

**SOUTHWESTERN POWER ADMINISTRATION
ENVIRONMENTAL MANAGEMENT SYSTEM
OBJECTIVES AND TARGETS-2011 ACHIEVEMENTS**

Activity	Legal Requirement	Aspect	Objective	Target ^{***see important note}	Target Achieved	Details
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 usage	<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) Audit major facilities every four years for use of energy, natural gas, steam and water (beginning 2012, 2016, 2020, 2024, and 2028, etc) 4) 30% energy intensity reduction by 2015 from baseline 2003 5) Reduce water consumption intensity 2% annually through FY2010 for a 26% total reduction by FY2020 from baseline FY2007 6) Installation of on-site renewable energy (electrical and thermal) to generate 10% of annual electricity and thermal consumption. No mandated target date established 7) >\$5 million, conform to LEED Gold certification: <\$5 million build to Guiding Principles (GP) for Federal Leadership in High Performance Sustainable Buildings (HPSB) 8) Install/replace roofs with Cool roof design and/or ensure thermal resistance of at least R-30 9) 15% of existing buildings must meet GP by end of FY2015, after that demonstrate annual improvement to attain 100% conformance with GPs 10) 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) Ongoing 2) Ongoing 3) Ongoing 4) Ongoing 5) Ongoing 6) No 7) No 8) Yes 9) Ongoing 10) Ongoing 	<ol style="list-style-type: none"> 1) Target date completion for the Tulsa office "ONLY" is estimated for Aug. 2012. Other sites are TBD 2) TBD 3) Data compiled for audit in 2011 and June 15, 2012, for covered items only, and submitted to DOE HQ for auditing 4) TBD 5) TBD 6) N/A 7) N/A 8) Southwestern replaced two aging roofs with cool roofs in the Springfield, Missouri Maintenance Complex, and one roof in at the Jonesboro, Arkansas Maintenance Office building 9) To date, 0% of Southwestern's buildings have been certified to meet GP for HPSB 10) There were no renegotiations or expansion on existing lease facilities during CY2011

Objectives & Targets Rev. 6/1/11

Activity	Legal Requirement	Aspect	Objective	Target**see important note	Target Achieved	Details
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	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, T&D losses, etc) gases, reduce 13% from FY2008 baseline by FY2020	1) Scope 1: Yes Scope 2: Ongoing 2) Ongoing	1) Southwestern has reduced its Scope 1 SF6 GHG 2008 baseline emissions by an additional 20% below the 2020 target threshold; For Scope 2 emissions, Southwestern as seen a 12% increase in emissions since FY2008 baseline. This is likely due to increase data tracking and management which has emerged since 2008 and not an actual increase in Scope 2 emissions 2) Southwestern has achieved a 1% reduction from FY2008 baseline calculations
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) Yes 2) Yes	1) Training slides to cover sustainable purchasing and contracting requirements were submitted to employees via email in 2011 2) 100% of new contract actions for CY2011 contained sustainable language to meet this requirement
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) No 2) No 3) No	1) Not feasible. Target would impact Southwestern's ability to achieve its agency mission 2) Not feasible. Target would impact Southwestern's ability to achieve its agency mission 3) Not feasible. Target would impact Southwestern's ability to achieve its agency mission. However, Southwestern will continue to look for opportunities to implement

Objectives & Targets Rev. 6/1/11

Activity	Legal Requirement	Aspect	Objective	Target**see important note	Target Achieved	Details
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	4) *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. On May 27, 2011, a Memorandum was submitted from Ron Szatmary, Southwestern's Assistant Administrator of Office of Corporate Services, to Ingrid Kolb, the Director of Office of Management at DOE, which stated the inability of Southwestern to meet this goal. SWPA will continue to assess the potential for fleet reduction on an annual basis.)	4) No	4) Not feasible. Target would impact Southwestern's ability to achieve its agency mission
Facility Maintenance Operations	E.O. 13423 & 13514	Waste Generation	Divert non-hazardous solid waste and construction and demolition debris diverted from disposal	50% Diversion by FY2015	1) Yes	1) Metal components from demolition debris resulting from radio tower demolition projects were separated out and sent for metals recovery. The weight should account for far greater than 50% of demolition debris weight
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 contaminated communication towers, designated at their end-of-life, for the Spectrum Relocation project	1) Ongoing 2) Ongoing 3) Ongoing	1) There are 22 electromechanical relay protection schemes that may contain relays with PCBs, 4 schemes were replaced in CY2011 translating to a reduction of about 18% 2) As aging PCB containing equipment faults or reaches the end of its useful life, it is being replaced on an ongoing basis 3) Nine towers with lead-based paint coatings were recycled as scrap metal during CY2011

Activity	Legal Requirement	Aspect	Objective	Target**see important note	Target Achieved	Details
Corporate Operations Management	FDCCI E.O. 13423 & 13514	Site Sustainability	Energy Management and optimization for IT systems to reduce GHG emissions and energy usage	<ol style="list-style-type: none"> 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 	<ol style="list-style-type: none"> 1) Yes 2) Yes 3) Yes 4) Yes 5) Ongoing 	<ol style="list-style-type: none"> 1) Southwestern complies with new FAR clauses promoting energy efficient EPA registered per GSA product specifications and regulations 2) All desktops have Energy Star features enabled (SCADA equipment is exempt) 3) All printers and multi-function devices have power management features 4) Southwestern complies with new FAR clauses promoting energy efficient EPA registered per GSA product specifications and regulations 5) In 2012, Southwestern will be implementing power metering and power distribution units for monitoring efficiency

**Note: DOE O 436.1 dated 5-2-2011 equivalencies/exemptions requires that PMAs submit requested information regarding resource use and emissions associated with the Objectives and Targets listed above and are encouraged to work closely with DOE to achieve the above sustainability goals. Henceforth, the specific targets listed above are not required to be met, however Southwestern Power Administration will strive to make progress towards the achievement of these goals where prudent, cost-effective and economically feasible. However, Cool Roofs are an absolute mandate.