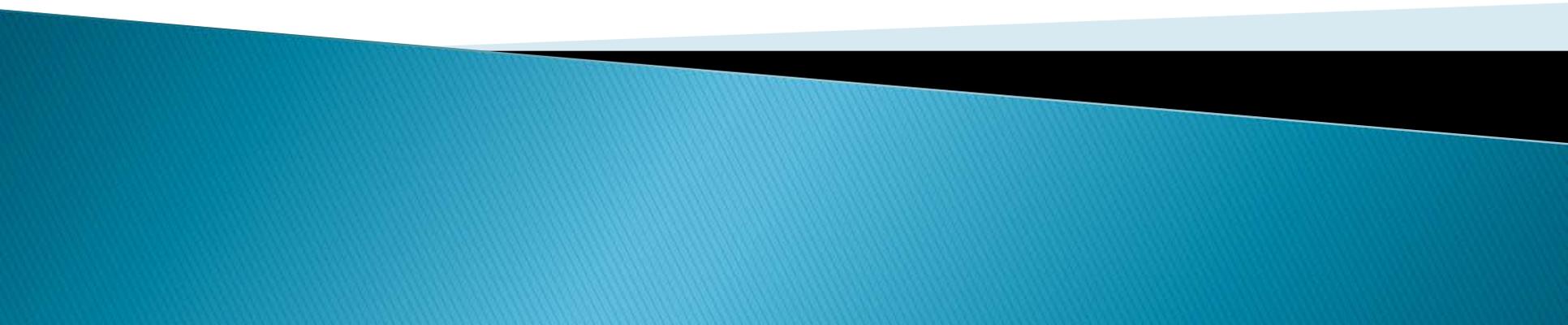


Department of Natural Resources

Facility Energy Action Overview

July 22, 2010



Our Energy Strategy

- ▶ Proactive Internal Policy
 - ▶ Track Usage
 - ▶ Identify Energy Hogs
 - ▶ Reduce Energy Usage
 - ▶ Educate Stakeholders
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Proactive Internal Policy

- ▶ 2006 – Anticipating tightened legislative requirements, DNR has taken a proactive stance on energy tracking, efficient design, and building energy auditing.
 - Accessed earliest possible records
- ▶ Established the LEED grading system as the guideline for new project design and construction for buildings 5000 s.f. or more.
- ▶ In-house LEED AP to aid in project and policy planning

Track Usage, Gather Past Data

- ▶ Dilemmas
 - Buildings all over the state, using dozens of PUDs
 - Meter mix complexity
 - Ongoing reporting logistics
 - User Interface, Budget
- ▶ Custom Database for 2008
 - Compiled energy usage data for each facility as available as of October 2008; this includes all past data and ongoing data, some dating back as far as 4 years.
- ▶ Migrated to Portfolio Manager in 2010

Identify Energy Hogs

- ▶ Statewide facility energy audits
 - Highlight problem areas
 - Prioritize maintenance funds
 - ▶ Establish ongoing auditing procedures
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Reduce Usage and Footprint

- ▶ Retro Commissioning of region headquarters
 - Sedro Woolley, Ellensburg
 - Castle Rock, Enumclaw
- ▶ Leverage PUD Rebates
- ▶ Use data to prioritize projects
 - Audit Data
 - Usage Data (relative to similar facilities)
 - PUD Rebates and Incentives
- ▶ Utilize internal crews to further reduce project costs
 - Reduce capital expenditures, quicken payoff period

Educate Stakeholders

- ▶ Goals:
 - Decentralize database management
 - Track and report progress constantly
 - Equip agency employees
 - ▶ Plan: 5 Regions, each reporting their own usages
 - ▶ Internal Publication: 'Climate Shout Out'
 - Educate and equip agency employees
 - Small actions = big change
 - Encourage feedback and Participation
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Newsletter Topics

- ▶ **June** – General Introduction
 - Lighting Habits
 - Turning lights off (coffee bar, restrooms, and meeting rooms)
 - ▶ **July** – Optimizing A/C Use
 - Weekend AC operation, daily AC operation.
 - ▶ **August** – GHG Awareness
 - Stats and facts, translated into DNR's business outputs.
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Newsletter Topics

- ▶ **September** – Workstation habits for saving energy
 - ▶ **October** – Lighting refresh/version 2
 - ▶ **November** – Why does it feel cold in our building?
 - How to stay warm at your workstation.
 - ▶ **December** – Tips for reducing your carbon footprint
 - Saving money on energy; personally and professionally.
 - ▶ **January** – Heating system tips for optimized performance and energy savings.
 - Sealing and insulating buildings.
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Newsletter Topics

- ▶ **February** – Commute GHG Reduction: Tips to optimize your car for savings on the move!
- ▶ **March** – Recycling and its importance.
- ▶ **April** – Reducing GHG emissions through operational considerations.
 - Vehicle type and use, paper use, water, lighting, heating schedules.
- ▶ **May** – Personal tracking and goal setting for GHG reduction in the workplace and at home.