

ENVIRONMENTAL MANAGEMENT SYSTEM OBJECTIVES AND TARGETS PROGRESS CY2015-CY2016 For SOUTHWESTERN POWER ADMINISTRATION

Activity	Legal Requirement	Aspect	Objective	Target ^{†**see important note}	2015-2016 Target Achievements
Real Estate Management	DOE O 436.1 E.O. 13423 & 13514 EPAAct 1992 and 2005 EISA 2007 NECPA 1978	Natural resource depletion and GHG emissions from resource intensive facilities	Increase sustainability of facility resources, reduce energy and water consumption, reduce impacts to natural resources from facility use	<ol style="list-style-type: none"> 1) Meter 90% of electricity by September 2012 2) Meter 90% of gas, steam, and water by September 2015 3) 30% energy intensity reduction by 2015 from baseline 2003 4) Reduce water consumption intensity 2% annually through FY2010 for a 26% total reduction by FY2020 from baseline FY2007 5) Installation of on-site renewable energy (electrical and thermal) to generate 10% of annual electricity and thermal consumption. No mandated target date established 6) >\$5 million, conform to LEED Gold certification: <\$5 million build to Guiding Principles (GP) for Federal Leadership in High Performance Sustainable Buildings (HPSB) 7) Install/replace roofs with Cool roof design and/or ensure thermal resistance of at least R-30 8) 15% of existing buildings must meet GP by end of FY2015, after that demonstrate annual improvement to attain 100% conformance with GPs 9) For renegotiation or expansion on existing lease facilities, the lease must include provisions to include HPSB GP; for new leased space include preference for LEED gold and other use of renewable energy to the maximum extent practicable 	<ol style="list-style-type: none"> 1) 100% Complete for Tulsa office lease and data center spaces have been metered. Other spaces not feasible due to mission critical functions and are excluded facilities 2) 100% where feasible, most are excluded facilities 3) Undeterminable. No baseline data. Progress tracked by DOE HQ-CEDR Report 4) Undeterminable. No baseline data. Progress tracked by DOE HQ-CEDR Report 5) Not applicable. Energy already originates from renewable hydropower source 6) No applicable projects in 2015 7) No applicable projects in 2015 8) 0%, to date, no facilities meet or have been certified to meet GP for HPSB 9) 100%, the Tulsa Office facility lease was renewed Jan. 2014 by GSA who ensures that the lease requirements conform to these provisions as applicable
Facility Operations	DOE O 436.1 E.O. 13423 & 13514 EPAAct 1992 and 2005 40 CFR Part 98 Subpart DD EISA 2007	Air Emissions	Reduction in GHG emissions resulting from facility operations	<ol style="list-style-type: none"> 1) Scope 1 (mobile sources of combustion, SF6 emissions) & Scope 2 (releases from facility where we purchase electricity, heating/cooling) GHGs, reduce 28% from FY2008 baseline by FY2020 2) Scope 3 (employee travel, Transmission and Distribution losses, etc.) gases, reduce 13% from FY2008 baseline by FY2020 3) Conduct a RICE NESHAP Applicability Determination for Southwestern's emergency generator's by Jan. 1, 2015 	<ol style="list-style-type: none"> 1) 12.9%, reduction in emissions from base year 2) 4.5% reduction from base year 3) 100%, Completed

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Purchasing, Acquisition and Real Estate Management	FAR DEAR EO 13514 EISA EPAAct 2005	Sustainable Products & Acquisition	New contract actions (task, delivery orders) must require the supply or use of products that are energy efficient (ENERGY STAR or FEMP Designated), Water Sense, water efficient, bio-biased, environmentally preferable, non-ozone depleting, recycled-content, or non-toxic or less toxic alternatives	1) Provide training to employees 2) 95% of new contact actions annually must include language to meet this objective	1) 100% Complete, new purchase card holders must take sustainable purchase online training course. SWPAs Sustainable Purchasing Coordinator is a member of the Sustainable Acquisition Network and participates regulatory in monthly meetings and webinar 2) 100% complete, most product purchases are off of a GSA contract, which already have sustainable purchasing requirements within.
Fleet Operation	EISA 2007 EO 13423 EO 13514	Site Sustainability	Reduce dependency on foreign oil by utilizing alternative fuels, and reduce GHG emissions with enhanced fleet utilization	1) 2% per year reduction in fleet petroleum use through FY2015 from FY2005 baseline, or an overall reduction of 30% by FY2020 2) Increase use of non-petroleum fuels by 10% annually from baseline FY2005 3) Purchase low GHG emitting vehicles including alternative fuel vehicles	1) 34.5% increase in use since baseline year, target not feasible, SWPA utilizes light duty and heavy duty vehicles to patrol and maintain 1,380 miles of transmission in mostly rural and tough terrain type areas. Improvements tracking of data believed to be responsible for appearance in increase of petroleum usage. 2) No data available. Target not feasible. SWPA utilizes light duty and heavy duty vehicles to patrol and maintain 1,380 miles of transmission in mostly rural areas which require vehicles with higher powered engine and four wheel drive capability for rough and inaccessible terrain 3) Target not feasible. SWPA utilizes light duty and heavy duty vehicles to patrol and maintain 1,380 miles of transmission in mostly rural areas which require vehicles with higher powered engine and four wheel drive capability for rough and inaccessible terrain

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Fleet Operation	EISA 2007 EO 13423 EO 13514	Site Sustainability	Reduce dependency on foreign oil by utilizing alternative fuels, and reduce GHG emission with enhanced fleet utilization	1) Decrease fleet size by 35% from FY2005 baseline by FY2014 (Note: SWPA has determined that a reduction in fleet size would be detrimental to agency operations.)	1) Target not feasible. Reduction in fleet size would impact SWPA's ability to achieve its agency mission. As SWPA's facilities and area of responsibilities have grown, SWPA has been able to accommodate its work activities utilizing about the same number of fleet vehicles. Baseline FY2005 baseline was 85 vehicles and we now have 89.
Facility Maintenance Operations	E.O. 13423 & 13514	Waste Generation	Divert non-hazardous solid waste and construction and demolition debris diverted from disposal	1) 50% Diversion by FY2015	1) 100% for tower demo projects, all tower demolition waste was diverted from landfill and reclaimed for metal reclamation. This was 33.2 metric tons of non-hazardous waste diverted from disposal and sent to metal reclamation.
Facility Maintenance Operations	TSCA E.O. 13423 DOE O 436.1 Pollution Prevention Act RCRA	Toxic Chemical Reduction	Reduce use of chemicals that are toxic, hazardous	1) Elimination of PCB-filled electromechanical relays from service by 2015 2) Elimination of all PCB equipment from the system by 2020 3) Elimination of lead-based paint from contaminated communication towers, designated at their end-of-life, for the Spectrum Relocation project	1) 90% Complete. There are 10 electro-mechanical protection schemes currently in service. There were no reductions in 2014. Over half of those will be replaced in calendar year 2016. There are 3 schemes remaining translating to a total reduction of about 90% 2) In process, eliminating as identified or as failure occurs 3) Three lead-based paint coated towers were eliminated from SWPAs facilities in 2015-2016 and replaced with galvanized non-coated surface towers
Corporate Operations Management	FDCCI E.O. 13423 & 13514	Site Sustainability	Energy Management and optimization for IT systems to reduce GHG emissions and energy usage	1) Ensure 95% of agency electronic product acquisitions are EPEAT Registered 2) Enable Energy Star feature on agency computers and monitors 3) Enable duplex printing, power management, and other energy-efficient or environmentally preferable features on all eligible DOE electronic products 4) Ensure procurement of Energy Star and FEMP-designated electronic equipment 5) Implement best management practices in energy-efficient management of servers and Federal data centers	1) 100% for eligible equipment 2) 100% for eligible equipment 3) 100% for eligible equipment 4) 100% for eligible equipment 5) 100% for eligible equipment

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Facility Maintenance Operations	MOU-230 BLM E.O. 13186	Avian Protection	To implement USFW enforcement strategy focused on companies that fail to use practical conservation measures to avoid and minimize bird injury and mortality rates.	<ol style="list-style-type: none"> 1) Assess conformance to 2014 updated FCC/USFWS tower lighting recommendations for migratory bird protection 2) Complete Migratory Bird Power Line Evaluation study by August 2015 3) Develop and implement an Avian Protection Plan (APP) by September 2016 4) Investigate the feasibility of implementing the use the USFWS injury & mortality reporting system for bird/bat injury/mortality by Sept. 2017 	<ol style="list-style-type: none"> 1) 100% Complete, Assessment completed. SWPA conforms to 2014 FCC/USFWS tower lighting recommendations for bird protection 2) 100%, Action completed 2016 3) 100%, Action completed 2016 4) Action scheduled for 2017

****Note:** DOE O 436.1 allows exemptions for PMAs from specific sustainability goal target percentages; however, PMAs are still required to submit requested information regarding resource use and emissions associated with the Objectives and Targets listed above. PMAs are encouraged to work closely with DOE to achieve the sustainability goals; Southwestern Power Administration will strive to make progress towards the achievement of these goals where prudent, cost-effective and economically feasible.

FY= Fiscal Year