

Executive Order 12-06 Report

ACHIEVING ENERGY EFFICIENCY IN STATE BUILDINGS

2015

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Describe benchmarking, metering, audits, and energy retrofits completed by the agency by 2015 to meet the requirements of EO 12-06:

DVA has completed or was in the process of by 2015:

- **Investment Grade Audits of its three major facilities.**
- **Utilized the ESCO process to make significant upgrades to these facilities utility infrastructure.**
- **Engaged the WSU Energy Program to provide ongoing Energy Star reporting in conjunction with ESCO monitoring and verification.**

Describe benchmarking, metering, audits, and energy retrofits that the agency plans to implement in 2015 to meet the requirements of EO 12-06:

DVA has finalized the input of at least 36 months of data for the four owned facilities (Eastern Washington Cemetery, Spokane Veterans Home, Washington Soldiers Home and Colony and the Washington Veterans Home) and one leased building (Operations Headquarters). This information is current through the 2015 calendar year.

DVA will be looking at received additional information from our utilities to evaluate how the work that has been done in the past is assisting in the reduction of energy consumption.

Since each facility is unique with regard to usage and the location, each facility will be compared to itself overtime to ensure that progress is being met through the agencies commitments to reduce energy consumption.

DVA has performed the following projects either through an Energy Service Company (ESCO) or through capital projects:

- **At the Soldiers Home at Orting:**
 - **Replacement of an obsolete boiler (installed in 1962) with an up to date unit that has proven out to be more reliable and efficient. Initial estimates of positive cash flow from savings was estimated at \$10K per year out to 2019. We have seen in excess of 40% reduction in our gas costs with this boiler.**
 - **Removal of 8 buildings from the failing campus steam system and installing a combination of evaporative natural gas heat and/or split system HVAC units. Used a PSE grant to pipe the gas and install meters to these buildings.**
 - **Replace the existing vacuum condensate return system in 5 buildings and upgrade these buildings with a new controls (DDC or Electronic). Optimal start, economizer, OCC sensors, CO2 sensors. Includes commissioning of all systems.**
 - **Replace or retrofit water closets, sinks, urinals with new, water saving devices.**
 - **Lighting Retrofit - Where cost effective (<7yr payback), retrofit T-12, magnetic ballast and incandescent fixture with T-8 lamps, electronic ballast and compact fluorescent technology.**
 - **In our skilled nursing building, repair/replace failed valves, replace steam regulator valves on the hot water system, install eductors on the steam trap lines to alleviate water hammer in the pumped condensate return to the steam plant and clean all Nursing Care main AHU heating hot water coils.**
- **At the Veterans Home at Retsil:**
 - **Lighting Retrofit - Where cost effective (<7yr payback), retrofit T-12, magnetic ballast and incandescent fixture with T-8 lamps, electronic ballast and compact fluorescent technology.**
 - **Replace or repair failed fire/smoke dampers & provide access where needed. This restored the air flow necessary to evenly distribute heat to the residents.**
- **At the Spokane Veterans Home:**
 - **We have installed a Silk Road Solar Heating Array and System. This includes an extensive roof top array of solar heated water panels, piping, storage tanks and a replacement smaller and more efficient domestic water heater in the existing system.**

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- **We installed Variable Frequency Drives to the Kitchens Mechanical Air Unit's and Exhaust Fan's. All these exhaust fans and air handling units had run at full speed all day. They now operated more appropriately on demand and we now shut them off in between meal periods resulting in a greatly reduced energy cost.**
- **We performed re-balancing of the building. The changes in the exhaust profiles had left the building under negative pressure. This effort returned the building to slight positive pressure resulting in less energy consumed as well as increasing resident comfort.**

Describe how the agency used Energy Star Portfolio Manager benchmarking in lease negotiations for new or renewed leases in 2012:

We have not used the data to negotiate a new or renewal lease up to 2015.

Describe actions that will be taken to save energy through operational changes and continuous monitoring using Portfolio Manager:

No direct operational changes have been seen due to the information added to Portfolio Manager.

The usage of the owned facilities do not fully meet any of the specified building types as they are defined in Portfolio Manager and thus an Energy Star Rating is not currently available for consideration.

Resources:

Go to the DES Portfolio Manager webpage for a link to EO 12-06, RCWs, EPA resources and training, Step by Step Instructions, and Frequently Asked Questions at <http://www.ga.wa.gov/energy/EnergyStar.htm>

Agency	Unique Facility Identifier	Agency SAA M Number	Agency Assigned Regional Name	Agency Assigned Regional Number	Agency Assigned Common Name	Agency Assigned Number	Reported Square Feet	Primary Space Type	No Benchmarking Required	Benchmarking Required	Benchmarking Completed	Energy Data in Portfolio Manager Current	No Preliminary Audit Required	Comprehensive Preliminary Audit Requested	Comprehensive Preliminary Audit Completed	No Cost Effective Energy Conservation Measures Identified	Investment Grade Audit Initiated	Investment Grade Audit Completed	No Cost Effective Projects Identified	Cost Effective Projects Initiated	All Cost Effective Projects Completed	All Required Actions Completed and Current
DVA	A10728	305	EASTERN WASHINGTON VETERANS CEMETERY	OFMID0004	ADMINISTRATION BUILDING	OFMID00053	3897	311		X	X	X	X									
DVA	A10967	305	EASTERN WASHINGTON VETERANS CEMETERY	OFMID0004	COMITTAL SHELTER	OFMID00054	888	590		X	X	X	X									
DVA	A10345	305	EASTERN WASHINGTON VETERANS CEMETERY	OFMID0004	MAINTENANCE BUILDING	OFMID00055	3491	720		X	X	X	X									
DVA	A00663	305	SPOKANE VETERANS HOME	OFMID0004	COMMISSARY/MAINTENANCE BUILDING	OFMID00049	840	590		X	X	X		X								
DVA	A04317	305	SPOKANE VETERANS HOME	OFMID0004	SPOKANE VETERANS HOME	OFMID00048	41670	590		X	X	X		X	X						X	
DVA	A04403	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	ADMINISTRATION BUILDING	OFMFI000027	6683	310		X	X	X		X	X		X	X			X	
DVA	A00863	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	BETSY ROSS HALL	OFMFI000028	4512	900		X	X	X		X	X		X	X			X	
DVA	A00310	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	CEMETARY EQUIPMENT SHED	OFMFI000048	120	590		X	X	X		X	X	X			X			
DVA	A09148	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	CEMETARY PUMP HOUSE	OFMFI000044	120	590		X	X	X		X	X	X			X			
DVA	A07773	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	CHAPEL	OFMFI000026	2069	590		X	X	X		X	X		X	X			X	
DVA	A08372	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	CHILSON HALL	OFMFI000029	15110	900		X	X	X		X	X		X	X			X	
DVA	A07755	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	COMMISSARY	OFMFI000035	3584	590		X	X	X		X	X		X	X			X	
DVA	A07244	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	DAY CARE CENTER	OFMFI000025	1514	900		X	X	X		X	X		X	X			X	
DVA	A09167	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	FIRE PUMP HOUSE	OFMFI000043	416	590		X	X	X		X	X	X			X			
DVA	A05872	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	GARDENERS SHOP	OFMFI000046	2160	590		X	X	X		X	X		X	X			X	
DVA	A09311	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	GARFIELD BARRACKS	OFMFI000031	17149	900		X	X	X		X	X		X	X			X	
DVA	A05144	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	GENERATOR HOUSE	OFMFI000042	525	590		X	X	X		X	X	X			X			
DVA	A05726	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	HOBBY/WOOD SHOP	OFMFI000045	1900	590		X	X	X		X	X		X	X			X	
DVA	A01821	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	KITCHEN / DINING ROOM	OFMFI000034	8920	590		X	X	X		X	X		X	X			X	
DVA	A01261	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	MEMBER STORAGE	OFMFI000037	8500	730		X	X	X		X	X		X	X			X	
DVA	A06244	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	NURSING CARE	OFMFI000032	45821	900		X	X	X		X	X		X	X			X	
DVA	A09629	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	PUNIC KITCHEN	OFMFI000047	2430	590		X	X	X		X	X	X			X			
DVA	A07653	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	POWER PLANT - ORTING	OFMFI000036	4572	590		X	X	X		X	X		X	X			X	
DVA	A06711	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	ROOSEVELT HALL	OFMFI000030	26330	900		X	X	X		X	X		X	X			X	
DVA	A01141	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	VEHICLE MAINTENANCE BUILDING	OFMFI000038	7181	740		X	X	X		X	X		X	X			X	
DVA	A02784	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	WATER TREATMENT BLDG	OFMFI000039	480	590		X	X	X		X	X	X			X			
DVA	A05973	305	WASHINGTON SOLDIERS HOME AND COLONY	OFMSID00003	WELL HOUSE	OFMFI000040	180	590		X	X	X		X	X	X			X			
DVA	A02187	305	WASHINGTON VETERANS HOME	OFMSID00001	BLDG 19 CARPENTER SHOP	OFMFI000021	1945	590		X	X	X		X	X	X			X			
DVA	A09814	305	WASHINGTON VETERANS HOME	OFMSID00001	BLDG 20 MAINTENANCE SHOP	OFMFI000022	6260	590		X	X	X		X	X	X			X			
DVA	A08855	305	WASHINGTON VETERANS HOME	OFMSID00001	BLDG 26 POWER PLANT	OFMFI000023	4998	590		X	X	X		X	X		X	X			X	X
DVA	A07997	305	WASHINGTON VETERANS HOME	OFMSID00001	BLDG 28 LAUNDRY	OFMFI000024	10580	590		X	X	X		X	X		X	X			X	X
DVA	A07347	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 10, NURSING CARE	OFMFI000009	38195	900		X	X	X		X	X	X			X			
DVA	A09559	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 10., CLINIC	OFMFI000010	2525	900		X	X	X		X	X	X			X			
DVA	A06859	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 11, VIEW HOUSE/DAYROOM	OFMFI000011	347	900		X	X	X		X	X	X			X			
DVA	A07004	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 1-240 BED FACILITY	OFMFI000004	160000	900		X	X	X		X	X		X	X			X	X
DVA	A09902	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 6, DOMICILARY	OFMFI000005	19259	900		X	X	X		X	X	X			X			
DVA	A03091	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 7, NURSING CARE	OFMFI000006	13055	900		X	X	X		X	X	X			X			
DVA	A04278	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 8 CHAPEL	OFMFI000007	5340	900		X	X	X		X	X		X	X			X	X
DVA	A03874	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING 9, NURSING CARE	OFMFI000008	41835	900		X	X	X		X	X	X			X			
DVA	A05306	305	WASHINGTON VETERANS HOME	OFMSID00001	BUILDING K	OFMFI000003	12000	900		X	X	X		X	X		X	X			X	X
DVA	A07677	305	WASHINGTON VETERANS HOME	OFMSID00001	CEMETERY STORAGE BLDG 1	OFMFI000050	240	590		X	X	X		X	X	X			X			
DVA	A03992	305	WASHINGTON VETERANS HOME	OFMSID00001	CEMETERY STORAGE BLDG. 2	OFMFI000051	576	590		X	X	X		X	X	X			X			
DVA	A02303	305	WASHINGTON VETERANS HOME	OFMSID00001	GARDEN SHOP	OFMFI000052	1500	590		X	X	X		X	X	X			X			

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DVA	A01005	305	WASHINGTON VETERANS HOME	OFMSID00001	SINCLAIR HOUSE	OFMFID00013	3524	900		X	X	X		X	X	X			X			