

PM Workshop 2013



U.S. DEPARTMENT OF
ENERGY



May 20, 2013

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DOE Sustainability Performance Office

Projected FY 2012 Scorecard

	<p>Scope 1&2 GHG Emissions Reduction Target For Scope 1&2 GHG Reduction Target of 28% by 2020: 34.3% reduction and on track</p>	
	<p>Scope 3 GHG Emission Reduction Target For Scope 3 GHG Reduction Target of 13% by 2020: 15.3% reduction and on track</p>	
	<p>Reduction in Energy Intensity Reduction in energy intensity in goal-subject facilities compared with 2003: 23.5% reduction and on track for 30% by 2015</p>	
	<p>Use of Renewable Energy Use of renewable energy as a percent of facility electricity use: Total of 17.5% from renewable electricity sources including at least 3.5% from new sources</p>	
	<p>Reduction in Potable Water Intensity Reduction in potable water intensity compared with 2007: 16.6% reduction and on track for 26% by 2020</p>	
	<p>Reduction in Fleet Petroleum Use Reduction in fleet petroleum use compared to 2005: 8.4% reduction and not on track</p>	
	<p>Green Buildings Sustainable green buildings: 2.66% of buildings sustainable 4.07% GSF of inventory sustainable</p>	

SSP Feedback



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Site specific feedback to improve SSPs and data

(Site Sustainability Scorecards posted on Powerpedia – link below)

https://powerpedia.energy.gov/wiki/Site_Sustainability_Scorecards

SPO Director Jennifer C. MacDonald
Sustainability Performance Office
United States Department of Energy
Site: **Ames Laboratory**

This report reviews and provides feedback to sites to incorporate in their Site Sustainability Plan and data report for next year. Recommendations and comments are based on the current SSP and Consolidated Energy Data Report (CEDR), submitted December 2012. For further information, please consult the DOE Strategic Sustainability Performance Plan (SSPP) and SSP Guidance, or contact SPO (sustainability@hq.doe.gov).

Performance Key:
Targets Met
Needs Improvement (≤50%)
Insufficient Data
Does not Meet (≤50%)
Not Applicable

Overall Recommendations & Comments
Overall, a well thought out plan for meeting the sustainability requirements. Recommend including specific plans for meeting goals where Ames is currently behind. In addition, to overcome barriers/risks to goal attainment, recommend including what is needed to meet the goals (e.g., technical assistance, etc.).

Greenhouse Gas Reduction
 Scope 1 & 2: No major issues/complete SSP goal section provided
 Scope 3: No major issues/complete SSP goal section provided

Energy Management
 Energy Use Intensity: Recommended action: include a strategy for addressing this goal. If assistance is needed, provide specifics (technical assistance, site energy audits, etc.)
 Metering: No major issues/complete SSP goal section provided
 HPSB: Sound approach for meeting HPSB goal. As HPSB plan is finalized in 2013, provide details in next year's SSP.
 Renewable Energy: No major issues/complete SSP goal section provided

Fleet Management
 Petroleum Reduction: Recommended action: discuss plans to acquire and use AFVs and AFV fueling stations in proximity to Site operations.
 Alternative Fuel: No major issues/complete SSP goal section provided
 AFVs: No major issues/complete SSP goal section provided

Water Management
 Water Use Intensity: No major issues/complete SSP goal section provided
 ILA: Not applicable

Pollution Prevention & Waste Management
 Non-C&D: No major issues/complete SSP goal section provided
 C&D: Recommended action: include detailed discussion on specific strategies to reach goal attainment.

Sustainable Acquisition
 Discussed Biosased: No major issues/complete SSP goal section provided

Electronic Stewardship & Data Centers
 Discussed Efforts: Recommended action: include a more detailed and specific strategy for goal attainment.
 Power Management: Recommended action: clarify strategy for power management.

Climate Change Adaptation
 Discussed Policy: No major issues/complete SSP goal section provided

FY 2012 Site Sustainability Plan Scorecard Summary
 SPO Director Jennifer C. MacDonald
 Sustainability Performance Office
 United States Department of Energy
 Site: Ames Laboratory

This section of the review provides detailed current and projected performance. Note: Projections are limited and do not take into account mission changes or availability of funding. They are not to be used as a guarantee of our potential outcome. Projections are based on projected buildings coming online (including high-energy mission specific buildings, fleet assets, buildings planned to be taken off-line by FY 2020), identified conservation measures, and projected credits from renewable energy. Projections also factor in historical trends, data provided by sites, and market assumptions. For details on how each goal was projected, see Appendix 1 of the Site Sustainability Plan Guidance.

Performance Key:
Targets Met
Needs Improvement (≤50%)
Insufficient Data
Does not Meet (≤50%)
Not Applicable
Policy

DOE Goals and Targets

DOE Goal	Overall Target	FY 2012 Target	Baseline	FY 2012 Performance	FY 2013 Target	Site Specific									
						FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019	FY 2020		
Transforming our Energy System															
4.1 Scope 1 & 2 Greenhouse Gas Reduction:															
a. Provide comprehensive inventory of Scope 1&2 GHG data	Yes	Yes		Met	Yes										
b. 25% Scope 1 & 2 GHG reduction by FY 2020 relative to FY 2008 baseline	Yes	Yes	-28%	-15%	-4,691,025	-33.3%	-19%	-97.0%	-36.7%	-36.2%	-36.0%	-36.9%	-36.7%		
(i) Solar technologies (SP a) reduction															
(ii) Renewable energy credits (REC)															
c. Status beyond-site (SP a) program by September 2012	Yes	Yes		Met	Yes										
4.2 Scope 3 Greenhouse Gas Reduction:															
a. Provide comprehensive inventory of Scope 3 GHG data	Yes	Yes		Met	Yes										
b. 15% Scope 3 GHG reduction by FY 2020 relative to FY 2008 baseline	Yes	Yes	-6%	-3%	791,058	-16.3%	-7%								
(i) Business air travel															
(ii) Business ground travel															
(iii) Employee commuting															
(iv) Contracted waste disposal															
(v) Contracted waste water treatment															
(vi) T&D losses															
c. Teleworking policy program	Yes	Yes		Met	Yes										
4.3 Renewable Energy:															
a. 75% of annual electricity consumption from renewable sources by FY 2013 and beyond	Yes	Yes	7.5%	5.0%	NA	17.5%	5%	19.6%	16.2%	17.0%	17.3%	16.9%	17.1%	16.9%	16.8%
(i) Renewable energy from on-site systems															
(ii) Purchased renewable energy (from energy provider)															
(iii) Renewable energy credits															
(iv) Renewable energy from on-site solar															
4.4 Regional and Local Planning:															
a. Consultation with local and metropolitan planning organizations	Yes	Yes		Met	Yes										
b. Increase effectiveness of local planning efforts	Yes	Yes		Met	Yes										
c. Increase effectiveness of regional measures	Yes	Yes		Met	Yes										
d. Update agency-wide policy and guidance (EIS and EA's)	Yes	Yes		Met	Yes										
e. Take good methods and practices necessary to achieve goals into master planning documents	Yes	Yes		Met	Yes										
f. Discuss participation in critical local and regional efforts and initiatives	Yes	Yes		Met	Yes										
4.5 Site Innovation & Metrics:															
a. Add by site as applicable, SPO will assist with tracking	Yes	Yes		Met	Yes										
b. Add by site as applicable, SPO will assist with tracking	Yes	Yes		Met	Yes										

HPSB Status – FY 2012



HPSB Status (DOE Owned & Leased) (FY 2012)					
US/PSO/Site	# Applicable for HPSB	15% of applicable for HPSB	# Compliant with GP	% of # Compliant	% GSFT Compliant with GP
PMA	114	18	0	0.00%	0.00%
U/S Energy	246	37	8	3.25%	9.62%
EE	16	3	5	31.25%	56.40%
FE	74	12	1	1.35%	7.24%
NE	156	24	2	1.28%	0.71%
U/S NS	1,600	240	33	2.06%	2.92%
EM	503	76	1	0.20%	0.17%
NNSA	963	145	29	3.01%	5.34%
NR	127	20	2	1.57%	1.13%
LM	7	2	1	14.29%	10.80%
U/S Science	600	90	27	4.50%	5.03%
Grand Total	2,560	384	68	2.66%	3.80%

Next Steps:

- Issue an FAQ clarifying confusing/contradictory elements of the GPs
- Train sites on how changes to Portfolio Manager affect HPSB reporting
- Provide technical assistance for HPSB audits

What is Required?	When is it Reported to FEMP?	What is the Data Source?
Covered Facility Footprint (Select covered buildings, annual energy use, annual water use, of metered buildings)	Annually in March	CEDR Tab 11 Check and Update as Needed in March
Implemented Project data (awarded ECMs, investment, savings, follow-up M&V)	Annually in June	CEDR Tab 3.3 Check and update as needed in June
Comprehensive Evaluation Data	Annually in June	CEDR Tab 11 Check and update as needed in June
Benchmarking Data	Ongoing, preferably before June	Portfolio Manager, follow instructions for release to CTS

Completed in 2013:

- Held EFCOG Energy and Sustainability Subgroup Session on EISA 432 CTS Reporting
- Issued an FAQ, posted on PowerPedia (https://powerpedia.energy.gov/wiki/File:EISA_FAQ_1-15-2013.DOCX)

Next Steps

- Provide technical assistance on energy and water evaluations

- **POTUS December 2011 Memo directs agencies to enter into \$2 billion of energy saving performance-based contracts government-wide by December 2013**
- **DOE committed \$100 million in total project investment in ESPCs and UESCs**
- **Monthly report on process milestones required by OMB**

Goal	FY 2012 Interim Target	FY 2012 Status
Petroleum Reduction (-30 %, FY 2020)	-14 %	-8 %
Alternative Fuel Use Increase (+159 %, FY 2015)	+ 95 %	+ 138 %

Next Steps:

- Fleet data deep dives for at-risk programs
- IG Report corrective actions

Sustainable Acquisition



Goal	Process	Target	Current Status
Sustainable Acquisition (EO 13514)	Perform contract reviews to ensure inclusion of sustainable clauses/provisions	95%	FY 2012, Q3 (95%) FY 2012, Q4 (97%)

* Biobased purchasing being prioritized by current administration; DOE completed Biobased Purchasing Strategy as appendix to 2012 SSPP.

Next Steps:

- Replicate successful contract initiatives in the field by sharing best practices, conducting trainings, etc.
- Develop and distribute guidance to DOE contract specialists on sustainable acquisition, biobased, and FPDS requirements (e.g, update DOE acquisition guide)

Month	Deliverables and Events
May	
	<ul style="list-style-type: none">- Federal Energy and Water Management Awards nominations due (May 1)- 2013 DOE Sustainability Awards nominations open (May 8)- Performance Based Contracts monthly report due (May 15)- SSPP development (ongoing)
June	
	<ul style="list-style-type: none">- Performance Based Contracts monthly report due (June 14)- SSPP due to CEQ/OMB (June 28)- EISA Section 432 Implemented Project upload due (June 30)- EISA Section 432 Comprehensive Evaluation upload due (June 30)
July	
	<ul style="list-style-type: none">- Performance Based Contracts monthly report due (July 15)- OMB Sustainability Scorecard update released- Initiate deep dives (Fleet, Metering)

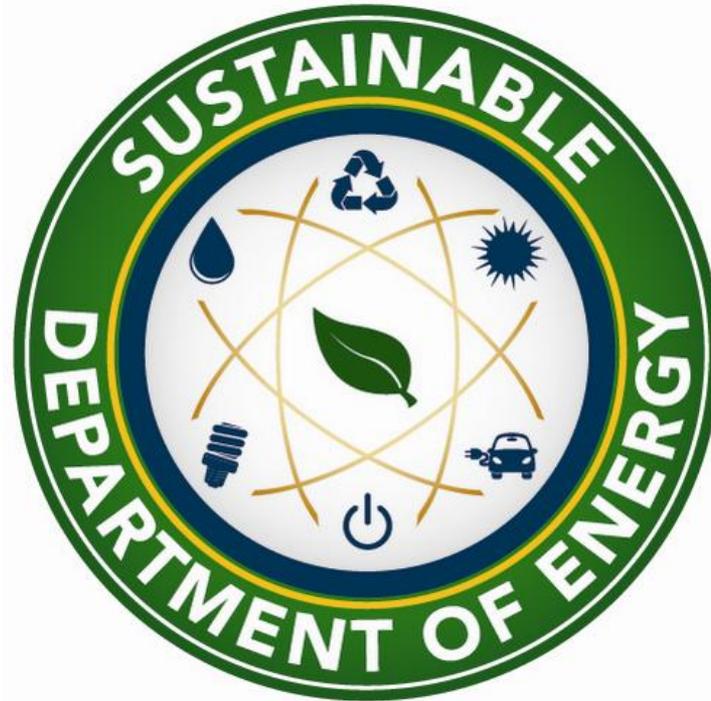
Upcoming Actions



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Thank you!



www.sustainability.energy.gov

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