



STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY

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November 28, 2016

Mr. Chris Liu, Director
Washington State Department of Enterprise Services
PO Box 41401
Olympia, WA 98504-1401

RE: Department of Ecology's Report for Executive Order 12-06

Dear Director Liu:

I am pleased to submit the Department of Ecology's (Ecology) reporting documents for Executive Order 12-06. Ecology has a long history of tracking energy usage and undertaking cost effective efficiency improvements.

Ecology's initiatives this year include installing high performance HVAC and lighting systems in our owned buildings; this will include digital control system upgrades and the installation of active, real-time monitoring systems. These systems will troubleshoot any problems that may arise, and schedule the maintenance events.

As an agency, Ecology is committed to monitoring and benchmarking energy usage to ensure our systems continue to operate efficiently. It is our goal to lead by example and help other agencies reduce energy and green house gas emissions.

Sincerely,

A handwritten signature in black ink that reads "Maia D. Bellon" with a long horizontal flourish extending to the right.

Maia D. Bellon
Director

Enclosures

cc: Donna Albert, DES Energy Office
Kelly Susewind, Ecology

Executive Order 12-06 Report

ACHIEVING ENERGY EFFICIENCY IN STATE BUILDINGS

December 2016

Agency Name:	Department of Ecology
Agency Point of Contact:	Stephen Fry / Fran Huntington
Point of Contact Title:	Facility Managers
Telephone Number:	360-407-6018 / 360-407-7028
E-mail Address:	Sfry461@ecy.wa.gov / fhun461@ecy.wa.gov

Describe benchmarking, metering, audits, and energy retrofits completed by the agency in 2012 through 2016 to meet the requirements of EO 12-06. What percentage of agency owned square footage has been audited (all systems) and all life-cycle cost effective measures installed, since 2012?

Ecology has completed audited 100% of its owned facilities and implemented life-cycle cost effective measures at each. These measures include interior and exterior LED lighting upgrades, retro commissioning, Digital control system upgrades, installation of active energy monitoring systems, ground source heat-pump systems and building envelope weatherization.

Describe benchmarking, metering, audits, and energy retrofits that the agency plans to implement in the next 5 years to meet the requirements of EO 12-06. What percentage of agency owned square footage will be audited (all systems) and all life-cycle cost effective measured installed, from 2012 – 2022?

Ecology will complete those projects started in 2016 and begin a measurement and verification period. Ecology will continue investigating cost effective measures such as solar and LED lighting conversions as the cost of these systems decrease.

Executive Order 12-06 Reporting Form

Describe how the agency used Energy Star Portfolio Manager benchmarking in lease negotiations for new or renewed leases in 2012 – 2016, and how benchmarking will be used in future leased negotiations:

Department of Enterprise Services, Division of Real Estate Services is the State's statutory agency responsible for all lease negotiations on behalf of 'other' state agencies. Because of this requirement, the Department of Ecology has not engaged in 'lease negotiations' for new or renewed leases in 2016 making use of data stored within Energy Star Portfolio Manager. The data within the Energy Star Portfolio Manager is available and accessible for the Department of Enterprise Services to use in their lease negotiations.

Describe actions that will be taken in 2017 to save energy through operational changes and continuous monitoring using Portfolio Manager. Describe how you will engage occupants and staff to reduce energy use in the next 5 years:

We continue to use data in portfolio manager to compare with past data in portfolio manager. Anomalies in new data vs. previous data are investigated to find and correct causes of extra energy use. Where appropriate and where opportunity presents itself, the agency will continue to educate occupants on energy efficient use of facilities.

Attachment:

A - Agency Progress in Implementing EO 12-06 (by building)

Resources:

Go to the DES Portfolio Manager webpage for a link to EO 12-06, previous reports, RCWs, EPA resources and training, Step by Step Instructions, and Frequently Asked Questions at <http://des.wa.gov/services/facilities-leasing/energy-program/energy-star-portfolio-manager>