



STATE OF WASHINGTON
DEPARTMENT OF CORRECTIONS
ADMINISTRATIVE SERVICES DIVISION
CAPITAL PROGRAMS

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December 23, 2013

Ms. Donna Albert
Department of Enterprise Services Energy
P.O. Box 41476, 1599 Jefferson Street SE
Olympia, WA 98501

Re: Executive Order 12-06

Dear Ms. Albert:

The Department of Corrections (Department) is submitting the following information on Executive Order 12-06 Reporting Form and the EO Agency Progress Check List (modified). Department of Enterprise Services (DES) identified in the 2012 Portfolio Manager Benchmarking Report that it is not possible to fully comply with the Energy Benchmarking Law because of inadequate metering on millions of square feet of state buildings. To comply with the spirit of the law and find the best opportunities for building energy retrofits, DES encouraged agencies, colleges and universities to benchmark at the campus level and pursue metering of buildings.

The Department has taken the campus level approach. The Department also recognizes the Environmental Protection Agency Energy Star Portfolio does not take into account when operating and program changes occur, including when new spaces and building are added to a facility. As a result of these issues, the Department has used a tracking system to provide more accurate information on baseline, current, and future Energy Use Intensity (EUI) measure for meeting the Executive Order 12-06 goals.

The Department has modified the EO Agency Progress Check List and added two columns for LEED buildings and Campus Energy Data in Portfolio Manager Current.

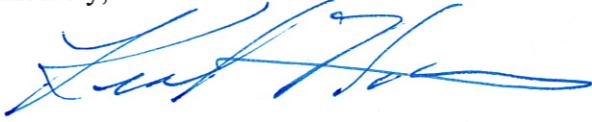
In the next year, the Departments will complete two preliminary audits at two major facilities to determine what opportunities there are for potential energy conservation projects. We also have plans to install water meters at three correctional facilities.

Although the Department was not included in any of the appropriations to support this effort, the agency has been proactive in meeting the intent and, where possible, the explicit requirements of the order.

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If you have questions or need further assistance please contact me at (360) 725-8354.

Sincerely,



Kent Nugen, P. E., Director of Capital Programs
Department of Corrections

KN:sc

Enclosures (2)

CC: Julie Vanneste, Sustainability Coordinator, Department of Corrections
File

Executive Order 12-06 Report

ACHIEVING ENERGY EFFICIENCY IN STATE BUILDINGS

December 2013

Agency Name:	Department of Corrections
Agency Point of Contact:	Kent Nugen, P.E.
Point of Contact Title:	Director of Capital Programs
Telephone Number:	360-725-8354
E-mail Address:	kent.nugen@doc.wa.gov

Describe benchmarking, metering, audits, and energy retrofits completed by the agency in 2013 to meet the requirements of EO 12-06:

The Department of Corrections (DOC) has provided data for DOC correctional facilities in the Environmental Protection Agency (EPA) Energy Star Portfolio tracking system. DOC major correctional facilities are not managed by individual meters at each building, but by a single or multiple (campus) meter.

The baseline and current information has been entered into the EPA Energy Star Portfolio on a campus facility approach. DOC in its assessment of the EPA Energy Star Portfolio tracking system finds it is beneficial for campus facilities, but provides skewed information when operational or program changes occur, including when new spaces or buildings are added to a campus facility.

As a result of these issues, DOC utilizes both the EPA Energy Star Portfolio and a DOC tracking system to provide more accurate information on baseline, current, and future Energy Use Intensity (EUI) measure for meeting the Executive Order 12-06 goals. At this time, DOC has been able to provide campus facility data on 98% of our facilities in operation.

EPA Energy Star does not have benchmarks for correctional facilities for those that are individually metered and for those that are metered by a campus facility approach. In establishing a benchmark for correctional type facilities, the department considers current average EUI's are representative of benchmarks the agency can use in measuring energy reductions to meet the intent of Executive Order 12-06.

Executive Order 12-06 Reporting Form

Summary	Square Footage ft ²	Source kBtu	Change in Average Source EUI (kBtu/ft ²)-See Note
2009 Baseline Summary	6,614,184	2,113,964,455	319.61
2012 Current Summary	6,924,865	2,110,757,603	304.81
Equity adjustment for build-out of program space between 2009 and 2012.	310,681	-94,698,205	304.81
2012 Current comparison with Baseline.	6,614,184	2,016,059,398	304.81
Executive Order 12-06 (20% Reduction from 2009)	6,614,184	1,761,637,046	266.34
Reduction by 2020	6,614,184	254,422,352	38.47

Over the last 7 years DOC has constructed 1.3 million square feet of new space; 45% achieved Leadership in Energy and Environmental Design (LEED) gold and 55% achieved LEED silver. This includes the first LEED Gold prison campus in the world. DOC has completed 12 Energy Saving Performance Contracts (ESPC) at our facilities.

During this reporting period, DOC completed an energy conservation project at the Twin River Unit, Monroe Correctional Complex located in Monroe, Washington. Another energy conservation project is scheduled to be completed in the next several months at the Airway Heights Corrections Center located in Airway Heights, Washington.

Preliminary energy audits were performed at two additional correctional facilities that resulted in no cost effective energy savings projects for buildings. These facilities have had energy conservation projects in the last 7-8 years, which made these audits a challenge to find additional cost effective energy savings.

Executive Order 12-06 Reporting Form

Describe benchmarking, metering, audits, and energy retrofits that the agency plans to implement in 2014 to meet the requirements of EO 12-06:

DOC is tracking energy use on 98% of our facilities. Although DOC was not included in any of the legislative appropriations to support this effort, the agency has been proactive in meeting the intent and, where possible, the explicit requirements of the order. As time permits, the department will look to make some advancement in this area.

DOC will continue this approach in tracking campus energy use until substantial capital funding is provided to move toward metering individual buildings.

DOC will complete two preliminary audits at two major facilities and determine what opportunities there are for potential energy conservation projects.

Single water meters are scheduled to be installed at three correctional facilities.

Describe how the agency used Energy Star Portfolio Manager benchmarking in lease negotiations for new or renewed leases in 2013:

DOC currently leases 10 buildings which make up just over 3% of the departments overall square footage that it operates. DOC at this time has not used the Energy Star Portfolio Manager to benchmark lease facilities. The Department is looking at DES to provide guidance and leadership in assisting agencies on implementation of new leases.

Describe actions that will be taken to save energy through operational changes and continuous monitoring using Portfolio Manager in 2014:

EO 12-06 assumed resources, measuring systems and metrics that are not available to DOC at this time.

DOC will continue to use the Portfolio Manager along with the departments own tracking system to measure energy reductions to meet the intent of Executive Order 12-06.

The Portfolio Manager will also be used to consider opportunities for DOC to use Energy Saving Performance Contracting (ESPC) at their facilities.

Executive Order 12-06 Reporting Form

Attachment:

Agency Progress in Implementing EO 12-06 (Please attach the EO 12-06 Benchmarking and Retrofit Checklist here.)

Resources:

Go to the DES Portfolio Manager web page for a link to EO 12-06, RCWs, EPA resources and training, Step by Step Instructions, and Frequently Asked Questions at <http://www.des.wa.gov/services/facilities/Energy/EnergyStar>