



STATE OF WASHINGTON
DEPARTMENT OF CORRECTIONS
ADMINISTRATIVE SERVICES DIVISION
CAPITAL PROGRAMS

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November 19, 2014

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 Executive Order Agency Progress Check List. 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 executive order 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 and tracks data overall energy usage at all of our major 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. Our intent is to meet the goal of Executive Order 12-06 goals with the limited resources available.

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

Attachments (2)

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

Executive Order 12-06 Report

ACHIEVING ENERGY EFFICIENCY IN STATE BUILDINGS

December 2014

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 2014 to meet the requirements of EO 12-06:

The Department of Corrections (DOC) since 2009 has accumulated energy usage of electrical, natural gas, fuel oil, and propane at our correctional facilities. DOC major correctional facilities are not managed by individual meters at each building, but by a single or multiple (campus) meter.

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 the 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.

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

Executive Order 12-06	% Reduction	Campus Square Footage ft ²	Source kBtu	Average Source EUI (kBtu/ft ²)
2009 Baseline Source kBtu Summary		6,614,184	1,327,141,828	201
20% kBtu reduction from 2009	20.00%		-265,428,366	
Source kBtu reduction by 2020		6,614,184	1,061,713,462	161
2013 Current Source kBtu Summary		6,939,096	1,219,368,779	176
Adjustment for build-out of program space between 2009 and 2013.		-324,912	-57,094,980	-176
2013 Current comparison with Baseline.	12.42%	6,614,184	1,162,273,798	176
Total kBtu reduction by 2020	-7.58%	6,614,184	-100,560,336	-15

Over the last 8 years DOC has constructed 1.3 million square feet of new space; 45% have 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 13 Energy Saving Performance Contracts (ESPC) at our facilities.

During this reporting period, DOC completed an energy conservation project at the Airway Heights Corrections Center located in Airway Heights, Washington.

Preliminary energy audits were performed at three 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.

Describe benchmarking, metering, audits, and energy retrofits that the agency plans to implement in 2015 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.

Executive Order 12-06 Reporting Form

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

Describe how the agency used Energy Star Portfolio Manager benchmarking in lease negotiations for new or renewed leases in 2014:

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 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:

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

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

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://www.des.wa.gov/services/facilities/Energy/EnergyStar>

Number			Association				Space Type															
DOC	A05120	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #314 Closed	BLDGM4031400	2016	900	X													X
DOC	A05136	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #315 Closed	BLDGM4031500	2964	900	X													X
DOC	A05140	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #316 Closed	BLDGM4031600	2882	900	X													X
DOC	A05187	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #317 Closed	BLDGM4031700	2880	900	X													X
DOC	A05222	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #318 Closed	BLDGM4031800	912	900	X													X
DOC	A05224	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #319 Closed	BLDGM4031900	2880	900	X													X
DOC	A05227	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #320 Closed	BLDGM4032000	2880	900	X													X
DOC	A05289	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #321 Closed	BLDGM4032100	2016	900	X													X
DOC	A05297	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #323 Closed	BLDGM4032300	2964	900	X													X
DOC	A05300	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #324 Closed	BLDGM4032400	2964	900	X													X
DOC	A05308	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #325 Closed	BLDGM4032500	2964	900	X													X
DOC	A05309	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #326 Closed	BLDGM4032600	2964	900	X													X
DOC	A05315	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #328 Closed	BLDGM4032800	2016	900	X													X
DOC	A05332	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #332 Closed	BLDGM4033200	484	900	X													X
DOC	A05336	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #333 Closed	BLDGM4033300	1274	900	X													X
DOC	A05346	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #334 Closed	BLDGM4033400	1560	900	X													X
DOC	A05354	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #402 Closed	BLDGM4040200	2880	900	X													X
DOC	A05360	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #404 Closed	BLDGM4040400	1200	900	X													X
DOC	A05372	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #504 Closed	BLDGM4050400	1080	900	X													X
DOC	A05375	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME SUPERINTENDENT #505 Closed	BLDGM4050500	8960	120	X													X
DOC	A05406	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #507 Closed	BLDGM4050700	1716	900	X													X
DOC	A05416	310	MCNEIL ISLAND CORRECTIONS CENTER	27CAP MICC HOME	MICC ISLAND HOME #506 Closed	BLDGM4050600	1080	900	X													X
DOC	A05423	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		A BLDG ADMIN / OFFENDER PROGRAMS	BLDGF0100100	10200	311		X								X				
DOC	A05428	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		Y BLDG KEY VAULT/WEAPONS STORAGE/IT	BLDGF0100101	1875	503		X								X				
DOC	A05470	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		B BLDG ADMINISTRATION (SHIFT LT/SGT/CAPTAIN/HEARINGS)	BLDGF0100300	9807	50		X								X				
DOC	A05495	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		C BLDG EDUCATION	BLDGF0100500	21094	110		X								X				
DOC	A05497	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		D BLDG KITCHEN/DINING	BLDGF0100700	12990	503		X								X				
DOC	A05523	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		E BLDG (MAINTENANCE/COMPOSTING CENTER)	BLDGF0100900	14669	720		X								X				
DOC	A05524	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		F BLDG STORAGE (VACANT)	BLDGF0101100	8319	50		X												
DOC	A05535	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		X BLDG 256-BED MSU	BLDGF0101200	40742	503		X								X				
DOC	A05547	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		H BLDG MENTAL HEALTH BUILDING	BLDGF0101700	4360	800		X								X				
DOC	A05562	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		W BLDG KENNEL/CHEMICAL DEPENDENCY	BLDGF0101800	6171	503		X								X				
DOC	A05568	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		U BLDG GYMNASIUM BUILDING	BLDGF0101900	12320	503		X								X				
DOC	A05572	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		I BLDG INSTITUTIONAL INDUSTRIES	BLDGF0102000	7000	720		X								X				
DOC	A05573	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		Z BLDG SPECIAL NEEDS UNIT (SNU)	BLDGF0102100	55500	503		X								X				
DOC	A05606	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		AC BLDG KENNEL	BLDGF0102500	4050	503		X								X				
DOC	A05635	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		AB BLDG PLANT OPS	BLDGF0103100	1449	720		X								X				
DOC	A05647	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		WELL #1 PUMP HOUSE	BLDGF0103500	68	720	X													X
DOC	A05669	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		WELL #2 PUMP HOUSE	BLDGF0103600	100	720	X													X
DOC	A05688	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		J BLDG 100 BED HOUSING	BLDGF0103900	15240	503		X								X				
DOC	A05691	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		K BLDG 100 BED HOUSING	BLDGF0104000	15240	503		X								X				
DOC	A05703	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		L BLDG 100 BED HOUSING	BLDGF0104100	15240	503		X								X				
DOC	A05720	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		M BLDG RECORDS/LIBRARY/LAUNDRY	BLDGF0104200	6240	503		X								X				
DOC	A05727	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		N BLDG MSC DINING	BLDGF0104300	5184	503		X								X				
DOC	A05736	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		O BLDG PROGRAM SERVICES	BLDGF0104400	10180	110		X								X				
DOC	A05761	310	WASHINGTON CORRECTIONS CENTER/WO 27CAP WCCW		P BLDG CREW ROOM\INDUSTRIES	BLDGF0104500	11520	503		X								X				

