Lawrence Livermore National Laboratory

FY2015 Site Sustainability Plan

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FY2015 Site Sustainability Plan

December 15, 2014

Approved by:

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Table of Contents

List of Figures vii

List of Highlights viii

List of Acronyms ix

1.0 Executive Summary 1

Overview of the Lawrence Livermore National Laboratory 1

Site Management Vision 1

Major Planning Assumptions and Issues 2

Approaches to Site Management 2

Funding Strategies 3

Successes and Challenges 3

Energy Challenges 3

Summary Table of Goal Targets 4

2.0 Performance Review and Plan Narrative 10

SSPP Goal 1.1

28% Scope 1 & 2 GHG reduction by FY2020 from a FY2008 baseline 11

Overall Reduction of Scope 1 & 2 Greenhouse Gas Emissions 12

Performance Status 12

Plans and Projected Performance 12

Resources Required 13

SSPP Goal 1.2

13% Scope 3 GHG reduction by FY2020 from a FY2008 baseline 14

Performance Status 14

Plans and Projected Performance 15

Resources Required 16

SSPP Goal 2.1

30% energy intensity reduction by FY2015 from a FY2003 baseline 17

Performance Status..... 17

Plans and Projected Performance 19

Resources Required 21

SSPP Goal 2.2

EISA Section 432 energy and water evaluations 22

SSPP Goal 2.3

Individual buildings or processes metering for 90% of electricity (by October 1, 2012); for 90% of steam, natural gas, and chilled water (by October 1, 2015)..... 23

Performance Status..... 23

Plans and Projected Performance 23

Resources Required 25

SSPP Goal 2.4

Cool roofs, unless uneconomical, for roof replacements unless project already has CD-2 approval. New roofs must have thermal resistance of at least R-30... 26

Performance Status 26

Plans and Projected Performance 26

Resources Required 26

SSPP Goal 2.5

15% of existing buildings greater than 5,000 GSF are compliant with the Guiding Principles (GPs) of HPSB by FY2015..... 27

Performance Status..... 27

Plans and Projected Performance 27

Resources Required 27

SSPP Goal 2.6

All new construction, major renovations, and alterations of buildings greater than 5,000 GSF must comply with the Guiding Principles (GPs) 30

Performance Status..... 30

Plans and Projected Performance 30

Resources Required 30

SSPP Goal 2.8

Regional and local planning 31

Transportation..... 31

Plans and Projected Performance..... 32

Local Planning Coordination..... 32

Energy..... 32

Environmental Planning..... 33

Renewable Energy..... 34

SSPP Goal 3.1

10% annual increase in fleet alternative fuel consumption by FY2015 relative to a FY2005 baseline 35

Performance Status..... 35

Plans and Projected Performance 35

SSPP Goal 3.2

2% annual reduction in fleet petroleum consumption by FY2020 relative to a FY2005 baseline..... 36

Performance Status..... 36

Plans and Projected Performance 36

SSPP Goal 3.3

100% of light duty vehicle purchases must consist of alternative fuel vehicles (AFV) by FY2015 and thereafter (75% FY2000–2015)..... 37

Performance Status..... 37

Plans and Projected Performance 37

DOE Fleet Management Information System (Fed FMS)..... 38

SSPP Goal 4.1

26% water intensity reduction by FY2020 from a FY2007 baseline..... 39

Performance Status..... 39

Plans and Projected Performance 41

Resources Required 43
NNSA Sustainability Awards..... 44
SSPP Goal 4.2
20% water consumption reduction of industrial, landscaping, and agricultural (ILA) water by FY2020 from a FY2010 baseline..... 45
Performance Status..... 45
Storm Water Management..... 45
Storm Water Management Performance Status 46
Storm Water Management Planned Actions 46
Storm Water Management Resources Required 46
Resources Required 46
SSPP Goals 5.1 and 5.2
Divert at least 50% of non-hazardous solid waste by FY2015 47
Performance Status..... 47
Plans and Projected Performance 48
Resources Required 49
SSPP Goal 6.1
Procurements meet sustainability requirements by including necessary provisions and clauses (sustainable/biobased procurements)..... 52
Performance Status..... 52
Sustainable Acquisition Highlights 52
Plans and Projected Performance 53
Resources Required 53
SSPP Goal 7.1
All data centers are metered to measure a monthly Power Utilization Effectiveness (PUE) of 100% by FY2015..... 54
Performance Status..... 54
Plans and Projected Performance 54
Resources Required 54

SSPP Goal 7.2

Maximum annual weighted average PUE of 1.4 by FY2015 55

Performance Status..... 55

Plans and Projected Performance 56

Resources Required..... 57

SSPP Goal 7.3

Electronic stewardship — 100% of eligible PCs, laptops, and monitors with power management actively implemented and in use by FY2012 58

Performance Status..... 58

Plans and Projected Performance 58

Funding Strategy..... 58

SSPP Goal 8.1

20% of annual electricity consumption from renewable sources by FY2020 and thereafter (7.5% FY2013) 59

Performance Status..... 59

Plans and Projected Performance 60

SSPP Goal 9

Climate Change 61

Advancing Climate Science 61

Stakeholder Guidance on Climate Change Adaptation 61

Developing Resilience to Climate Change Adaptation for the LLNL Site 61

External Stakeholder Assistance to Climate Change Adaptation 63

SSPP Goal 10

Energy Performance Contracts..... 64

Challenges to Use of Energy Performance Contracts 64

Consolidated Energy Data Report (CEDR)

1.0 Table of Contents..... CEDR-1

1.1 CEDR Content CEDR-2

1.2a Performance Summary CEDR-3

1.2b GHG Emissions Summary..... . CEDR-4

2.1 Energy Management Data Report (Funds, Meters, Training) CEDR-5

2.2 Sustainable Acquisition CEDR-7

3.1 Facilities Utility/Fuel Consumption and Cost (Energy & Water).....CEDR-8

3.2a Operating On-Site Renewable Energy Systems CEDR-14

3.2b Purchased Renewable Energy CEDR-15

3.3a Active Conservation and Renewable Energy Measures CEDR-16

3.3b Cancelled Conservation and Renewable Energy Measures.....CEDR-36

3.4 Building Inventory Changes.....CEDR-40

4.1 Source Energy Savings Credit.....CEDR-41

5.1 Data Centers CEDR-42

5.2 Electronic Stewardship — Acquisition and Disposition.....CEDR-51

5.3 Electronic Stewardship — Operations CEDR-55

6.1 Fugitive Emissions: Mixed Refrigerants.....CEDR-56

6.2 Fugitive Emissions: Fluorinated Gases and Others CEDR-58

6.3 Industrial Process Emissions by Process CEDR-59

7.1a Fugitive Emissions: On-Site Wastewater Treatment.....CEDR-60

7.1b Contracted Wastewater Treatment.....CEDR-61

8.1 Business Air Travel CEDR-62

8.2 Business Ground Travel CEDR-63

8.3 Employee Commuting CEDR-64

9.1a Fugitive Emissions: On-Site Landfills & Municipal Solid Waste Facilities.. .....CEDR-66

9.1b Fugitive Emissions: Off-Site Landfills & Municipal Solid Waste Facilities.. .....CEDR-67

9.1c Diversion of Municipal Solid Waste & Construction & Demolition Debris. CEDR-68

10 Fleet Fuel.....CEDR-69

11 Covered Facilities CEDR-79

Appendix

1 DOE Building Exclusion Self-Certification Form FY14
Part G Exclusion Letter, Part J Exclusions and Part G Exclusions

List of Figures

Figure 2-1 Three major scopes of GHG emissions 11
Figure 2-4a Scope 1 & 2 CO_2 reduction by source 13
Figure 2-4b Scope 3 CO_2 reduction by source..... 14
Figure 2-5 Personal Vehicle Charging Station 15
Figure 2-6 Energy use intensity savings through end of FY2013..... 17
Figure 2-7 LLNL FY2013 energy use..... 18
Figure 2-8 Cooling degree days..... 19
Figure 2-8a Heating degree days 19
Figure 2-9 Site actual and projected electricity consumption 20
Figure 2-10 LLNL energy load forecast 21
Figure 2-11 Proposed projects in support of SSPP Goal 2.1 21
Figure 2-12 LLNL's metering portfolio..... 23
Figure 2-13 Proposed projects in support of SSPP Goal 2.3 25
Figure 2-14 Proposed projects in support of SSPP Goal 2.4 26
Figure 2-16 List of projects that would allow LLNL to meet HPSB goal ... 28
Figure 2-17 Additional Buildings identified for HPSB assessment 27
Figure 2-18 Proposed new construction projects 30
Figure 2-19 Alternative fuel dispensed 35
Figure 2-20 LLNL fleet reduction 36
Figure 2-21 Potable water reduction progress 39
Figure 2-22 LLNL FY2014 potable water use breakdown..... 40
Figure 2-23 Proposed projects in support of SSPP Goal 4.1 43
Figure 2-24 Progress in reducing white office paper usage 47
Figure 2-26 Priority chemical tracking 49
Figure 2-27 CAC installation in the EDC..... 55
Figure 2-28 CAC installation in the ERDC..... 55

Figure 2-29 CAC installation in the network core 55
Figure 2-30 PUE reduction when projects from study are implemented .. 56
Figure 2-31 Proposed projects in support of SSPP Goal 7.2 57
Figure 2-32 Proposed projects in support of SSPP Goal 7.3..... 58
Figure 2-34 Large Flowered Fiddleneck... 33

List of Highlights

LLNL Uses Treated Well Water 42
Potable Water Savings Approaches to Meet Goal 43
NNSA 2014 Sustainability Awards 44
Green Events..... 50
ReUseIt Program..... 51

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
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
PV	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) received on September 16, 2014, and the supplemental guidance received on September 29, 2014, as a deliverable for the DOE Order 436.1 *Departmental Sustainability* requirement. This SSP has been prepared prior to a full evaluation of the potential impacts associated with contract modifications established in early October 2014. Subsequent communications will be developed to detail the potential impacts.

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 FY2014, LLNL, along with many other federal facilities, are under a continuing resolution that provides funding to the federal government through December 2014.

In FY2014, the LLNL Operations and Business Principal Directorate, the organization that has provided most of the indirect funding for LLNL's sustainability projects, has had to redirect funding to other higher priority activities:

- Twenty-five natural gas boilers were at risk of becoming non-compliant with the Bay Area Air Quality Management District (BAAQMD). LLNL management made it a priority to ensure the boilers are in compliance. Therefore, LLNL committed $7M to bring all the boilers into BAAQMD compliance.
- Due to budget cuts, the F&I Maintenance and Utilities Services Department (MUSD) has been underfunded for the preventative maintenance program. An adequately funded preventative maintenance program is essential to keeping real property and programmatic equipment in efficient operating condition. LLNL obligated an additional $8M in indirect funding to the preventative maintenance program in FY14.

In spite of the impacts described above, 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 FY2015 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, and one new building is in the LEED certification process. 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 132 MBtu of natural gas each day. 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. Resources such as the Facility and Infrastructure Recapitalization Program (FIRP) were sunsetted in FY2013. FIRP helped LLNL replace equipment past its service life with modern, energy-efficient equipment.

A new National Nuclear Security Administration (NNSA) program, Capability Based Infrastructure (CBI), will provide 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. Release of these appropriations is pending continuing resolution.

The indirect (overhead) funding that was utilized in past years to help replace aged equipment was not available in FY2014. As stated above, these funds were redirected to preventative maintenance and boiler compliance activities. Indirect funding has been requested to fund EISA evaluations and improvements, HPSB and LEED evaluations, and perform other sustainability projects in FY2015.

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.

Successes and Challenges

LLNL had a number of successes and challenges in FY2014. Some highlights include:

- Achieved ISO 18001 certification and continued ISO 9001 and ISO 14001 certifications.
- Constructed a pilot project to divert treated well-water effluent from the arroyo to use as make-up water at cooling tower U-133
- Earned the title, "World's most efficient supercomputer," from Green500 for the Sequoia supercomputer
- 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
- Introduced a Personal Electric Vehicle (PEV) charging program, allowing employees to charge their personal
- Worked with the DOE Livermore Field Office (LFO) on a solar renewable energy project that will be located on ten acres in the northwest quadrant of LLNL's main site
- Initiated an Irrigation Reduction Plan to reduce turf site-wide by 20% and reduce irrigation by an additional 10% that achieved irrigation water savings of 17 million gallons in response to the historic California drought.

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 research and technology development. Programs such as these will impact LLNL's GHG emissions and potable water intensity.

The second issue is that of aging facilities. Although LLNL has consistently replaced and upgraded its basic real property with the most efficient and cost-effective equipment, the 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. Computations requested institutional funding when the free cooling project was first conceived. It was not selected for funding because the available budget was used for other higher priority projects.

Summary Table of Goal Targets

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
1.1	28% Scope 1 & 2 GHG reduction by FY2020 from FY2008 baseline	In FY2014, LLNL achieved an overall 46.1% reduction from FY2008 baseline.	Efforts will continue to manage gas and electric consumption through energy efficiency projects.	Low
1.2	13% Scope 3 GHG reduction by FY2020 from FY2008 baseline	In FY2014, LLNL's Scope 3 emissions were 25.8% below the FY2008 baseline.	Scope 3 emissions are likely to remain on target to maintain an overall 13% reduction from FY2008 baseline by FY2020.	Low
GOAL 2: Buildings, ESPC Initiative Schedule, and Regional and Local Planning				
2.1	30% energy intensity (Btu per gross square foot) reduction by FY2015 from FY2003 baseline (2014 target: 27%)	LLNL achieved 22.4% reduction in FY2014 based on revised 2003 baseline to include additional excluded facilities.	Energy savings through UESC projects will be actively pursued; however significant funding for energy savings projects is required to meet the FY2015 goal.	High
2.2	EISA Section 432 energy and water evaluations	LLNL completed 37% of its EISA portfolio for the second round as of FY2014.	Eleven facilities were evaluated in FY2014 with the assistance of the Utility provider (PG&E). Initiating use of Desk Audits where appropriate will be needed to meet this goal. 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	Individual buildings metering for 90% of electricity (by October 1, 2012); for 90% of steam, natural gas, and chilled water (by October 1, 2015) (2013 target: 90% and 50%, respectively)	90% of electricity achieved (FY2012). 60% of natural gas achieved (FY2014).	LLNL successfully completed additional communication repairs to many of its legacy electricity meters in FY2014. A plan to continue communication repairs, as well as perform complete meter upgrades is being developed, and will be implemented as funding becomes available. 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	Cool roofs, unless uneconomical, for roof replacements unless project already has CD-2 approval. New roofs must have thermal resistance of at least R-30	In FY2014, cool roofs were installed on four buildings.	All future roof replacements and new roofs will be cool roof installations.	Low
2.5	15% of existing buildings in enduring inventory greater than 5,000 gross square feet (GSF) are compliant with the Guiding Principles (GPs) of HPSB by FY2015	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 FY2015. Three additional buildings have been identified for FY2015-FY2016	High
2.6	All new construction, major renovations, and alterations of buildings greater than 5,000 GSF must comply with the GPs	HPSB certification process for one new construction project is underway.	New facilities greater than 5,000 GSF will be LEED Gold Certified or HPSB compliant.	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
2.7	Regional and Local Planning	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. With the recent 1,022 acre annexation east of the Laboratory to the City of Livermore, interactions include meetings with City of Livermore planners to discuss the collaborative R&D initiative with a proposed Livermore Valley Open Campus, a 10-acre solar array installation on site, 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.		
GOAL 3: Fleet Management				
3.1	10% annual increase in fleet alternative fuel consumption by FY2015 relative to a FY2005 baseline (2014 target: 136% cumulative since 2005)	FY2014 alternative fuel consumption increased 11% compared to FY2013. Overall increase compared to the FY2005 baseline is 284%.	LLNL will maintain its alternative fuel vehicle (AFV) fleet and continue to replace the existing fleet with E85 and hybrid vehicles.	Low
3.2	2% annual reduction in fleet petroleum consumption by FY2020 relative to a FY2005 baseline (2014 target: 18% cumulative since 2005)	In FY2014, LLNL's petroleum fuel consumption decreased 4.4%, compared to FY2013, and decreased 69% from the FY2005 baseline. LLNL significantly exceeds the required annual 2% reduction and the cumulative 30% through the end of FY2020.	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
3.3	100% of light-duty vehicle purchases must consist of AFVs by FY2015 and thereafter (75% FY2000–2015)	LLNL met and exceeded the required 75% replacement of fossil fuel light-duty vehicles with AFVs in FY2014. Over 90% of light-duty vehicles scheduled to be replaced in FY2014 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

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
GOAL 4: Water Use Efficiency and Management				
4.1	26% potable water intensity (gallons per gross square foot) reduction by FY2020 from FY2007 baseline	In F2014, LLNL reduced its water intensity relative to the FY2007 baseline by 12.72%.	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 FY2015 and FY2020 goals.	Medium
4.2.	20% water consumption (gal) reduction of industrial, landscaping, and agricultural (ILA) water by FY2020 from FY2010 baseline	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: Pollution Prevention and Waste Reduction				
5.1	Divert at least 50% of nonhazardous solid waste, excluding construction and demolition debris, by FY2015	LLNL consistently meets or exceeds this goal. In FY2014, LLNL diverted 73% of nonhazardous solid waste.	LLNL continues to identify new potential waste streams for diversion.	Low
5.2	Divert at least 50% of construction and demolition materials and debris by FY2015	LLNL consistently meets or exceeds this goal. In FY2014, LLNL diverted 80% of construction and demolition materials and debris.	Tracking of construction and demolition materials and debris continues for FY2015.	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
GOAL 6: Sustainable Acquisition				
6.1	Procurements meet requirements by including necessary provisions and clauses (sustainable procurements/biobased procurements)	Sustainable Acquisition or Environmental Affirmative Procurement Program (EPP) clauses have been incorporated into all LLNL General Provisions (GPs) for purchase orders and subcontracts, except for the Standard Research General Provisions. The Standard Research GPs apply only to subcontracts awarded for basic or applied research services and do not offer an opportunity to procure products. As such, there is no benefit to add sustainable acquisition clauses to its GPs. As a result, LLNL is 100% compliant 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 purchase orders and subcontracts. LLNL will continue to implement, review and update Procurement Standard Practice 23.5, Environmental Affirmative Procurement and Waste Reduction Requirements as it applies to LLNL procurement activities.	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
GOAL 7: Electronic Stewardship and Data Centers				
7.1	All data centers are metered to measure a monthly Power Utilization Effectiveness (PUE) of 100% by FY2015	LLNL has identified 4 enduring data centers that need to be metered by FY2015.	Of the 61 identified data centers, 27 have been closed since 2012 and fifteen more are scheduled for closure by 2015. LLNL proposes to focus on consolidation efforts across the site, and then meter the remaining 4 enduring data centers. Due to funding and priority changes, no additional data centers were closed in 2014. The risk has been downgraded to medium for FY2015.	Medium
7.2	Maximum annual weighted average PUE of 1.4 by FY2015	The two primary objectives of electronic stewardship are server consolidation and server virtualization. LLNL continues to collocate services into the Enterprise Data Center (EDC).	The goal for FY2015 is to continue consolidation into the Enterprise Data Center to improve PUE; this requires resource commitment.	Medium
7.3	Electronic Stewardship — 100% of eligible PCs, laptops, and monitors with power management actively implemented and in use by FY2012	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 put into stand-by mode after 30 minutes of idle time.	Continue desktop refresh program and desktop power management project.	Low

SSPP Goal #	DOE Goal	Performance Status	Planned Actions & Contribution	Risk of Non-Attainment
GOAL 8: Renewable Energy				
8.1	20% of annual electricity consumption from renewable sources by FY2020	FY2014 requirement was met by the purchase of 74,184 MWh RECs through the Western Area Power Administration (WAPA). LLNL is currently at 18.2% related to the 20% by 2020 goal.	The FY2015 requirement will be met through REC purchases. A 3 MW solar project, led by LFO, is also planned for FY2015.	Low
GOAL 9: Climate Change Adaptation				
9.1	Address DOE Climate Change Adaptation Plan goals	LLNL contributes to efforts in climate change adaptation in two ways: advancing climate science, and delivering expert opinion and advice on the impacts of climate change to its different stakeholders.		
GOAL 10: Utilization of Energy Performance Contracts				
10.1	Utilization of Energy Performance Contracts	In FY2014, LLNL engaged utility provider PG&E to assist with Facility audits and development of a UESC project. In FY2015, LLNL will evaluate the merits of the recommended ECMs through a UESC project.		

2.0 Performance Review and Plan Narrative

SSPP Goal 1.1
28% Scope 1 & 2 GHG reduction by FY2020 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.

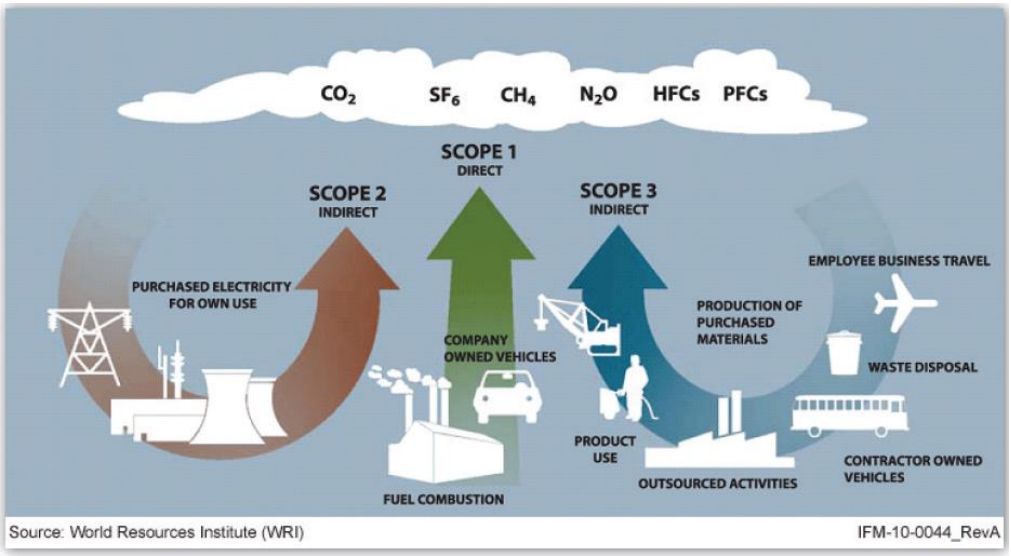

Figure 2-1. The three major scopes of GHG emissions.

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 28% 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 28% reduction in the generation of Scope 1 & 2 GHG emissions by FY2020 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 46.1% 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 attain the FY2014 reduction goal.

Performance Status

In FY2014, LLNL achieved a reduction of 46.1% 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 Scope 1 & 2 emissions reduction goals.

The LLNL SF_6 Management and Capture Plan (LLNL-AR-483031) 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

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 FY2015 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 8.1 (electrical consumption from renewable energy sources).

Scope 1&2 GHG Emissions Breakdown			
Categories	Baseline	FY 2013	FY 2014
Energy and Water	156,687.7	152,144.4	135,141.5
Mixed Refrigerants	368.1	498.7	663.4
Fugitive Emissions	34,578.6	3,406.8	2,738.2
Industrial Processes	0.0	0.0	0.0
On-Site WWT	7.2	9.2	11.6
On-Site Landfill MSW	0.0	0.0	0.0
Fleet Fuel	1,773.0	985.9	1,130.8
Purchased Renewables		0.0	16,220.0
RECs (subtracted)	NA	35,465.9	19,310.6
Total	**193,414.6**	**121,579.2**	**104,155.0**

Figure 2-4a. Scope 1 & 2 CO_2 reduction by source. RECs increase the Scope 1 & 2 GHG reduction to 46.1%.

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
13% Scope 3 GHG reduction by FY2020 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

In FY2014 the Laboratory maintained an overall reduction of 25.8% in Scope 3 emissions from the FY2008 baseline. Contributing factors to this year's emissions reduction include an overall reduction in employee headcount and a slight decline in business travel. Note that electrical energy use also impacts Scope 3 GHG emissions through T&D losses.

Scope 3 GHG Emissions Breakdown			
Categories	Baseline	FY 2013	FY 2014
Energy and Water	8,624.1	8,486.1	7,476.6
Air Travel	9,709.0	8,073.2	8,015.3
Ground Travel	1,217.7	1,091.7	1,253.3
Commute	25,708.0	21,674.7	19,123.4
Off-Site WWT	19.6	16.5	14.1
Off-Site Landfill MSW	729.8	518.3	607.2
Purchased Renewables	NA	0.0	0.0
RECs (subtracted)	NA	2,336.2	2,340.4
Total	**46,008.2**	**37,524.3**	**34,149.6**

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 implemented a personal electric vehicle (PEV) pilot program in 2014, repurposing 15 existing Laboratory electric cart slots to create PEV charging stations for employee use. The program was completely subscribed almost immediately, with 21 employee participants paying a monthly charging fee. This reduces GHG emissions by about 75 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

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
30% energy intensity reduction by FY2015 from an FY2003 baseline

Performance Status

LLNL's energy intensity was better in FY2014 compared to FY2013. At the end of FY2014, the net energy use intensity reduction savings was 22.4%, relative to the revised FY2003 baseline. A revisit of the DOE *Guidelines Establishing Criteria for Excluding Buildings,* has resulted in the inclusion of twenty two (22) facilities into the excluded section. These facilities have separately-metered energy-intensive loads that are driven by mission and operational requirements and not influenced by conventional building energy conservation measures. The list of additional excluded facilities is shown in the Exclusion Report section in the Appendices. As a result of this revision, the new net energy intensity reduction savings is increased to 22.4% from 17.42%. Figure 2-6 illustrates the savings using the updated baseline. No facilities were demolished in FY2014 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).

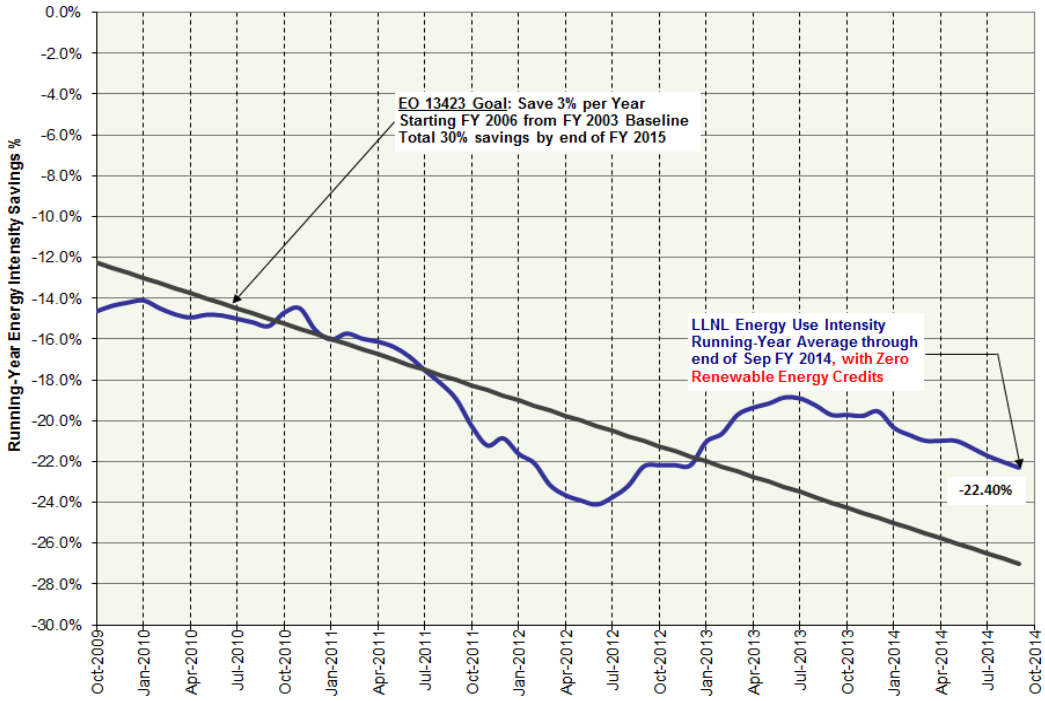

Figure 2-6. Energy Use Intensity Savings through end of FY2014 (running year energy intensity savings with zero REC credits and FY2013 exclusions.

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 FY14 data and was created by incorporating metered data, lighting estimates, and equipment inventory. HVAC systems (42%) 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 FY2014, no funding was available for ECMs; however, several boilers were replaced in order to comply with Bay Area Air Quality Management District (BAAQMD) regulations. As an adjunct to this effort, better operating efficiencies are expected.

In FY2014, 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 FY2014, there were 9% more cooling degree days (CDD) than the summer of FY2013, and for the entire year, 42% 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 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, FY2014 winter was mild, compared to the base year. There were 25% less heating degree days (HDD) than in the winter of FY2013, and 22% less than the base year FY2003 (Figure 2-8a).

In spite of the increases in cooling, LLNL continued to reduce electricity usage by 16%. Natural gas use was lower by 12% from the FY2003 baseline.

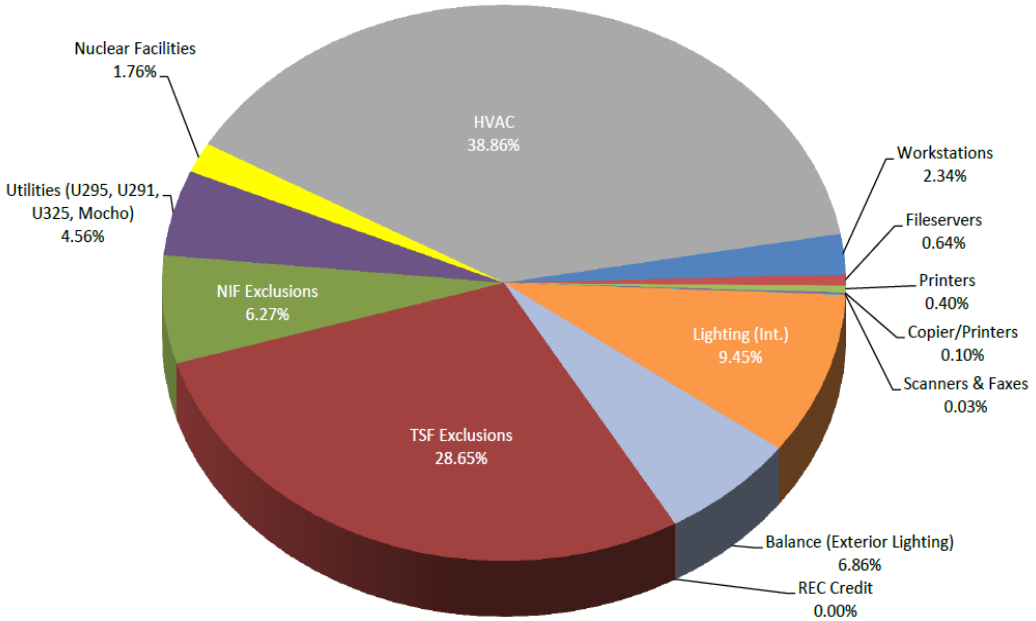

Figure 2-7. LLNL FY2014 Energy Use.

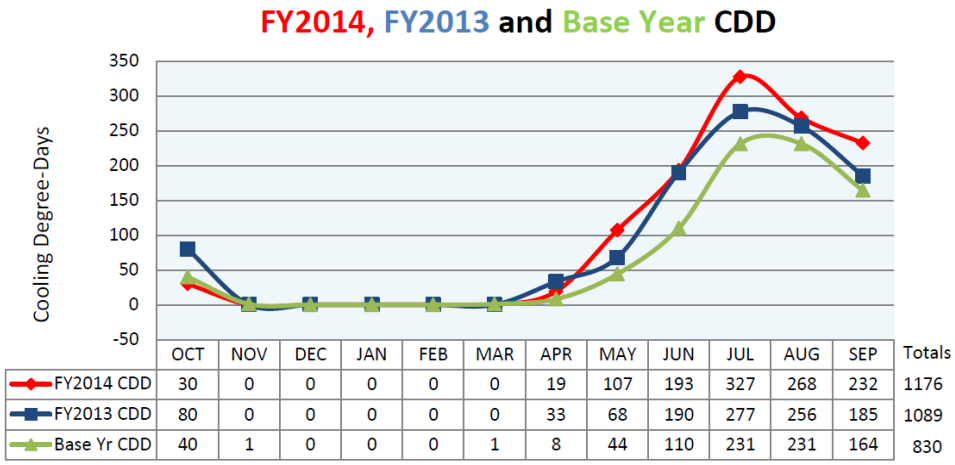

Figure 2-8. Comparison of Cooling Degree Days (CDD)

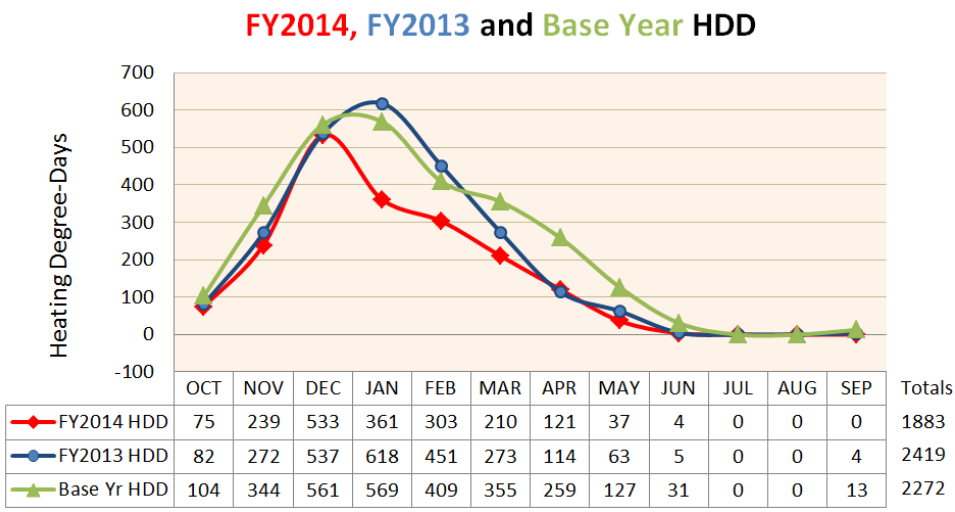

Figure 2-8a. Comparison of Heating Degree Days (HDD)

Plans and Projected Performance

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. For FY2015, LLNL plans to team up with the local utility, Pacific Gas & Electric (PG&E) on a Utility Energy Service Contract (UESC). Several steps are needed to be accomplished prior to this, among them: a scoping audit has to be performed then an investment grade audit (IGA) and a final list of ECMs to pursue in the UESC. As of this writing, only the scoping audit has been completed.

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 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 solutions for the increase.

Employees continue to send suggestions to our Energy Management Group through the "Sustainability at LLNL" website. The LLNL internal Blog, "Idea Hub," continues to have a thread topic for sustainability. LLNL's EMS website also has a section that encourages sustainability suggestions. These ideas are evaluated, and, if deemed appropriate, are added to the comprehensive list of energy intensity savings projects. In FY2014 LLNL continued the grassroots initiative "Every Kilowatt Counts!" where facility residents are encouraged to "power down" their office, lab, and storage equipment during the holidays.

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 870 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.

Figure 2-9. Site actual and projected electricity consumption (x 10^6 kWh)

Fiscal Year	*2010A*	*2011A*	*2012A*	*2013*	*2014*	*2015*	*2016*	*2017*	*2018*	*2019*	*2020*	*2021*
Total Electricity Consumption	401	379	408	428	450	472	496	521	547	574	603	633
Baseline Load	260	250	251	263	276	290	305	320	336	353	370	389
HEMSF Facility 1 (TSF)	120	106	133	139	146	154	161	169	178	187	196	206
HEMSF Facility 2 (NIF)	21	23	25	26	27	28	30	31	33	35	36	38

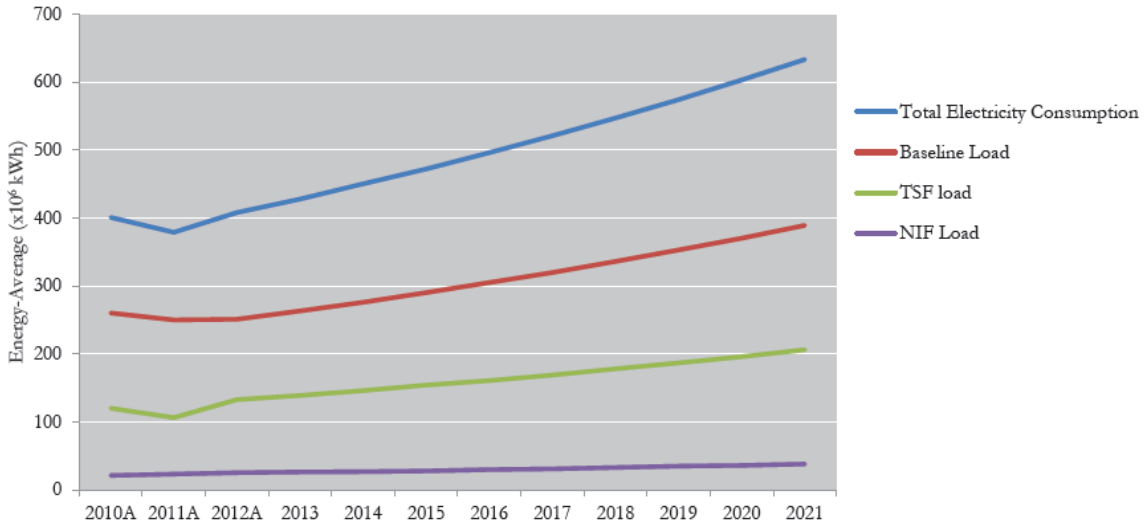

Figure 2-10. LLNL energy load forecast.

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.

As anticipated, funding was directed to execute the boiler and burner replacement projects in FY2014 to avoid penalties from the BAAQMD. Resources have been requested for energy intensity reduction measures forFY2015.

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)	FY14 ($M)	FY15 ($M)	FY16 ($M)	FY17 ($M)
Boiler Replacement Project - FY14	7	0.3	14.4	7	0	0	0
Building Automation Systems/EMCS	5	0.9	5.4	0	2	2	1
Building Envelope Modifications	4.5	0.14	32.7	0	1.5	1.5	1.5
Electric Motors and Drives, Variable Speed Motors and Drives	2	0.54	4.4	0	0.7	0.7	0.7
Site-wide Lighting Improvements, Exterior	3	0.4	6.5	0	1	1	1
Site-wide Lighting Improvements, Interior	5	3.8	1.3	0	0	0	5

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

SSPP Goal 2.2
EISA Section 432 energy and water evaluations

In FY2014, LLNL teamed up with the local utility, Pacific Gas & Electric (PG&E) to perform the audits. The end goal is to identify and select the best ECMs to package into a Utility Energy Service Contract (UESC) project.

Eleven facilities (B111, B132N, B132S, B133, B194, B381, B451, B453, B581, OS682 and OS683) were audited this year. These facilities, including the seven facilities audited last year represent 37% 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/retrocommissioning, 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.

SSPP Goal 2.3
Individual buildings or processes metering for 90% of electricity (by October 1, 2012); for 90% of steam, natural gas, and chilled water (by October 1, 2015)

Performance Status

The Metering Plan was updated in November 2013 and aligns with the October 2013 NNSA Guidelines. 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 further exemplified in the latest issue of its 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. LLNL will update the Metering Plan during FY15 to better illustrate and outline its goals to upgrade the entire electrical legacy metering system.

LLNL's metering portfolio, as of October 1, 2014, 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	FY2014 Performance Status	Planned Actions and Key Issues
Install electricity meters on individual buildings or processes at each site so that these individually metered buildings and processes account for at least 90% by October 1, 2012.	90% achieved as of the end of FY12.	The LLNL plan to repair communication to legacy electricity metering was continued in FY2014. A plan to continue communication repairs, as well as perform complete meter upgrades is being developed, and will be implemented as funding becomes available.
Install natural gas, steam and chilled water meters on individual buildings or processes so that these individually metered buildings and processes account for at least 90% by October 1, 2015 (90% for each utility).	90% stretch goal: 90% site projected percentage to be achieved by FY2015, 75% target by the end of FY2014.	As of FY2014, LLNL meters approximately 60% of its natural gas use at the site. LLNL is in the process of replacing boilers for BAAQMD compliance. Gas meters will be installed on the replacement boilers if gas meters are not currently present. Steam is not metered, and chilled water use is captured in the building's energy use. Additional resources are needed to meet the stretch goal of 90% by FY2015.

In FY2014, LLNL was successful in restoring communication to 31 of its legacy electricity meters. These repairs, along with continued audits and a stronger surveillance program, have helped LLNL maintain compliance with its metering goals.

Audits will continue until all meters have been inspected. It is now believed that up to 63 meters may potentially be reclassified to an "out of service" status. Confirmation of this will require collaboration with the LLNL electric utility group (EUG) and will take place early in FY15.

As funding becomes available, meters that are found to be nonfunctional will be replace and upgraded. In FY15, a plan to continue communication repairs, as well as perform complete meter upgrades for all legacy meters will be finalized, and can be implemented as funding becomes available.

An LLNL electrician wearing electrical protection clothing while performing a metering communication upgrade.

New meter installed, commissioned, and connected to the MV90 metering system at one of LLNL's main power substations; this was a joint effort between the Electrical Shop / Site Sustainability and the Electrical Utility Group.

New meters were installed at both main switchboards feeding Sandia National Laboratory.

Also during FY2014, LLNL was able to upgrade its metering software, MV90, to the latest version 3.0. It now resides on a virtual server.

Resources Required

LLNL has requested funding for additional metering projects in FY2014. Figure 2-13 lists projects that, if funded, will ensure that LLNL facilities that use 90% of its energy and natural gas meet SSPP Goal 2.3.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)	FY17 ($M)
Natural Gas Metering	3.6	0.065	54	1.2	1.2	1.2	0
Water Metering	1.5	0.025	59	0.5	0.5	0.5	0

Figure 2-13. Proposed projects in support of SSPP Goal 2.3.

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SSPP Goal 2.4
Cool roofs, unless uneconomical, for roof replacements unless project already has CD-2 approval. New roofs must have thermal resistance of at least R-30.

Performance Status

LLNL's roof replacement plan includes replacing end-of-life roofs with cool roofs, unless doing so proves uneconomical. In FY14, four buildings had cool roof replacements raising the total to approximately 308,671 SF of cool roofs installed on a total of fifteen buildings.

Plans and Projected Performance

No roof replacement projects are planned for FY2015. All future roof replacements and new roofs at LLNL are planned to be cool roof installations.

Resources Required

Figure 2-14 lists projects that, if funded and implemented, would allow LLNL to meet its cool roof installation goals.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)	FY17 ($M)
Cool Roofs - FY14	1	0.04	32.1	1	0	0	0
Cool Roofs - FY15	1	0.04	32.1	0	1	0	0
Cool Roofs - FY16	2	0.05	46.4	0	0	2	0
Cool Roofs - FY17	3	0.06	45.2	0	0	0	3

Figure 2-14. Proposed projects in support of SSPP Goal 2.4

SSPP Goal 2.5
15% of existing buildings greater than 5,000 gross square feet (GSF) are compliant with the Guiding Principles (GPs) of HPSB by FY 2015

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 (Figure 2-15), either through the use of the HPSB Assessment Tool or the LEED Existing Building: Operations and Maintenance rating system.

Assessments are not currently on track to meet the FY2015 15% goal; however, 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 FY2015, 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	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	28,000
B161	6,105	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2014	12,000
B211	14,122	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	20,000
T2727	5,090	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2014	12,000
T2775	9,875	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	18,000
T2825	5,959	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	12,000
T4525	5,736	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	12,000
T4726	9,384	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	18,000
T4728	6,762	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	12,000
B694	10,590	All HPSB documentation	FY2014	6,000
		Lighting occupancy sensor design, procurement, and installation	FY2015	19,000
B311	40,951	All LEED documentation and research	FY2014/15	60,000
T1677	28,576	Lighting occupancy sensor design, procurement, and installation	FY2014	36,000
T1739	5,646	Lighting occupancy sensor design, procurement, and installation	FY2014	12,000
T1889	16,821	Lighting occupancy sensor design, procurement, and installation	FY2014	22,000
T3724	19,810	Lighting occupancy sensor design, procurement, and installation	FY2014	26,000
T3725	19,867	Lighting occupancy sensor design, procurement, and installation	FY2014	26,000
T3726	19,824	Lighting occupancy sensor design, procurement, and installation	FY2014	26,000
T4675	11,142	Lighting occupancy sensor design, procurement, and installation	FY2014	19,000
T6925	5,873	Lighting occupancy sensor design, procurement, and installation	FY2014	12,000
Total				**462,000**

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

Building	GSF	Scope Remaining	Target Year	Estimated Cost
B211	14,122	HPSB Assessment needed	FY15	$9,000
B272	10,124	HPSB Assessment needed	FY15	$8,000
B423	7,791	HPSB Assessment needed	FY15	$7,000
B515	8,588	HPSB Assessment needed	FY15	$7,000
B531	12,381	HPSB Assessment needed	FY15	$9,000
B691	18,437	HPSB Assessment needed	FY15	$9,750
B694	10,590	HPSB Assessment and third party re-commissioning needed	FY16	$35,000
B311	40,951	LEED Certification package needed	FY16	$60,000
B140	66,660	LEED Certification package or HPSB Assessment third party re-commissioning needed	FY17	$65,000

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

SSPP Goal 2.6
All new construction, major renovations, and alterations of buildings greater than 5,000 GSF must comply with the Guiding Principles (GPs)

Performance Status

All new construction greater than 5,000 GSF will comply with the GPs (e.g., HPSB, LEED, etc.).

Plans and Projected Performance

LEED Gold certification process is underway for one new construction project, Building 654 (HPC Data Center). The design portion of the project is complete, and preliminary utility improvements have begun.

Resources Required

Line item funding is being requested for construction of the new Emergency Management Facility (EMF) in FY2016/18. In FY2014, LLNL expressed interest in using Institutional General Plant Projects (IGPP) funding to construct one new building each year, for the next three years (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 ($M)	FY17 ($M)
IGPP Funded Generic Office Building	30	N/A	N/A	0	10	10	10
B654 HPC Data Center	10	N/A	N/A	10	0	0	0
Emergency Management Facility (line line item funded)	22.5	N/A	N/A	0	5	1	16.5

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Figure 2-18. Proposed new construction projects.

SSPP Goal 2.8
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. Over 120 bikes have been replaced in FY2014 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.

As discussed in Goal 4.1 (Potable Water Intensity Reduction), 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 curtailed watering over 7 acres of turf areas in FY2014, with approximately 23,000 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 planners 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 over 5,000 jobs and have a potential fiscal effect of more than $1B in the region over the next five years. Future urban growth is expected to enhance a sustainable community.

Energy

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. Environmental impacts from ongoing operations and new or modified projects or

modifications in site operations were analyzed, as well as cumulative impacts in utilities and energy use. LLNL continues to review all ongoing operations, new, or modified projects or modifications in site operations for consistency with existing NEPA documentation.

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.

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 (Figure 2-34). 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.

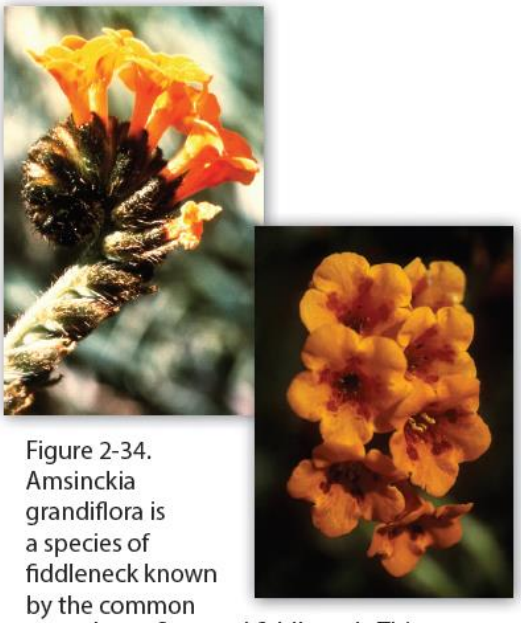


Figure 2-34. Amsinckia grandiflora is a species of fiddleneck known by the common name large-flowered fiddleneck. This wildflower is endemic to California and is considered a critically endangered species on the state and national level. The last remaining native populations are on and near the grasslands at LLNL's Site 300.

Renewable Energy

Land use on-site would evolve with opportunities to implement sustainability projects within the Laboratory and Site 300 boundaries, such as a project in progress of a 10-acre site for a solar array installation at the northwest security buffer of Site 200. An LFO/LLNL project team is working with the National Renewable Energy Laboratory and Western Area Power Administration on this project to install a 3 MW ground-mounted solar PV system; current project schedule anticipates construction to begin in FY2015. Further details are discussed in Goal 8.1 (Renewable Energy) in this document.

SSPP Goal 3.1
10% annual increase in fleet alternative fuel consumption by FY2015 relative to a FY2005 baseline

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 FY2014, LLNL's use of alternative fuels (AF) increased 11% relative to the previous year's consumption. As shown in the graph below, LLNL has entered the maturity stage on AF consumption and year-over-year increases are anticipated to level off. The graph also reflects a reduction in the overall government fleet size with corresponding fluctuation in AF consumption. We are working with GSA to identify other vehicle AF type 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.

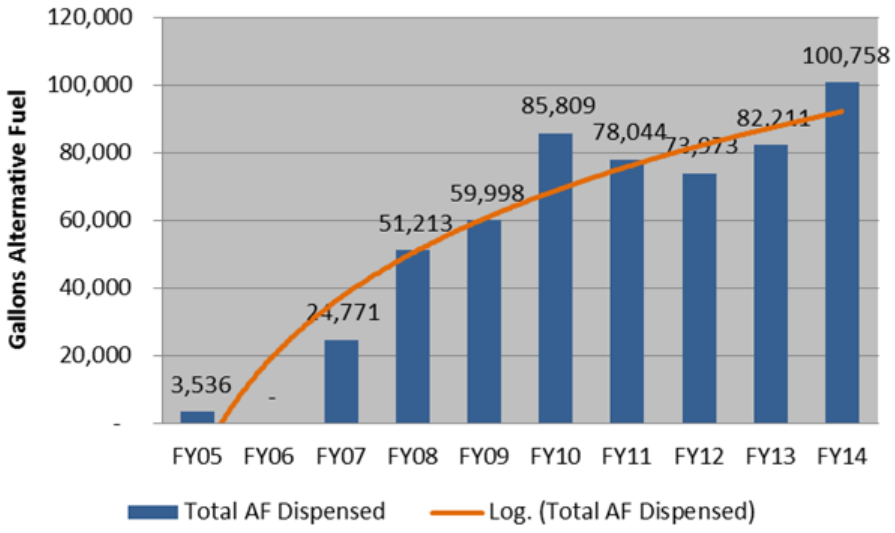


Figure 2-19. Total alternative fuel dispensed.

SSPP Goal 3.2
2% annual reduction in fleet petroleum consumption by FY2020 relative to a FY2005 baseline

Performance Status

In FY2014, LLNL decreased its petroleum fuel consumption by 69% relative to the FY2005 baseline, well exceeding the required 2% annual reduction and 30% cumulative reduction through FY2020. This reduction was achieved by replacing unleaded vehicles with AFVs, reducing miles driven, reducing the fleet of government vehicles. Figure 2-20 shows the reduction of the overall government fleet.

Plans and Projected Performance

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

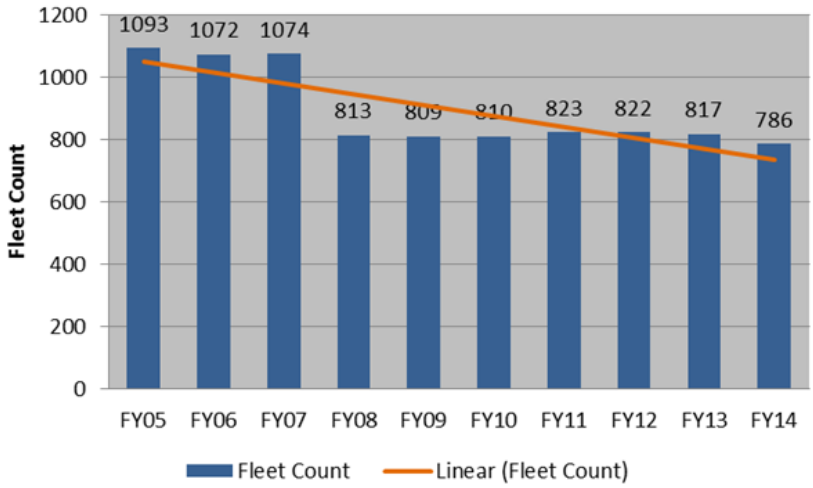


Figure 2-20. LLNL fleet reduction.

SSPP Goal 3.3
100% of light duty vehicle purchases must consist of alternative fuel vehicles (AFV) by FY2015 and thereafter (75% FY2000-2015)

Performance Status

In FY2014, LLNL met and exceeded the required 75% replacement of fossil-fuel light-duty vehicles with AFVs. LLNL replaced over 90% 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

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 will pay a monthly fee which provides them with access to a designated charging station. Currently, 18 charging stations are available under the program and their use will be allocated on a first-come, first-served basis. Presently, 18 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 Goal 3.4 (Reduce fleet inventory of non-mission critical vehicles by 35% by FY2013 relative to a FY2005 baseline) 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 by November 26, 2014. 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.

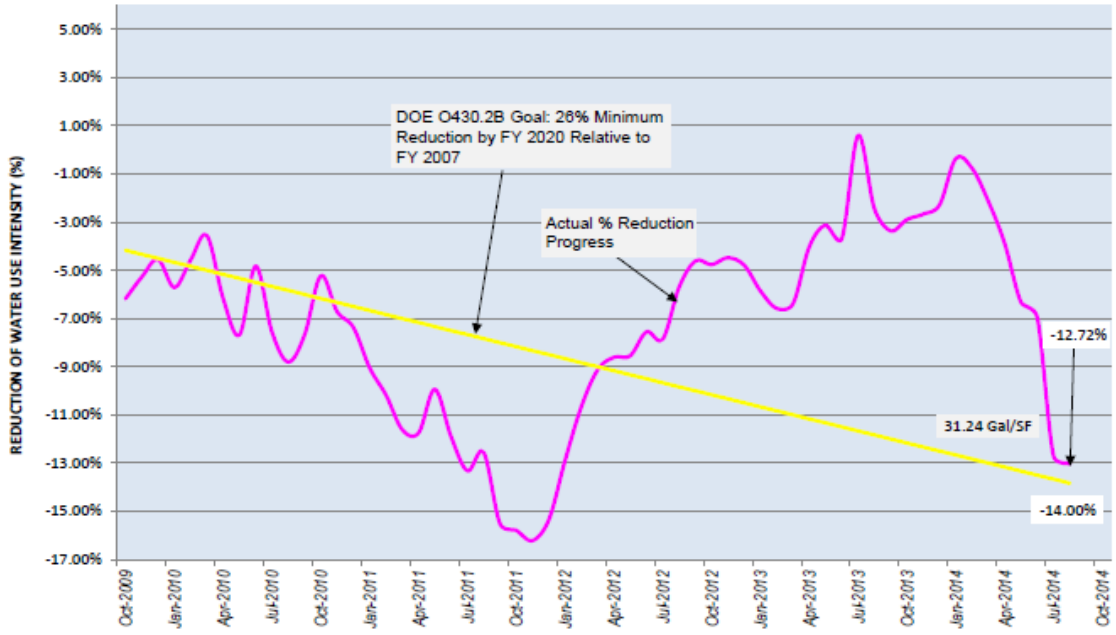
SSPP Goal 4.1
26% potable water intensity reduction by FY2020 from a FY2007 baseline

Performance Status

In FY2014, LLNL's potable water intensity savings from the FY2008 baseline rose from 3.4% to 12.72%, slightly less than DOE's FY2014 target of 14%. LLNL's lack of progress in the potable water intensity savings area is primarily due to the following factors:

- Increase in Livermore Computing Facility–B453 programmatic operations
- Increase in cooling degree days (CDD) due to a warmer-than-normal spring
- Leaks in the potable water distribution system

FY2014 was a warmer year than FY2013, (87 more CDDs than in FY2013, and 346 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 in the cooling towers. Though LLNL achieved a 12.72% water use reduction in FY2014, below the federal goal of 14% (Figure 2-21), if the cooling tower kgals per CDD is considered, LLNL used approximately 54 kgals per CDD in FY2014 compared to 57 kgals per CDD in FY2013, 66 for FY2012, and 70 for the base year FY2007, indicating a solid trend towards more efficient use of cooling tower water. The water consumption and cost data report is included in the CEDR.



Potable water use at LLNL's cooling towers decreased nearly 3.3% (3,559 kgals) from FY2013. This was mainly due to 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. This pilot project saved about 3.3M gallons of potable water and is expected to save about 7M gallons annually.

2014 was another drought year for California. A strategy was implemented to reduce irrigation Lab-wide that was cooperatively crafted by landscape professionals, building owners and principal directorates. As a result of this

initiative, LLNL launched a massive Irrigation Reduction Program in the summer of FY2014. Seven acres of turf-grass was not irrigated and allowed to return to its natural golden color with the eventual plans for conversion to more drought tolerant landscaping. A reduced watering schedule was applied to the rest of the remaining turf and shrubbery Labwide.

LLNL converted over 30,000 GSF of turf areas at B361 to drought tolerant planting, and expects a 50% reduction in irrigation water use for the converted areas after the new landscaping has been established.

This reduction program was estimated to save about 13 million gallons of potable water annually. By the end of September 2014, the estimated savings was approximately 17 million gallons.

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 currently 47.38%, while the irrigation component is approximately 21.50%.

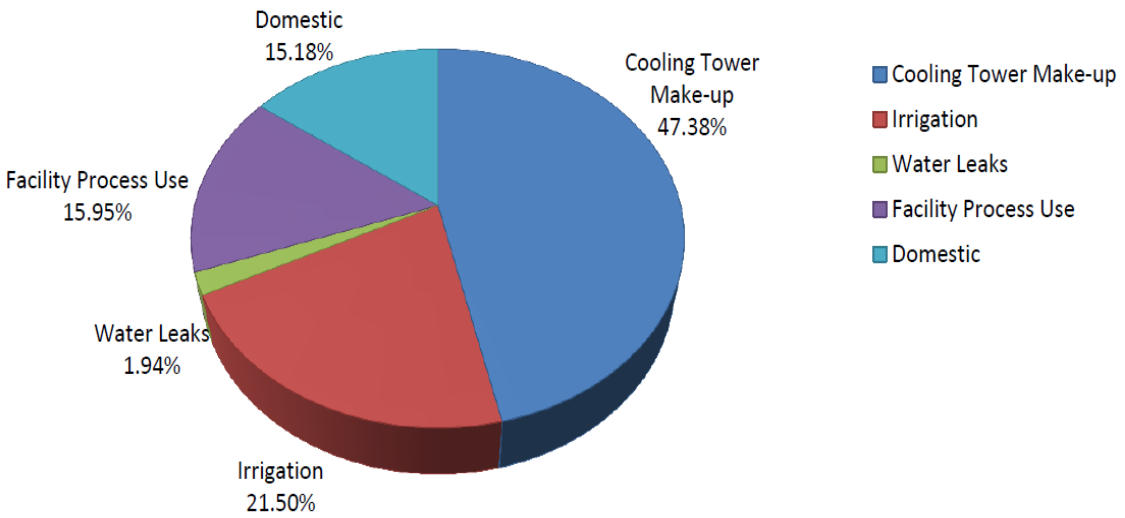


Figure 2-22. LLNL FY2014 potable water use breakdown.

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.

There are several factors that will make it difficult to meet the FY2020 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 late September 2014, Hetch Hetchy requested an emergency 2-day shutdown in order to do system inspections. This translated to an additional 737,000 gallons of Zone 7 water used at the cooling towers.

- 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.

Plans and Projected Performance

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

- 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 LCC 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.

Based on LLNL's best estimate of available resources for FY2015, it is estimated that water intensity savings will be 16%, with a potable water use of 211,000 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.

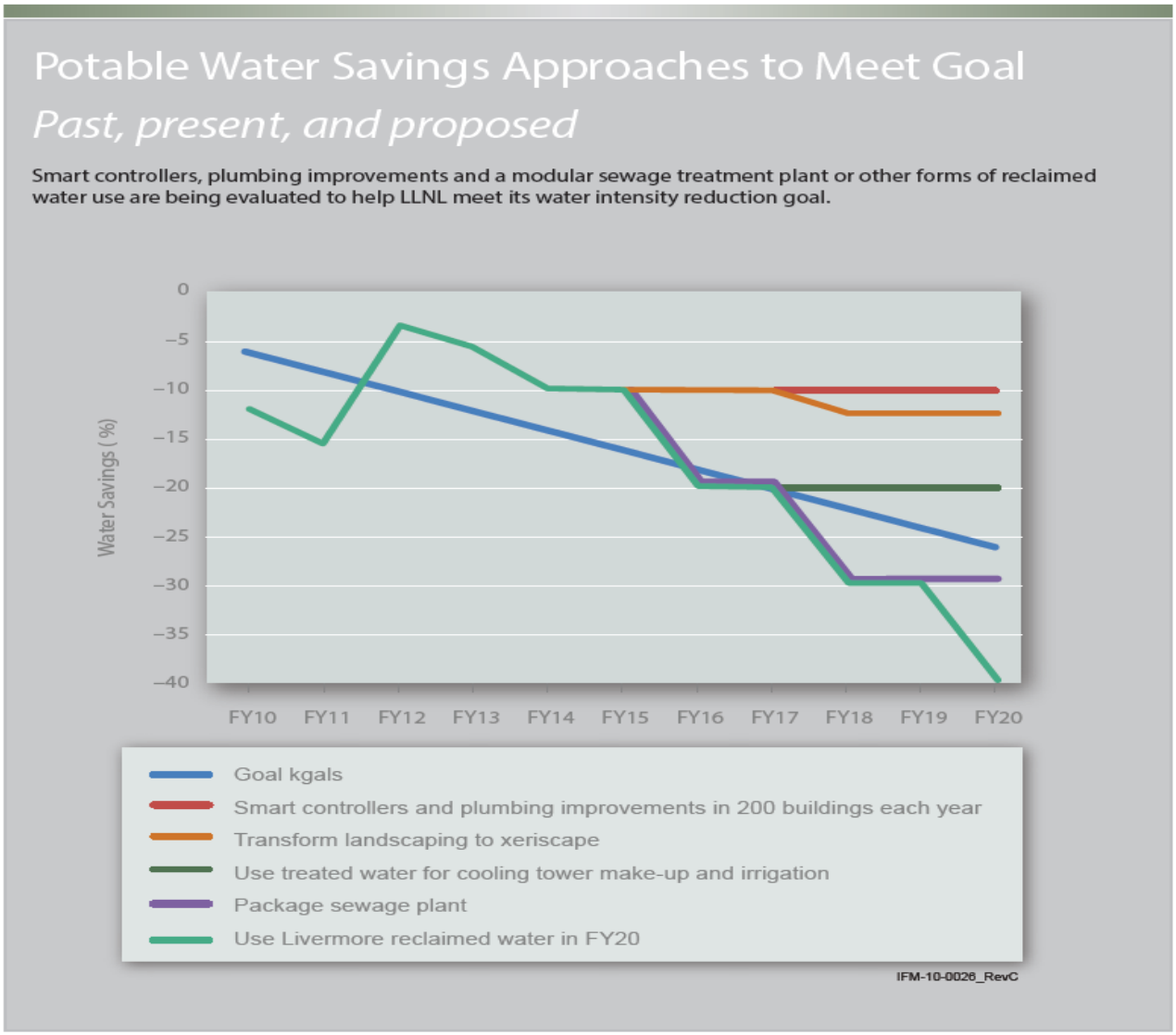
Resources Required

In FY2015, LLNL has requested 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.

Goal 4.1

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)	FY17 ($M)	FY18 ($M)	FY19 ($M)	FY20 ($M)
Plumbing Improvements - FY15	1	0.03	33.9	0	1	0	0	0	0	0
Plumbing Improvements - FY16	2	0.03	71.8	0	0	2	0	0	0	0
Plumbing Improvements - FY17	2	0.03	71.8	0	0	0	2	0	0	0
Install 'smart' irrigation controllers - FY17	1	0.03	29.8	0	0	0	1	0	0	0
Modular Sewage Plant	9.9	0.79	12.3	0	0	0	0	3.3	3.3	3.3

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



NNSA 2014 Sustainability Awards

The National Nuclear Security Administration (NNSA) announced that it has awarded 15 Sustainability Awards for innovation and excellence to its national laboratories and sites.

The awards recognize exemplary individual and team performance in advancing sustainability objectives through innovative and effective programs and projects that increase energy, water and fleet efficiency and reduce greenhouse gases, pollution and waste. NNSA has conducted an internal environmental stewardship awards program for more than a decade.

The award recipients were selected by a panel of judges from NNSA Headquarters and sites who reviewed and scored 24 nominations submitted in 12 of the 15 award categories. The 15 sustainability awards comprise 5 "Best in Class" and 10 "Environmental Stewardship".

Among the 10 Environmental Stewardship Awards, LLNL won for its work on Water Conservation. This award category recognizes an integrated approach to water resource management, addressing all water types as potential resources (waste, storm, grey, etc.) and identifying opportunities for reuse.

Water: Lawrence Livermore National Laboratory Employs Multi-Faceted Approach to Water Conservation in Drought Stricken California.

Recently, faced with California's serious drought conditions, LLNL employed a multi-faceted approach, which focused on high-usage areas with the best opportunity for cost-effective water savings and is estimated to result in a savings of over 15 million gallons of potable water during 2014. A conservation-focused employee outreach campaign was also launched, raising employee awareness of water conservation measures underway, and also providing tools to help them conserve water at home.

LLNL launched a pilot project to reduce potable water use by using treated groundwater to cool equipment and research facilities. This approach to water conservation has the potential to significantly reduce potable water consumption at each of LLNL's five cooling towers, which account for nearly 45 percent of Lab potable water consumption, or approximately 100 million gallons annually. A reduction of 2.3 million gallons has already been realized through the pilot study and the Lab is exploring plans to expand the process to additional cooling towers.

LLNL has also converted additional turf to native landscaping, which has reduced water use by 7 million gallons so far this year through irrigation reductions or elimination. The long-term strategy includes the sustainable landscape, which was expanded in 2014 to convert another 30,000 square feet of turf at building 361, adding to the less water-intensive landscaping already in place in areas near the Central Cafe and the West Gate Badge Office. This year's new strategy called for seven acres of turf-grass to not be irrigated during the summer. This allowed the turf to return to California's natural golden color, with eventual plans for conversion to more drought tolerant landscaping. A reduced watering schedule was also applied to all other turf and shrubbery Labwide.

Given the serious drought year California is experiencing, the Lab increased its focus on employee outreach on water conservation efforts for work and home, and also reached out to the San Francisco Public Utilities Commission who manages the Lab's water source, Hetch Hetchy Reservoir, to explore programs to help the Lab conserve its overall water use.

The combination of water conservation efforts targeting the Lab's most significant potable water uses has resulted in a running 12-month total water reduction of almost 13% in FY14 to date as compared to the base year FY07, and about 9% this fiscal year alone.

SSPP Goal 4.2
20% water consumption reduction of industrial, landscaping, and agricultural (ILA) water by FY2020 from a FY2010 baseline

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 conversion from well water to Hetch Hetchy water is near completion and could be started up in 2015, funding permitting.

The 20% 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 will apply for permit coverage under the revised permit by 7/1/2015.

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 FY2015, additional resources required will be identified during the design phase.

Resources Required

Projects that, if funded and implemented, would allow LLNL to meet its ILA water consumption reduction goal are listed in Goal 4.1 in this section.

SSPP Goals 5.1 and 5.2
Divert at least 50% of non-hazardous solid waste by FY2015

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 FY2014, LLNL diverted 73%.
- 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 FY2014, LLNL diverted 80%.

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.

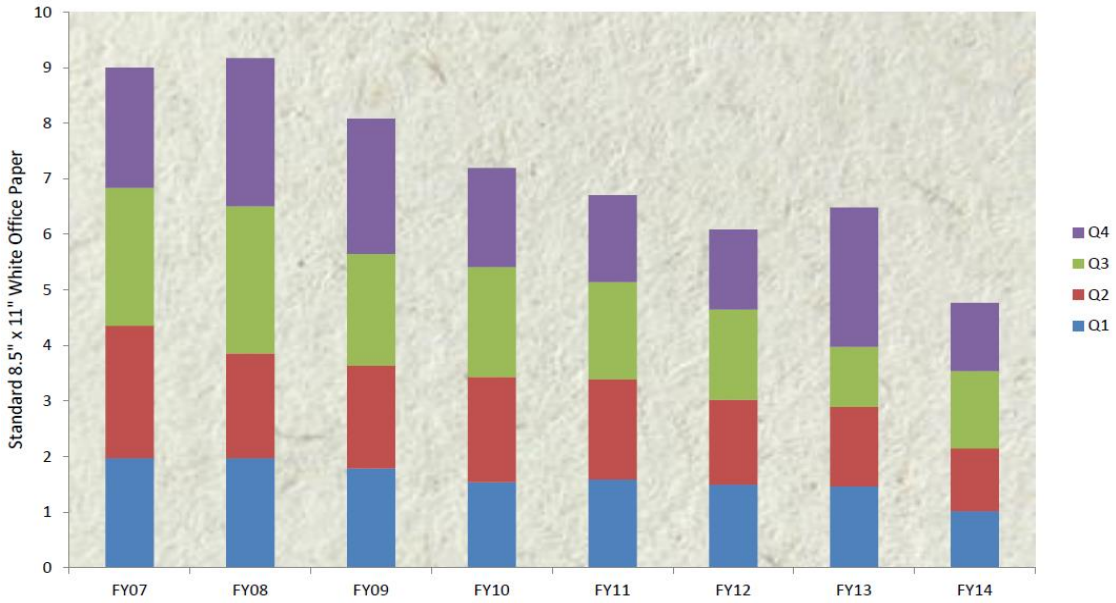


Figure 2-24. LLNL progress in reducing white office paper usage (reams per person purchased).

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 FY2014, 67 metric tons of compostable waste and 45 metric tons of comingled recycling were collected under this program.

As part of FY2014 housekeeping activities, 30 transportainer units were identified for clean out and abatement and sent to the Laboratory's Donation, Utilization, and Sales (DUS) group for resale or recycling. This contributed to the overall mixed metal recycling total of over 610 metric tons. Disposition of unneeded transportainers will continue in FY2015.

Other accomplishments in waste management include the following:

- Raising awareness through awards, outreach, and numerous Laboratory events
- Providing a waste station including compost and recycling at Laboratory events
- Identifying recycling pathways for additional materials (e.g., plastics)
- Increasing reuse opportunities by promoting the ReUseIt service and Second Time Around store

LLNL does not anticipate any changes in site population in FY2015 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 FY2014, 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 FY2014 Targeted Legacy Chemical Reduction Process resulted in a reduction of 4,025 chemicals. LLNL intends to continue this process in FY2015.

Integrated Pest Management and Landscaping Practices

An integrated pest management program has been implemented, 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

- Increasing compost and recycling collections at Laboratory events through use of a centralized waste station kit
- Continuing to reduce high risk chemical inventory for chemicals that do not have a foreseeable mission use
- Increasing focus on reuse opportunities, especially through continued promotion of the Craigslist-type ReUseIt service and Second Time Around store

Resources Required

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

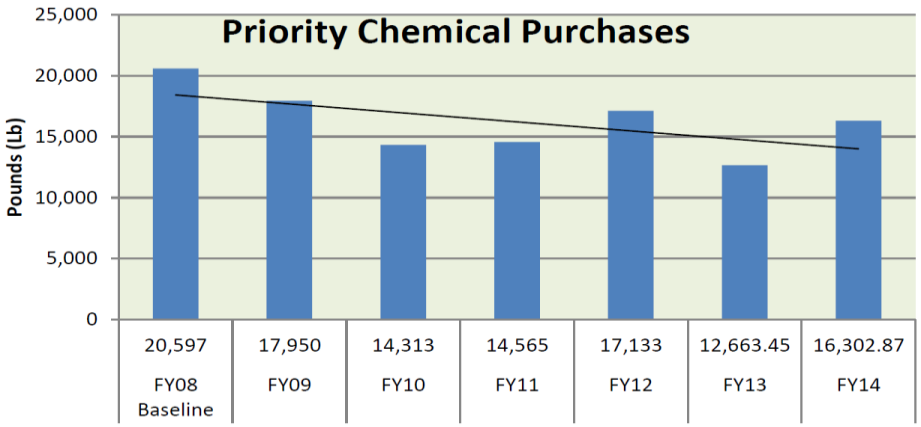


Figure 2-26. LLNL continues to track priority chemicals regularly.

Green Events

LLNL conducted several green events in FY14 at which a centralized 'waste station' was provided to encourage recycling and composting, and reuse and conservation practices were promoted. Events ranged from group picnics; monthly Farmers' Market; Annual Environment, Safety, Security, and Health Fair; - to an Earth Week celebration.

An additional 780 pounds of compost and 96 pounds of comingled recycling were collected from the events at which waste was evaluated.

LLNL and Sandia National Laboratory continued the collaborative monthly Farmers' Market from May to October. The market is an excellent opportunity for LLNL to promote sustainability practices including generating less waste, shopping locally, and

The National Ignition Facility (NIF) picnic was a zero waste event; 93% of the waste generated was either composted or recycled.

Local water agencies were invited to the June Farmers' Market to provide outreach to employees regarding water conservation practices and pollution prevention.

Celebrate Earth Day at LLNL!

Schedule of Events

April 17

Drought-Proof Your Landscape
Thursday April 17th, Noon – 1:00p.m.
B543 Auditorium

Learn about common greywater systems, from ones you can easily install yourself to higher tech systems requiring professional help. Recommended types of products, codes, and permitting will be discussed. The basics of rainwater harvesting and methods of storage and use will also be covered.

GREYWATER ACTION
FOR A SUSTAINABLE WATER CULTURE

April 22

Personal Document Shredding
Tuesday April 22rd, 11:00 – 1:00
Sponsored by LLESA

$6.00/box (10x12x15) shredded onsite
B661 UC Davis Center at East Gate
Receive a coupon for a free cookie from Sodexo

April 30

Repurpose Designer Greg Kloehn
Wednesday April 30th, Noon- 1:00.m.
B543 Auditorium

Designer Greg Kloehn spends his summers in Brooklyn living in a dumpster he outfitted with granite countertops, hardwood floors, a rooftop deck, plumbing and a barbecue grill. Inspired by the small home environmental movement, Kloehn started making fully functioning houses out of shipping containers. He soon moved on to dumpsters. Then he started grabbing discarded items found on the street and making homes out of that. He has even gone beyond creating homes to upcycling bicycles. Come get some tips and ideas on how you can turn your trash into treasure.

llesa SHRM sodexo Sustainability Performance Program

For more information about Earth Week events contact the LLESA office at 2-9402

ReUseIt.llnl.gov

one person's 'trash' may be another person's 'treasure'

TRY REUSE FIRST

DON'T THROW IT OUT!

ReUseIt
(reuseit.llnl.gov)

- Check out LLNL's online **ReUseIt** marketplace
- It's like Craigslist - find items, list items, or place a want ad
- Access it through the lab portal at **reuseit.llnl.gov**
- ReUseIt is for lab owned property and material only; not for personal use.

Questions? Email reuseit@llnl.gov or green@llnl.gov

HOW IT WORKS

① List Your Items
- get photos of the item
- write a good description
- select the right category
- add tags for searchability

② Find an Item
- search by category, tag, name
- click on the item
- click the "I Want It!" button

③ Get Connected
- receive an email that connects you to the owner of the item
- adhere to established property transfer processes

④ Support Sustainability
- reuse helps LLNL meet our sustainable acquisition and waste reduction goals

SSPP Goal 6.1
Procurements meet sustainability requirements by including necessary provisions and clauses (sustainable/biobased procurements)

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 implemented 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. LLNL mandates these program requirements be followed as a part of the Integrated Safety Management System (ISMS) (ES&H Manual Volume III, Part 30: General Environmental Controls, Document 30.1 Managing Environmental Aspects through Pollution Prevention). 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, except for the Standard Research General Provisions. These provisions apply only to subcontracts awarded for basic or applied research services and/or development work and do not provide an opportunity to procure products. As such, there is no benefit to add sustainable acquisition clauses to its' GPs 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 annually 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 FY2014 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 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 FY2014, 8 Purchase Orders were awarded to Skolnik Industries totaling $112,325.

- A subcontract with a contract value of $27,720 was awarded to a supplier who manufactures metal waste boxes containing 22% recycled content material.
- LLNL Computer subcontractors include an EPEAT rated description field~~s~~ 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 reporting requirements in new subcontracts awarded for multi-function devices (copiers/printers).

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 review and update Standard Practice 23.5 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.

SSPP Goal 7.1
All data centers are metered to measure a monthly Power Utilization Effectiveness (PUE) of 100% by FY2015

Performance Status

LLNL has identified 61 data centers that meet the criteria to be classified as data centers. 27 data centers have since been closed. LLNL continues to follow the strategy of consolidating data centers first, and metering the remaining enduring data centers in buildings 112, 439, 451 and 453 afterwards. Due to funding and priority changes in FY2014, no rooms/data centers were consolidated.

Plans and Projected Performance

In addition to the data centers that are currently metered, HPC at LLNL has identified that power management is critical to the success of energy management in HPC. The solution has been to implement a centralized system of real time data, from the rack to the entire site, to achieve power management. LLNL is creating an operational, event, and real time data management infrastructure of all external and internal data sources. This requires overcoming challenges: understanding how different types of hardware and software impact power utilization, correlating multiple types of data sources, coordinating with multiple owners of the data, accessing the data, selecting the best interface, comparing and viewing the data on a common platform, and creating various dashboards. Upon completion, this can be leveraged to all LLNL data centers. Details are discussed in the Goal 7.2 narrative in this document.

Metering projects will be developed where data is calculated to allow for improvements.

Resources Required

Based on the enduring data centers, LLNL estimates that a minimum of $3-5M of infrastructure investments is needed in order to meet the requirement to fully meter all enduring data centers at LLNL once consolidation is complete. Until funding can be secured, LLNL will continue to calculate PUE on an annual basis to evaluate energy intensity. LLNL will continue to benchmark and model enduring facilities as was performed at Building 112. This is described in the Goal 7.2 narrative in this document.

SSPP Goal 7.2
Maximum annual weighted average PUE of 1.4 by FY2015

Performance Status

Efforts in reducing energy consumption through server consolidation and server virtualization continued, resulting in a reduced amount of physical hardware needed and its associated energy costs. Since 2009, more than 1,800 servers from 32 facilities have been consolidated into the Enterprise Data Center (EDC). LLNL is on target to deploy over 640 virtual machines (VMs) total through the virtualization project for the coming year. LLNL also optimized virtualization by establishing an infrastructure-on-demand (IoD) service where on-site personnel can quickly provision server resources on demand. Currently, over 100 VMs have been created using the IoD.

Other methods of optimizing cooling and improving energy efficiency in the EDC have been investigated. A case study was initiated to analyze the benefits of installing a Cold Aisle Containment (CAC) system, raising the temperature and reducing occupancy lighting, enabling the EDC to reduce the PUE (Figure 2-27).

Fire Marshall-approved CAC systems have been installed in several key LLNL Data Center facilities including the Building 112 EDC colocation, the Building 115 Enterprise Redundant Data Center (ERDC) backup (Figure 2-28), and the Building 256 the network switch facility (Figure 2-29).

LLNL was invited to present the results of the CAC case study—which analyzed the air flow improvements—at the 2013 Building Industry Consulting Services, International BISCI winter conference. Also presenting was the director of DOE's FEMP and the president of the international Alliance to Save Energy (ASE) organization. Topics including energy efficiency in data center solutions, and incentives and policies to meet this challenge, were discussed.

Figure 2-27.
CAC installation in the EDC.

Figure 2-28.
CAC installation in the ERDC.

Figure 2-29.
CAC installation in the network core.

During FY2012, LLNL partnered with DOE's Office of the Chief Information Officer's Green Information Technology (IT) Program and Lawrence Berkeley National Laboratory (LBNL) to create an energy model of existing data center power and cooling parameters to evaluate optimization scenarios. Building 112 was selected to evaluate optimization scenarios, investigate efficiency improvements, improve operational set points, make building improvements, and identify consolidations. The detailed study indicated three areas of focus to improve overall PUE (shown in Figure 2-30). The largest reduction in PUE is realized from the consolidation into Building 112 and increasing the IT load. The payback of this initiative is immediate, while the second two projects require an investment of $2M with a payback of up to eight years.

The balance of LLNL data centers that will not be consolidated into other spaces will be entered into the Data Center Energy Profiler (DC Pro), and data center models will be created to continue to identify the next series of energy-efficient measures. The PUE for the enduring data centers have been calculated and can be referenced in the CEDR.

For LLNL, data centers continued to use ASHRAE TC 9.9 best practices:

- Raised set points of computer room air conditioners (CRACs) and computer room air handlers.
- Sealed and cleaned subfloor area and removed all unneeded obstructions.
- Installed chimneys on all CRAC units to reduce short cycling and improve HVAC efficiency.
- Monitored, adjusted, and balanced HVAC systems to efficiently support information technology devices within acceptable ASHRAE and manufacturing guidelines.
- Used temperature recording devices and infrared imaging to identify and trend HVAC aberrations as well as to confirm remediation.
- Relocated CRACs to improve efficiency.
- Arranged enclosures and racks in hot and cold aisle configuration.
- Used blanking panels in enclosures to reduce short cycling.
- Used cabling grommets to transition and seal cutouts on computer tiles.
- Installed flexible strip curtains or doors at end of aisle to reduce short cycling.
- Used appropriate diffusers or floor tiles.
- Positioned supply and returns to minimize mixing and short cycling.
- Raised the access floor height to increase air volume and static pressure.

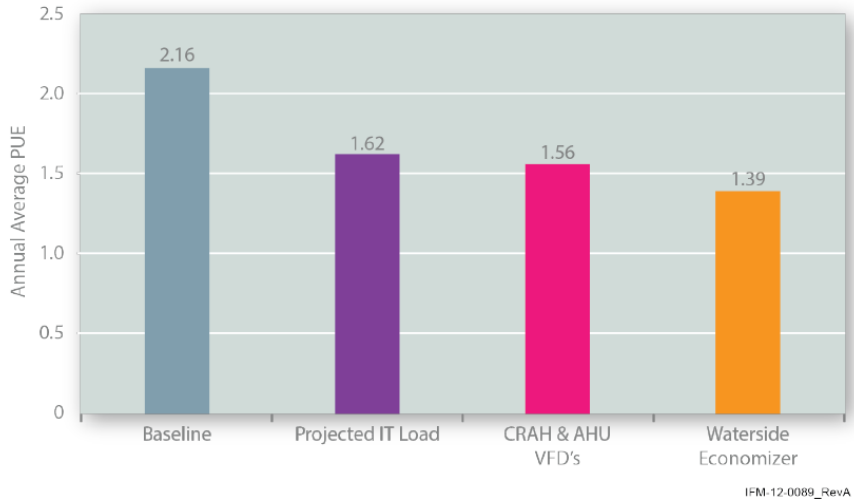


Figure 2-30. PUE reduction when projects from study are implemented.

Advanced energy-efficient computing requires revising the techniques of parallel processing, where multiple processors run at once to solve a problem. Efficient computing necessitates that individual processors work to their optimal efficiency for the task at hand; some would need to be powered down if they were not needed or if their complimentary processors were not yet done with their tasks. This is a departure from the traditional parallel computing perspective.

Plans and Projected Performance

The goal for FY2015-16 is to continue to consolidate in Building 112 to improve LLNL's overall PUE.

All enduring data centers will be benchmarked and modeled to identify efficiencies to provide improved PUE.

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 has been requested to complete installation of Cold Aisle Containment. Figure 2-31 lists projects that, if funded and implemented, would allow LLNL to meet its PUE goal.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)
Cold Aisle Containment — B112	120	28	4.3	75	45	0
Cold Aisle Containment — B115	45	14	3.2	0	15	30
Cold Aisle Containment — B256	30	7	4.3	0	0	30

IFM-12-0060_RevB

Figure 2-31. Proposed projects in support of SSPP Goal 7.2.

SSPP Goal 7.3
Electronic stewardship —100% of eligible PCs, laptops, and monitors with power management actively implemented and in use by FY2012

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 eligible Windows XP desktop and laptop systems have been upgraded to Windows 7 under power management. 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.

Funding Strategy

Figure 2-32 lists projects that, if funded and implemented, would allow LLNL to meet its electronic stewardship goal.

Project	Project Cost ($M)	Annual Savings ($M)	Simple Payback (Yrs)	FY14 ($M)	FY15 ($M)	FY16 ($M)
Macintosh Power Management	0.15	0.013	12	0	0	0

Figure 2-32 Proposed projects in support of SSPP Goal 7.3

SSPP Goal 8.1
20% of annual electricity consumption from renewable sources by FY2020 and thereafter (7.5% FY2014 target)

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 7.5% renewable energy consumption requirement was exceeded at 18.2% through the purchase of RECs and Renewable Electric Energy in FY2014. LLNL purchased 35,942 MWh of wind RECs and 38,242 MWh of Renewable Electric Energy from incremental hydropower in FY2014 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. The selected vendor and WAPA are currently finalizing the details of a Power Purchase Agreement (PPA). The current project schedule indicates that construction could begin in FY2015.

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.

Progress has continued on the Site 300 Wind Power Prediction Project. Recent work has focused on an assessment of the layout and costs for a renewable energy research facility at Site 300 which is important for research and development associated with wind and solar energy, energy storage, and how they can integrate into a smartgrid system.

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 FY2014 CEDR on the "List of Purchased Renewable Energy" worksheet.

Plans and Projected Performance

For FY2015, LLNL will purchase RECs to comply with the renewable energy requirement. The amount of RECs purchased can decrease substantially once solar power is installed 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. A PPA with a private entity is being pursued for the proposed Site 200 solar PV project and appears to be the best option for renewable energy at LLNL. The private entity would design, install, own, operate, and maintain a "behind the meter" renewable energy project. The additional funds needed to subsidize a PPA for renewable energy purchases would depend on the size, type and location of renewable energy at LLNL.

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 9
Climate Change

As part of its mission to assist the nation and its partners in energy and environmental security, LLNL seeks to advance science to better understand climate change and its impacts and develop technologies supportive of a carbon-free energy future. LLNL contributes to efforts in climate change adaptation in two ways: advancing climate science, and delivering expert opinion and advice on the impacts of climate change to its different stakeholders.

Advancing Climate Science

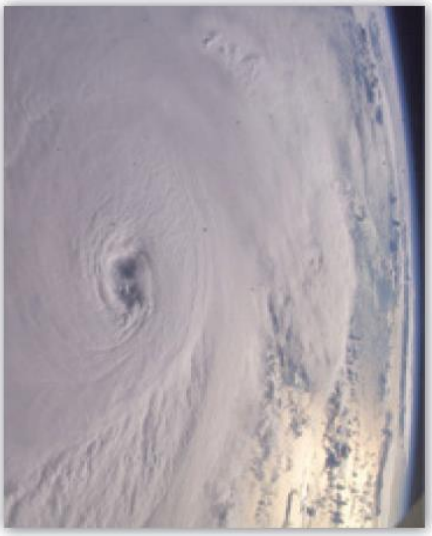
LLNL's Program for Climate Model Diagnosis and Intercomparison (PCMDI) is the cornerstone of the scientific community's climate change research. Since 1989, PCMDI has been leading efforts to develop improved methods and tools for the diagnosis and intercomparison of general circulation models that simulate the global climate. These models of climate change, from collaborators worldwide, are used to determine the potential impacts of climate change on the civilization and to assess the potential impacts of that change. PCMDI enables a non-biased comparison of techniques and model results resulting in a level of rigor in climate modeling that is unsurpassed. As a result of PCMDI's contributions, the Intergovernmental Panel on Climate Change (IPCC), who reports on scientific conclusions from climate change modeling, was awarded the Nobel Prize in 2007.

Stakeholder Guidance on Climate Change Adaptation

LLNL scientists have long been working with stakeholders on efforts to quantify the impacts and risks of climate change to the human and natural environment as well as on the economy and international and domestic security. In addition to working with its federal partners (e.g. the Departments of Defense, Agriculture, Homeland Security, and Intelligence Agencies), LLNL scientists have contributed to climate change adaptation planning efforts by the Department of Energy's Sustainability Performance Office, the City of Livermore, and the San Francisco Bay Area.

Developing Resilience to Climate Change Adaptation for the LLNL Site

There are numerous ways that climate change could impact the LLNL site, directly and indirectly. These include heat waves, wildfires, sea level change, and water resources. The degree to which these impacts affect the Laboratory varies.



The table below summarizes how impacts from climate changes can trigger site-relevant events, the relative degree of those events, and ongoing actions for adapting to those impacts. It should be noted that LLNL climate scientists have reported that forecasts at the local scale can be highly uncertain. In particular, multiple climate and weather forecasts for the San Francisco Bay Area have shown divergent trends in temperature and precipitation forecasts. While the LLNL site may see no change to average local temperature or precipitation, LLNL is prepared for a multitude of climate change impacts in the following ways:

Climate Impact	**Regional Impact**	**Site-relevant events**	**Degree of importance of those events**	**LLNL adaptation to those events**
Heat waves	Increased local temperature	Greater cooling needs in facilities; increased costs and GHGs expended in cooling facilities	Medium	LLNL is working to make its facilities more responsive to temperature changes, and building more efficient facilities that will use less energy in the future.
Heat waves	California-wide strains on the electrical system	Black-outs or brown-outs of local electrical grid	High	LLNL has sufficient electrical backup for the site as part of its electric plan.
Wildfires	Increased risk to Site 300	Reduction of activities at Site 300	Low	Site 300 constantly manages its open space through controlled burns and other approaches.
Sea level change	Increase sea level of San Francisco Bay	Transportation challenges to staff, suppliers, and stakeholders	Low	LLNL works with local transportation organizations to provide alerts and planning assistance to its

Climate Impact	Regional Impact	Site-relevant events	Degree of importance of those events	LLNL adaptation to those events
				employees.
Water resources	Drought	Reduced water availability from both site water sources (Hetch Hetchy and Zone 7) are vulnerable to drought, and recent endangered species rulings in the Sacramento Delta affect the amount of water that can be released to downstream users including Zone 7.	Medium	LLNL is able to access two separate and different water sources: one from the Sierra Nevada (Hetch Hetchy) and one from a local source (Zone 7). In the event that both sources are impacted, LLNL will deploy an emergency water curtailment plan. In addition, LLNL is aggressively exploring non-potable water based cooling techniques for future facility cooling needs.
Water resources	Drought	Reduced water availability for vegetation	Low	LLNL is progressing towards drought-resistant landscaping, and captures rainwater through the Water Conservation Test Bed Project. In addition, LLNL is exploring the use of treated ground water as another source of irrigation water.
Water resources	Flood	Site flooding and impacts to local transportation	Medium	LLNL is in constant communication with local and regional planning departments—including water runoff—and long-term planning is a part of the discussions.
Water resources	Water quality	Impacts to Hetch Hetchy water supply. This could be triggered by changes to wildfire runoff at the Hetch Hetchy dam resulting in less pure water,	Low	LLNL has the ability to tap into both Hetch Hetchy and Zone 7 water. In addition, LLNL is piloting using locally pumped ground water for cooling tower make-up; this will make the site more

Climate Impact	Regional Impact	Site-relevant events	Degree of importance of those events	LLNL adaptation to those events
		necessitating fewer cycles of water in cooling towers, and greater overall water use.		resilient to this impact.

External Stakeholder Assistance to Climate Change Adaptation

As part of its mission to assist the nation and its partners in energy and environmental security, LLNL contributes to efforts in climate change adaptation in two ways, in advancing climate science, and in delivering expert opinion and advice on the impacts of climate change to its different stakeholders.

SSPP Goal 10
Energy Performance Contracts

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 an Energy Management software called EEM Suite was installed as part of ECM3.2.

LLNL is currently evaluating a UESC with the local utility, Pacific Gas and Electric (PG&E). A scoping audit of eleven facilities was completed in June and a Final Audit Report has been issued. The next step is to perform an investment grade audit (IGA) which will be used by PG&E to get 3rd party financing for the selected ECMs. This is in the planning stages for FY2015.

LLNL is currently supporting LFO with a proposed 3MW P-V project on 10 acres in the northwest buffer zone. This will be a Power Purchase Agreement (PPA) with the selected vendor and WAPA. As of this writing, the project is in the final stages and the scheduled start of construction is planned for FY 2015.

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 not expected to go away. Life cycle cost analysis when appropriately applied can assist with improving the project's payback.

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)

2.2 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 Data Centers

5.2 Electronics Stewardship - Acquisition and Disposal

5.3 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 8th.

Worksheet		Overview	Dashboard Status	Action
1.1	Content	Stand-alone overview of the CEDR tabs.	Not Applicable	None.
1.2a	Performance Summary	Summary table of select goal performance.	OMB Scorecard goals, except HPSB. Additional status reports to be developed	None.
1.2b	GHG Emissions Summary	Summary table of GHG emissions broken down by scope.	To be developed	None.
1.3	Factors and Drop-down Keys	Reference tab containing all factors and drop-down menus information for all tabs.	To be developed	None.
2.1	Funds, Meters, Training	Collects information on energy and water spending, and metering status.	To be developed	If applicable, complete cells with blue text.
2.2	Sustainable Acquisition	Collects information on review of relevant contracts for sustainable acquisition requirements	Available	Review pre-populated historical data and update with FY 2014 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.	Available	Review pre-populated historical data and update with FY 2014 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.	Available	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.	Available	Review pre-populated historical data and update with FY 2014 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.	To be developed	Review pre-populated data and update as necessary.
3.3b	Cancel ECM & RE Measures	List of cancelled conservation and renewable energy measures. Informational only.	To be developed	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.	To be developed	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.	To be developed	Complete worksheet, if applicable.
5.1	Data Centers	Inventory of DOE data centers along with basic energy management metrics	See DOEGRIT (https://doegrit.energy.gov)	Complete worksheet, if not using DOEGRIT.
5.2	Electronics Acq&Disp	Collects data on electronic acquisition (i.e. EPEAT, FEMP-Designated) and sound electronics disposition	Available	Review pre-populated historical data and update with FY 2014 data.
5.3	Electronics O&M	Collects data on power management for computers and monitors, as well as duplex printing utilization for printers and multi-function devices.	Available	Review pre-populated historical data and update with FY 2014 data.
6.1	Mixed Refrigerants	Collects and calculates fugitive emission data for refrigerants and fluorinated gases.	Available	Review pre-populated historical data and update with FY 2014 data.
6.2	Fugitive F-gases	Collects and calculates fugitive emission data for fluorinated gases and other fugitive emissions.	Available	Review pre-populated historical data and update with FY 2014 data.
6.3	Industrial Process	Collects and calculates GHG emission data for industrial process by process.	Available	Review pre-populated historical data and update with FY 2014 data.
7.1a	On-Site Wastewater	Collects and calculates fugitive emissions data for on-site wastewater treatment.	Available	Review pre-populated historical data and update with FY 2014 data.
7.1b	Contr. Wastewater	Collects and calculates GHG emissions resulting from contracted off-site wastewater treatment, excluding electricity.	Available	Review pre-populated historical data and update with FY 2014 data.
8.1	Air Bus Travel	Collects and calculates emissions for prime contractor employee business air travel.	Available	Review pre-populated historical data and update with FY 2014 data.
8.2	Ground Bus Travel	Collects and calculates emissions for prime contractor employee business ground travel.	Available	Review pre-populated historical data and update with FY 2014 data.
8.3	Commuter Travel	Collects and calculates emissions for prime contractor employee commuting.	Available	Review pre-populated historical data and update with FY 2014 data.
9.1a	On-Site Landfill MSW	Calculates emissions for on-site landfill and feeds to 9.1c	Available	Review pre-populated historical data and update with FY 2014 data.
9.1b	Off-Site Landfill MSW	Calculates emissions for contracted/off-site municipal solid waste disposal and feeds to 9.1c	Available	Review pre-populated historical data and update with FY 2014 data.
9.1c	MSW & C&D Diversion	Calculates MSW and construction and demolition diversion rates	Available	Review pre-populated data and update as necessary.
10	Fleet Fuel (Optional)	Calculates emissions for fleet fuel consumption based on FAST data.	Pulls from FAST in mid-December	Optional - Download and paste FAST data.
11	Covered Facilities	List of covered facilities with anticipated evaluation dates and type/level.	To be developed	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. If using the CEDR-only approach, all tabs must be fully completed to populate this table for FY 2014 goal performance! Performance status for goals 1.1, 3.1, and 3.2 will not be complete for FY 2014 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. If using the hybrid approach to provide data for FY 2014, please see the Dashboard for accurate performance status.

Note: FY 2014 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	If hybrid approach for data reporting…	Baseline	FY 2013	FY 2014	Performance Status (FY 2014)
1.1	28% Scope 1 & 2 GHG reduction by FY 2020 from a FY 2008 baseline	See Dashboard	193,415	121,579	104,155	-46.1%
1.2	13% Scope 3 GHG reduction by FY 2020 from a FY 2008 baseline	See Dashboard	46,008	37,524	34,150	-25.8%
2.1	30% energy intensity reduction by FY 2015 from a FY 2003 baseline *(Note: Estimates without REC credit)*	See Dashboard	205,417	164,915	159,496	-22.4%
	Goal Energy (10^6 Btu)		1,210,522	966,932	935,159	
	Goal Square Footage (x1,000)		5,893	5,863	5,863	
2.3a	Individual buildings or processes metering for 90% of electricity (by October 1, 2012)	CEDR			90.0%	90.0%
2.3b	Individual buildings or processes metering for 90% of natural gas (by October 1, 2015)	CEDR			60.0%	60.0%
2.3c	Individual buildings or processes metering for 90% of steam (by October 1, 2015)	CEDR			0.0%	0.0%
2.3d	Individual buildings or processes metering for 90% of chilled water (by October 1, 2015)				0.0%	0.0%
3.1	10% annual increase in fleet alternative fuel consumption by FY 2015 relative to a FY 2005 baseline	See Dashboard	3,160	55,287	72,757	2202.5%
3.2	2% annual reduction in fleet petroleum consumption by FY 2020 relative to a FY 2005 baseline *(Note: Estimates without biodiesel credit)*	See Dashboard	355,266	103,942	118,482	-66.6%
4.1	26% water intensity reduction by FY 2020 from a FY 2007 baseline	See Dashboard	35.8	34.6	31.2	-12.8%
	Potable Water Consumption (10^6 Gal)		255	244	220	
	Total Gross Square Footage (x1,000)		7,104	7,042	7,042	
4.2	20% water consumption reduction of industrial, landscaping, and agricultural (ILA) water by FY 2020 from a FY 2010 baseline	See Dashboard	0	0	0	#DIV/0!
5.1	Divert at least 50% of non-hazardous solid waste, excluding construction and demolition debris, by FY 2015	See Dashboard		73.3%	72.9%	72.9%
5.2	Divert at least 50% of construction and demolition materials and debris by FY 2015	See Dashboard		75.2%	80.3%	80.3%
6.1	Procurements meet requirements by including necessary provisions and clauses	See Dashboard		100.0%	100.0%	100.0%
7.3	100% of eligible PCs, laptops, and monitors with power management actively implemented and in use by FY 2012	See Dashboard		100.0%	100.0%	100.0%
8	20% of annual electricity consumption from renewable sources by FY 2020 and thereafter (5% FY 2010 – 2012, 7.5% 2013)	See Dashboard		16.8%	18.2%	18.2%
	Renewable Electricity Usage (MWh)			72,343	74,223	
	Total Electricity Usage (MWh)			429,567	408,013	

GHG Emissions Summary

The tables below summarize Scope 1 & 2 and Scope 3 GHG emissions and provide a breakdown.
Note: FY 2014 performance is not considered final until DOE's GHG Inventory is approved by FEMP.

Scope 1&2 GHG Emissions Breakdown			
Categories	**Baseline**	**FY 2013**	**FY 2014**
Energy and Water	156,687.7	152,144.1	135,141.5
Mixed Refrigerants	368.1	498.7	663.4
Fugitive Emissions	34,578.6	3,406.8	2,738.2
Industrial Processes	0.0	0.0	0.0
On-Site WWT	7.2	9.2	11.6
On-Site Landfill MSW	0.0	0.0	0.0
Fleet Fuel	1,773.0	985.9	1,130.8
Purchased Renewables (subtracted)		0.0	16,220.0
RECs (subtracted)	NA	35,465.9	19,310.6
Total	**193,414.6**	**121,578.9**	**104,155.0**

Scope 3 GHG Emissions Breakdown			
Categories	**Baseline**	**FY 2013**	**FY 2014**
Energy and Water	8,624.1	8,486.1	7,476.6
Air Travel	9,709.0	8,073.2	8,015.3
Ground Travel	1,217.7	1,091.7	1,253.3
Commute	25,708.0	21,674.7	19,123.4
Off-Site WWT	19.6	16.5	14.1
Off-Site Landfill MSW	729.8	518.3	607.2
Purchased Renewables (subtracted)	NA	0.0	1,068.4
RECs (subtracted)	NA	2,336.2	1,272.0
Total	**46,008.2**	**37,524.3**	**34,149.6**

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. 13514/OMB Circular A-11 Direct Agency Obligations

	FY 2014		Projected FY 2015		Projected FY 2016	
		(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. 13514/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. 13514/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 2014/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

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	
2014 Report	143	27	8,343,234	0	116	354,785,885	0	143.0	100.0%	90.0%
2015 Planned	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%

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	
2014 Report	28	14	156,606	0	14	83,488	0	28.0	100.0%	60.0%
2015 Planned	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%

1-5c. EISA 2007 Metering Of Steam 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 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	
2014 Report	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2015 Planned	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%

1-5d. DOE O 436.1 & SSPP Metering Of Chilled 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 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	
2014 Report	0	0	0	0	0	0	0	0.0	#DIV/0!	0.0%
2015 Planned	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%

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	
2014 Report	28	13	12,916	0	15	120,788	0	28.0	100.0%	60.8%
2015 Planned	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%

Sustainable Acquisition - Contract Review

Requirement(s): E.O. 13514, E.O. 13423, EPAct 2005, EISA 2007
Instructions: Please enter FY 2014 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	--		Note: From PPTRS.
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	--		

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. 13514

Instructions: Provide FY 2014 quarterly consumption and associated cost information for facilities, non-fleet vehicles and equipment, and fully serviced leases (voluntary in FY 2014) 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 2014 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
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

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	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
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

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	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
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

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	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
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

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	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
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		Note: Different Sq.Ft - CED	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		Note: Different Sq.Ft - CED	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

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	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	45,562.000	155,457.544	$2,712.000	$ 0.06	94550			2	12,675.353	0.000	834.938
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	44,883.000	153,140.796	$2,534.000	$ 0.06	94550			2	12,486.455	0.000	822.495
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	45,061.000	153,748.132	$2,433.000	$ 0.05	94550			2	12,535.974	0.000	825.757
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	$ 0.09	94550			NA	0.000	0.000	0.000
NNSA	112	LLNL	Buildings	Electricity - Grid	Megawatt Hour	2014	4	45,559.000	155,447.308	$2,736.000	$ 0.06	94550			2	12,674.518	0.000	834.883
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 Fee	2014	4	5,863.211	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	$ 0.00	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 Fee	2014	4	1,179.245	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

List of Operating On-Site Renewable Energy Systems

Requirement(s): EPAct 2005, DOE O 436.1, E.O. 13423, E.O. 13514

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 Descrip-tion / Name	Location Descrip-tion (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	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								
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								

List of Purchased Renewable Energy

Requirement(s): EPAct 2005, DOE O 436.1, E.O. 13423, E.O. 13514

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 (Bundled)	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		

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 CEDR Technical Support Document. Edited and new data cells should be highlighted.

Special Note: Information provided in this table will be used to report on EISA Section 432 June snapshot reporting.

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-0112-0045	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-0112-0001	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
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

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 CEDR Technical Support Document. Edited and new data cells should be highlighted.

Special Note: Information provided in this table will be used to report on EISA Section 432 June snapshot reporting.

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)
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?	If M&V has been conducted, provide type and date			Were the findings from the M&V consistent with projections?
														Type of M&V	MM	YYYY	
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-0112-0001	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	2013	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	2013	s - As Estimated
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	$9,000,000					

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 CEDR Technical Support Document. Edited and new data cells should be highlighted.

Special Note: Information provided in this table will be used to report on EISA Section 432 June snapshot reporting.

Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description											Source Savings/Renew				
(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 measure enter "0". If estimated savings are unknown at this				
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-0112-0045	2012	No		Awarded/Approved	Heating, Ventilating, and Air Conditioning (HVAC)	Thermostat Initiative: Install 700 programmable thermostats at 95 facilities COMPLETED	Energy Saving ECM	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 ECM	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 ECM C	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 ECM	500.000	0.000	0.000	0.000	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 ECM	8,821.158	0.000	0.000	157.970	0.000
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	Energy Saving ECM	5,071.805	0.000	0.000	0.000	0.000
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 ECM	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 ECM	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 ECM	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 RE	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 RE	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 RE	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 ECM	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 ECM	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 ECM	2,074.713	0.000	4,400.000		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 CEDR Technical Support Document. Edited and new data cells should be highlighted.

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Source: Site/Lab June 2012 EISA Sec 432 report

Measure/Project Description										vable Energy Output						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)
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	there are no savings associated with the time enter "TBD". 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)
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

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 CEDR Technical Support Document. Edited and new data cells should be highlighted.

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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)	(ak)	(al)	(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 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)	SPO Comments/Notes
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	$119,000	$0	$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	$12,880	$0	$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	$26,000	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0048	2012	No		Awarded/Approved	Lighting Improvements	Lighting Occupancy Sensor Test and Survey COMPLETED	$35,000	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0001	2009	No	3.1	Awarded/Approved	Building Automation Systems/EMCS	Energy Management Control System Improvement COMPLETED	$937,572	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0002	2009	No	3.2	Awarded/Approved	Advanced Metering Systems	Electrical Metering Installation COMPLETED	$358,060	$0	$0	$0	N/A	COMPLETED		
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.	$250,000	$0	$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.	$6,682	$120,000	$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.	$1,400,000	$0	$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	$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	$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	$910,000	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0010	2009	No	TC30	Identified	Other	Facilities Footprint Consolidation	$2,380,000	$0	$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.	$320,213	$27,056	$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.	$100,000	$0	$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-0112-0013	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
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) COMPLETED		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

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
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?	If M&V has been conducted, provide type and date			Were the findings from the M&V consistent with projections?
														Type of M&V	MM	YYYY	
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					
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) COMPLETED	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					

Measure/Project Description											Source Savings/Renew				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
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?	Provide estimated energy saved or switched for each energy type, as applicable. If measure enter "0". If estimated savings are unknown at this 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-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	Energy Saving ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM C	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 ECM	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 ECM	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 ECM	11,029.066	0.000	0.000	197.509	0.000
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 ECM	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 ECM	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 RE	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 ECM C	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 ECM C	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 ECM	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 ECM	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 ECM	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 ECM	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) COMPLETED	Energy Saving ECM	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 ECM	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 ECM	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 ECM	167.380	0.000	3,415.200	0.000	0.000

Measure/Project Description										vable Energy Output						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)
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	there are no savings associated with the time enter "TBD". 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)
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting) COMPLETED	0.000	0.000		0.000	0.000	0.000	0.000
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
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
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

Measure/Project Description										Cost Savings				Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ak)	(al)	(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 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)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0013	2009	No	TC5	Identified	Lighting Improvements	B132N/S lighting retrofit	$9,239	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0016	2009	No	4.4	Identified	Other	High efficiency air filters	$86,049	$0	$0	$0	N/A	JCI Initial Proposal		
NNSA	112	LLNL	NNSA-0112-0017	2009	No	5.1	Identified	Lighting Improvements	Lighting upgrades	$227,287	$0	$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	$88,368	$0	$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	$260,208	$0	$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.	$163,346	$79,348	$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	$6,055	$30,275	$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	$40,127	$0	$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	$650,977	$0	$0	$0	N/A	JCI Initial Proposal		
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.	$525,000	$57,850	$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.	$30,000	$0	$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	$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	$25,000	$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	$12,500	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0033	2010	No	3.1	Identified	Building Automation Systems/EMCS	Energy Management Control System Improvement	$986,543	$0	$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	$11,620	$0	$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	$41,416	$0	$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	$27,867	$0	$0	$0	N/A	B115, B117, B181, B191, B194, B391, B411, B438, B471, B543, B583, B691, U325		
NNSA	112	LLNL	NNSA-0112-0037	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B113 (HVAC & Lighting) COMPLETED	$81,263	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0038-A	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (HVAC)	$36,103	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0038-B	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B115 (Lighting) COMPLETED	$1,224	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0039	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B170 (HVAC) COMPLETED	$38,151	$0	$0	$0	N/A	COMPLETED		

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-0112-0040	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
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-0112-0057	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	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-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups		Multiple	No	No	On-Bill Financin	2015
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		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		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)		Single	No	Yes	Unknown	2015

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
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?	If M&V has been conducted, provide type and date			Were the findings from the M&V consistent with projections?
														Type of M&V	MM	YYYY	
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					
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-0112-0057	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	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-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	2015	10	TBD	TBD				
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		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		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	2016	25	$775,786	TBD				

Measure/Project Description											Source Savings/Renew				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
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?	Provide estimated energy saved or switched for each energy type, as applicable. If measure enter "0". If estimated savings are unknown at this				
											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-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	Energy Saving ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	383.955	0.000	786.809	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	Energy Saving ECM	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 ECM	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 ECM	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 ECM	1,359.517	0.000	8,144.035	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	978.212	0.000	640.155	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 ECM	113.651	0.000	913.482	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	Energy Saving ECM	TBD	0.000	TBD	0.000	0.000
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 ECM	254.804	0.000	0.000	4.563	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 ECM	357.143	0.000	0.000	0.000	0.000
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	Energy Saving ECM	559.954	0.000	0.000	0.000	0.000

Measure/Project Description										vable Energy Output						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)
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	there are no savings associated with the time enter "TBD". 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)
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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

Measure/Project Description										Cost Savings				Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ak)	(al)	(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 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)	SPO Comments/Notes
NNSA	112	LLNL	NNSA-0112-0040	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B191 (HVAC)	$106,941	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0041	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U291 (Operations) COMPLETED	$236,832	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0042	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B391 (HVAC) COMPLETED	$153,067	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0043	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B471 (HVAC) COMPLETED	$29,837	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0044	2011	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B691 (HVAC) COMPLETED	$33,956	$0	$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)	$156,184	$0	$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	$23,199	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL	NNSA-0112-0050	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - U325 (Operations)	$245,258	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0051	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B153 (HVAC & Lighting)	$33,300	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0052	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B231 (HVAC & Lighting)	$158,034	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0053	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B151 (HVAC & Lighting)	$216,398	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0055	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B298 (HVAC & Lighting)	$154,525	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0056	2012	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B490 (HVAC & Lighting)	$160,746	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0057	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B117 (HVAC & Lighting)	$47,800	$5,050	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0058	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B121 (HVAC, Lighting & Water)	$26,600	$475	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0059	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B131 (HVAC, Lighting & Water)	$83,700	$1,625	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0060	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B321A (HVAC, Lighting & Water)	$81,300	$200	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0061	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B361 (HVAC, Lighting & Water)	$87,760	$6,795	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0062	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B439 (HVAC, Lighting & Water)	$91,600	$10,800	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0063	2013	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B482 (HVAC, Lighting & Water)	$91,600	$14,355	$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)	$15,070	$0	$0	$0	N/A			
NNSA	112	LLNL	NNSA-0112-0065	2014	No		Identified	Energy Saving	Boiler Tune-ups	TBD	$0	$0	$0				
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.	$26,449	$475,000	$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.	$30,000	$0	$0	$0	N/A	COMPLETED		
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B111 (HVAC, Lighting & Water)	$60,423	$0	$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		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

Measure/Project Description													Measurement & Verification				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(q)	(r)	(s)	(t)	(u)	(v)		(w)
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?	If M&V has been conducted, provide type and date			Were the findings from the M&V consistent with projections?
														Type of M&V	MM	YYYY	
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				

Measure/Project Description											Source Savings/Renew				
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(x)	(y)	(z)	(aa)	(ab)	(ac)
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?	Provide estimated energy saved or switched for each energy type, as applicable. If measure enter "0". If estimated savings are unknown at this				
											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		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	Energy Saving ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	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 ECM	1,214.872	0.000	0.000	0.000	0.000

Measure/Project Description										vable Energy Output						
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)	(aj)
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	there are no savings associated with the time enter "TBD". 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)
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
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
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
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
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
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
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
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
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

Measure/Project Description										Cost Savings				Notes			
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ak)	(al)	(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 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)	SPO Comments/Notes
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B194 (HVAC, Lighting & Water)	$16,717	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132N (HVAC, Lighting & Water)	$24,861	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B132S (HVAC, Lighting & Water)	$59,920	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B133 (HVAC, Lighting & Water)	$36,540	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B381 (HVAC, Lighting & Water)	$28,643	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B581 (HVAC, Lighting & Water)	$15,040	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B682 (HVAC, Lighting & Water)	$2,877	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B451 (HVAC, Lighting & Water)	$2,150	$0	$0	$0	N/A			
NNSA	112	LLNL		2014	No		Identified	Audit/Evaluation (Energy, Water)	Facility Audit Recommendations - B453 (HVAC, Lighting & Water)	$72,893	$0	$0	$0	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

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							
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(t)	(u)	(v)		(w)	(x)	(y)	(z)	(aa)
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?	If M&V has been conducted, provide type and date.			Were the findings from the M&V consistent with projections?	Is this a energy saving measure or renewable energy system?	Provide estimated energy saved or switched for measure enter "0". If esti		
											Type of M&V	MM	YYYY			Estimated Annual Electricity Saved (MWh/Yr)	Estimated Annual Fuel Oil Saved (10^3 Gal/Yr)	Estimated Annual Natural Gas Saved (10^3 Cf/Yr)
NNSA	112	LLNL	NNSA-0112-0015	2009	No	TC30	Cancelled	Other	Facilities Footprint Consolidation						Energy Saving	22,928.963	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0023	2009	No	N/A	Cancelled	Boiler Plant Improvements	Secure boilers	No					Energy Saving	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0024	2009	No	N/A	Cancelled	Data Center Efficiency	PC shutdown	No					Energy Saving	4.991	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0025	2009	No	N/A	Cancelled	Boiler Plant Improvements	Boiler replacement project	No					Energy Saving	0.000	0.000	0.000
NNSA	112	LLNL	NNSA-0112-0026	2009	No	N/A	Cancelled	Other	Cold and dark facilities	No					Energy Saving	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 Saving	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 Saving	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										Source Savings/Renewable Energy Output							
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	(j)	(ab)	(ac)	(ad)	(ae)	(af)	(ag)	(ah)	(ai)
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	each energy type, as applicable. If there are no savings associated with the mated savings are unknown at this time enter "TBD". Estimated Annual LPG/Propane Saved (10^3 Gal/Yr)	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	410.613	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	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	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	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	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	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	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)
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
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									LEED® Gold					
NNSA	112	LLNL		Building 031/EMF	94550	10/01/16				1/Emergency Operations Center	New							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 (10^6 BTU/Yr)	Annual Source Energy Saved with the Project (10^6 BTU/Yr)	Adjustment to Annual Site Energy (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 (10^6 BTU/Yr)	Annual Source Energy Saved with the Project (10^6 BTU/Yr)	Adjustment to Annual Site Energy (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**

Data Centers

Requirement(s): EISA 2007, DOE O 436.1

Instructions: Update the list of data centers and complete all fields, if not using DOEGRIT. For additional guidance see comments in row 9 of each column

Source: Site/Lab

Key:	
Light Green	Pre-pop and up
Orange	Fields change
Yellow	Option applica
Red	Calcula

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

PSO	Site #	Site	GOCO / FED	Data Center Name	Data Center Function	Assigned DCEP POC	Data Center POC	Target Date for Closure (CY) (If Scheduled)	Phase of Closure	Street Address	Street Address 2	City	State	Zip Code
NNSA	112.00	LLNL	GOCO	B-111 R-170	General	Paul C Dickinson (925-422-9130)	Scott M Taylor (925-423-9220)	Q4 / 2013	Stage 4: Migration Execution	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-111 R-178	General	Paul C Dickinson (925-422-9130)	Scott M Taylor (925-423-9220)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-1250	General	William E Maciel (925-423-1900)	Andy Ashbaugh (925-422-1137)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-B126	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-B137	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-B140	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-B140A	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-112 R-B151	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-115 R-1410	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-115 R-1465	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-115 R-1469	General	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-115 R-1475	General	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-115 R-1506	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-117 R-1812	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-117 R-1824	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-117 R-1907	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550

IT Facilities, Energy

Country	Gross Floor Area (Sq.Ft.)	Facility Cost ($/Sq.Ft./Yr)	Electricity Included in Cost? (Y/N)	Ownership Type	Data Center Tier / Type	Electricity Metered (Y/N)	Total Data Center (Facility) Power Capacity (kW)	Average Data Center Electricity Usage (kWh)	Total Data Center IT Power Capacity (kW)	Average IT Electricity Usage (kWh)	Cost Per kWh (if known)	Watts per Sq.ft.	Estimated Power Usage Effectiveness (PUE)	Has A DC Pro Assessment been Conducted?	Current Rack Count (#)
USA	794.00	26.02	No	1: Agency Owned	2: Tier II	No	225.00	50.00	125.00	12.00	0.06	15.11	4.17	No	12.00
USA	564.00	26.02	No	1: Agency Owned	2: Tier II	No	225.00	60.00	225.00	17.00	0.06	30.14	3.53	No	15.00
USA	15,476.00	29.62	Yes	1: Agency Owned	3: Tier III	Yes	7,000.00	850.00	569.50	440.00	0.06	28.43	1.93	Yes	250.00
USA	914.00	29.06	Yes	1: Agency Owned	2: Tier II	No	225.00	80.00	65.00	35.00	0.06	38.29	2.29	No	
USA	1,076.00	29.06	Yes	1: Agency Owned	2: Tier II	No	225.00	80.00	65.00	35.00	0.06	32.53	2.29	No	
USA	1,960.00	29.06	Yes	1: Agency Owned	2: Tier II	No	500.00	160.00	125.00	70.00	0.06	35.71	2.29	No	
USA	560.00	29.06	Yes	1: Agency Owned	2: Tier II	No	125.00	62.50	65.00	25.00	0.06	44.64	2.50	No	
USA	1,069.00	29.06	Yes	1: Agency Owned	2: Tier II	No	225.00	80.00	65.00	35.00	0.06	32.74	2.29	No	
USA	2,413.00	31.67	No	1: Agency Owned	2: Tier II	No	550.00	225.00	350.00	150.00	0.06	62.16	1.50	No	19.00
USA	1,443.00	31.67	No	1: Agency Owned	2: Tier II	No	350.00	0.00	250.00	0.00	0.06	Incomplete	Incomplete	No	6.00
USA	904.00	31.67	No	1: Agency Owned	2: Tier II	No	350.00	0.00	200.00	0.00	0.06	Incomplete	Incomplete	No	1.00
USA	972.00	31.67	No	1: Agency Owned	2: Tier II	No	400.00	110.00	250.00	75.00	0.06	77.16	1.47	No	19.00
USA	3,178.00	31.67	No	1: Agency Owned	2: Tier II	No	700.00	45.00	550.00	25.00	0.06	7.87	1.80	No	23.00
USA	1,094.00	29.95	No	1: Agency Owned	2: Tier II	No	300.00	100.00	125.00	55.00	0.06	50.27	1.82	No	8.00
USA	1,611.00	29.95	No	1: Agency Owned	2: Tier II	No	450.00	100.00	125.00	65.00	0.06	40.35	1.54	No	17.00
USA	2,677.00	29.95	No	1: Agency Owned	2: Tier II	No	750.00	250.00	225.00	160.00	0.06	59.77	1.56	No	17.00

Physical Servers									Virtualization				Network Storage			Notes
Sq. Ft. per Rack	Super Computers or HPC Systems	Mainframes (IBM or compatible)	Mainframes (Other)	Windows Servers	Unix Servers	Linux Servers	Other	Total Physical Server Count (#)	Total Virtual Host Count (#)	Total Virtual OS Count (#)	Total Operating Systems Count (#)	Average CPU Utilization of All Physical Servers	SAN/NAS/ DAS - Total (TB)	SAN/NAS/ DAS - Used (TB)	Percent Used	Additional Information
66.17								0.00			0.00				Incomplete	
37.60								0.00			0.00				Incomplete	
61.90								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
127.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	17.00	0.97			Incomplete	
240.50	6.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	0.00	6.00	0.97			Incomplete	
904.00	220.00	0.00	0.00	0.00	0.00	0.00	0.00	220.00	0.00	0.00	220.00	0.97			Incomplete	
51.16	10.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	0.00	0.00	10.00	0.97			Incomplete	
138.17	23.00	0.00	0.00	0.00	0.00	0.00	0.00	23.00	0.00	0.00	23.00	0.97			Incomplete	
136.75	4.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	0.00	0.00	4.00	0.97			Incomplete	
94.76	17.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	0.00	0.00	17.00	0.97			Incomplete	
157.47	21.00	0.00	0.00	0.00	0.00	0.00	0.00	21.00	0.00	0.00	21.00	0.97			Incomplete	

Basic Information														
PSO	Site #	Site	GOCO / FED	Data Center Name	Data Center Function	Assigned DCEP POC	Data Center POC	Target Date for Closure (CY) (If Scheduled)	Phase of Closure	Street Address	Street Address 2	City	State	Zip Code
NNSA	112.00	LLNL	GOCO	B-121 R-1146	General	Gregory A Cooper (925-423-8512)	Susan Boichat (925-423-1777)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-121 R-1347	General	David L Parker (925-422-4607)	Brian Van Hook (925-422-2737)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-131 R-2037A	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-131 R-2259A	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-131 R-2280	General	Gregory A Cooper (925-423-8512)	Brian Van Hook (925-422-2737)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-131 R-2362	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-132N R-1470B	General	Eric D Carlberg (925-423-0139)	Craig Baxter (925-422-9272)	Q4 / 2013	Stage 4: Migration Execution	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-132S R-1521	General	Eric D Carlberg (925-423-0139)	Craig Baxter (925-422-9272)	Q4 / 2015	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-132S R-2205	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-132S R-2500	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-132S R-2506	General	Eric D Carlberg (925-423-0139)	Stanley D Ruppert (925-423-7552)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-140 R-1079	HPC	Eric D Carlberg (925-423-0139)	Susan Boichat (925-423-1777)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-170 R-1008	General	Eric D Carlberg (925-423-0139)	Ed Bush (925-423-4086)	Q4 / 2014	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-170 R-1018	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
				B-175 R-130	General	Paul C Dickinson (925-422-9130)	Rick D Warrick (925-423-7315)	Q4 / 2015	Stage 2: Application Mapping					
NNSA	112.00	LLNL	GOCO	B-191 R-2210	General	n/a	n/a	Q2 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-216 R-185	Server/Telco Room	Paul C Dickinson (925-422-9130)	Travis T Martin (925-422-1089)	Q4 / 2015	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-256 R-1000	Server/Telco Room	William E Maciel (925-423-1900)	David L Lima (925-422-0919)	Q4 / 2015	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-271 R-B120	General	Paul C Dickinson (925-422-9130)	Rick D Warrick (925-423-7315)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-439 R-1030	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-451 R-1050	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550

IT Facilities, Energy

Country	Gross Floor Area (Sq.Ft.)	Facility Cost ($/Sq.Ft./Yr)	Electricity Included in Cost? (Y/N)	Ownership Type	Data Center Tier / Type	Electricity Metered (Y/N)	Total Data Center (Facility) Power Capacity (kW)	Average Data Center Electricity Usage (kWh)	Total Data Center IT Power Capacity (kW)	Average IT Electricity Usage (kWh)	Cost Per kWh (if known)	Watts per Sq.ft.	Estimated Power Usage Effectiveness (PUE)	Has A DC Pro Assessment been Conducted?	Current Rack Count (#)
USA	672.00	27.03	No	1: Agency Owned	2: Tier II	No	300.00	60.00	144.00	20.00	0.06	29.76	3.00	No	4.00
USA	2,000.00	27.03	No	1: Agency Owned	2: Tier II	No	450.00	175.00	225.00	59.40	0.06	29.70	2.95	No	36.00
USA	1,140.00	18.64	No	1: Agency Owned	2: Tier II	No	225.00	112.50	65.00	35.00	0.06	30.70	3.21	No	
USA	1,421.00	18.64	No	1: Agency Owned	2: Tier II	No	225.00	112.50	65.00	40.00	0.06	28.15	2.81	No	
USA	1,956.00	19.04	No	1: Agency Owned	2: Tier II	No	400.00	220.00	225.00	90.00	0.06	46.01	2.44	No	34.00
USA	770.00	18.64	No	1: Agency Owned	2: Tier II	No	125.00	62.50	65.00	25.00	0.06	32.47	2.50	No	
USA	743.00	17.96	No	1: Agency Owned	2: Tier II	No	125.00	40.00	65.00	12.00	0.06	16.15	3.33	No	12.00
USA	743.00	17.96	No	1: Agency Owned	2: Tier II	No	125.00	40.00	65.00	12.00	0.06	16.15	3.33	No	12.00
USA	839.00	16.16	No	1: Agency Owned	2: Tier II	No	225.00	85.00	65.00	32.50	0.06	38.74	2.62	No	
USA	500.00	16.16	No	1: Agency Owned	2: Tier II	No	225.00	80.00	65.00	30.00	0.06	60.00	2.67	No	
USA	2,204.00	17.50	No	1: Agency Owned	2: Tier II	No	800.00	270.00	150.00	110.00	0.06	49.91	2.45	No	32.00
USA	1,700.00	16.02	No	1: Agency Owned	2: Tier II	No	500.00	200.00	300.00	80.00	0.06	47.06	2.50	No	41.00
USA	973.00	16.59	No	1: Agency Owned	2: Tier II	No	230.00	115.00	72.00	36.00	0.06	37.00	3.19	No	19.00
USA	1,745.00	13.60	No	1: Agency Owned	2: Tier II	No	450.00	165.00	125.00	75.00	0.06	42.98	2.20	No	
	2,195.00	12.99	No				1,000.00	80.00	50.00	20.00					13.00
USA	600.00	34.29	No	1: Agency Owned	2: Tier II	No	225.00	90.00	65.00	2.00	0.06	3.33	45.00	No	
USA	1,039.00	48.95	No	1: Agency Owned	2: Tier II	No	400.00	35.00	150.00	10.00	0.06	9.62	3.50	No	16.00
USA	2,313.00	27.88	No	1: Agency Owned	2: Tier II	No	500.00	190.00	180.00	75.00	0.06	32.43	2.53	No	80.00
USA	1,791.00	30.20	No	1: Agency Owned	2: Tier II	No	300.00	60.00	150.00	33.00	0.06	18.43	1.82	No	40.00
USA	6,364.00	37.57	No	1: Agency Owned	2: Tier II	No	2,500.00	750.00	1,000.00	500.00	0.06	78.57	1.50	No	98.00
USA	18,075.00	54.04	Yes	1: Agency Owned	2: Tier II	Yes	5,500.00	955.00	4,000.00	650.00	0.06	35.96	1.47	No	204.00

	Physical Servers								Virtualization				Network Storage			Notes
Sq. Ft. per Rack	Super Computers or HPC Systems	Mainframes (IBM or compatible)	Mainframes (Other)	Windows Servers	Unix Servers	Linux Servers	Other	Total Physical Server Count (#)	Total Virtual Host Count (#)	Total Virtual OS Count (#)	Total Operating Systems Count (#)	Average CPU Utilization of All Physical Servers	SAN/NAS/ DAS - Total (TB)	SAN/NAS/ DAS - Used (TB)	Percent Used	Additional Information
168.00								0.00			0.00	0.15			Incomplete	
55.56	0.00	0.00	0.00	10.00	14.00	74.00	5.00	103.00	0.00	0.00	103.00	0.15	90.00	73.00	0.81	
Incomplete								0.00			0.00	0.30			Incomplete	
Incomplete								0.00			0.00	0.30			Incomplete	
57.53	0.00	0.00	0.00	40.00	7.00	60.00	4.00	120.00	9.00	272.00	383.00	0.30	367.00	225.00	0.61	
Incomplete								0.00			0.00	0.30			Incomplete	
61.92								0.00			0.00				Incomplete	
61.92								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
68.88								0.00			0.00				Incomplete	
41.46								0.00			0.00				Incomplete	
51.21								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
64.94								0.00			0.00				Incomplete	
28.91								0.00			0.00				Incomplete	
44.78								0.00			0.00				Incomplete	
64.94	123.00	0.00	0.00	0.00	0.00	0.00	0.00	123.00	0.00	0.00	123.00	0.97			Incomplete	
88.60	276.00	0.00	0.00	0.00	0.00	0.00	0.00	276.00	0.00	0.00	276.00	0.97			Incomplete	

Basic Information														
PSO	Site #	Site	GOCO / FED	Data Center Name	Data Center Function	Assigned DCEP POC	Data Center POC	Target Date for Closure (CY) (If Scheduled)	Phase of Closure	Street Address	Street Address 2	City	State	Zip Code
NNSA	112.00	LLNL	GOCO	B-451 R-1056	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-453 R-1211 ASL	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-453 R-2100 USR	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-453 R-2125 CSR	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-453 R-2201 West	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-453 R-2251 East	HPC	Anna Maria Bailey (925-423-1288)	Anna Maria Bailey (925-423-1288)			7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-490 R-1012	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-490 R-1015	General	Barbara A Quivey (925-422-1545)	Eric P Ghere (925-525-4080)	Q4 / 2015	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-490 R-1018	General	Barbara A Quivey (925-422-1545)	Eric P Ghere (925-525-4080)	Q4 / 2015	Stage 2: Application Mapping	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-511 R-118A	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-543 R-1073	General	William E Maciel (925-423-1900)	Russell A Baine (925-422-3928)	Q4 / 2013	Stage 3: Migration Planning	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-551W R-1550A	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-551W R-2266	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-551W R-2310	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	B-581 R-1016	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-2580 R-1003	Server/Telco Room	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-2580 R-2000	Server/Telco Room	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-2580 R-2010	Server/Telco Room	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-2632 R-1010	General	n/a	n/a	Q1 / 2013	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-3649 R-1000	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-4377 R-104	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-4406 R-120	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-4725 R-1116	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550
NNSA	112.00	LLNL	GOCO	T-4725 R-1124	General	n/a	n/a	Q4 / 2012	Closed	7000 East Ave		Livermore	Ca	94550

IT Facilities, Energy

Country	Gross Floor Area (Sq.Ft.)	Facility Cost ($/Sq.Ft./Yr)	Electricity Included in Cost? (Y/N)	Ownership Type	Data Center Tier / Type	Electricity Metered (Y/N)	Total Data Center (Facility) Power Capacity (kW)	Average Data Center Electricity Usage (kWh)	Total Data Center IT Power Capacity (kW)	Average IT Electricity Usage (kWh)	Cost Per kWh (if known)	Watts per Sq.ft.	Estimated Power Usage Effectiveness (PUE)	Has A DC Pro Assessment been Conducted?	Current Rack Count (#)
USA	855.00	54.04	Yes	1: Agency Owned	2: Tier II	Yes	400.00	11.00	225.00	8.00	0.06	9.36	1.38	No	8.00
USA	1,585.00	29.11	Yes	1: Agency Owned	2: Tier II	Yes	500.00	39.00	300.00	25.00	0.06	15.77	1.56	No	9.00
USA	2,246.00	29.11	Yes	1: Agency Owned	2: Tier II	Yes	1,200.00	78.00	800.00	62.00	0.06	27.60	1.26	No	44.00
USA	1,082.00	29.11	Yes	1: Agency Owned	2: Tier II	Yes	300.00	47.00	600.00	40.00	0.06	36.97	1.18	No	29.00
USA	24,427.00	29.11	Yes	1: Agency Owned	2: Tier II	Yes	20,000.00	10,195.00	15,000.00	7,550.00	0.06	309.08	1.35	No	324.00
USA	24,424.00	29.11	Yes	1: Agency Owned	2: Tier II	Yes	20,000.00	937.80	15,000.00	750.00	0.06	30.71	1.25	No	204.00
USA	1,640.00	27.74	No	1: Agency Owned	2: Tier II	No	300.00	170.00	140.00	70.00	0.06	42.68	2.43	No	
USA	1,498.00	29.13	No	1: Agency Owned	2: Tier II	No	800.00	400.00	500.00	250.00	0.06	166.89	1.60	No	48.00
USA	1,461.00	29.13	No	1: Agency Owned	2: Tier II	No	1,000.00	500.00	600.00	300.00	0.06	205.34	1.67	No	46.00
USA	649.00	14.25	No	1: Agency Owned	2: Tier II	No	50.00	25.00	16.75	6.00	0.06	9.24	4.17	No	
USA	1,742.00	28.09	No	1: Agency Owned	2: Tier II	No	450.00	35.00	65.00	6.00	0.06	3.44	5.83	No	4.00
USA	1,450.00	16.97	No	1: Agency Owned	2: Tier II	No	225.00	100.00	65.00	30.00	0.06	20.69	3.33	No	
USA	560.00	16.97	No	1: Agency Owned	2: Tier II	No	65.00	32.50	21.78	8.00	0.06	14.29	4.06	No	
USA	798.00	16.97	No	1: Agency Owned	2: Tier II	No	65.00	32.50	21.78	8.00	0.06	10.03	4.06	No	
USA	774.00	7.94	No	1: Agency Owned	2: Tier II	No	350.00	150.00	225.00	65.00	0.06	83.98	2.31	No	
USA	1,387.00	17.75	No	1: Agency Owned	2: Tier II	No	225.00	9.00	65.00	3.50	0.06	2.52	2.57	No	
USA	561.00	17.75	No	1: Agency Owned	2: Tier II	No	115.00	7.00	33.00	2.50	0.06	4.46	2.80	No	
USA	879.00	17.75	No	1: Agency Owned	2: Tier II	No	115.00	8.00	33.00	3.00	0.06	3.41	2.67	No	
USA	552.00	18.33	No	1: Agency Owned	2: Tier II	No	65.00	25.00	22.00	6.00	0.06	10.87	4.17	No	
USA	918.00	10.42	No	1: Agency Owned	2: Tier II	No	125.00	60.00	40.20	12.00	0.06	13.07	5.00	No	
USA	595.00	14.18	No	1: Agency Owned	2: Tier II	No	65.00	25.00	22.00	7.00	0.06	11.76	3.57	No	
USA	1,218.00	9.07	No	1: Agency Owned	2: Tier II	No	225.00	100.00	65.00	25.00	0.06	20.53	4.00	No	
USA	4,268.00	16.22	No	1: Agency Owned	2: Tier II	No	800.00	200.00	225.00	70.00	0.06	16.40	2.86	No	
USA	794.00	16.22	No	1: Agency Owned	2: Tier II	No	225.00	100.00	65.00	30.00	0.06	37.78	3.33	No	

	Physical Servers								Virtualization				Network Storage			Notes
Sq. Ft. per Rack	Super Computers or HPC Systems	Mainframes (IBM or compatible)	Mainframes (Other)	Windows Servers	Unix Servers	Linux Servers	Other	Total Physical Server Count (#)	Total Virtual Host Count (#)	Total Virtual OS Count (#)	Total Operating Systems Count (#)	Average CPU Utilization of All Physical Servers	SAN/NAS/ DAS - Total (TB)	SAN/NAS/ DAS - Used (TB)	Percent Used	Additional Information
106.88	8.00	0.00	0.00	0.00	0.00	0.00	0.00	8.00	0.00	0.00	8.00	0.97			Incomplete	
176.11								0.00			0.00	0.97			Incomplete	
51.05	47.00	0.00	0.00	0.00	0.00	0.00	0.00	47.00	0.00	0.00	47.00	0.97			Incomplete	
37.31	29.00	0.00	0.00	0.00	0.00	0.00	0.00	29.00	0.00	0.00	29.00	0.97			Incomplete	
75.39	341.00	0.00	0.00	0.00	0.00	0.00	0.00	341.00	0.00	0.00	341.00	0.97			Incomplete	
119.73	292.00	0.00	0.00	0.00	0.00	0.00	0.00	292.00			292.00	0.97			Incomplete	
Incomplete								0.00			0.00				Incomplete	
31.21								0.00			0.00				Incomplete	
31.76								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
435.50								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	
Incomplete								0.00			0.00				Incomplete	

Electronic Stewardship - Acquisition and Disposal

Requirement(s): E.O. 13514, E.O. 13423

Instructions: Please complete FY 2014 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 re 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 sh 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 %
NNSA	112	LLNL	2012	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	1911	0	0	1909	0	2	100%
NNSA	112	LLNL	2012	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	1538	0	134	1310	12	94	94%
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	--
NNSA	112	LLNL	2012	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	1246	0	8	1238	0	0	100%
NNSA	112	LLNL	2012	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	0	0	0	0	0	0	--
NNSA	112	LLNL	2012	Printers	No	Imaging Equipment	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--
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	--
NNSA	112	LLNL	2012	Televisions	No	Televisions	Acquisition and/or Disposal	N/A	N/A	N/A	N/A	N/A	N/A	--
NNSA	112	LLNL	2012	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
NNSA	112	LLNL	2012	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
NNSA	112	LLNL	2012	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
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	--
NNSA	112	LLNL	2013	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	985	0	1	978	1	6	99%
NNSA	112	LLNL	2013	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	728	0	51	652	4	25	97%
NNSA	112	LLNL	2013	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	N/A	N/A	N/A	N/A		0	--
NNSA	112	LLNL	2013	Notebook Computers	Yes	Computers & Displays	Acquisition and/or Disposal	446	0	10	436	0	0	100%
NNSA	112	LLNL	2013	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal	0					0	--
NNSA	112	LLNL	2013	Printers	Yes	Imaging Equipment	Acquisition and/or Disposal	134	103	12	0	0	19	86%
NNSA	112	LLNL	2013	Multifunction Devices	Yes	Imaging Equipment	Acquisition and/or Disposal	45	3	18	0	0	24	47%
NNSA	112	LLNL	2013	Televisions	Yes	Televisions	Acquisition and/or Disposal	21	0	5	0		16	24%
NNSA	112	LLNL	2013	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
NNSA	112	LLNL	2013	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
NNSA	112	LLNL	2013	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A	N/A	--
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	--
NNSA	112	LLNL	2014	Desktop Computers	Yes	Computers & Displays	Acquisition and/or Disposal	788	0	0	788		0	100%
NNSA	112	LLNL	2014	LCD Monitors	Yes	Computers & Displays	Acquisition and/or Disposal	931	0	3	927	1	1	100%
NNSA	112	LLNL	2014	CRT Monitors	No	Computers & Displays	Acquisition and/or Disposal	0					0	--

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. 13514, E.O. 13423

Instructions: Please complete FY 2014 electronic stewardship data related to acquisition and disposal. Acquired for all categories. "Bulk Electronics Disposal" can be chosen under the Electronic Category (Column E) to enter the weight of product recycled if the number of any indiould be no overlap (e.g. if 8 LCD monitors are entered as recycled, the weight of those monitors should not be included in any "Bulk Electronics Disposal" entry). If available,

Source: Site/Lab

Methodology

Basic Information							Disposal							Notes	
PSO	Site #	Site	FY	Electronic Category	EPEAT Qualified Product?	EPEAT Type	Disposal Units	Transferred or Donated	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	# of Units	2	0	2532	0	0.1%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	LCD Monitors	Yes	Computers & Displays	# of Units	0	0	1686	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	CRT Monitors	No	Computers & Displays	# of Units	0	0	240	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Notebook Computers	Yes	Computers & Displays	# of Units	0	0	1415	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Thin Clients	Yes	Computers & Displays	# of Units					--	--		Note: Source PPTRS.
NNSA	112	LLNL	2012	Printers	No	Imaging Equipment	# of Units	0	0	586	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Multifunction Devices	No	Imaging Equipment	# of Units	0	0	82	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Televisions	No	Televisions	# of Units	0	0	135	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Servers	No	N/A	# of Units	0	0	421	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Mobile Phones	No	N/A	# of Units	0	0	260	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Personal Digital Assistants	No	N/A	# of Units	0	0	1988	0	0.0%	100%		Note: Source PPTRS.
NNSA	112	LLNL	2012	Bulk Electronics Disposal	N/A	N/A	Metric Tons					--	--		Note: Source PPTRS.
NNSA	112	LLNL	2013	Desktop Computers	Yes	Computers & Displays	# of Units	0	0	2942	0	0.0%	100%		
NNSA	112	LLNL	2013	LCD Monitors	Yes	Computers & Displays	# of Units	0	0	1788	0	0.0%	100%		
NNSA	112	LLNL	2013	CRT Monitors	No	Computers & Displays	# of Units	0	0	222	0	0.0%	100%		
NNSA	112	LLNL	2013	Notebook Computers	Yes	Computers & Displays	# of Units	12	0	1507	0	0.8%	100%		
NNSA	112	LLNL	2013	Thin Clients	Yes	Computers & Displays	# of Units	0	0	9	0	0.0%	100%		
NNSA	112	LLNL	2013	Printers	Yes	Imaging Equipment	# of Units	0	0	674	0	0.0%	100%		
NNSA	112	LLNL	2013	Multifunction Devices	Yes	Imaging Equipment	# of Units	0	0	84	0	0.0%	100%		
NNSA	112	LLNL	2013	Televisions	Yes	Televisions	# of Units	0	0	118	0	0.0%	100%		
NNSA	112	LLNL	2013	Servers	No	N/A	# of Units	0	0	387	0	0.0%	100%		
NNSA	112	LLNL	2013	Mobile Phones	No	N/A	# of Units	0	0	374	0	0.0%	100%		
NNSA	112	LLNL	2013	Personal Digital Assistants	No	N/A	# of Units	0	0	24	0	0.0%	100%		
NNSA	112	LLNL	2013	Bulk Electronics Disposal	N/A	N/A	Metric Tons					--	--		
NNSA	112	LLNL	2014	Desktop Computers	Yes	Computers & Displays	# of Units	2	385	0	0	0.5%	100%		
NNSA	112	LLNL	2014	LCD Monitors	Yes	Computers & Displays	# of Units	0	262	0	0	0.0%	100%		
NNSA	112	LLNL	2014	CRT Monitors	No	Computers & Displays	# of Units	1	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%
NNSA	112	LLNL	2014	Thin Clients	Yes	Computers & Displays	Acquisition and/or Disposal		71	0	1	0		70	1%
NNSA	112	LLNL	2014	Printers	Yes	Imaging Equipment	Acquisition and/or Disposal		144	60	71	0	8	13	91%
NNSA	112	LLNL	2014	Multifunction Devices	Yes	Imaging Equipment	Acquisition and/or Disposal		7	3	2	0	0	2	71%
NNSA	112	LLNL	2014	Televisions	Yes	Televisions	Acquisition and/or Disposal		28	0	6	0	11	22	21%
NNSA	112	LLNL	2014	Servers	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A		N/A	--
NNSA	112	LLNL	2014	Mobile Phones	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A		N/A	--
NNSA	112	LLNL	2014	Personal Digital Assistants	No	N/A	Disposal Only	N/A	N/A	N/A	N/A	N/A		N/A	--
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	--

Methodology

Basic Information							Disposal							Notes
NNSA	112	LLNL	2014	Notebook Computers	Yes	Computers & Displays	# of Units	0	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	# of Units	0	0	0	0	--	--	
NNSA	112	LLNL	2014	Printers	Yes	Imaging Equipment	# of Units	2	424	0	0	0.5%	100%	
NNSA	112	LLNL	2014	Multifunction Devices	Yes	Imaging Equipment	# of Units	1	37	0	0	2.6%	100%	
NNSA	112	LLNL	2014	Televisions	Yes	Televisions	# of Units	0	51	0	0	0.0%	100%	
NNSA	112	LLNL	2014	Servers	No	N/A	# of Units	3	193	0	0	1.5%	100%	
NNSA	112	LLNL	2014	Mobile Phones	No	N/A	# of Units	0	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	# of Units	0	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	Metric Tons					--	--	

Electronic Stewardship - Operations

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. 13514, E.O. 13423

Instructions: Please enter FY 2014 data for both power management of computers and monitors and duplex printing for printers. Note for FY 2014 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

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
NNSA	112	LLNL	2012	Printers, Copiers, MFDs	Duplex Printing	4,628	122	94			Note: Source PPTRS.
NNSA	112	LLNL	2012	Desktop Computers	Power Management	11,809	7,609	4,200			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			Note: Source PPTRS.
NNSA	112	LLNL	2012	Notebook Computers	Power Management	7,567	5,267	2,300			Note: Source PPTRS.
NNSA	112	LLNL	2013	Desktop Computers	Power Management	9,496	4,657	4,839			
NNSA	112	LLNL	2013	CRT Monitors	Power Management	590	590	-			
NNSA	112	LLNL	2013	LCD Monitors	Power Management	8,096	2,748	5,348			
NNSA	112	LLNL	2013	Notebook Computers	Power Management	6,019	2,971	3,048			
NNSA	112	LLNL	2014	Desktop Computers	Power Management	9,104	3,779	5,325			
NNSA	112	LLNL	2014	CRT Monitors	Power Management	-					
NNSA	112	LLNL	2014	LCD Monitors	Power Management	11,110	3,123	7,987			
NNSA	112	LLNL	2014	Notebook Computers	Power Management	5,885	4,343	1,542			

Fugitive Emissions: Refrigerants and Fluorinated Gases, Mixed Refrigerants

Requirement(s): DOE O 436.1, E.O. 13514

Instructions: Provide FY 2014 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

Methodology

							Refrigerant Information							
							Default Approach	OR	Simplified Material Balance Approach					
PSO	Site #	Site	FY	Data Entry Type	Refrigerant 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 refrigerant acquisitions (lbs)	Sum of all refrigerant disbursements (lbs)	Total capacity of refrigerant in equipment at beginning of inventory year (lbs)	Total capacity of refrigerant in equipment at end of inventory year (lbs)
NNSA	112	LLNL	2011	Fiscal Year	R-14	R-14	4.500	-						
NNSA	112	LLNL	2011	Fiscal Year	R-23	R-23	11.000	-						
NNSA	112	LLNL	2011	Fiscal Year	R-407C	R-32/125/134a	50.000	-						
NNSA	112	LLNL	2011	Fiscal Year	R-410A	R-32/125	500.000	-						
NNSA	112	LLNL	2011	Fiscal Year	R-C318	R-C318	30.000	-						
NNSA	112	LLNL	2012	Fiscal Year	R-23	R-23	11.000							
NNSA	112	LLNL	2012	Fiscal Year	R-134a	R-134a	45.000							
NNSA	112	LLNL	2012	Fiscal Year	R-407C	R-32/125/134a	275.000							
NNSA	112	LLNL	2012	Fiscal Year	R-C318	R-C318	70.000							
NNSA	112	LLNL	2012	Fiscal Year	R-508B	R-23/116	10.000							
NNSA	112	LLNL	2008	Fiscal Year	R-23	R-23	11.000	-						
NNSA	112	LLNL	2008	Fiscal Year	R-407C	R-32/125/134a	162.500	-						
NNSA	112	LLNL	2008	Fiscal Year	R-C318	R-C318	50.000	-						
NNSA	112	LLNL	2013	Fiscal Year	R-23	R-23	-							
NNSA	112	LLNL	2013	Fiscal Year	R-134a	R-134a	625.000							
NNSA	112	LLNL	2013	Fiscal Year	R-404A	R-125/143a/134a	24.000							
NNSA	112	LLNL	2013	Fiscal Year	R-C318	R-C318	24.000							
NNSA	112	LLNL	2013	Fiscal Year	R-508B	R-23/116	-							
NNSA	112	LLNL	2014	Fiscal Year	R-C318	R-C318	24.000							
NNSA	112	LLNL	2014	Fiscal Year	R-22	R-22	4,935.000							
NNSA	112	LLNL	2014	Fiscal Year	R-134a	R-134a	349.050							
NNSA	112	LLNL	2014	Fiscal Year	R-404A	R-125/143a/134a	156.000							
NNSA	112	LLNL	2014	Fiscal Year	R-410A	R-32/125	50.000							

Key:	
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Red	Calculated fields. No action required.

										Notes	
Emitted Refrigerant Quantity (lbs)	F-Gas: Type 1		F-Gas: Type 2		F-Gas: Type 3		F-Gas: Type 4		Anthropogenic $MtCO_2e$	Additional Information	SPO Notes
	Material	Amount (lbs)	Material	Amount (lbs)	Material	Amount (lbs)	Material	Amount (lbs)			
4.500	PFC-14	4.500	-	-	-	-	-	-	13.268		
11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
50.000	HFC-32	11.500	HFC-125	12.500	HFC-134a	26.000	-	-	34.598		
500.000	HFC-32	250.000	HFC-125	250.000	-	-	-	-	391.223		
30.000	PFC-c318	30.000	-	-	-	-	-	-	118.388		
11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
45.000	HFC-134a	45.000	-	-	-	-	-	-	26.535		
275.000	HFC-32	63.250	HFC-125	68.750	HFC-134a	143.000	-	-	190.288		
70.000	PFC-c318	70.000	-	-	-	-	-	-	276.238		
10.000	HFC-23	4.600	PFC-116	5.400	-	-	-	-	46.947		
11.000	HFC-23	11.000	-	-	-	-	-	-	58.377		
162.500	HFC-32	37.375	HFC-125	40.625	HFC-134a	84.500	-	-	112.443		
50.000	PFC-c318	50.000	-	-	-	-	-	-	197.313		
-	HFC-23	-	-	-	-	-	-	-	-		
625.000	HFC-134a	625.000	-	-	-	-	-	-	368.544		
24.000	HFC-125	10.560	HFC-134a	0.960	HFC-143a	12.480	-	-	35.489		
24.000	PFC-c318	24.000	-	-	-	-	-	-	94.710		
-	HFC-23	-	PFC-116	-	-	-	-	-	-		
24.000	PFC-c318	24.000	-	-	-	-	-	-	112.128		
4,935.000	-	-	-	-	-	-	-	-	-		
349.050	HFC-134a	349.050	-	-	-	-	-	-	226.407		
156.000	HFC-125	68.640	HFC-134a	6.240	HFC-143a	81.120	-	-	277.494		
50.000	HFC-32	25.000	HFC-125	25.000	-	-	-	-	47.344		

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

Requirement(s): DOE O 436.1, E.O. 13514

Instructions: Provide FY 2014 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 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

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	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	CF3CFHCFHCF2CF3	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		
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	CF3CFHCFHCF2CF3	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	CF3CFHCFHCF2CF3	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		Request: Please review an
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	CF3CFHCFHCF2CF3	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 CO2 ger	Note: Site noted usage in t
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	CF3CFHCFHCF2CF3	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	CF3CFHCFHCF2CF3	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		

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. 13514

Instructions: Provide FY 2014 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		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		
						#N/A		-	-		

Fugitive Emissions: On-site 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. 13514

Instructions: Provide FY 2014 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

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	2011	230.000						78.000	76.000	-	10.448	LLNL assumptions for lagoon: 1) 69 FTE on 4/10s + 4	
NNSA	112	LLNL	2008	230.000							110.421	-	7.200	Request: Please review and pr	
NNSA	112	LLNL	2010	230.000							110.421	-	7.200	Request: Please review and pr	
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 pe	
NNSA	112	LLNL	2012	168.000							9.000	-	0.429	LLNL assumptions for septic 3 FTE 24/7 three days p	
NNSA	112	LLNL	2013	230.000						66.000		-	4.648	LLNL assumptions for lagoon General Services Area	
NNSA	112	LLNL	2013	230.000						12.000		-	0.845	LLNL assumptions for sewage lagoon Fire Dept. 3 shi	
NNSA	112	LLNL	2013	230.000							42.000	-	2.739	LLNL assumptions for septic systems Forward Areas	
NNSA	112	LLNL	2013	230.000							15.000	-	0.978	LLNL assumptions for security officers discharging to	
NNSA	112	LLNL	2014	230.000						73.000		-	6.120	LLNL assumptions for lagoon General Services Area	
NNSA	112	LLNL	2014	230.000						12.000		-	1.006	LLNL assumptions for sewage lagoon Fire Dept. 3 shi	
NNSA	112	LLNL	2014	230.000							43.000	-	3.338	LLNL assumptions for septic systems Forward Areas	
NNSA	112	LLNL	2014	230.000							15.000	-	1.164	LLNL assumptions for security officers discharging to	

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. 13514

Instructions: Provide FY 2014 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	
PSO	Site #	Site	FY	Workdays per Year	Centralized WWTP with Anaerobic Digestion (Persons)	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		Biogenic $MtCO_2e$	Total Anthropogenic $MtCO_2e$	Additional Information	Notes
						%	Persons	%	Persons	%	Persons	%	Persons	%	Persons				
NNSA	112	LLNL	2011	230.000	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	2010	230.000	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	2008	230.000	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	2012	230.000	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	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	100.0%	5,870.0	0.0%	-	100.0%	5,870.0	0.0%	-	0.0%	-	18.574	14.146		

Business Air Travel

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

Requirement(s): DOE O 436.1, E.O. 13514

Instructions: Provide FY 2014 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	
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	
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		

Business Ground Travel (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. 13514

Instructions: Provide FY 2014 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 $MtCO_2e$	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		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		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		
NNSA	112	LLNL	2011	POV Mileage	Passenger Car	Gasoline	995,445	Total Reimbursed Mileage		-	372.865		
NNSA	112	LLNL	2011	Mass Transit Trip Mileage	Intercity Rail	Diesel	5	Number of Agency Business Trips	575.400	575.400	0.533		
NNSA	112	LLNL	2012	Rental Trip Mileage	Passenger Car	Gasoline	11,503	Number of Agency Business Trips	240.852	210.000	1,037.758		
NNSA	112	LLNL	2012	POV Mileage	Passenger Car	Gasoline	995,395	Total Reimbursed Mileage		-	372.846		
NNSA	112	LLNL	2013	Rental Trip Mileage	Passenger Car	Gasoline	10,301	Number of Agency Business Trips	210.000	210.000	810.276		
NNSA	112	LLNL	2013	POV Mileage	Passenger Car	Gasoline	751,369	Total Reimbursed Mileage		-	281.441		
NNSA	112	LLNL	2014	Rental Trip Mileage	Passenger Car	Gasoline	12,260	Number of Agency Business Trips		210.000	963.701		
NNSA	112	LLNL	2014	POV Mileage	Passenger Car	Gasoline	773,747	Total Reimbursed Mileage		-	289.622		

Employee Commuting (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. 13514

Instructions: Provide FY 2014 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

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 $MtCO_2e$	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	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	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	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	-	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	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	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	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	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	-	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	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	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	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	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	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	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	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	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	-	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	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	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	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	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	-	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	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-	All data (2008-2013) revised to use standardized methodology	
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-	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		
NNSA	112	LLNL	2013	Car/Van Pools	Van Pool	Gasoline	32,804	Commute (Miles / Day)	230.000	230.000	1,007.862		
NNSA	112	LLNL	2013	Mass Transit	Bus	Diesel	15,248	Commute (Miles / Day)	230.000	230.000	375.841		
NNSA	112	LLNL	2013	Human Powered	Walking and/or Bicycling		8,206	Commute (Miles / Day)	230.000	230.000	-		
NNSA	112	LLNL	2013	Personal Owned Vehicles	Motorcycle	Gasoline	7,016	Commute (Miles / Day)	230.000	230.000	275.358		

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 $MtCO_2e$	Additional Information	Notes
NNSA	112	LLNL	2014	Personal Owned Vehicles	POV Passenger Car	Gasoline	207,771	Commute (Miles / Day)	230.000	230.000	17,887.323		
NNSA	112	LLNL	2014	Car/Van Pools	Van Pool	Gasoline	29,280	Commute (Miles / Day)	230.000	230.000	898.884		
NNSA	112	LLNL	2014	Mass Transit	Bus	Diesel	13,681	Commute (Miles / Day)	230.000	230.000	337.205		
NNSA	112	LLNL	2014	Human Powered	Walking and/or Bicycling		7,097	Commute (Miles / Day)	230.000	230.000	-		
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-		
NNSA	112	LLNL		Personal Owned Vehicles	POV Passenger Car	Gasoline		Commute (Miles / Day)	230.000	230.000	-		

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

Requirement(s): DOE O 436.1, E.O. 13514

Instructions: This is a required tab for FY 2014 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	
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)	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)		Biogenic $MtCO_2e$	Anthropogenic $MtCO_2e$	Additional Information	Notes
										Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default				
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					0.0						100%		50%		75%		1%		10%		99%	-	-		
					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. 13514

Instructions: This is a required tab for FY 2014 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																											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)	Degradable Organic Carbon (Megagram C/ Megagram		DOC Anaerobic Digestibility (%)		Methane Correction Factor	Methane % of Landfill Gas (%)		Methane Molecular Weight Conversion	Carbon Dioxide Molecular Weight Conversion	Carbon dioxide (biogenic) (MT Megagram)	Methane (MT Megagram)	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)		Biogenic $MtCO_2e$	Anthropogenic $MtCO_2e$	Additional Information	Notes
						Site	Default	Site	Default		Site	Default					Site	Default	Site	Default	Site	Default	Site	Default	Site	Default	Site	Default				
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	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	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	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		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		
					-	0.203		50.0%		1.0	50.0%		1.333	3.667	-	-	100.0%		50.0%		75.0%		1.0%		10.0%		99.0%		-	-		

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. 13514

Instructions: FY 2014 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 2014 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%		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		
				0.0	0.0			0.0					--			--		

Fleet Fuel (FAST Data)

Requirement(s): NECPA, EISA 2007, DOE O 436.1, E.O. 13514

Instructions: This is an optional tab for FY 2014 GHG estimates of fleet fuel and fleet fuel goal performance. If information for FY 2014 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

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered Agency	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural Units	Fuel GGE Conversion Factor	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$
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

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered Agency	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural Units	Fuel GGE Conversion Factor	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$
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
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

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered Agency	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural Units	Fuel GGE Conversion Factor	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$
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
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

PSO	Site #	Fleet Parent	Fleet Name	Report Year	Agency Group	EPAct-covered Agency	EO-covered Fuel	Fuel Group	Fuel Name	Fuel Type	Fuel State Abbreviation	Vehicle Exemption	Fuel Armored	Fuel Consumption (GGE)	Fuel Consumption (NU)	Fuel Natural Units	Fuel GGE Conversion Factor	Fuel Cost ($)	Diesel From B20	Anthropogenic $MtCO_2e$
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
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

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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
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

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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
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	72,351.000	No	19.98787449

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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	209,678.000	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	426.000	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	9,715.000	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	0.000	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	31,209.000	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	67,355.000	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	347,163.000	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	708.000	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	3,167.000	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	86,226.000	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	226,371.000	No	53.39669403
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	70.000	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	140.000	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	1,099.000	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	14,921.000	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	93,487.000	No	265.5777448

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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	455.000	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	545.000	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	640.000	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	320,747.000	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	292.000	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	988.000	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	276.000	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	1,939.000	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	32.000	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	29.000	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	233.000	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	2,003.000	No	4.4218288
NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	AZ	None	No	359	313	gallons	1.147	1,215.000	No	3.321373077
NNSA	112	NNSA Complex-Albuquerque	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

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NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	CA	None	No	22677	19771	gallons	1.147	73,182.419	No	209.7982975
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Diesel	DSL	CA	E/ER	No	5292	4614	gallons	1.147	16,209.000	No	48.96107149
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	None	No	53760	74667	gallons	0.72	288,145.000	No	71.78593278
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	CA	LE	No	18945	26312	gallons	0.72	101,435.000	No	25.29673702
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Gasoline	Gas	CA	None	No	92750	92750	gallons	1	368,779.000	No	821.6988989
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Petroleum	Gasoline	Gas	CA	LE	No	3166	3166	gallons	1	12,634.000	No	28.04850366
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	DE	None	No	26	36	gallons	0.72	115.000	No	0.03461092
NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	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
NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NM	None	No	322	281	gallons	1.147	1,017.000	No	2.981807778
NNSA	112	NNSA Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	NM	None	No	15	21	gallons	0.72	74.000	No	0.020189703
NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	NV	None	No	133	116	gallons	1.147	457.000	No	1.230924207
NNSA	112	NNSA Complex-Albuquerque	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

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NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	No	Alternative	E-85	E85	TN	None	No	12	16	gallons	0.72	55.000	No	0.015382631
NNSA	112	NNSA Complex-Albuquerque	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 Complex-Albuquerque	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 Complex-Albuquerque	Lawrence Livermore National Laboratory	2014	EPACT-Covered Civilian Agencies	Yes	Yes	Petroleum	Diesel	DSL	VA	None	No	169	147	gallons	1.147	535.000	No	1.55987809

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.

Source: Site/Lab and FIMS

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.

Strategy

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	140320	581	THE NATIONAL IGNITION FACILITY	G - Metered intensive loads	B	696,968	3,796	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	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	127068	132N	DPRF		B	251,316	251,316	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	200806	453	TERA SCALE FACILITY	G - Metered intensive loads	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	89562	132S	G.S		B	219,385	219,385	-		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	89855	391	DEVELOPMENT LABS		B	197,841	197,841	-		112	NNSA	NNSA	O	N	Operating		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	89658	191	HEAF		B	121,028	121,028	-		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	89933	482	OFFICE		B	108,000	108,000	-		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	89589	151	ISOTOPE SCIENCES FACILITY		B	96,018	96,018	-		112	NNSA	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	89553	121	PAT OFFICE		B	90,759	90,759	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89702	235	WMRDF		B	88,175	88,175	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
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	89978	543	O&B / PFS / SHMR OFFICES		B	78,261	78,261	-		112	SC	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	89868	411	SHIPPING/RECEIVIN G		B	71,625	71,625	-		112	NNSA	NNSA	O	N	Operating		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	143668	140	G.S		B	66,660	66,660	-		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 Lab Site 300	90581	865	VACANT		B	61,360	61,360	-		112	NNSA	NNSA	O	N	Operational Standby	9999	Tracy	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	89786	321A	MATERIALS FAB SHOP		B	59,515	59,515	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89897	435	VACANT		B	57,724	57,724	-		112	SC	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
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	89707	241	VACANT		B	54,369	54,369	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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 estimating energy consumption, providing anticipated evaluation year and benchmarking status. Sites will be provided the option to update or use in 432 June snapshot reporting.

Source: Site/Lab and FIMS

Strategy

				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	Additional Information	SPO Review/Requests
Lawrence Livermore National Laboratory	140320	581	THE NATIONAL IGNITION FACILITY	Covered	83,438.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89561	131	ENGINEERING	Covered	63,683.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	127068	132N	DPRF	Covered	17,736.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	200806	453	TERA SCALE FACILITY	Covered	458,100.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89562	132S	G.S	Covered	14,510.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89934	490	IMF MANAGED LAB FACILITY	Covered	33,816.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89855	391	DEVELOPMENT LABS	Covered	48,300.000	-	10/11	10/11	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89699	231	DEVLMT & ASSBLY ENGNG	Covered	15,621.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89658	191	HEAF	Covered	17,967.000	-	10/11	10/11	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89547	111	DIRECTORS OFFICE	Covered	12,445.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89933	482	OFFICE	Covered	6,636.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89802	332	PU FACILITY	Covered	13,940.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89589	151	ISOTOPE SCIENCES FACILITY	Covered	48,664.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89847	381	OFFICE/RESEARCH	Covered	36,774.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89553	121	PAT OFFICE	Covered	16,570.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89702	235	WMRDF	Covered	1,535.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	205438	321C	MATERIALS FAB SHOP	Covered	11,709.000	-	FY2016	FY2016	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89978	543	O&B / PFS / SHMR OFFICES	Covered	5,221.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89951	511	MUSD / CRAFTS SHOP	Covered	2,802.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89868	411	SHIPPING/RECEIVING	Not Covered		-								
Lawrence Livermore National Laboratory	89821	361	BIOSCIENCES RESEARCH	Covered	12,674.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	143668	140	G.S	Covered	7,572.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	130292	551W	BUS/NCOP/TID/SCM	Covered	5,089.000	-	FY2016	FY2016	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore Lab Site 300	90581	865	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89932	481	OFFICE	Covered	2,830.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89786	321A	MATERIALS FAB SHOP	Covered	8,899.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89897	435	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89891	431	ACCELERATOR RESCH CNTR	Not Covered		-								
Lawrence Livermore National Laboratory	89707	241	VACANT	Not Covered		-								

Strategy

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	89731	261	VACANT		B	52,655	52,655	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89922	451	COMPUTATION FACILITY BLDG	G - Metered intensive loads	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	89767	298	TARGET FABRICATION		B	47,986	47,986	-		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	137350	681	OPTICS ASSEMBLY BLDG	G - Metered intensive loads	B	46,819	46,819	46,819	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	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	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 Lab Site 300	90522	801A	FIRING FACILITY(FXR)		B	44,262	44,262	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89808	341	VACANT		B	44,184	44,184	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89662	194	PAT		B	41,543	41,543	-		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	89985	571	NIF OFFICE		B	41,407	41,407	-		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	89768	311	DOE OFFICES		B	40,951	40,951	-		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	89714	251	VACANT		B	31,120	31,120	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89801	331	TRITIUM FACILITY		B	30,484	30,484	-		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	89812	343	IMF MANAGED OFFICE/LAB		B	27,368	27,368	-		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	89542	41	LONG TERM STORAGE		B	25,555	25,555	-		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	89725	255	HC SPD LABS-OFFICES		B	21,855	21,855	-		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	141490	155	ISF OFFICE		B	21,742	21,742	-		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	135831	696	EPD/RHWM WST PRCSSING-SOLID		B	21,381	21,381	-		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 Pending D&D	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	201413	242	OFFICE		B	20,328	20,328	-		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	89711	243	E&E LAB SPACE		B	20,000	20,000	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA

Strategy

				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	Additional Information	SPO Review/Requests
Lawrence Livermore National Laboratory	89731	261	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89922	451	COMPUTATION FACILITY BLDG	Covered	84,147.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89767	298	TARGET FABRICATION	Covered	17,250.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89576	141	ELECTRONIC SHOPS	Covered	4,186.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	137350	681	OPTICS ASSEMBLY BLDG	Covered	5,605.000	-	FY2016	FY2016	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	140676	695	EPD/RHWM LIQUID WST PROCSSING	Covered	32,703.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	203771	112	COMPUTER CENTER	Covered	20,811.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89548	113	G.S	Covered	11,033.000	-	07/10	07/10	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore Lab Site 300	90522	801A	FIRING FACILITY(FXR)	Not Covered		-								
Lawrence Livermore National Laboratory	89808	341	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	125923	170	NARAC FACILITY	Covered	8,091.000	-	10/11	10/11	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89662	194	PAT	Covered	12,770.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	90041	671	PROCUREMENT	Covered	2,413.000	-	FY2016	FY2016	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89985	571	NIF OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	130291	551E	O&B / F&I OFFICES	Covered	2,313.000	-	FY2016	FY2016	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89768	311	DOE OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89893	432	IMF MANAGED LAB FACILITY	Covered	3,055.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89714	251	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89722	253	HC DEPT OFFICES & LABS	Covered	3,223.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89801	331	TRITIUM FACILITY	Covered	10,171.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89943	494	STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89812	343	IMF MANAGED OFFICE/LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89593	153	MICROFABRICATION LAB	Covered	25,555.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89542	41	LONG TERM STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	90040	663	HEALTH SERVICES	Not Covered		-								
Lawrence Livermore National Laboratory	89725	255	HC SPD LABS-OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	203637	583	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	141490	155	ISF OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89747	274	SECURITY ADMINISTRATION	Not Covered		-								
Lawrence Livermore National Laboratory	135831	696	EPD/RHWM WST PRCSSING-SOLID	Not Covered		-								
Lawrence Livermore National Laboratory	89761	292	CAMS LAB FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	202401	264	ESH OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	201413	242	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	143756	142	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89711	243	E&E LAB SPACE	Not Covered		-								

Strategy

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	90590	874	MECHANICAL SHOPS		B	19,972	19,972	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89874	415	EMPLOYEE RESOURCES		B	19,297	19,297	-		112	NNSA	NNSA	O	N	Operating		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	89942	493	SUPPORT FACILITY/STORAGE		B	19,100	19,100	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89600	162	RESEARCH/CRYSTA L GTH		B	19,042	19,042	-		112	NNSA	NNSA	O	N	Operating		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	89744	271	PROTECTIVE FORCE		B	18,874	18,874	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89792	323	EMERGENCY SERVICES / FIRE		B	18,555	18,555	-		112	NNSA	NNSA	O	N	Operating		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	90042	691	IMF MANAGED LAB FACILITY		B	18,437	18,437	-		112	NNSA	NNSA	O	N	Operating		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	89772	315	ESH ENVIRONMENTAL		B	18,133	18,133	-		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	89677	217	VACANT		B	17,999	17,999	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89680	218	VACANT		B	17,956	17,956	-		112	NNSA	NNSA	O	N	Operational Standby		Livermore	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 National Laboratory	89549	115	COMPUTATION FACILITY BLDG		B	17,140	17,140	-		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	89901	438	ERD OFC-FIELD OPERATIONS		B	16,262	16,262	-		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 Lab Site 300	90591	875	PE/SUPPLY & MAINTENANCE		B	15,171	15,171	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	133205	211	PAT		B	14,122	14,122	-		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	89640	181	PAT		B	13,532	13,532	-		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	89771	314	DIR.OFF/QA		B	13,238	13,238	-		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 Lab Site 300	90572	851A	FIRING FACILITY		B	12,996	12,996	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89556	125	WEST CAFETERIA		B	12,513	12,513	-		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	89973	531	ICS OFFICE		B	12,381	12,381	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	209507	6475	HIGH PERFORMANCE		B	12,070	12,070	-		112	NNSA	NNSA	C	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	90044	693	EPD/RHWM WASTE STORAGE		B	12,000	12,000	-		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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore Lab Site 300	90590	874	MECHANICAL SHOPS	Not Covered		-								
Lawrence Livermore National Laboratory	89634	174	PAT	Covered	5,041.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89874	415	EMPLOYEE RESOURCES	Not Covered		-								
Lawrence Livermore National Laboratory	89795	327	RADIOGRAPHY	Not Covered		-								
Lawrence Livermore National Laboratory	89942	493	SUPPORT FACILITY/STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89600	162	RESEARCH/CRYSTAL GTH	Covered	2,228.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89676	216	CYBER SECURITY	Covered	1,987.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89744	271	PROTECTIVE FORCE	Not Covered		-								
Lawrence Livermore National Laboratory	89792	323	EMERGENCY SERVICES / FIRE	Not Covered		-								
Lawrence Livermore National Laboratory	89757	281	LABORATORY	Not Covered		-								
Lawrence Livermore National Laboratory	90042	691	IMF MANAGED LAB FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89682	219	IMF MANAGED OFFICE FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89772	315	ESH ENVIRONMENTAL	Not Covered		-								
Lawrence Livermore National Laboratory	89782	319	IMF MANAGED OFFICE FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89677	217	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89680	218	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90589	873	PE/C&M SHOPS	Not Covered		-								
Lawrence Livermore National Laboratory	89549	115	COMPUTATION FACILITY BLDG	Covered	3,627.000	-	09/14	09/14	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89635	175	IMF MANAGED LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89901	438	ERD OFC-FIELD OPERATIONS	Not Covered		-								
Lawrence Livermore National Laboratory	143564	471	CENTRAL CAFETERIA	Not Covered		-								
Lawrence Livermore Lab Site 300	90591	875	PE/SUPPLY & MAINTENANCE	Not Covered		-								
Lawrence Livermore National Laboratory	90016	611	AUTO FLEET MAINTENANCE	Not Covered		-								
Lawrence Livermore National Laboratory	133205	211	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89774	316	DIRECTORS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89640	181	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89937	491	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89771	314	DIR.OFF/QA	Not Covered		-								
Lawrence Livermore National Laboratory	89607	166	DEVELOPMENT LAB	Not Covered		-								
Lawrence Livermore Lab Site 300	90572	851A	FIRING FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89703	239	RADIOGRAPHY	Not Covered		-								
Lawrence Livermore National Laboratory	89556	125	WEST CAFETERIA	Not Covered		-								
Lawrence Livermore National Laboratory	89878	418	MUSD PAINT SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89973	531	ICS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	209507	6475	HIGH PERFORMANCE	Not Covered		-								
Lawrence Livermore National Laboratory	89908	439	INSTITUTIONAL COMPUTING/ARCHIV	Covered	21,755.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	90044	693	EPD/RHWM WASTE STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89804	335	SUPPORT FACILITY	Not Covered		-								

Strategy

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	89769	312	IMF MANAGED FACILITY		B	11,482	11,482	-		112	NNSA	NNSA	O	N	Operating	9999	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	89793	324	EMERGENCY SERVICES / ALARMS		B	11,290	11,290	-		112	NNSA	NNSA	O	N	Operating		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	140543	262	G.S		B	10,882	10,882	-		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	89803	334	HETB		B	10,668	10,668	-		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	89657	190	CAMS FACILITY		B	10,252	10,252	-		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	89606	165	OPTICS/DEVELOPMENT LAB		B	10,053	10,053	-		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	89898	436	AXION		B	9,745	9,745	-		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 Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89813	345	VACANT		B	9,467	9,467	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89594	154	BIO SECURITY & NANOSCIENCES LAB		B	9,450	9,450	-		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 Pending D&D	9999	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	89862	405	INDUSTRIAL ELECTRONICS		B	8,636	8,636	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89958	515	MUSD / CRAFTS STORAGE		B	8,409	8,409	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90587	871	ADMINISTRATION		B	7,928	7,928	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89888	423	PAT MACHINE SHOP		B	7,791	7,791	-		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	89555	123	AUDITORIUM		B	7,742	7,742	-		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
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 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	90526	805	INERT MACHNG/EXPLVS		B	6,830	6,830	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89959	516	PE/CRAFTS FACILITY/ME		B	6,496	6,496	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89861	404	MUSD / BATTERY SHOP /		B	6,460	6,460	-		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	89599	161	JUPITER LASER SUPPORT		B	6,105	6,105	-		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	89727	256	TELCOM NODE #1		B	5,937	5,937	-		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	89896	433	LABOR ONLY METAL SHOP		B	5,793	5,793	-		112	SC	NNSA	O	N	Operating		Livermore	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	89769	312	IMF MANAGED FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89551	117	COMPUTATION FACILITY BLDG	Covered	12,679.000	-	03/13	03/13	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89793	324	EMERGENCY SERVICES / ALARMS	Not Covered		-								
Lawrence Livermore National Laboratory	89825	364	BIOSCIENCES RESEARCH	Not Covered		-								
Lawrence Livermore National Laboratory	140543	262	G.S	Not Covered		-								
Lawrence Livermore National Laboratory	89666	197	IMF MANAGED LAB FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89803	334	HETB	Covered	5,390.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	132382	694	EPD/RHWM OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89657	190	CAMS FACILITY	Covered	767.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89746	272	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89606	165	OPTICS/DEVELOPMENT LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89965	519	MUSD / HEAVY EQUIPMENT REPAIR	Not Covered		-								
Lawrence Livermore National Laboratory	89898	436	AXION	Not Covered		-								
Lawrence Livermore National Laboratory	89938	492	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89813	345	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89594	154	BIO SECURITY & NANOSCIENCES LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89914	443	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89827	365	G.S/BIO LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89862	405	INDUSTRIAL ELECTRONICS	Not Covered		-								
Lawrence Livermore National Laboratory	89856	392	OPTICS LABORATORY	Covered	5,739.000	-	FY2015	FY2015	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89958	515	MUSD / CRAFTS STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90587	871	ADMINISTRATION	Not Covered		-								
Lawrence Livermore National Laboratory	89888	423	PAT MACHINE SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89550	116	G.S	Not Covered		-								
Lawrence Livermore National Laboratory	89555	123	AUDITORIUM	Not Covered		-								
Lawrence Livermore National Laboratory	205437	321B	MATERIALS FAB SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	90017	612	EPD/RHWM WASTE TSDF	Not Covered		-								
Lawrence Livermore Lab Site 300	137313	890	SITE 300 FIRE STATION	Not Covered		-								
Lawrence Livermore Lab Site 300	90526	805	INERT MACHNG/EXPLVS	Not Covered		-								
Lawrence Livermore National Laboratory	89849	383	MACHINE SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89959	516	PE/CRAFTS FACILITY/ME	Not Covered		-								
Lawrence Livermore National Laboratory	89861	404	MUSD / BATTERY SHOP /	Not Covered		-								
Lawrence Livermore National Laboratory	89777	318	POOL CHANGE ROOM	Not Covered		-								
Lawrence Livermore National Laboratory	89599	161	JUPITER LASER SUPPORT	Not Covered		-								
Lawrence Livermore National Laboratory	89960	517	ELECT UTILITY OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89727	256	TELCOM NODE #1	Covered	4,091.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89952	512	MUSD / CRAFTS SUPPLIES	Not Covered		-								
Lawrence Livermore National Laboratory	89896	433	LABOR ONLY METAL SHOP	Not Covered		-								

Strategy

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	89788	322	PLATING SHOP		B	5,704	5,704	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	205760	9998	THE AMERICAN RED CROSS	F - Lease some energy provided	B	5,682	-	5,682	Partialy leased facility should be excluded because the costs of the electrcity is shared by all tenants. The leased portion is not metered separately and the energy costs are included in the price of the lease.	112	NNSA	NNSA	C	N	Operating		Rockville	MD
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	89752	280	VACANT		B	5,341	5,341	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	208115	9997	L Enfant Plaza		B	5,274	5,274	-		112	NNSA	NNSA	C	N	Operating		Washington D C	DC
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	89800	329	LASER WELD SHOP		B	5,150	5,150	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89918	445	VACANT		B	5,100	5,100	-		112	NNSA	NNSA	O	N	Operational Standby	9999	Livermore	CA
Lawrence Livermore Lab Site 300	90571	850	VACANT		B	5,095	5,095	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore National Laboratory	89701	233	MATERIALS MANAGEMENT		B	4,933	4,933	-		112	NNSA	NNSA	O	N	Operating		Livermore	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 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	89674	214	VACANT		B	4,837	4,837	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	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	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	90550	827A	CHEMISTRY BLDG		B	4,539	4,539	-		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	90554	827E	CHEM PROCESS FACILITY		B	4,407	4,407	-		112	NNSA	NNSA	O	N	Operating		Tracy	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 Lab Site 300	90584	867	BUNKER SUPPORT FACILITY		B	4,342	4,342	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	90020	612A	EPD/RHWM WASTE TSDF		B	4,283	4,283	-		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	89544	71	WESTGATE BADGE OFFICE		B	4,166	4,166	-		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	133963	806B	HE MACHINING		B	4,088	4,088	-		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 National Laboratory	89636	176	PAT SHOP		B	3,973	3,973	-		112	NNSA	NNSA	O	N	Operating		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	89671	212	VACANT		B	3,770	3,770	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	208114	003A	S Program		B	3,750	3,750	-		112	NNSA	NNSA	C	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	89794	326	VACANT		B	3,516	3,516	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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
Lawrence Livermore Lab Site 300	134011	836D	DYNAMIC TEST FACILITY		B	3,427	3,427	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	89788	322	PLATING SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	205760	9998	THE AMERICAN RED CROSS	Not Covered		-								
Lawrence Livermore National Laboratory	89563	133	CENTRAL PLANT/DPRF/NTTC	Covered	47,723.000	-	FY2014	FY2014	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89752	280	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	208115	9997	L Enfant Plaza	Not Covered		-								
Lawrence Livermore National Laboratory	125924	234	MATERIALS MGMT OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89800	329	LASER WELD SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89918	445	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90571	850	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89701	233	MATERIALS MANAGEMENT	Not Covered		-								
Lawrence Livermore Lab Site 300	90598	882	PFD COMM CENTER	Not Covered		-								
Lawrence Livermore National Laboratory	90030	625	EPD/RHWM WASTE TSDF	Not Covered		-								
Lawrence Livermore National Laboratory	89674	214	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	133961	801D	ADMINISTRATION	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	90550	827A	CHEMISTRY BLDG	Not Covered		-								
Lawrence Livermore Lab Site 300	134007	836B	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90554	827E	CHEM PROCESS FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89770	313	REGIONAL DISPATCH CENTER	Not Covered		-								
Lawrence Livermore Lab Site 300	90584	867	BUNKER SUPPORT FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	143692	610	TRUCK INSPECTION STATION	Not Covered		-								
Lawrence Livermore National Laboratory	90020	612A	EPD/RHWM WASTE TSDF	Not Covered		-								
Lawrence Livermore National Laboratory	89913	442	ERD / D&D OPERATIONS	Not Covered		-								
Lawrence Livermore National Laboratory	89544	71	WESTGATE BADGE OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	135832	697	EPD/RHWM WRHS-CHEM EXCHG	Not Covered		-								
Lawrence Livermore Lab Site 300	133963	806B	HE MACHINING	Not Covered		-								
Lawrence Livermore Lab Site 300	90586	870	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89636	176	PAT SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89845	378	LAB SPACE	Not Covered		-								
Lawrence Livermore National Laboratory	89671	212	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89822	362	BIOSCIENCES RESEARCH	Not Covered		-								
Lawrence Livermore National Laboratory	208114	003A	S Program	Not Covered		-								
Lawrence Livermore National Laboratory	90022	615	DUS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89794	326	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89971	523	LABOR ONLY / WELD / CARPTRY WK	Not Covered		-								
Lawrence Livermore Lab Site 300	134011	836D	DYNAMIC TEST FACILITY	Not Covered		-								

Strategy

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	90527	806A	HE MACHINING		B	3,417	3,417	-		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	90593	877	COMPUTER TECHL SUPPORT		B	3,352	3,352	-		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 Pending D&D	9999	Tracy	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	205181	8	LLNS OFF-SITE OFFICE		B	3,156	3,156	-		112	NNSA	NNSA	C	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 Lab Site 300	134010	836C	VACANT		B	2,900	2,900	-		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	90537	813	CHANGE HOUSE		B	2,870	2,870	-		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 Pending D&D		Tracy	CA
Lawrence Livermore National Laboratory	89638	179	PAT		B	2,720	2,720	-		112		NNSA	O	N	Operating		Livermore	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	90534	812A	VACANT		B	2,656	2,656	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	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	139832	321E	MMED BOILER ROOM		B	2,581	2,581	-		112	NNSA	NNSA	O	N	Operating		Livermore	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 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	89957	514A	VACANT		B	2,473	2,473	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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	90592	876	STORES & RECLAMATION		B	2,400	2,400	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	90023	616	DONATION UTIL&SALES		B	2,273	2,273	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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 National Laboratory	89758	282	PAT		B	2,160	2,160	-		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	90027	619	DONATION UTIL&SALES		B	2,038	2,038	-		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 Pending D&D	9999	Livermore	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	90588	872	PE/PAINT SHOP		B	1,887	1,887	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
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	90567	841	PE/STORAGE - C&M SHOPS		B	1,786	1,786	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89684	221	VACANT		B	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore Lab Site 300	90557	830	VACANT		B	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Tracy	CA
Lawrence Livermore National Laboratory	89919	446	VACANT		B	1,743	1,743	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	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	90560	834A	THERMAL TEST FACILITY		B	1,694	1,694	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore Lab Site 300	90527	806A	HE MACHINING	Not Covered		-								
Lawrence Livermore Lab Site 300	90532	810A	HE ASSEMBLY	Not Covered		-								
Lawrence Livermore Lab Site 300	90593	877	COMPUTER TECHL SUPPORT	Not Covered		-								
Lawrence Livermore Lab Site 300	90523	802A	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89992	591	NIF STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	205181	8	LLNS OFF-SITE OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	140857	582	SERVICE BUILDING	Not Covered		-								
Lawrence Livermore Lab Site 300	134010	836C	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90595	879	MOTOR POOL & GARAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90537	813	CHANGE HOUSE	Not Covered		-								
Lawrence Livermore Lab Site 300	90596	880	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89638	179	PAT	Not Covered		-								
Lawrence Livermore Lab Site 300	137312	889	SITE 300 MEDICAL FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	90534	812A	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89828	366	BIOSCIENCES RESEARCH	Not Covered		-								
Lawrence Livermore National Laboratory	139832	321E	MMED BOILER ROOM	Not Covered		-								
Lawrence Livermore Lab Site 300	90530	809A	HE PRESSING	Not Covered		-								
Lawrence Livermore National Laboratory	89724	254	HC BIO ASSAY LAB	Not Covered		-								
Lawrence Livermore National Laboratory	89957	514A	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90574	854A	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90592	876	STORES & RECLAMATION	Not Covered		-								
Lawrence Livermore National Laboratory	90035	651	VISITOR CENTER	Not Covered		-								
Lawrence Livermore National Laboratory	90023	616	DONATION UTIL&SALES	Not Covered		-								
Lawrence Livermore Lab Site 300	90563	836A	DYNAMIC TEST FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89758	282	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89787	321D	EE FABRICATION	Not Covered		-								
Lawrence Livermore National Laboratory	90027	619	DONATION UTIL&SALES	Not Covered		-								
Lawrence Livermore National Laboratory	89641	182	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90559	833	EPD/ERD SERVICE-R&D	Not Covered		-								
Lawrence Livermore Lab Site 300	90588	872	PE/PAINT SHOP	Not Covered		-								
Lawrence Livermore Lab Site 300	133990	823B	LINAC RADIOGRAPHY	Not Covered		-								
Lawrence Livermore Lab Site 300	90567	841	PE/STORAGE - C&M SHOPS	Not Covered		-								
Lawrence Livermore National Laboratory	89839	373	BIO WAREHOUSE	Not Covered		-								
Lawrence Livermore National Laboratory	89684	221	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90557	830	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89919	446	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90524	803	EPD/ORAD STRG WRHS	Not Covered		-								
Lawrence Livermore Lab Site 300	90560	834A	THERMAL TEST FACILITY	Not Covered		-								

Strategy

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	133998	834D	VACANT		B	1,694	1,694	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	90576	856	VACANT		B	1,613	1,613	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Tracy	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	89824	363	VACANT		B	1,584	1,584	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore Lab Site 300	133996	832E	MM OFFICE/SHIP&RECEI		B	1,581	1,581	-		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 National Laboratory	89841	376	VACANT		B	1,575	1,575	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	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	89846	379	LAB SPACE		B	1,500	1,500	-		112	SC	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90579	859	STORAGE		B	1,500	1,500	-		112	NNSA	NNSA	O	N	Operating		Tracy	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 Lab Site 300	90548	825	CHEM PROCESS FACILITY		B	1,370	1,370	-		112	NNSA	NNSA	O	N	Operating		Tracy	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 Lab Site 300	134160	812E	LABORATORY		B	1,310	1,310	-		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 Pending D&D		Tracy	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 Lab Site 300	134005	834L	VACANT		B	1,281	1,281	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	131384	816	EXPLSE WASTE STRG FAC		B	1,223	1,223	-		112	NNSA	NNSA	O	N	Operating		Tracy	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 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	90546	823A	LINAC RADIOGRAPHY		B	1,089	1,089	-		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 Pending D&D	9999	Tracy	CA
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	140321	622	F&I CORP. YARD		B	1,033	1,033	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	134000	834E	VACANT		B	998	998	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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 National Laboratory	89765	297	PAPER DISPOSAL		B	992	992	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	134014	851B	MACHINE SHOP		B	985	985	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89668	198	MACHINE SHOP		B	966	966	-		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 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	133988	817H	HE PRESSING INERT STORAGE		B	890	890	-		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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore Lab Site 300	133998	834D	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90549	826	CHEM PROCESS FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	90576	856	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	202152	368	G.S/BSL-3 LABORATORY	Not Covered		-								
Lawrence Livermore National Laboratory	89824	363	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	133996	832E	MM OFFICE/SHIP&RECEI	Not Covered		-								
Lawrence Livermore Lab Site 300	90528	807	HE MACHINING	Not Covered		-								
Lawrence Livermore National Laboratory	89841	376	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89552	118	TELECONFERENCE FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89846	379	LAB SPACE	Not Covered		-								
Lawrence Livermore Lab Site 300	90579	859	STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89775	317	NETWORKING GROUP FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	90548	825	CHEM PROCESS FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	125728	135	G.S/STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	134160	812E	LABORATORY	Not Covered		-								
Lawrence Livermore Lab Site 300	90570	848	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	125727	134	G.S/STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	134005	834L	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90541	818A	HE STORAGE FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	131384	816	EXPLSE WASTE STRG FAC	Not Covered		-								
Lawrence Livermore National Laboratory	90021	614	EPD/RHWM WASTE TSDF	Not Covered		-								
Lawrence Livermore Lab Site 300	90562	835	EPD/ERD STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90546	823A	LINAC RADIOGRAPHY	Not Covered		-								
Lawrence Livermore Lab Site 300	90533	811	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89972	525	LABOR ONLY ELECT	Not Covered		-								
Lawrence Livermore National Laboratory	140321	622	F&I CORP. YARD	Not Covered		-								
Lawrence Livermore Lab Site 300	90564	837	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	134000	834E	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	134003	834H	THERMAL TEST FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89765	297	PAPER DISPOSAL	Not Covered		-								
Lawrence Livermore Lab Site 300	134014	851B	MACHINE SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89764	294	CAMS LAB FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89668	198	MACHINE SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89554	122	PROTOCOL OFFICE	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	133988	817H	HE PRESSING INERT STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90551	827B	SERVICE SHOP	Not Covered		-								

Strategy

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	90600	892	CENTRAL CONTROL POST		B	866	866	-		112	NNSA	NNSA	O	N	Operating		Tracy	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 Lab Site 300	90543	819	PE/STORAGE-C&M SHOPS		B	828	828	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89915	444	VACANT		B	805	805	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	128200	170A	VACANT		B	800	800	-		112	NNSA	NNSA	O	N	Operating		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	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 Lab Site 300	133958	801B	TECHNICAL MAINTENANCE		B	790	790	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89590	152	GENERATOR HOUSE		B	751	751	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	133997	834B	VACANT		B	751	751	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore Lab Site 300	130265	834C	VACANT		B	751	751	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore Lab Site 300	138147	899B	PISTOL RANGE TRNING/OFFICE		B	688	688	-		112	NNSA	NNSA	O	N	Operating		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	134701	851C	FABRICATION SHOP		B	652	652	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
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	134001	834F	VACANT		B	649	649	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	133981	817B	HE PRESSING CELL		B	639	639	-		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 National Laboratory	89829	367	VACANT		B	629	629	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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	134047	855C	HE MACHINING		B	612	612	-		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	133989	818C	HE STORAGE FACILITY		B	578	578	-		112	NNSA	NNSA	O	N	Operating		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	130266	834K	PUMP STATION		B	545	545	-		112	NNSA	NNSA	O	N	Operating		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	134002	834G	VACANT		B	527	527	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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 National Laboratory	89968	522	LABOR ONLY RESTROOM		B	516	516	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	134004	834J	VACANT		B	511	511	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore National Laboratory	90062	452	COMPUTATION FACILITY BLDG.		B	492	492	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	90568	843A	EPD/ERD CORP YARD		B	486	486	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89963	517A	MUSD / CUSTODIAN LAUNDRY RM		B	462	462	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	90539	817A	HE PRESSING CONTROL ROOM		B	417	417	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore Lab Site 300	90600	892	CENTRAL CONTROL POST	Not Covered		-								
Lawrence Livermore National Laboratory	89665	196	EPD/ORAD SRVC-MNTRNG STAT	Not Covered		-								
Lawrence Livermore Lab Site 300	90543	819	PE/STORAGE-C&M SHOPS	Not Covered		-								
Lawrence Livermore National Laboratory	89915	444	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	128200	170A	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89763	293	CAMS LAB 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 Lab Site 300	133958	801B	TECHNICAL MAINTENANCE	Not Covered		-								
Lawrence Livermore National Laboratory	89590	152	GENERATOR HOUSE	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	138147	899B	PISTOL RANGE TRNING/OFFICE	Not Covered		-								
Lawrence Livermore Lab Site 300	90575	855A	HE MACHINING	Not Covered		-								
Lawrence Livermore Lab Site 300	134701	851C	FABRICATION SHOP	Not Covered		-								
Lawrence Livermore Lab Site 300	90545	821	CHEMISTRY STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	134001	834F	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	130264	806C	MACHINING STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	133981	817B	HE PRESSING CELL	Not Covered		-								
Lawrence Livermore Lab Site 300	134046	855B	HE MACHINING	Not Covered		-								
Lawrence Livermore National Laboratory	89829	367	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	143694	809B	MECHANICAL SUPPORT	Not Covered		-								
Lawrence Livermore Lab Site 300	134047	855C	HE MACHINING	Not Covered		-								
Lawrence Livermore Lab Site 300	139520	809C	HE OVEN FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	133989	818C	HE STORAGE FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	138146	899A	GUN SHOP	Not Covered		-								
Lawrence Livermore Lab Site 300	130266	834K	PUMP STATION	Not Covered		-								
Lawrence Livermore Lab Site 300	90558	832A	STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	134002	834G	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	133986	817F	HE PRESSING OVENS	Not Covered		-								
Lawrence Livermore National Laboratory	89968	522	LABOR ONLY RESTROOM	Not Covered		-								
Lawrence Livermore Lab Site 300	134004	834J	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	90062	452	COMPUTATION FACILITY BLDG.	Not Covered		-								
Lawrence Livermore Lab Site 300	90594	878	PE/MAINT SHOP STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90568	843A	EPD/ERD CORP YARD	Not Covered		-								
Lawrence Livermore National Laboratory	89963	517A	MUSD / CUSTODIAN LAUNDRY RM	Not Covered		-								
Lawrence Livermore Lab Site 300	90569	845A	EXPL WASTE TREATMNT FAC	Not Covered		-								
Lawrence Livermore Lab Site 300	90539	817A	HE PRESSING CONTROL ROOM	Not Covered		-								

Strategy

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	89626	173	PAT WELD SHOP		B	413	413	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	131922	843B	EPD/ERD STORAGE		B	402	402	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	89966	520	MUSD / PESTICIDE STORAGE		B	400	400	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	139177	895	EPD/ORAD OFFICE		B	380	380	-		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 National Laboratory	89863	406	VACANT		B	345	345	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89791	322A	PLATING SHOP ANNEX		B	340	340	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	134157	812D	VACANT		B	325	325	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	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	89766	297A	MUSD CLASS DOC DESTRUCTION		B	320	320	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	90580	860	STORAGE		B	298	298	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89848	382	TECH SUPPORT		B	292	292	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	133564	845B	EWTF		B	290	290	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	140859	684	CHEMICAL STORAGE		B	278	278	-		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 Lab Site 300	133992	828C	HE MACHINING-INACTIVE		B	258	258	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	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	90029	624	EPD/RHWM OFFICE		B	240	240	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89663	194A	VACANT		B	240	240	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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	90555	828A	OFFICE		B	212	212	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	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	89605	164	MACHINE SHOP		B	207	207	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	133984	817D	HE PRESSING STORAGE		B	207	207	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89931	473	VACANT		B	205	205	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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 Lab Site 300	133991	828B	HE MACHINING-INACTIVE		B	199	199	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore National Laboratory	89716	252	HC/SHIPNG/RECEIVNG SHED		B	192	192	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	133985	817E	HE PRESSING-INACTIVE		B	186	186	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89546	110	STORAGE		B	153	153	-		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	89946	510	MUSD / FACS / UPS BATTERY BANK		B	144	144	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	129496	196A	EPD/ORAD STORAGE		B	112	112	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	90525	804	STAGING AREA		B	107	107	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	89626	173	PAT WELD SHOP	Not Covered		-								
Lawrence Livermore Lab Site 300	131922	843B	EPD/ERD STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89664	195	EPD/ORAD SHOP	Not Covered		-								
Lawrence Livermore National Laboratory	89966	520	MUSD / PESTICIDE STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	139177	895	EPD/ORAD OFFICE	Not Covered		-								
Lawrence Livermore Lab Site 300	90585	869	PE/MAINT SHOP STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89863	406	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89791	322A	PLATING SHOP ANNEX	Not Covered		-								
Lawrence Livermore Lab Site 300	133994	832C	STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	134157	812D	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89975	533	EPD/DO STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89766	297A	MUSD CLASS DOC DESTRUCTION	Not Covered		-								
Lawrence Livermore Lab Site 300	90547	824	HE STORAGE FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	90580	860	STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89848	382	TECH SUPPORT	Not Covered		-								
Lawrence Livermore Lab Site 300	133564	845B	EWTF	Not Covered		-								
Lawrence Livermore National Laboratory	140859	684	CHEMICAL STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	90003	597	ERD CORP YARD	Not Covered		-								
Lawrence Livermore Lab Site 300	133992	828C	HE MACHINING-INACTIVE	Not Covered		-								
Lawrence Livermore National Laboratory	89945	509	MUSD SHEET MTL SHOP STO	Not Covered		-								
Lawrence Livermore National Laboratory	90029	624	EPD/RHWM OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89663	194A	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	133987	817G	HE PRESSING BOILERS	Not Covered		-								
Lawrence Livermore Lab Site 300	90555	828A	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	90036	652	PUBLIC AFFAIRS STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89605	164	MACHINE SHOP	Not Covered		-								
Lawrence Livermore Lab Site 300	133984	817D	HE PRESSING STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89931	473	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	204000	012D	EAST AVENUE SECURITY STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	133991	828B	HE MACHINING-INACTIVE	Not Covered		-								
Lawrence Livermore National Laboratory	89716	252	HC/SHIPNG/RECEIVNG SHED	Not Covered		-								
Lawrence Livermore Lab Site 300	133967	806D	MACHINING STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	133985	817E	HE PRESSING-INACTIVE	Not Covered		-								
Lawrence Livermore National Laboratory	89546	110	STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	134179	193A	EPD/ORAD SRVC-MNTRNG STAT	Not Covered		-								
Lawrence Livermore National Laboratory	89946	510	MUSD / FACS / UPS BATTERY BANK	Not Covered		-								
Lawrence Livermore National Laboratory	129496	196A	EPD/ORAD STORAGE	Not Covered		-								
Lawrence Livermore Lab Site 300	90525	804	STAGING AREA	Not Covered		-								

Strategy

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	138782	312A	VACANT		B	107	107	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	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	90072	263	VACANT		B	51	51	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89495	002LS	LANDSCAPING		S		-	-		112	NNSA	NNSA	O		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		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
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 &		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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	138782	312A	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	136921	597A	ERD RESTRM & SHWR FAC	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	90072	263	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89495	002LS	LANDSCAPING	Not Covered		-								
Lawrence Livermore National Laboratory	89503	021CA	CMPRSSED AIR SYS COMPRESSOR CTRL	Not Covered		-								
Lawrence Livermore National Laboratory	89504	022CA	CMPRSSED AIR SYS COMPRESSOR CTRL	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		-								
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 &	Not Covered		-								
Lawrence Livermore National Laboratory	89540	02TS	TRUCK SCALE	Not Covered		-								
Lawrence Livermore National Laboratory	89541	02WRS	WASTE RETENTION SYSTEM	Not Covered		-								

Strategy

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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 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	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

Strategy

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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	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		-								

Strategy

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Lawrence Livermore National Laboratory	130225	OS122W	SECURITY KIOSK		S		60	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130204	OS169WAA	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		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	OS321WAA	BUILDING 321 WAA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130209	OS332WAA	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	OS361WAA	BIO WST ACCUMLTN AREA		S		-	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	136774	OS415W	SECURITY KIOSK		S		154	-		112	NNSA	NNSA	O		Operating		Livermore	CA
Lawrence Livermore National Laboratory	130211	OS418WAA	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
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	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	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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	130225	OS122W	SECURITY KIOSK	Not Covered		-								
Lawrence Livermore National Laboratory	130204	OS169WAA	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	OS321WAA	BUILDING 321 WAA	Not Covered		-								
Lawrence Livermore National Laboratory	130209	OS332WAA	BUILDING 332 WAA	Not Covered		-								
Lawrence Livermore National Laboratory	90059	OS338	GUARD TOWER	Not Covered		-								
Lawrence Livermore National Laboratory	130210	OS361WAA	BIO WST ACCUMLTN AREA	Not Covered		-								
Lawrence Livermore National Laboratory	136774	OS415W	SECURITY KIOSK	Not Covered		-								
Lawrence Livermore National Laboratory	130211	OS418WAA	BUILDING 418 WAA	Not Covered		-								
Lawrence Livermore National Laboratory	200870	OS454	TSF COOLING TOWERS	Covered	30,724.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
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		-								
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	203715	OS812P	MITIGATION POND	Not Covered		-								
Lawrence Livermore Lab Site 300	135317	OS845C	EWTF BURN PAD	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		-								

Strategy

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	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		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		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		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		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
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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
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	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	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	Not Covered		-								
Lawrence Livermore Lab Site 300	132167	OSM41	MAGAZINE-STORAGE VAULT	Not Covered		-								
Lawrence Livermore Lab Site 300	131782	OSM5	HE WASTE STORAGE	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		-								
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		-								

Strategy

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	136585	OSM857	MAGAZINE STORAGE VAULT		S		457	-		112	NNSA	NNSA	O		Operating		Tracy	CA
Lawrence Livermore Lab Site 300	135970	OSV822AD	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	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	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
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

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
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	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	131775	U328C	PE/LCW CONTROL BLDG	Covered	3,310.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
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	4,707.000	-	FY2015	FY2015	Desk Audit	No	Completed	Portfolio Manager		
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		-								
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		-								

Strategy

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	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
Lawrence Livermore National Laboratory	90061	OS394	VACANT		S		144	-		112	NNSA	NNSA	O		Shutdown Pending D&D		Livermore	CA
Lawrence Livermore Lab Site 300	134294	OS858B	DROP TOWER - VACANT		S		-	-		112	NNSA	NNSA	O		Shutdown Pending D&D		Tracy	CA
Lawrence Livermore Lab Site 300	90535	OS812B	VACANT		S		995	-		112	NNSA	NNSA	O		Shutdown Pending D&D		Tracy	CA
Lawrence Livermore Lab Site 300	90536	OS812C	VACANT		S		1,007	-		112	NNSA	NNSA	O		Shutdown Pending D&D		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 National Laboratory	90078	U325	LCW CONTROL		S		5,072	-		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	89979	5475	ICS DEPT OFFICE		T	32,368	32,368	-		112	NNSA	NNSA	O	N	Operating		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	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	89834	3724	COMPUTATION FACILITY BLDG		T	19,810	19,810	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89656	1889	INSTITUTIONALY MANAGED MULTI-		T	17,380	17,380	-		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 Pending D&D		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	89925	4675	EMPLOYEE RESOURCES		T	11,287	11,287	-		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	89930	4729	O&B TID LIBRARY		T	10,018	10,018	-		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	89748	2775	SECURITY		T	9,831	9,831	-		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	89926	4725	VACANT		T	9,389	9,389	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
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	89984	5627	LEGAL SERVICES		T	8,470	8,470	-		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	89980	5477	IMF MANAGED OFFICE FACILITY		T	6,693	6,693	-		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	89647	1878	VACANT		T	6,292	6,292	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
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	89759	2825	OFFICE		T	5,922	5,922	-		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	89923	4525	COMPUTATION FACILITY BLDG		T	5,713	5,713	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89611	1680	VACANT		T	5,697	5,697	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89559	1280	VACANT		T	5,644	5,644	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89739	2684	VACANT		T	5,284	5,284	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
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		-								
Lawrence Livermore National Laboratory	90061	OS394	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	134294	OS858B	DROP TOWER - VACANT	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	90578	OS858	DROP TOWER COMPLEX STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	90078	U325	LCW CONTROL	Covered	57,127.000	-	04/12	04/12	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	90074	U291	LCW STATION	Covered	32,672.000	-	10/11	10/11	Walk-Through	No	Completed	Portfolio Manager		
Lawrence Livermore National Laboratory	89979	5475	ICS DEPT OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89608	1677	IMF MANAGED OFFICE FACILITY	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	89834	3724	COMPUTATION FACILITY BLDG	Not Covered		-								
Lawrence Livermore National Laboratory	89656	1889	INSTITUTIONALY MANAGED MULTI-	Not Covered		-								
Lawrence Livermore National Laboratory	89738	2679	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89655	1888	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89925	4675	EMPLOYEE RESOURCES	Not Covered		-								
Lawrence Livermore National Laboratory	89648	1879	LABORATORY TRAINING CNTR	Not Covered		-								
Lawrence Livermore National Laboratory	89930	4729	O&B TID LIBRARY	Not Covered		-								
Lawrence Livermore National Laboratory	89928	4727	O&B TID LIBRARY	Not Covered		-								
Lawrence Livermore National Laboratory	89748	2775	SECURITY	Not Covered		-								
Lawrence Livermore National Laboratory	89817	3527	DOE OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89926	4725	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89927	4726	S&T / COMP	Not Covered		-								
Lawrence Livermore National Laboratory	89984	5627	LEGAL SERVICES	Not Covered		-								
Lawrence Livermore National Laboratory	89929	4728	COMPUTATIONS	Not Covered		-								
Lawrence Livermore National Laboratory	89980	5477	IMF MANAGED OFFICE FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89810	3427	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89647	1878	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	201480	6930	NIF OFFICE TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89759	2825	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	90043	6925	OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89923	4525	COMPUTATION FACILITY BLDG	Not Covered		-								
Lawrence Livermore National Laboratory	89611	1680	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89633	1739	JUPITER OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89559	1280	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89739	2684	VACANT	Not Covered		-								

Strategy

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	89976	5425	VACANT		T	5,260	5,260	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89900	4378	ERD OFFICES		T	5,180	5,180	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89977	5426	VACANT		T	5,180	5,180	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89654	1887	VACANT		T	5,108	5,108	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89890	4302	ERD OFFICES		T	5,022	5,022	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89902	4383	VACANT		T	4,988	4,988	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	201479	6929	NIF OFFICE TRAILER		T	4,925	4,925	-		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 Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89762	2925	VACANT		T	4,917	4,917	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89826	3649	BIOSCIENCES RESEARCH		T	4,800	4,800	-		112	SC	NNSA	O	N	Shutdown Pending D&D		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	89630	1736	SECURITY TRAINING		T	4,526	4,526	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89778	3180	VACANT		T	4,371	4,371	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	89740	2685	VACANT		T	4,320	4,320	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	90032	6325	VACANT		T	4,320	4,320	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89604	1632	VACANT		T	4,290	4,290	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	89652	1885	VACANT		T	4,266	4,266	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89728	2580	SECURE COMMUNICATION		T	4,203	4,203	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89920	4475	VACANT		T	4,176	4,176	-		112	SC	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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	90025	6179	EPD/RHWM OFFICE		T	3,904	3,904	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89904	4385	VACANT		T	3,744	3,744	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89906	4387	VACANT		T	3,658	3,658	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89653	1886	ICS RECEIVING / STORAGE		T	3,643	3,643	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89588	4382	VACANT		T	3,600	3,600	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89642	1826	VACANT		T	3,590	3,590	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89609	1678	VACANT		T	3,550	3,550	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89789	3226	VACANT		T	3,077	3,077	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89953	5125	LABOR ONLY CONSTRUCTION		T	2,912	2,912	-		112	NNSA	NNSA	O	N	Operating	9999	Livermore	CA
Lawrence Livermore National Laboratory	89651	1884	VACANT		T	2,880	2,880	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	89970	5226	VACANT		T	2,548	2,548	-		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	89597	1601	VACANT		T	2,228	2,228	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	89976	5425	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89900	4378	ERD OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89977	5426	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89654	1887	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89650	2727	LOCKS AND KEYS	Not Covered		-								
Lawrence Livermore National Laboratory	89890	4302	ERD OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89902	4383	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	201479	6929	NIF OFFICE TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89899	4377	ERD OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89762	2925	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89826	3649	BIOSCIENCES RESEARCH	Not Covered		-								
Lawrence Livermore National Laboratory	89820	3577	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89630	1736	SECURITY TRAINING	Not Covered		-								
Lawrence Livermore National Laboratory	89778	3180	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89983	5626	AUDIT & OVERSIGHT	Not Covered		-								
Lawrence Livermore National Laboratory	89740	2685	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	90032	6325	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89604	1632	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	141330	5675	STAFF RELATIONS	Not Covered		-								
Lawrence Livermore National Laboratory	89652	1885	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89728	2580	SECURE COMMUNICATION	Not Covered		-								
Lawrence Livermore National Laboratory	89920	4475	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89558	1277	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	90025	6179	EPD/RHWM OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89904	4385	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89906	4387	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89653	1886	ICS RECEIVING / STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89588	4382	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89642	1826	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89609	1678	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89629	1735	JUPITER MAIN OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89789	3226	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89953	5125	LABOR ONLY CONSTRUCTION	Not Covered		-								
Lawrence Livermore National Laboratory	89651	1884	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	90038	6526	PUBLIC AFFAIRS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89970	5226	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89659	1925	PAT	Not Covered		-								
Lawrence Livermore National Laboratory	89597	1601	VACANT	Not Covered		-								

Strategy

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	89735	2632	SECURITY		T	2,202	2,202	-		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	89624	1726	JUPITER SUPPORT		T	2,160	2,160	-		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	140533	3340	OFFICES		T	2,160	2,160	-		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	89598	1602	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89661	1927	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89717	2525	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89840	3751	VACANT		T	2,160	2,160	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89996	2728	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89753	2801	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89754	2802	VACANT		T	2,130	2,130	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	89627	1730	JUPITER VISITORS		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90046	2552	VACANT		T	2,100	2,100	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89741	2687	VACANT		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89994	6426	VACANT		T	2,100	2,100	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89969	5225	LABOR ONLY CONSTRUCTION		T	1,952	1,952	-		112	NNSA	NNSA	O	N	Operating	9999	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	89631	6928	OFFICES		T	1,912	1,912	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89790	2627	VACANT		T	1,867	1,867	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	128145	2180	VACANT		T	1,764	1,764	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89941	4926	VACANT		T	1,638	1,638	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89903	4384	VACANT		T	1,577	1,577	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	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	89911	4406	VACANT		T	1,560	1,560	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89603	1631	OFFICE		T	1,490	1,490	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	90045	6951	EPD/RHWM SERVICE BUILDING		T	1,440	1,440	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89843	3775	VACANT		T	1,440	1,440	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	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	208280	6931	NIF CONSTRUCTION BREAKROOM		T	1,405	1,405	-		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	89857	3925	REDWOOD RM.-CONF./CLASSROOM		T	1,081	1,081	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	90024	6178	EPD/RHWM OFF/CHANGE		T	1,040	1,040	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	89735	2632	SECURITY	Not Covered		-								
Lawrence Livermore National Laboratory	89816	3526	HUMAN RELIABILITY PROGRAM	Not Covered		-								
Lawrence Livermore National Laboratory	89624	1726	JUPITER SUPPORT	Not Covered		-								
Lawrence Livermore National Laboratory	89751	2787	SECURITY FITNESS FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	140533	3340	OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89781	6926	OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89598	1602	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89661	1927	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89717	2525	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89840	3751	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89996	2728	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89753	2801	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89754	2802	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89667	6527	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89627	1730	JUPITER VISITORS	Not Covered		-								
Lawrence Livermore National Laboratory	90046	2552	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89741	2687	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89994	6426	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89628	2726	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89969	5225	LABOR ONLY CONSTRUCTION	Not Covered		-								
Lawrence Livermore National Laboratory	89860	3982	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89631	6928	OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89790	2627	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89625	1727	JUPITER TECH SUPPORT	Not Covered		-								
Lawrence Livermore National Laboratory	128145	2180	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89941	4926	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89903	4384	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	90019	6127	EPD/RHWM OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89911	4406	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89603	1631	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	90039	6575	PUBLIC AFFAIRS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	90045	6951	EPD/RHWM SERVICE BUILDING	Not Covered		-								
Lawrence Livermore National Laboratory	89843	3775	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89730	6870	OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	208280	6931	NIF CONSTRUCTION BREAKROOM	Not Covered		-								
Lawrence Livermore National Laboratory	89750	2777	SECURITY ARMORY	Not Covered		-								
Lawrence Livermore National Laboratory	89857	3925	REDWOOD RM.-CONF./CLASSROOM	Not Covered		-								
Lawrence Livermore National Laboratory	90024	6178	EPD/RHWM OFF/CHANGE	Not Covered		-								

Strategy

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	90037	6525	VISITORS CTR AUDITRM		T	971	971	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	132065	8826	SECURITY FITNESS		T	943	943	-		112	NNSA	NNSA	O	N	Operating		Tracy	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	137861	7990	DINE COLLEGE OFFICES		T	880	880	-		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	143464	6989	TOILET TRAILER		T	756	756	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89726	2554	VACANT		T	740	740	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	89743	2701	SECURITY SHOWER TRAILER		T	720	720	-		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	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 Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	143340	4924	VACANT		T	638	638	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	533	6901	TOILET TRAILER		T	520	520	-		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 Lab Site 300	90597	8806	VACANT		T	509	509	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Tracy	CA
Lawrence Livermore National Laboratory	133598	3555	HUMAN RELIABILITY PROGRAM		T	508	508	-		112	NNSA	NNSA	O	N	Operating		Livermore	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	135819	1802	TOILET TRAILER		T	411	411	-		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	138127	519A	HEAVY EQUIPMENT STORAGE		T	401	401	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore National Laboratory	89865	6424	VACANT		T	390	390	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89867	4107	VACANT		T	388	388	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	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	132064	8825	SHOWER FACILITY		T	370	370	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA
Lawrence Livermore National Laboratory	89715	2512	VACANT		T	360	360	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89991	1713	TOILET TRAILER		T	335	335	-		112	NNSA	NNSA	O	N	Operating		Livermore	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 National Laboratory	89935	4905	VACANT		T	322	322	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89936	4906	VACANT		T	322	322	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89907	4388	VACANT		T	320	320	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	Livermore	CA
Lawrence Livermore National Laboratory	89967	5207	MUSD / AC STORAGE		T	320	320	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Livermore	CA
Lawrence Livermore National Laboratory	89892	4316	VACANT		T	299	299	-		112	EM	NNSA	O	N	Shutdown Pending D&D	9999	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	90601	8990	B899 A&B WASH UP FACILITY		T	281	281	-		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 Pending D&D		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore National Laboratory	90037	6525	VISITORS CTR AUDITRM	Not Covered		-								
Lawrence Livermore Lab Site 300	128006	8726	EPD/ERD OFFICE	Not Covered		-								
Lawrence Livermore Lab Site 300	132065	8826	SECURITY FITNESS	Not Covered		-								
Lawrence Livermore National Laboratory	90034	6501	PUBLIC AFFAIRS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	137861	7990	DINE COLLEGE OFFICES	Not Covered		-								
Lawrence Livermore National Laboratory	89924	4576	COMPUTATION FACILITY BLDG	Not Covered		-								
Lawrence Livermore National Laboratory	143464	6989	TOILET TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89726	2554	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	201383	6301	RIGGER STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89743	2701	SECURITY SHOWER TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89818	6206	IE STORAGE	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	143340	4924	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89949	5104	INDUSTRIAL GAS FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	533	6901	TOILET TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89950	5105	LABOR ONLY CONSTRUCTION	Not Covered		-								
Lawrence Livermore Lab Site 300	90597	8806	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	133598	3555	HUMAN RELIABILITY PROGRAM	Not Covered		-								
Lawrence Livermore Lab Site 300	135719	8991	INSTRUCTOR FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	135819	1802	TOILET TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	89742	6205	MUSD HEAVY EQUIP. STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	138127	519A	HEAVY EQUIPMENT STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89865	6424	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89867	4107	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	204013	8580	BREAKROOM TRAILER	Not Covered		-								
Lawrence Livermore Lab Site 300	132064	8825	SHOWER FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	89715	2512	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89991	1713	TOILET TRAILER	Not Covered		-								
Lawrence Livermore Lab Site 300	136739	8724	EPD/ERD SERVICE-R&D	Not Covered		-								
Lawrence Livermore National Laboratory	89935	4905	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89936	4906	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89907	4388	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89967	5207	MUSD / AC STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	89892	4316	VACANT	Not Covered		-								
Lawrence Livermore Lab Site 300	90561	8340	EPD/ERD SRVC-MNTRNG TF834	Not Covered		-								
Lawrence Livermore Lab Site 300	90601	8990	B899 A&B WASH UP FACILITY	Not Covered		-								
Lawrence Livermore Lab Site 300	129504	874A	VACANT	Not Covered		-								

Strategy

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	129505	874B	VACANT		T	279	279	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		Tracy	CA
Lawrence Livermore National Laboratory	135609	1714	SHOWER FACILITY		T	270	270	-		112	NNSA	NNSA	O	N	Operating		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	90001	2625	VACANT		T	240	240	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	136930	532	EPD/ORAD SERVICE BLDG		T	215	215	-		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	89921	4113	PAINT SHOP STORAGE		T	203	203	-		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	143411	3304	TOILET TRAILER		T	128	128	-		112	NNSA	NNSA	O	N	Shutdown Pending D&D		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	202698	653	EPD SAMPLE STAGING		T	96	96	-		112	NNSA	NNSA	O	N	Operating		Livermore	CA
Lawrence Livermore Lab Site 300	137320	886	CHEMICAL STORAGE		T	36	36	-		112	NNSA	NNSA	O	N	Operating		Tracy	CA

Strategy

				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**	**Additional Information**	**SPO Review/Requests**
Lawrence Livermore Lab Site 300	129505	874B	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	135609	1714	SHOWER FACILITY	Not Covered		-								
Lawrence Livermore National Laboratory	140566	4352	ERD OFC-FIELD OPERATIONS	Not Covered		-								
Lawrence Livermore National Laboratory	90001	2625	VACANT	Not Covered		-								
Lawrence Livermore National Laboratory	89832	2808	TOILET TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	136930	532	EPD/ORAD SERVICE BLDG	Not Covered		-								
Lawrence Livermore National Laboratory	137823	501	DUS OFFICE	Not Covered		-								
Lawrence Livermore National Laboratory	89921	4113	PAINT SHOP STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	136929	518A	INDUSTRIAL GAS STORAGE	Not Covered		-								
Lawrence Livermore National Laboratory	143411	3304	TOILET TRAILER	Not Covered		-								
Lawrence Livermore National Laboratory	201360	231A	BEAD BLASTER-RECEIVING	Not Covered		-								
Lawrence Livermore National Laboratory	202698	653	EPD SAMPLE STAGING	Not Covered		-								
Lawrence Livermore Lab Site 300	137320	886	CHEMICAL STORAGE	Not Covered		-								

Appendix

DOE Building Exclusion Self-Certification Form FY2014

Part G Exclusions Letter

Part J Exclusions

Part G Exclusions

DOE BUILDING EXCLUSION
SELF-CERTIFICATION FORM
FY 2014

FROM: Lawrence Livermore National Laboratory
Program Office Landlord: NNSA

TO: Sustainability Performance Office

DATE: October 1, 2014

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 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 063.

I certify that the buildings listed on the Excluded Buildings List produced by FIMS as Report 063 (dated December 2014) 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 Site Office Official – printed name

DOE Site Office Official – Signature

12/8/2014
Date

Field Office Contact Information:
Karin.king@nnsa.doe.gov
925.422.0756

M&O Contractor Contact Information:
Name: Michael Cowen
Phone: (925) 422-6337
eMail: cowen3@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.

December 4, 2014

Ms. Karin King
Sustainability Management
U.S. Department of Energy
National Nuclear Security Administration
Livermore Site Office
Livermore, CA 94550

Dear Ms King,

During a review of the *Guidelines Establishing Criteria for Excluding Buildings* from the Energy Performance Requirements of Section 543, it was determined that LLNL has been under-reporting the correct number of buildings that can be excluded from the baseline under Part G.

Originally, LLNL reported a total of 6,251,000 GSF and an energy use intensity of 235.02 KBTU/SF for the FY03 regular building baseline. Based on the review stated above, the FY03 baseline should be 5,892,894 GSF and the energy use intensity should be 205.62 KBTU/SF. The table below shows the buildings and their respective square feet area and energy use that can be excluded per the guidelines.

Building Number	Description	Area (GSF)	FY03 Energy Use (kBTU)	FY13 Energy Use (kBTU)
B112	Data Center	45,512	28,257,802	20,810,679
B115	COMP – Data Center	17,140	7,388,376	3,626,758
B117	Data Center	11,370	10,228,415	12,678,862
B439	COMP – Data Center	12,055	20,793,431	21,754,666
U133	GS/Central Plant	5,631	15,210,638	16,525,627
U291	LCW Pumps Station (Northwest)	6,981	33,907,941	32,671,831
U325	LCW Pumps Station (Central)	5,072	40,605,240	57,126,976
U328C	LCW Support Bldg for U325	300	410,136	3,310,275
U6042	MOCHO Pump Station	351	4,189,383	4,743,240
B313	Regional Dispatch Center	5,817	613,269	1,860,021
B256	TELCOM Node #1	5,937	1,232,353	4,091,169
U119	TELCOM Node #11	2,061	1,564,225	628,989
U172	TELCOM Node #12	675	260,445	167,086
U299	TELCOM Node #4	675	175,909	165,161
U470	TELCOM Node #2	675	148,402	150,821
B331	Tritium Facility	30,484	3,402,067	4,235,692
B332	PU Facility	104,787	16,342,828	13,939,903
B334	R&D Test Bldg	10,652,	1,681,894	5,390,124
B335	Support Facility	11,988	219,852	1,231,046
B693	EPD/RHWM Waste Storage	12,000	319,906	555,624
B695	EPD/RHWM Liquid Waste Processing	46,504	4,746,811	7,474,919
B696	EPD/RHWM Solid Waste Processing	21,381	535,868	420,491

For the total energy calculation, the electricity usage was derived from historical meter readings. For the natural gas component, since there were no available building gas meter readings for the base year, a building gas usage factor was derived from the building's gas metered usage for FY13, divided by the site's total usage. This factor was then applied to the base year site gas usage to arrive at the estimated building gas usage for that year.

LLNL will change the baseline in the FY15 SSP and Consolidated Energy Data Report (CEDR) to reflect this corrected FY03 baseline and corrected energy intensity values.

If you have any questions, or need additional information, please contact Michael Cowen at (925) 422-6337.

Sincerely,

Michael Cowen
Sustainability Manager
Lawrence Livermore National Laboratory
7000 East Avenue, L-648
Livermore, CA 94550

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	LIVERMORE COMPUTING FACILITY	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	LIVERMORE COMPUTING FACILITY	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	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	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						

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)
453	200806	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	46,819	46,819
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 WST 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.						

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)
U291	90074	LCW STATION	G - Metered intensive loads	Building	8,630	8,629
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.						

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.

Part G **OTHER STRUCTURES**

Property ID Justification Comments	Real Property Unique ID	Property Name	Exclusion Part	Property Type	Gross SQFT	Excluded SQFT
OS454		Livermore Computing Center Cooling Towers	G - Metered Intensive Loads.		0	0
The facility's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
OS682		NIF Central Plant	G - Metered Intensive Loads.		8,880	8,880
The facility's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
OS683		NIF Cooling Towers	G - Metered Intensive Loads.		2,104	2,104
The facility's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. Tha facility is metered.						
U119		TELCOM NODE #11	G - Metered Intensive Loads.		2,061	2,061
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
U172		TELCOM NODE #12	G - Metered Intensive Loads.		675	675
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
U299		TELCOM NODE #4	G - Metered Intensive Loads.		675	675
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
U328C		PE/LCW Control Bldg	G - Metered Intensive Loads.	Building	300	300
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						
U470		TELCOM NODE #2	G - Metered Intensive Loads.		675	675
The building's energy use is driven by mission and operational requirements, not necessarily buildings and not influenced by conventional building energy conservation measures. Energy and water audits are performed on a 4-year cycle to identify potential ECMs. ECMs are implemented as funds become available. The facility is metered.						