

Executive Order 12-06 Report

ACHIEVING ENERGY EFFICIENCY IN STATE BUILDINGS

December 2015

| | |
|---------------------------------|-----------------------------------|
| Agency Name: | Department of Enterprise Services |
| Agency Point of Contact: | Ron Major |
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Describe benchmarking, metering, audits, and energy retrofits completed by the agency in 2015 to meet the requirements of EO 12-06:

DES continues to invest in conservation across the Capitol Campus and other DES facilities.

- **DES completed the Chilled water plant retrofit.**
- **Audited the Exterior Capitol Campus Lighting.**
- **Continues to expand the building Sub-metering.**
- **Supports the Resource Conservation Management program to identify low-cost operational improvements.**
- **Provided Technical and Labor resources to retrofit the L&I headquarters Building exterior lighting to LEDs**
- **HVAC improvements to the Records Center building through the ESPC program.**

Describe benchmarking, metering, audits, and energy retrofits that the agency plans to implement in 2016 to meet the requirements of EO 12-06:

- **District Energy Audit: Conduct an Investment grade audit of the Capitol Campus Steam system. This audit will develop a project to convert the Steam system to hot water, integrate Combined Heat and Power to generate electricity and expand the chilled water system to reduce**

Executive Order 12-06 Reporting Form

energy use of East campus Buildings. This effort will create a District Energy System for the Capitol Campus to improve the energy efficiency of the system, the Carbon foot print and provide a more reliable and safe system to heat and cool the Capitol Campus.

- Capitol Campus Exterior Lighting Project: Replace existing exterior HID lighting on Capitol Campus energy efficient LED lighting.**
- Install an Energy Tracking Dashboard for Capitol Campus Buildings.**
- Investigate solar PV and solar Thermal opportunities on Capitol Campus.**

Describe how the agency used Energy Star Portfolio Manager benchmarking in lease negotiations for new or renewed leases in 2015:

Used the ESPM score to evaluate the building performance.

Describe actions that will be taken in 2016 to save energy through operational changes and continuous monitoring using Portfolio Manager:

We will continue to adjust schedules and set points based on a variety of data sources. Energy Star Portfolio Manager being one.

Attachment:

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

Executive Order 12-06 Reporting Form

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>

| Agency | Unique Facility Identifier | Agency SAAM Number | Agency Assigned Regional Name | Agency Assigned Regional Number | Agency Common Name | Agency Assigned Number | Agency Assigned Associated Complex, Campus, Regional Center | 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 |
|--------|----------------------------|--------------------|-------------------------------|---------------------------------|------------------------------------|------------------------|---|----------------------|--------------------|--------------------------|-----------------------|------------------------|--|-------------------------------|---|---|---|----------------------------------|----------------------------------|---------------------------------------|-----------------------------------|---------------------------------------|--|
| DES | A00023 | 179 | | | ARCHIVES | 45 | EAST CAPI | 51317 | 730 | | | | x | | | x | | | | | | x | x |
| DES | A00066 | 179 | | | TACOMA RHODES - MARKET BUILDING | 451 | OUTSIDE T | 111275 | 310 | | | | x | | | | | | | | | x | x |
| DES | A00068 | 179 | | | WASHINGTON STREET BLDG | 39 | OFF CAMP | 14580 | 750 | | | | x | | | x | | | | | | x | x |
| DES | A00386 | 179 | | | CAPITOL COURT | 48 | OFF CAMP | 40948 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A00456 | 179 | | | YAKIMA OFFICE | 410 | OUTSIDE T | 99000 | 312 | | | | x | | | x | | | | | | x | x |
| DES | A00627 | 179 | | | POWER HOUSE | 65 | WEST CAPI | 10000 | 790 | | | | x | | | x | | | | | | x | x |
| DES | A00742 | 179 | | | KELSO | 412 | OUTSIDE T | 60308 | 312 | | | | x | | | x | | | | | | x | x |
| DES | A00833 | 179 | | | STATE FARM BLDG | 8 | OFF CAMP | 1539 | 311 | | | x | x | | | | | | | | | x | x |
| DES | A00884 | 179 | | | CAPITOL CONSERVATORY - GREENHOUSE | 60 | WEST CAPI | 11300 | 90 | | | x | x | | | | | | | | | x | x |
| DES | A01035 | 179 | | | ALASKA STREET | 458 | OUTSIDE T | 28800 | 312 | | | | x | | | x | | | | | | x | x |
| DES | A01060 | 179 | | | OFFICE BUILDING #2 | 72 | EAST CAPI | 379204 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A01242 | 179 | | | HIGHWAY-LICENSE | 30 | EAST CAPI | 224701 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A01254 | 179 | | | COMMISSARY, BLDG #27 | 582 | NORTH CA | 23888 | 730 | | | x | | | | x | | | | | | x | x |
| DES | A01258 | 179 | | | FIRE HALL, BLDG #29 | 583 | NORTH CA | 1500 | 720 | | | x | | | | x | | | | | | x | x |
| DES | A01356 | 179 | | | NRB GARAGE | 12 | PARKING F | 394200 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A01357 | 179 | | | COLUMBIA STREET GARAGE | 43 | PARKING F | 71000 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A01508 | 179 | | | CARLYON PRESS HOUSE | 94 | WEST CAPI | 5600 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A01538 | 179 | | | PRO ARTS | 9 | OFF CAMP | 11243 | 50 | | | x | | | | x | | | | | | x | x |
| DES | A01547 | 179 | | | COTTAGE #7, BLDG #45 | 578 | NORTH CA | 2200 | 50 | | | x | x | | | | | | | | | x | x |
| DES | A01620 | 179 | | | ISABELLA BUSH RECORDS CENTER | 46 | OFF CAMP | 47200 | 730 | | | x | | | | x | | | | | | x | x |
| DES | A01751 | 179 | | | MODULAR BLDG (LOW BAY) | 51 | OFF CAMP | 40000 | 730 | | | x | | | | x | | | | | | x | x |
| DES | A01923 | 179 | | | UNION AVENUE BLDG | 38 | OFF CAMP | 12900 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A01935 | 179 | | | LANDSCAPE - CLASSROOM A, BLDG #33A | 533 | NORTH CA | 1320 | 310 | | | x | x | | | | | | | | | x | x |
| DES | A02155 | 179 | | | MODULAR BLDG (HIGH BAY) | 36 | OFF CAMP | 57290 | 730 | | | x | | | | x | | | | | | x | x |
| DES | A02168 | 179 | | | CAPITOL PARK | 37 | OFF CAMP | 57500 | 90 | | | x | | | | | | | | | | x | x |
| DES | A02373 | 179 | | | GOV MANSION GUARD POST#3 | | WEST CAPI | 60 | 590 | | | x | x | | | J | | | | | | x | x |
| DES | A02641 | 179 | | | NATURAL RESOURCES | 11 | EAST CAPI | 387558 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A02768 | 179 | | | DOUGLAS, BLDG #4 | 562 | NORTH CA | 90000 | 800 | | | x | | | | x | | | | | | x | x |
| DES | A03310 | 179 | | | APARTMENT BLDG #42 (APT. #1-4) | 574 | NORTH CA | 6212 | 310 | | | x | x | | | | | | | | | x | x |
| DES | A03394 | 179 | | | ADMIN, BLDG #32 | 596 | NORTH CA | 22741 | 311 | | | x | x | | | | | | | | | x | x |
| DES | A03424 | 179 | | | PLANER SHOP, BLDG #25 | 591 | NORTH CA | 1952 | 110 | | | x | x | | | | | | | | | x | x |
| DES | A03702 | 179 | | | TACOMA RHODES - PARKING GARAGE | 452 | OUTSIDE T | 181728 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A03835 | 179 | | | POWERHOUSE-STEAM PLANT, BLDG #19 | 593 | NORTH CA | 17697 | 790 | | | x | | | | x | | | | | | x | x |
| DES | A03891 | 179 | | | TREVENNEN HALL, BLDG #35 | 526 | NORTH CA | 13736 | 90 | | | x | x | | | | | | | | | x | x |
| DES | A04007 | 179 | | | JOEL M PRITCHARD | 25 | WEST CAPI | 55485 | 90 | | | x | | | | x | | | | | | x | x |
| DES | A04245 | 179 | | | KITCHEN/FREEZER, BLDG #13 | 586 | NORTH CA | 22994 | 750 | | | x | | | | x | | | | | | x | x |
| DES | A04625 | 179 | | | GENERAL ADMINISTRATION GARAGE | 81 | PARKING F | 67100 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A04737 | 179 | | | COTTAGE #8, BLDG #46 | 579 | NORTH CA | 2200 | 50 | | | x | x | | | | | | | | | x | x |
| DES | A04761 | 179 | | | THOMPSON HALL/EVERGREEN, BLDG #15 | 569 | NORTH CA | 17260 | 900 | | | x | x | | | | | | | | | x | x |
| DES | A04798 | 179 | | | VALDEZ HALL/CHALLENGER, BLDG #16 | 571 | NORTH CA | 17260 | 900 | | | x | x | | | | | | | | | x | x |
| DES | A04831 | 179 | | | TRANSPORTATION GARAGE | 52 | PARKING F | 157800 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A04876 | 179 | | | INTERPRETIVE CENTER | 68 | PARKS & G | 757 | 508 | | | x | | | | x | | | | | | x | x |
| DES | A04895 | 179 | | | CARPENTRY, BLDG #22 | 580 | NORTH CA | 3477 | 720 | | | x | x | | | | | | | | | x | x |
| DES | A04943 | 179 | | | GENERAL ADMINISTRATION | 80 | WEST CAPI | 283865 | 310 | | | x | | | | x | | | | | | x | x |
| DES | A04978 | 179 | | | VISITORS INFORMATION CENTER | 82 | WEST CAPI | 1500 | 312 | | | x | | | | x | | | | | | x | x |
| DES | A05126 | 179 | | | COTTAGE #6/SECURITY, BLDG #34 | 577 | NORTH CA | 912 | 312 | | | x | x | | | | | | | | | x | x |
| DES | A05316 | 179 | | | FRASER HALL, BLDG #6 | 564 | NORTH CA | 22162 | 90 | | | x | | | | x | | | | | | x | x |
| DES | A05419 | 179 | | | PLAZA GARAGE | 97 | PARKING F | 846100 | 740 | | | x | | | | x | | | | | | x | x |
| DES | A05508 | 179 | | | DENNY, BLDG #3 | 561 | NORTH CA | 112000 | 90 | | | x | | | | x | | | | | | x | x |
| DES | A05534 | 179 | | | APARTMENT BLDG #43 (APT. #5-8) | 574 | NORTH CA | 6212 | 50 | | | x | | | | x | | | | | | x | x |
| DES | A05723 | 179 | | | SMITH HALL/RAINIER, BLDG #12 | 568 | NORTH CA | 17260 | 900 | | | x | | | | x | | | | | | x | x |
| DES | A05760 | 179 | | | AERATOR, BLDG #20 | 597 | NORTH CA | 2000 | 90 | | | x | | | | x | | | | | | x | x |
| DES | A05953 | 179 | | | EAST CAMPUS PUBLIC RESTROOMS | 96 | EAST CAPI | 718 | 508 | | | x | | | | x | | | | | | x | x |
| DES | A06024 | 179 | | | 721 COLUMBIA | 41 | WEST CAPI | 3169 | 730 | | | x | | | | x | | | | | | x | x |
| DES | A06245 | 179 | | | CULTURAL CENTER, BLDG #30 | 588 | NORTH CA | 9520 | 650 | | | x | | | | x | | | | | | x | x |
| DES | A06254 | 179 | | | GARAGE/CICC MAINTENANCE, BLDG #28 | 584 | NORTH CA | 2836 | 720 | | | x | | | | x | | | | | | x | x |
| DES | A06349 | 179 | | | GRAY HALL, BLDG #7 | 565 | NORTH CA | 22162 | 90 | | | x | | | | x | | | | | | x | x |

| Agency | Unique Facility Identifier | Agency SAAM Number | Agency Assigned Regional Name | Agency Assigned Regional Number | Agency Common Name | Agency Assigned Number | Agency Assigned Associated Complex, Campus, Regional Center | 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 |
|--------|----------------------------|--------------------|-------------------------------|---------------------------------|---|------------------------|---|----------------------|--------------------|--------------------------|-----------------------|------------------------|--|-------------------------------|---|---|---|----------------------------------|----------------------------------|---------------------------------------|-----------------------------------|---------------------------------------|--|
| DES | A06364 | 179 | | | HERITAGE PARK (RESTROOMS) | 67 | PARKS & G | 2048 | 508 | | | | x | | | x | | | | | | x | x |
| DES | A06456 | 179 | | | LEGISLATIVE BLDG | 5 | WEST CAPI | 255564 | 310 | | | | x | | | x | | | | | | | x |
| DES | A06543 | 179 | | | SOILS SHED | 23 | PARKS & G | 1344 | 730 | | | | x | x | | | | | | | x | | x |
| DES | A06586 | 179 | | | INSURANCE BLDG | 70 | WEST CAPI | 66502 | 310 | | | | x | | | x | | x | | | | | x |
| DES | A06791 | 179 | | | AYER PRESS HOUSE | 98 | WEST CAPI | 3727 | 310 | | | | x | | | x | | | | | | | x |
| DES | A06856 | 179 | | | TACOMA RHODES - BROADWAY BLDG | 450 | OUTSIDE T | 125058 | 310 | | | | x | | | x | | | | | | | x |
| DES | A07296 | 179 | | | JOHN A CHERBERG | 10 | WEST CAPI | 100377 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A07345 | 179 | | | LANDSCAPE - CLASSROOM B, BLDG #33B | 534 | NORTH CA | 630 | 310 | | | | x | | | x | | | | | | | x |
| DES | A07504 | 179 | | | RSN - REGIONAL SUPPORT NETWORK, BLDG #4 | 501 | NORTH CA | 9000 | 50 | | | | x | | | x | | | | | | | x |
| DES | A07674 | 179 | | | GATEHOUSE, BLDG #41 | 585 | NORTH CA | 200 | 90 | | | | x | | | x | | | | | | | x |
| DES | A07742 | 179 | | | WILKES HALL/WHITE WATER, BLDG #17 | 572 | NORTH CA | 23046 | 900 | | | | x | | | x | | | | | | | x |
| DES | A07827 | 179 | | | MARATHON PARK BLDG RESTROOMS | 61 | PARKS & G | 800 | 508 | | | | x | | | x | | | | | | x | x |
| DES | A07980 | 179 | | | PLUMBING, BLDG #22 | 592 | NORTH CA | 2200 | 720 | | | | x | | | x | | | | | | | x |
| DES | A08267 | 179 | | | TRANSPORTATION | 50 | EAST CAPI | 204053 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A08269 | 179 | | | LAUNDRY TRADES, BLDG #31 | 587 | NORTH CA | 12000 | 110 | | | | x | | | x | | | | | | | x |
| DES | A08306 | 179 | | | GOV MANSION GUARD POST #2 | | WEST CAPI | 120 | 590 | | | | x | | | x | | | | | | | x |
| DES | A08414 | 179 | | | PERRY STREET CHILD CARE CENTER | 91 | OFF CAMP | 7138 | 590 | | | | x | | | x | | | | | | | x |
| DES | A08454 | 179 | | | COLEMAN, BLDG #2 | 560 | NORTH CA | 22162 | 110 | | | | x | | | x | | | | x | | | x |
| DES | A08727 | 179 | | | IRVING R NEWHOUSE | 15 | WEST CAPI | 25084 | 310 | | | | x | | | x | | | | | | | x |
| DES | A08889 | 179 | | | HUB/CONFERENCE CTR, BLDG #14 | 581 | NORTH CA | 12092 | 350 | | | | x | | | x | | | | | | | x |
| DES | A08927 | 179 | | | RECREATION, BLDG #10 | 594 | NORTH CA | 13328 | 650 | | | | x | | | x | | | | | | | x |
| DES | A09150 | 179 | | | GOV MANSION GUARD POST#1 | | WEST CAPI | 20 | 590 | | | | x | x | | | | | | | | | x |
| DES | A09161 | 179 | | | TEMPLE OF JUSTICE | 75 | WEST CAPI | 85900 | 310 | | | | x | | | x | | | | | | | x |
| DES | A09203 | 179 | | | PAINT SHOP, BLDG #24 | 525 | NORTH CA | 2070 | 110 | | | | x | | | x | | | | | | | x |
| DES | A09336 | 179 | | | FILTER (PUMP HOUSE), BLDG #21 | 598 | NORTH CA | 2500 | 730 | | | | x | | | x | | | | | | | x |
| DES | A09350 | 179 | | | JOHN L O'BRIEN | 20 | WEST CAPI | 100700 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A09946 | 179 | | | JAMES M DOLLIVER | 47 | OFF CAMP | 23385 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A09950 | 179 | | | OLD CAPITOL | 35 | WEST CAPI | 120500 | 310 | | | | x | | | x | | | | | | x | x |
| DES | A09982 | 179 | | | GOVERNORS MANSION | 55 | WEST CAPI | 21400 | 900 | | | | x | | | x | | | | | | x | x |
| DES | A10078 | 179 | | | LUMBER STORAGE, BLDG #23 | | NORTH CA | 1560 | 730 | | | | x | | | x | | | | | | | x |
| DES | A10151 | 179 | | | WEST CAMPUS PUBLIC RESTROOMS | | WEST CAPI | 693 | 508 | | | | x | | | x | | | | | | | x |
| DES | A10193 | 179 | | | CARPORT, BLDG #58 | | NORTH CA | 600 | 740 | | | | x | | | x | | | | | | | x |
| DES | A10445 | 179 | | | GA BLOCK HOUSE | | WEST CAPI | 64 | 90 | | | | x | | | x | | | | | | | x |
| DES | A10665 | 179 | | | GOVERNORS MANSION GARAGE | | WEST CAPI | 651 | 740 | | | | x | | | x | | | | | | | x |
| DES | A10768 | 179 | | | RELOCATED CARRIAGE HOUSE | | NORTH CA | 480 | 730 | | | | x | | | x | | | | | | | x |