

Mike Wirkkula, Energy Analyst
Maintenance Section
Enterprise Asset Management Division
Department of Administrative Services Agency

2016 SUSTAINABILITY PLAN UPDATE



DAS DEPARTMENT OF
ADMINISTRATIVE
S E R V I C E S

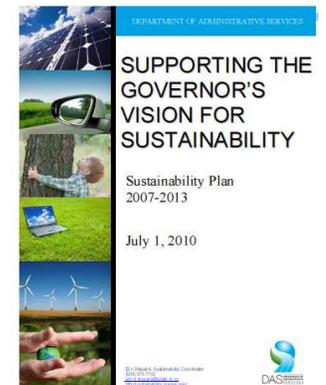
SUSTAINABILITY PROGRAM

DEPARTMENT OF ADMINISTRATIVE SERVICES

- ✘ **SUSTAINABILITY PLAN EXECUTIVE SUMMARY:** “The Department of Administrative Services leads state government by providing an array of services which include budget development, procurement, human resources, IT support, surplus property management and many others. Since DAS acts as the principle vehicle for realizing the Governor’s executive goals, the department will serve as state government’s main resource in achieving and maintaining sustainable practices.”
- ✘ **MISSION:** To serve state government to benefit the people of Oregon.
- ✘ **VISION:** By taking an enterprise view of government operations, we implement cost-effective, efficient, and sustainable policies and practices.
- ✘ **VALUES:** Sustainability: We act today to meet Oregon’s present and future needs.
- ✘ DAS has 740 employees & owns 45 facilities totaling 3.4 million sq.ft occupied by 8,214 tenants

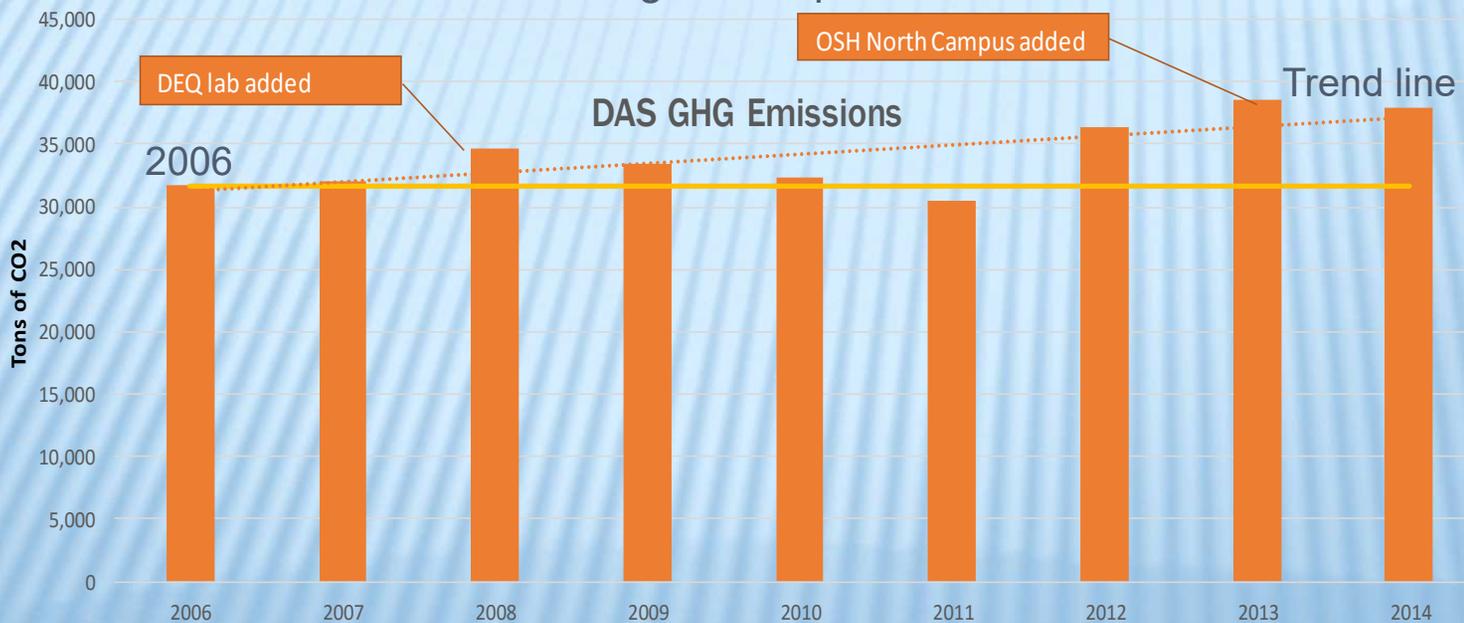


DAS DEPARTMENT OF
ADMINISTRATIVE
SERVICES
SUSTAINABILITY PROGRAM



1. GREENHOUSE GAS EMISSIONS

- ✘ By 2010, stop the growth of greenhouse gas emissions; by 2020, reduce greenhouse gas emissions to 10 percent below 1990 levels; by 2050, reduce emissions to 75 percent below 1990 levels, and fully stabilize and eliminate their negative impacts.

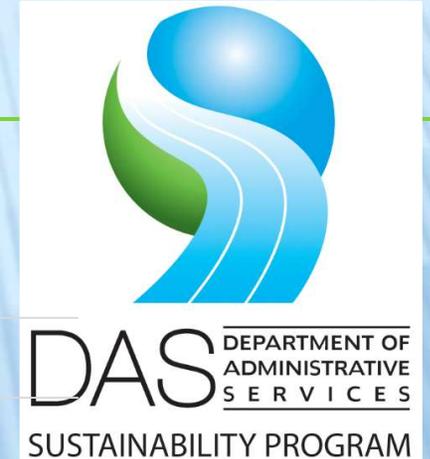
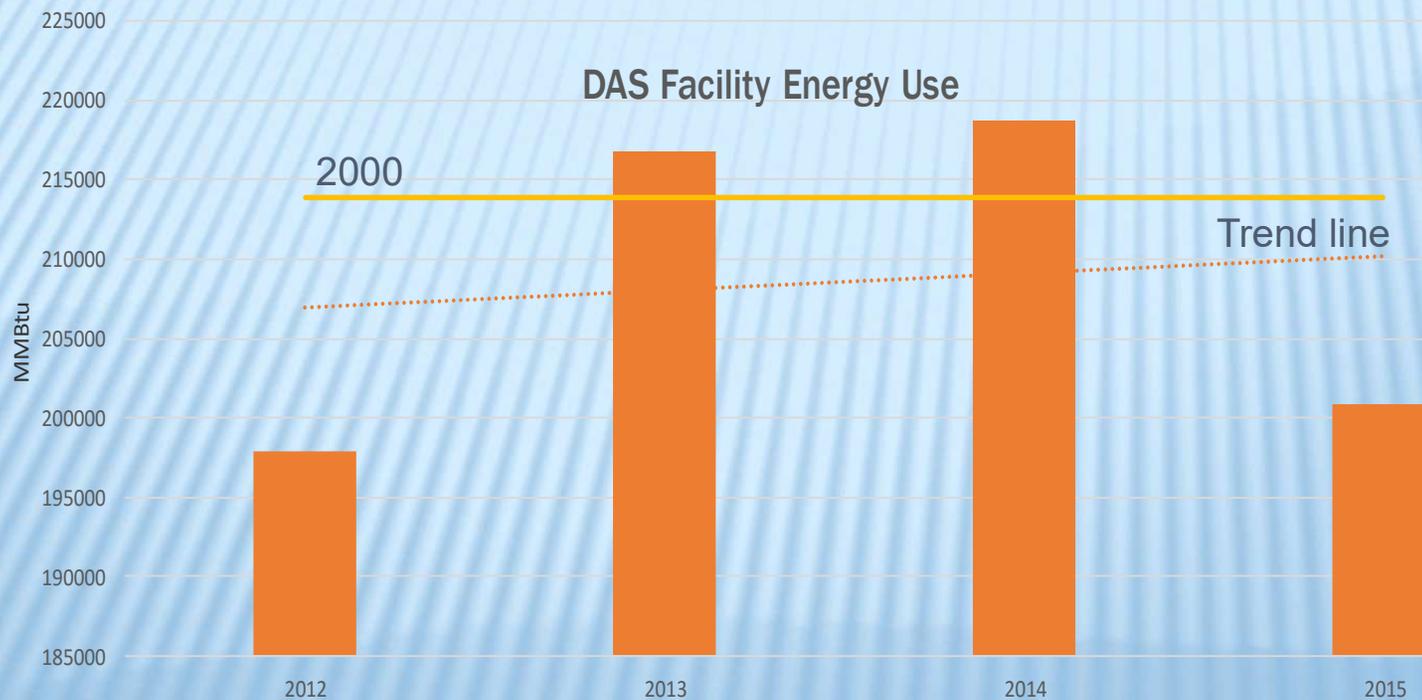


DAS DEPARTMENT OF
ADMINISTRATIVE
SERVICES
SUSTAINABILITY PROGRAM

**2014 DAS
facility & fleet
GHG
emissions
were 20%
greater than
the 2006
baseline**

2. STATE GOVERNMENT ENERGY SAVINGS

- ✘ By 2015, reduce energy consumption by 20 percent (based on energy consumption in 2000)

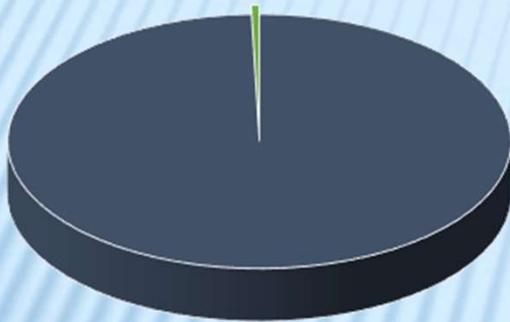


**2015 DAS
facility energy
use was 6%
less than the
2000
baseline**

3. STATE GOVERNMENT ELECTRICITY SOURCES

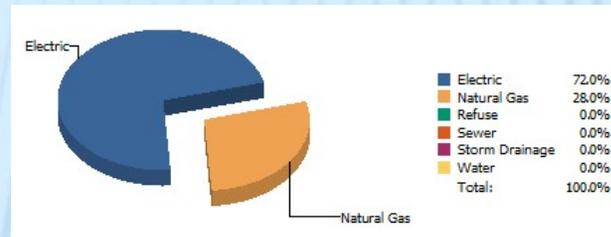
- ✦ By 2025, achieve 100 percent of state government's electrical needs through renewable resources

DAS Facility Electricity Sources

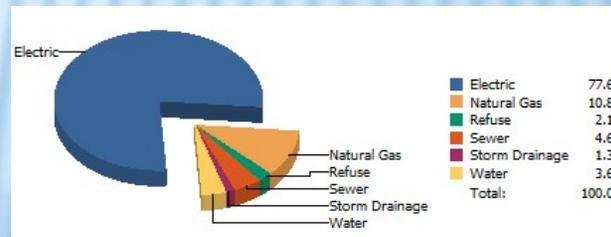


■ Standard Power Mix ■ Renewable Power

DAS Energy Use Percentages



DAS Utility Cost Percentages



10 kW solar array in Pendleton, Oregon. 12,480 kWh generated annually, by calculation.

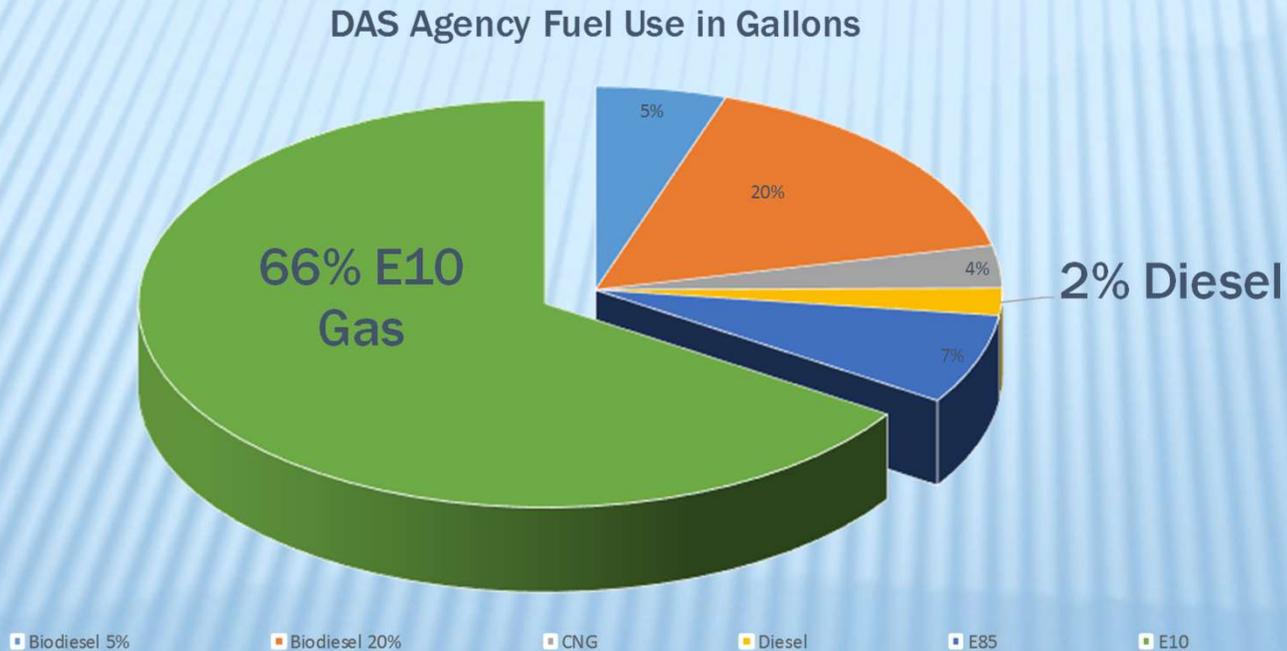


DAS DEPARTMENT OF ADMINISTRATIVE SERVICES
SUSTAINABILITY PROGRAM

Less than 0.001% of DAS electricity is from renewable sources

4. STATE GOVERNMENT USE OF ALTERNATIVE FUELS

- ✦ Actively pursue the use of alternative fuels (i.e. biodiesel, ethanol, natural gas and electric.) in state fleets.



DAS DEPARTMENT OF
ADMINISTRATIVE
SERVICES
SUSTAINABILITY PROGRAM

**Alternative
fuels made
up 32% of
DAS vehicle
gallons used
& emissions
in 2014**

5. STATE GOVERNMENT SUSTAINABLE PROCUREMENT

- ✘ Collaborate and coordinate on regional purchasing strategies to harness purchasing power and maximize environmental and economic value. In addition, develop a program to ensure that all state agencies “green the supply chain” by ensuring that the state uses its purchasing power to stimulate production of more sustainable product and services.

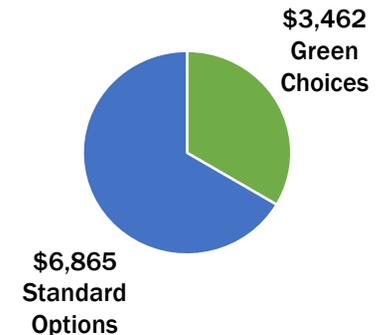


\$151,374
Green Choices



DAS DEPARTMENT OF ADMINISTRATIVE SERVICES
SUSTAINABILITY PROGRAM

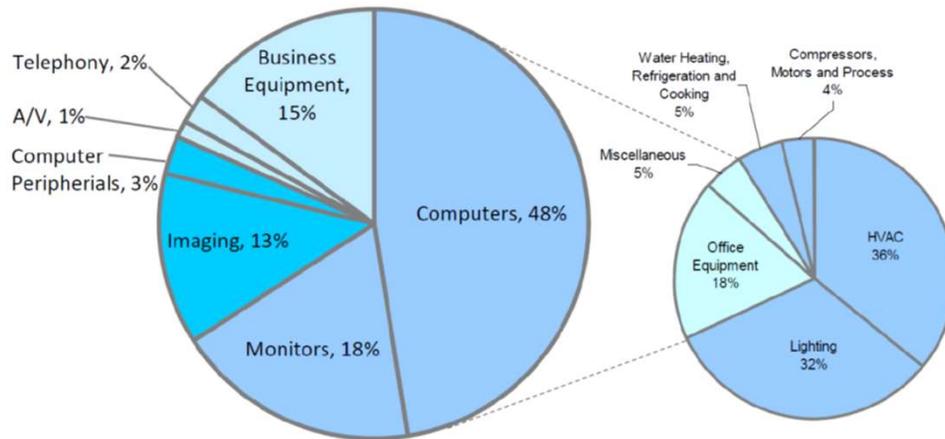
O&M Office Supplies



6. SUSTAINABLE INFORMATION TECHNOLOGY

- ✘ Commit to buying high-efficiency IT systems for state government; join the Climate Savers Computing Initiative.

“Plug load” in office buildings is mostly computers



- Source: *Office Plug Load Field Monitoring Report*, CEC, October 2008.
- CA study of 47 buildings that metered 7,000 plug load devices.
- Business equipment = paper shredders, adding machines, portable lamps, and coffee makers.



DAS DEPARTMENT OF ADMINISTRATIVE SERVICES
SUSTAINABILITY PROGRAM

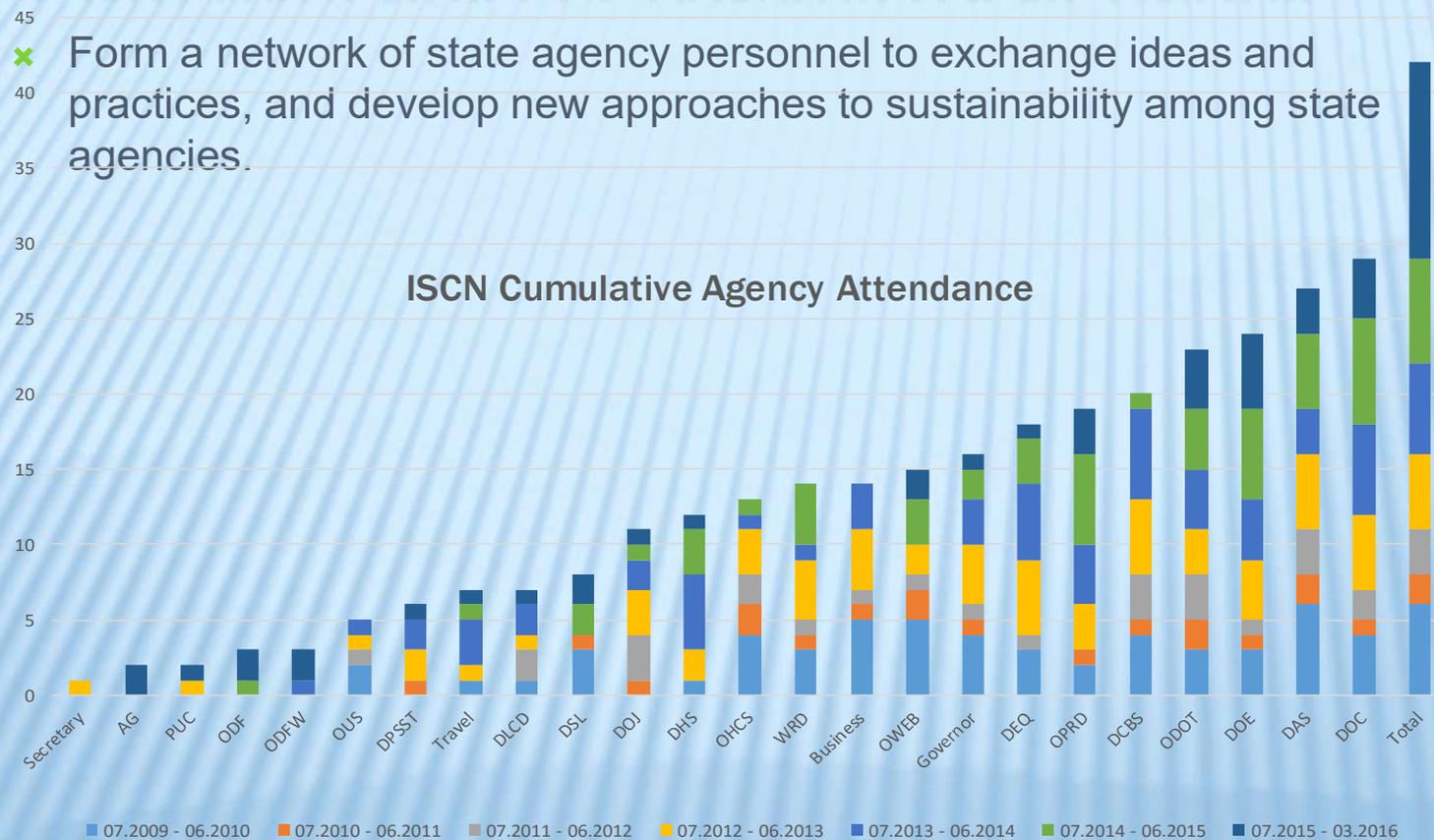
A new IT goal is needed



7. INTERAGENCY SUSTAINABILITY NETWORK

✦ Form a network of state agency personnel to exchange ideas and practices, and develop new approaches to sustainability among state agencies.

ISCN Cumulative Agency Attendance



DAS DEPARTMENT OF ADMINISTRATIVE SERVICES
SUSTAINABILITY PROGRAM

42 ISCN meetings have been supported by DAS staff since 2009

SHORT TERM SUSTAINABILITY GOALS

- ✦ Goals that can be achieved in 1-3 years with current budget & staffing
 - + **Focus on energy**
 - ✦ DAS needs a dedicated energy analyst to manage facilities. Additional staff is required to operate a sustainability program and meet state goals
 - + **Complete the EnergyCAP historical utility database**
 - ✦ Foundation of the DAS Sustainability program
 - ✦ Enables the measurement and management of resources
 - + **Implement an internal energy policy**
 - ✦ First step in Strategic Energy Management (SEM) program
 - ✦ Commitment to an energy goal, signed by agency executives
 - + **Revise the statewide resource conservation policy**
 - ✦ Potential to require compliance through Uniform Rent lease agreements
 - + **Support the capital improvement and budget process**
 - ✦ Provide cost and performance data, energy studies and new information the to decision makers in DAS
 - ✦ Earn a seat at the table to voice the sustainability perspective



DAS DEPARTMENT OF
ADMINISTRATIVE
SERVICES

SUSTAINABILITY PROGRAM

**What I can do
as an Energy
Analyst
working in
Enterprise
Asset
Management**

LONG TERM SUSTAINABILITY GOALS

- ✘ Planned or stretch goals for the next 3+ years that may required changes to agency plans, procedures or structure to accomplish
 - + **Oregon Sustainability Board intervention**
 - ✘ DAS needs a culture change to truly make sustainability a value of the state enterprise
 - ✘ Someone at the executive level needs to be a champion for sustainability
 - + **Create a Sustainability Coordinator position**
 - ✘ Full-time position with an independent budget at the executive leadership level
 - + **Write a new DAS sustainability plan**
 - ✘ Guiding document that incorporates all state policy and can be used as a template for other agencies
 - + **Support a new statewide sustainability policy**
 - ✘ Fresh goals by existing leaders utilizing the current organizational structure
 - ✘ Simple, clear targets with accountability and enforcement
 - + **Participate in formal sustainability reporting as an agency**
 - ✘ Produce a biennial Corporate Sustainability Report using a framework like the Global Reporting Initiative



DAS DEPARTMENT OF
ADMINISTRATIVE
SERVICES
SUSTAINABILITY PROGRAM

**DAS does not
currently
have a
Sustainability
Coordinator
or any Green
Teams**

SUCCESSSES !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!

- ✘ Fall 2014 – Green Chemistry Procurement Guidelines
 - + Janitorial products purchase agreement and statewide policy
- ✘ Spring 2015 – Capitol Mall Area LED Retrofit Project
 - + 220 historic lampposts, \$47,000 Energy Trust incentive, custom made LED fixtures in Portland by rehabilitation workers, dark sky compliant
- ✘ Summer 2015 EAM – Computer Power Management
 - + All workstations (about 200) under the authority of EAM ETS are swept off at 6pm nightly. Request has been submitted to apply the setting agency wide
- ✘ Summer 2015 EO – 15-09 Irrigation Reduction Action
 - + Runtimes reduced for landscape irrigation by 15% in planting beds and 25% over turf
- ✘ Fall 2015 – EnergyCAP Utility Management Database
 - + Ability to baseline, track, study and report utility data with accuracy and confidence
- ✘ Spring 2016 – Motion Sensor Power Strip Pilot Project
 - + Working with the North Mall Office Building green team, retrofit the entire Water Resources Department (150+ workstations) in the
- ✘ Spring 2016 – State Agency Sustainability Metrics
 - Interagency Sustainability Coordinators Network, in cooperation with the Oregon Sustainability Board developed shared metrics to for use by all state agencies

For more info . . . Contact Mike Wirkkula, Energy Analyst at michael.j.wirkkula@oregon.gov



DAS **DEPARTMENT OF
ADMINISTRATIVE
SERVICES**

SUSTAINABILITY PROGRAM