OS394	VACANT	Not Covered		-										
Lawrence Livermore National Laboratory	136774	OS415W	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	130211	OS418WA	BUILDING 418 WAA	Not Covered		-										
Lawrence Livermore National Laboratory	200870	OS454	TSF COOLING TOWERS	Covered	29,167.339	40,171.047	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	89944	OS495	STORAGE	Not Covered		-										
Lawrence Livermore National Laboratory	207155	OS513	E85 FUELING STATION	Not Covered		-										
Lawrence Livermore National Laboratory	90063	OS518	GAS CYLINDER DOCK	Not Covered		-										
Lawrence Livermore National Laboratory	204249	OS601	GUARD KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	144392	OS610E	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	11	OS621	CNG FUEL STATION	Not Covered		-										
Lawrence Livermore National Laboratory	136775	OS651N	SECURITY KIOSK	Not Covered		-										
Lawrence Livermore National Laboratory	90064	OS665	MEDICAL TRIAGE AREA	Not Covered		-										

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Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore National Laboratory	140981	OS682	NIF CENTRAL PLANT		S		-	8,880		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	140860	OS683	NIF COOLING TOWER		S		-	2,104		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90535	OS812B	VACANT		S		995	-		112	NNSA	NNSA	O		Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90536	OS812C	VACANT		S		1,007	-		112	NNSA	NNSA	O		Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	203715	OS812P	MITIGATION POND		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	135317	OS845C	EWTF BURN PAD		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90578	OS858	DROP TOWER COMPLEX STORAGE		S		1,506	-		112	NNSA	NNSA	O		Operating	9999	Tracy	CA
Lawrence Livermore Lab Site 300	134294	OS858B	DROP TOWER - VACANT		S		-	-		112	NNSA	NNSA	O		Shutdown F		Tracy	CA
Lawrence Livermore Lab Site 300	90611	OS883	EPD/RHWM CNTNR STRG UNIT		S		3,829	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131777	OS891	MAIN GATE KIOSKS A		S		50	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90613	OS894	PROCESS AREA POST		S		152	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90615	OS896A	EAST OBSERVATION POST		S		33	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90616	OS897	WEST CONTROL POST		S		294	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90617	OS898	WEST OBSERVATION POST		S		572	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90618	OS899	PISTOL RANGE		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136722	OS899C	LIVE FIRE HOUSE		S		11,140	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	138148	OS899D	RIFLE RANGE		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90619	OSM1	MAGAZINE-STORAGE VAULT		S		387	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	143336	OSM10	HE STORAGE MAGAZINE		S		104	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	143203	OSM15	HE STORAGE MAGAZINE		S		120	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90620	OSM2	HE WASTE STORAGE MAGAZINE		S		538	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131778	OSM21	MAGAZINE-STORAGE VAULT		S		386	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131779	OSM22	MAGAZINE-STORAGE VAULT		S		390	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131780	OSM23	MAGAZINE - STORAGE VAULT		S		369	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131781	OSM24	MAGAZINE-STORAGE VAULT		S		48	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90621	OSM3	HE WASTE STORAGE MAGAZINE		S		137	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90622	OSM30	MAGAZINE-STORAGE VAULT		S		386	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90623	OSM31	MAGAZINE-STORAGE VAULT		S		389	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90624	OSM32	MAGAZINE-STORAGE VAULT		S		389	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90625	OSM33	HE STORAGE MAGAZINE		S		139	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90626	OSM34	MAGAZINE-HE CUBCL STRGE		S		36	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90602	OSM35	MAGAZINE-STORAGE VAULT		S		386	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90603	OSM36	HE STORAGE MAGAZINE		S		386	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90604	OSM37	MAGAZINE-HE CUBCL STRGE		S		36	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	132166	OSM38	MAGAZINE-STORAGE VAULT		S		641	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90627	OSM4	HE WASTE STORAGE MAGAZINE		S		137	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	132167	OSM41	MAGAZINE-STORAGE VAULT		S		641	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131782	OSM5	HE WASTE STORAGE MAGAZINE		S		140	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90628	OSM51	HE STORAGE MAGAZINE		S		138	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134700	OSM52	MAGAZINE-STORAGE VAULT		S		492	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	203825	OSM58	STORAGE MAGAZINE		S		61	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90630	OSM7	MAGAZINE-STORAGE VAULT		S		387	-		112	NNSA	NNSA	O		Operating		Tracy	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore National Laboratory	140981	OS682	NIF CENTRAL PLANT	Not Covered		-										
Lawrence Livermore National Laboratory	140860	OS683	NIF COOLING TOWER	Not Covered		-										
Lawrence Livermore Lab Site 300	90535	OS812B	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90536	OS812C	VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	203715	OS812P	MITIGATION POND	Not Covered		-										
Lawrence Livermore Lab Site 300	135317	OS845C	EWTF BURN PAD	Not Covered		-										
Lawrence Livermore Lab Site 300	90578	OS858	DROP TOWER COMPLEX STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	134294	OS858B	DROP TOWER - VACANT	Not Covered		-										
Lawrence Livermore Lab Site 300	90611	OS883	EPD/RHWM CNTNR STRG UNIT	Not Covered		-										
Lawrence Livermore Lab Site 300	131777	OS891	MAIN GATE KIOSKS A	Not Covered		-										
Lawrence Livermore Lab Site 300	90613	OS894	PROCESS AREA POST	Not Covered		-										
Lawrence Livermore Lab Site 300	90615	OS896A	EAST OBSERVATION POST	Not Covered		-										
Lawrence Livermore Lab Site 300	90616	OS897	WEST CONTROL POST	Not Covered		-										
Lawrence Livermore Lab Site 300	90617	OS898	WEST OBSERVATION POST	Not Covered		-										
Lawrence Livermore Lab Site 300	90618	OS899	PISTOL RANGE	Not Covered		-										
Lawrence Livermore Lab Site 300	136722	OS899C	LIVE FIRE HOUSE	Not Covered		-										
Lawrence Livermore Lab Site 300	138148	OS899D	RIFLE RANGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90619	OSM1	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	143336	OSM10	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	143203	OSM15	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90620	OSM2	HE WASTE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	131778	OSM21	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	131779	OSM22	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	131780	OSM23	MAGAZINE - STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	131781	OSM24	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90621	OSM3	HE WASTE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90622	OSM30	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90623	OSM31	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90624	OSM32	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90625	OSM33	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90626	OSM34	MAGAZINE-HE CUBCL STRGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90602	OSM35	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90603	OSM36	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90604	OSM37	MAGAZINE-HE CUBCL STRGE	Not Covered		-										
Lawrence Livermore Lab Site 300	132166	OSM38	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90627	OSM4	HE WASTE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	132167	OSM41	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	131782	OSM5	HE WASTE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90628	OSM51	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	134700	OSM52	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	203825	OSM58	STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	90630	OSM7	MAGAZINE-STORAGE VAULT	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore Lab Site 300	90631	OSM70	MAGAZINE-STORAGE VAULT		S		305	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90632	OSM71	MAGAZINE-STORAGE VAULT		S		136	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90633	OSM72	MAGAZINE-STORAGE VAULT		S		136	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90634	OSM8	MAGAZINE-STORAGE VAULT		S		387	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90635	OSM80	M80 READY VAULT		S		389	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136582	OSM817C	HE STORAGE MAGAZINE		S		366	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131309	OSM82	MAGAZINE - STORAGE		S		62	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90636	OSM83	M83 READY VAULT		S		422	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136583	OSM832B	EXPLOSIVES STORAGE		S		568	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136584	OSM832D	HE SHIPPING AND RECEIVING		S		572	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134140	OSM834M	HE STORAGE		S		1,690	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134043	OSM854H	MAGAZINE STORAGE		S		3,205	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	134139	OSM854V	STORAGE		S		500	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136585	OSM857	MAGAZINE STORAGE VAULT		S		457	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	135970	OSV822AE	CONTRL MTLS-STRG VAULT		S		297	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore National Laboratory	90066	U011	ERD TREATMNT FAC A		S		402	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90067	U042	ERD TREATMNT FAC B		S		402	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90069	U119	TELCOM NODE #11		S		2,061	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	131805	U172	TELCOM NODE #12		S		675	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90070	U187	ERD TREATMNT FAC		S		1,225	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90071	U193	SEWER DIVERSION FAC		S		72	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	89745	U271T	MICROWAVE TOWER		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133599	U283	TELCOM NODE #3		S		216	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90074	U291	LCW STATION		S		6,981	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90075	U295	PUMP HOUSE		S		1,128	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133600	U299	TELCOM NODE #4		S		675	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133601	U313A	TELCOM NODE #10		S		216	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90076	U313B	HC EMRGCY COMM RADIO CTR		S		336	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90078	U325	LCW CONTROL		S		5,072	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	131775	U328C	PE/LCW CONTROL BLDG		S		300	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90079	U416	BOILER FACILITY		S		743	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90080	U424	ELECTRICAL SUBSTATION		S		4,456	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133602	U430	TELCOM NODE #9		S		675	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133603	U448	TELCOM NODE #8		S		675	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133604	U470	TELCOM NODE #2		S		675	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	90081	U472	ERD TREATMENT FAC D		S		1,313	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133605	U599	TELCOM NODES 5&6		S		688	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136630	U6042	MOCHO POT PUMP STA HH		S		352	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136631	U6047	SANDIA WTR TNKS CNTRL STATN		S		268	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	133606	U664	TELCOM NODE #7		S		216	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90639	U815	CNTRL AIR PLANT/STRG		S		1,300	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133274	U842	INSTAL COMM HUT#1		S		411	-		112	NNSA	NNSA	O		Operating		Tracy	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore Lab Site 300	90631	OSM70	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90632	OSM71	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90633	OSM72	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90634	OSM8	MAGAZINE-STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	90635	OSM80	M80 READY VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	136582	OSM817C	HE STORAGE MAGAZINE	Not Covered		-										
Lawrence Livermore Lab Site 300	131309	OSM82	MAGAZINE - STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	90636	OSM83	M83 READY VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	136583	OSM832B	EXPLOSIVES STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	136584	OSM832D	HE SHIPPING AND RECEIVING	Not Covered		-										
Lawrence Livermore Lab Site 300	134140	OSM834M	HE STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	134043	OSM854H	MAGAZINE STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	134139	OSM854V	STORAGE	Not Covered		-										
Lawrence Livermore Lab Site 300	136585	OSM857	MAGAZINE STORAGE VAULT	Not Covered		-										
Lawrence Livermore Lab Site 300	135970	OSV822AD	CONTRL MTLS-STRG VAULT	Not Covered		-										
Lawrence Livermore National Laboratory	90066	U011	ERD TREATMNT FAC A	Not Covered		-										
Lawrence Livermore National Laboratory	90067	U042	ERD TREATMNT FAC B	Not Covered		-										
Lawrence Livermore National Laboratory	90069	U119	TELCOM NODE #11	Not Covered		-										
Lawrence Livermore National Laboratory	131805	U172	TELCOM NODE #12	Not Covered		-										
Lawrence Livermore National Laboratory	90070	U187	ERD TREATMNT FAC	Not Covered		-										
Lawrence Livermore National Laboratory	90071	U193	SEWER DIVERSION FAC	Not Covered		-										
Lawrence Livermore National Laboratory	89745	U271T	MICROWAVE TOWER	Not Covered		-										
Lawrence Livermore National Laboratory	133599	U283	TELCOM NODE #3	Not Covered		-										
Lawrence Livermore National Laboratory	90074	U291	LCW STATION	Covered	33,280.085	19,204.900	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	Please update evaluation date.
Lawrence Livermore National Laboratory	90075	U295	PUMP HOUSE	Not Covered		-										
Lawrence Livermore National Laboratory	133600	U299	TELCOM NODE #4	Not Covered		-										
Lawrence Livermore National Laboratory	133601	U313A	TELCOM NODE #10	Not Covered		-										
Lawrence Livermore National Laboratory	90076	U313B	HC EMRGCY COMM RADIO CTR	Not Covered		-										
Lawrence Livermore National Laboratory	90078	U325	LCW CONTROL	Covered	66,062.547	33,213.129	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Facility not benchmarked	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	131775	U328C	PE/LCW CONTROL BLDG	Covered	3,904.140	N/A	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	90079	U416	BOILER FACILITY	Not Covered		-										
Lawrence Livermore National Laboratory	90080	U424	ELECTRICAL SUBSTATION	Not Covered		-										
Lawrence Livermore National Laboratory	133602	U430	TELCOM NODE #9	Not Covered		-										
Lawrence Livermore National Laboratory	133603	U448	TELCOM NODE #8	Not Covered		-										
Lawrence Livermore National Laboratory	133604	U470	TELCOM NODE #2	Not Covered		-										
Lawrence Livermore National Laboratory	90081	U472	ERD TREATMENT FAC D	Not Covered		-										
Lawrence Livermore National Laboratory	133605	U599	TELCOM NODES 5&6	Not Covered		-										
Lawrence Livermore National Laboratory	136630	U6042	MOCHO POT PUMP STA HH	Covered	4,150.964	N/A	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager	2014	Portfolio Manager Benchr	Released	If available, provide estimated total water used.
Lawrence Livermore National Laboratory	136631	U6047	SANDIA WTR TNKS CNTRL STATN	Not Covered		-										
Lawrence Livermore National Laboratory	133606	U664	TELCOM NODE #7	Not Covered		-										
Lawrence Livermore Lab Site 300	90639	U815	CNTRL AIR PLANT/STRG	Not Covered		-										
Lawrence Livermore Lab Site 300	133274	U842	INSTAL COMM HUT#1	Not Covered		-										

FIMS Facility Information - *No Action/Informational Only*

Site Name	Seq No	Prop ID	Prop Name	Excl Part	Prop Type	GSFT	EC Bldg Fac	EC Metered	Justification	Site #	PSO	Lead PSO	Ownership	Outgrant Ind	Status	Est Disposition Yr	Location City	Location State
Lawrence Livermore Lab Site 300	129606	U844	CW BOOSTER STATION #1		S		374	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90641	U846	ELECTRICAL SUBSTATION		S		497	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	131776	U847	CW BOOSTER STATION #2		S		350	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90642	U849	COMM RADIO TRANS		S		100	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	140985	U849A	COMM RADIO TWR CNTRL BLDG		S		138	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	140983	U849B	COMM TWR GENERATOR BLDG		S		177	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	140984	U849C	COMM RADIO TWR CNTRL BLDG		S		336	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90643	U853	CW BOOSTER STATION #3		S		352	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	136986	U865D	ELECTRICAL SUBSTATION		S		2,450	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	133275	U866	INSTAL COMM HUT #2		S		413	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	90599	U882T	S300 MICROWAVE TOWER		S		-	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	137314	U887	WELL 20 POTBL WATER WELL		S		141	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	137315	U888	WELL 18 POTBL WATER WELL		S		171	-		112	NNSA	NNSA	O		Operating		Tracy	CA

FIMS Facility Information - *No Action/Informational Only*				Covered Facility Information - *Optional to Update*											Notes	
Site Name	Seq No	Prop ID	Prop Name	Covered or Not Covered?	Estimated Total Energy Used (10^6 x Btu/Yr)	Estimated Total Water Used (10^3 x Gal/Yr)	Anticipated or Actual Energy Evaluation Date (MM/YY)	Anticipated or Actual Water Evaluation Date (MM/YY)	Anticipated or Actual Evaluation Type/Level	Retro/Re-Commissioning Assessment	Benchmarking Status	Benchmarking System	Last Year Benchmarking Released to CTS	Benchmarking Notes	itional Informa	Review/Requests
Lawrence Livermore Lab Site 300	129606	U844	CW BOOSTER STATION #1	Not Covered		-										
Lawrence Livermore Lab Site 300	90641	U846	ELECTRICAL SUBSTATION	Not Covered		-										
Lawrence Livermore Lab Site 300	131776	U847	CW BOOSTER STATION #2	Not Covered		-										
Lawrence Livermore Lab Site 300	90642	U849	COMM RADIO TRANS	Not Covered		-										
Lawrence Livermore Lab Site 300	140985	U849A	COMM RADIO TWR CNTRL BLDG	Not Covered		-										
Lawrence Livermore Lab Site 300	140983	U849B	COMM TWR GENERATOR BLDG	Not Covered		-										
Lawrence Livermore Lab Site 300	140984	U849C	COMM RADIO TWR CNTRL BLDG	Not Covered		-										
Lawrence Livermore Lab Site 300	90643	U853	CW BOOSTER STATION #3	Not Covered		-										
Lawrence Livermore Lab Site 300	136986	U865D	ELECTRICAL SUBSTATION	Not Covered		-										
Lawrence Livermore Lab Site 300	133275	U866	INSTAL COMM HUT #2	Not Covered		-										
Lawrence Livermore Lab Site 300	90599	U882T	S300 MICROWAVE TOWER	Not Covered		-										
Lawrence Livermore Lab Site 300	137314	U887	WELL 20 POTBL WATER WELL	Not Covered		-										
Lawrence Livermore Lab Site 300	137315	U888	WELL 18 POTBL WATER WELL	Not Covered		-										

Appendix

DOE Building Exclusion Self-Certification Form FY2015

Part J Exclusions

Part G Exclusions

DOE BUILDING EXCLUSION
SELF-CERTIFICATION FORM
FY 2015

FROM: Lawrence Livermore National Laboratory
Program Office Landlord: NNSA

TO: Sustainability Performance Office

DATE: November 23, 2015

SUBJECT: SELF CERTIFICATION FORM FOR THE ENERGY INTENSITY GOAL OF EISA 2007

Each buildings or group of buildings that are to be excluded under the criteria for a Part G or Part H exclusion is/are metered for energy consumption and their consumption is reported annually.

If any building has been excluded under the criteria for Part H for impracticability then all practicable energy and water conservation measures with a payback of less than 10 years have been installed. A justification statement that explains why process-dedicated energy in the facility may impact the ability to meet the goal has been provided in the FIMS Report.

I certify that the buildings listed on the Excluded Buildings List produced by FIMS as Report 063 for Lawrence Livermore National Laboratory (page 1 of 1 attached) and the Other Structures listed in Part J (attached) meet the exclusion criteria in *Guidelines Establishing Criteria for Excluding Buildings* published by FEMP on January 27, 2006.

Karin King

DOE/NNSA Field Office Official – printed name

DOE/NNSA Field Office Official – signature

11/24/15
Date

Contact Information:
Name: Karin King, CEM, COR, LEED AP
Phone: (925) 422-0756

Name: Rich Shonfeld
Phone: (925) 422-0812
eMail: shonfeld1@llnl.gov

Definitions of Exclusions PART B through PART H

PART B

— Building or group of buildings is privately owned and privately occupied but happen to be co-located on Federal lands or military installations. (Privately owned buildings listed in FIMS will not be excluded in this Part.)

PART C

— Building or group of buildings has Fully-Serviced Leases.

PART D

— Building or group of buildings is/are essentially structures such as outside parking garages which consume essentially only lighting energy, yet are classified or categorized as buildings.

PART E

— Building or group of buildings has energy usage that is skewed significantly due to reasons such as: buildings entering or leaving the inventory during the year, buildings down-scaled operationally to prepare for decontamination, decommissioning and disposal, and buildings undergoing major renovation and/or major asbestos removal.

PART F

— Building or group of buildings is/are leased space where the Government may pay for some energy but not all, the space comprises only part of a building, or the expiration date of the lease limits the ability to undertake energy conservation measures.

PART G (BOTH statements in this part must be met for exclusion)

— Building or group of buildings is/are separately-metered energy-intensive loads that are driven by mission and operational requirements, not necessarily buildings, and not influenced by conventional building energy conservation measures.

AND

— Building or group of buildings is/are metered for energy consumption and their consumption will be reported annually.

PART H (BOTH statements in this part must be met for exclusion)

— Building or group of buildings can demonstrate four critical findings at the excluded building(s): 1) Energy requirements are impracticable; 2) All Federally required energy management reports have been completed and submitted; 3) Has achieved compliance with all energy efficiency requirements; *and* 4) Implementation of all practicable, life cycle cost-effective projects.

AND

— Building or group of buildings is/are metered for energy consumption and their consumption will be reported annually.

Part J

FIMS Site Number	Site Name	Prop Sequence	Property ID	Prop Name	EXCLUSION PART	PROPERTY TYPE	Comments
14002	Lawrence Livermore National Laboratory	200806	453	TERA SCALE FACILITY	G	B	Note 1
14002	Lawrence Livermore National Laboratory	200870	OS 454	TSF COOLING TOWERS	G	S	Note 1
14002	Lawrence Livermore National Laboratory	89922	451	COMPUTATION FACILITY BLDG	G	B	Note 2
14002	Lawrence Livermore National Laboratory	140320	581	LTAB	G	B	Note 3
14002	Lawrence Livermore National Laboratory	137350	681	OPTICS ASSMBY BLDG	G	B	Note 3
14002	Lawrence Livermore National Laboratory	140981	OS 682	NIF CENTRAL PLANT	G	S	Note 3
14002	Lawrence Livermore National Laboratory	140860	OS 683	NIF COOLING TOWER	G	S	Note 3

Note 1 TSF facilities include B453 and OS 454. Electric metered data has been identified via review of 1-line diagrams and coordination with dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-90 data collection software. The Computations facility management team identified process and building related, non-process, meters. The computer floor (48,000-SF) will be reported as Metered Process per the Instructions for DOE Building Exclusions Self-Certification guidance, because lighting and HVAC electric power use for the computer floor are included, to some part, and are not totally metered separately. The remaining building area of 193,197-SF will be reported as Energy Consuming Buildings/Facilities. Process energy use by the TSF, B453 and the cooling tower, OS 454 will be reported under "Metered Process"; facility area is 0-SF, thus, the reporting category is moot.

Note 2 Electric metered data has been identified via review of 1-line diagrams and coordination with the facility management team and reports from dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-90 data collection software. The Computations facility management team identified process and building related, process & non-process, meters.

Building 451 22,221 SF - to Metered Process Category = Computer Operations areas per LLNL data base

Natural Gas Usage: Virtually no reheat is used for the (process) computer area, thus, natural gas usage is NOT excluded.

Note 3 Electric power and natural gas consumption by these facilities is excluded, placed into the Metered Process category for these facilities. The building areas have also been placed into the Metered Process category as lighting and HVAC energy use are not separately metered.

581	693,002	SF - to Metered Process Category
681	46,819	SF - to Metered Process Category
OS 682	8,880	SF - to Metered Process Category
OS 683	2,104	SF - to Metered Process Category

B681 is the Optics Assembly Building and it directly supports B581 National Ignition Facility (NIF) that serves a national security mission. The high process energy used at B681 is primarily from the HVAC air handling equipment used for the clean-room environment (Class 10000) necessary for the operation of the optics plant. Lighting and HVAC are not separately metered at B681 and is placed under the Metered Process category per the Guidelines Establishing Criteria for Excluding Buildings published by FEMP on January 27, 2006. It is impractical to apply ordinary LCC ECMs to B681 based on its energy intensiveness in which, to quote the Guidelines, conventional performance measures are rendered meaningless by an overwhelming proportion of process dedicated energy. Facilities with energy-intensive processes where agencies can clearly demonstrate that process-dedicated energy overwhelms other building energy consumption, and the fluctuation in the operation of the process would significantly impact meeting the energy performance requirements, may be excluded.

TSF (B453) serves a national security mission. B453 houses the High Performance Computers that are all high energy intensive consumers. Cooling Tower (OS454) supports TSF by ultimately removing the heat load generated by the chillers. The high energy load at B453 comes from the chillers and air handling units that provide cooling for the high performancer computers. It is impractical to apply ordinary LCC ECMs to B453 based on its energy intensiveness in which, to quote the Guidelines, conventional performance measures are rendered meaningless by an overwhelming proportion of process dedicated energy. Facilities with energy-intensive processes where agencies can clearly demonstrate that process-dedicated energy overwhelms other building energy consumption, and the fluctuation in the operation of the process would significantly impact meeting the energy performance requirements, may be excluded. However, a 'Free Cooling' energy saving project has been designed and estimated for B453 and needs funding to be implemented.

U.S. Department of Energy
Facilities Information Management System
Energy Consuming Excluded Buildings and Trailers List

Program Office **NNSA**

Site **14002** **Lawrence Livermore National Laboratory**

Property ID Justification Comments:	Real Property Unique ID	Property Name	Exclusion Part	Property Type	Gross SQFT	Excluded Facilities (GSF)
112	203771	COMPUTER CENTER	G - Metered intensive loads	Building	45,512	45,511
The building is a computing facility that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy.						
115	89549	COMPUTER CENTER	G - Metered intensive loads	Building	17,140	17,140
The building is a computing facility that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy						
117	89551	LLNL NATIONAL SECURITY COMPUTING CENTER	G - Metered intensive loads	Building	11,370	11,369
The building is a computing facility that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy.						
133	89563	G.S. / CENTRAL PLANT/DPRF/NTTC	G - Metered intensive loads	Building	5,631	5,630
The building is a central utility station that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building.						
256	89727	TELCOM NODE #1	G - Metered intensive loads	Building	5,937	5,936
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation.						
313	89770	REGIONAL DISPATCH CENTER	G - Metered intensive loads	Building	4,352	4,351
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation.						

This report qualifies DOE Owned, DOE Leased, Contractor Leased, Contractor License and Permit buildings and trailers where the Excluded Facilities (GSF) is greater than zero.

U.S. Department of Energy
Facilities Information Management System
Energy Consuming Excluded Buildings and Trailers List

Program Office **NNSA**

Site **14002** **Lawrence Livermore National Laboratory**

Property ID Justification Comments:	Real Property Unique ID	Property Name	Exclusion Part	Property Type	Gross SQFT	Excluded Facilities (GSF)
331	89801	TRITIUM FACILITY	G - Metered intensive loads	Building	30,484	30,483
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation.						
332	89802	PU FACILITY	G - Metered intensive loads	Building	104,787	104,786
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation.						
334	89803	HETB	G - Metered intensive loads	Building	10,668	10,667
The building supports a Nuclear Facilities whose energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional.						
335	89804	SUPPORT FACILITY	G - Metered intensive loads	Building	11,988	11,987
The building supports a Nuclear Facilities whose energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional.						
439	89908	WCI LIVERMORE COMPUTING FACILITY	G - Metered intensive loads	Building	12,055	12,054
The building is a computing facility that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy.						
451	89922	WCI LIVERMORE COMPUTING FACILITY	G - Metered intensive loads	Building	51,398	22,221
Electric metered data has been identified via review of 1-line diagrams and coordination with the facility management team and reports from dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-9						

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U.S. Department of Energy
Facilities Information Management System
Energy Consuming Excluded Buildings and Trailers List

Program Office **NNSA**

Site **14002** **Lawrence Livermore National Laboratory**

Property ID Justification Comments:	Real Property Unique ID	Property Name	Exclusion Part	Property Type	Gross SQFT	Excluded Facilities (GSF)
453	200806	WCI LIVERMORE COMPUTING FACILITY	G - Metered intensive loads	Building	240,598	48,000
TSF facilities include B453 and OS 454. Electric metered data has been identified via review of 1-line diagrams and coordination with dedicated electric meter reports prepared by PE / Site Utilities Division / Electric Utilities Group using the MV-90 dat						
581	140320	THE NATIONAL IGNITION FACILITY	G - Metered intensive loads	Building	696,968	693,172
Electric power and natural gas consumption by these facilities is excluded, placed into the Metered Process category for these facilities. The building areas have also been placed into the Metered Process category as lighting and HVAC energy use are not separately metered.						
681	137350	OPTICS ASSEMBLY BLDG	G - Metered intensive loads	Building	46,818	46,818
Electric power and natural gas consumption by these facilities is excluded, placed into the Metered Process category for these facilities. The building areas have also been placed into the Metered Process category as lighting and HVAC energy use are not separately metered.						
693	90044	EPD/RHWM WASTE STORAGE	G - Metered intensive loads	Building	12,000	11,999
The building supports a Nuclear Facilities whose energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional.						
695	140676	EPD/RHWM LIQUID WASTE PROCSSING	G - Metered intensive loads	Building	46,504	46,503
The building supports a Nuclear Facilities whose energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional.						
696	135831	EPD/RHWM WST PRCSSING-SOLID	G - Metered intensive loads	Building	21,381	21,380
The building supports a Nuclear Facilities whose energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional.						

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U.S. Department of Energy
Facilities Information Management System
Energy Consuming Excluded Buildings and Trailers List

Program Office **NNSA**

Site **14002** **Lawrence Livermore National Laboratory**

Property ID Justification Comments:	Real Property Unique ID	Property Name	Exclusion Part	Property Type	Gross SQFT	Excluded Facilities (GSF)
U291	90074	LCW STATION	G - Metered intensive loads	Building	8,631	8,631
The building is a central utility station that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building.						
U325	90078	LCW CONTROL SUPPORT	G - Metered intensive loads	Building	5,072	5,071
The building is a central utility station that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building.						
U6042	136630	MOCHO POT PUMP STA HH	G - Metered intensive loads	Building	354	353
The building is a central pumping station that is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building.						

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