



**For Businesses**



**For Homes**



**Renewable Energy**



**For Trade Allies**



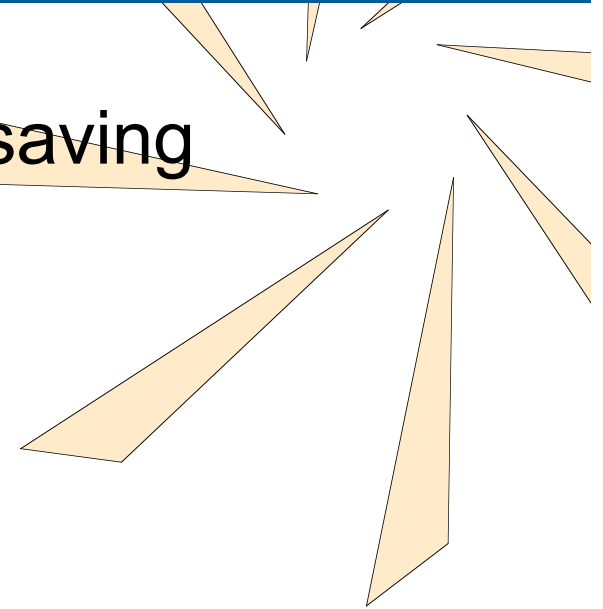
**About Us**

# Cascadia Region Green Building Council – LEED EB

**Date: April 13, 2007**

# When to call

- Assistance in determining energy saving potential
- General equipment upgrades
- Tenant improvements
- New construction
- Controls tune



# Projects to consider

- Controls tune-up
- Water conservation measures with associated pump savings
- General equipment replacement

# Project Example

- Controls upgrade
  - Incentive \$20,000
  - Estimated annual energy savings \$28,000
  - Implementation \$100,000
  - Payback: just over two years

\*\*\* excludes O&M costs

# Project Example

- Boilers
  - Incentive \$24000
  - BETC credit \$70000
  - Estimated annual energy savings \$16,500
  - Installation \$200,000

Over 1/2 of the project cost was offset by energy savings and program assistance

# Energy Trust Programs - Commercial

- Existing Building Efficiency – Liesl Karasaki  
503/243.1712
- New Building Efficiency – Anna Johnson  
503/243.2642
- Renewable Energy - 503/493.8888
- Information about the programs can be found at  
[www.energytrust.org](http://www.energytrust.org)

# Existing Building - Prescriptive

- **Lighting** (equipment must equal or better the specifications listed in the lighting worksheet)
- **Motors** (\$10/hp up to 200 hp; efficiency rating must equal or better that listed on the Motor Guideline)
- **Roof Top Units** (6 ton to 25 ton; efficiency rating must equal or better that listed on the HVAC Guideline)
- **Natural Gas Equipment** (equipment must equal or better specifications listed in the Natural Gas Guideline) \*\*
- **Packaged Terminal Heat Pumps** (\$100/unit; efficiency rating must equal or better that listed in the Lodging Guideline)
- **Food Service Equipment** (equipment must equal or better specifications listed in the Food Service Guideline)

# Condensing Boiler Incentive

**Note: The \$6/MBTU incentive for condensing boilers is effective through end of May 07.**

- Equipment must equal or better specifications listed in the guideline.
- As of June 07, the incentive will drop to \$4/MBTU listed input of condensing boilers.

# Custom Measures

- All measures must have energy savings quantified along with an incentive offer from the program prior to purchase & installation of equipment. Incentive is structured at \$0.12 per kWh and \$1 per therm, not to exceed 25% of project cost.
- **VFD's** \*\*\*
- **Control Systems** (DDC to DDC affecting electric only)
- **Air compressors**

\*\*\* program will accept manufacturer's software to quantify energy savings

# Custom Measure Special Market Initiative

- The special market initiative incentive is structured at \$0.12 per kWh and \$2 per therm not to exceed 35% of project cost. Each measure still must meet an 18 month to 10 year simple payback based on annual energy savings and pass the program cost benefit test.
- **Control Systems** (Pneumatic to DDC or DDC to DDC affecting gas/electric systems )
- **VAV conversions**
- **Dual duct conversions**
- **Chillers** ( \$0.15 per kWh not to exceed 35% of project cost)

# New Building Efficiency

## Standard Track

- Incentives up to \$50,000 per project
- No energy calculations are required
- Standard Track may be combined with Custom Track making available up to \$250,000 per project

## Custom Track

- Incentives up to \$200,000 per project
- Energy calculations are required
- All energy measures are screened and must pass an Energy Trust cost-effectiveness test to receive an incentive
- Additional incentives for commissioning are available
- Standard Track may be combined with Custom Track making available up to \$250,000 per project

# New Building Efficiency

## **USGBC LEED™ NC**

- Incentives up to \$200,000 per project
- Incentives for projects participating in the US Green Building Council's Leadership in Energy and Environmental Design rating and certification program for commercial new construction projects

## **ENERGY STAR® NEW**

- Incentives to achieve the ENERGY STAR building performance certification from the U.S. Environmental Protection Agency (EPA).
- Incentives from \$1,000 to \$15,000 per eligible project.
- Facilities must meet certain criteria and achieve a rating of 75 or higher using the EPA's tools, Portfolio Manager and Target Finder.
- Standard Track projects may also apply for the ENERGY STAR track. Custom and LEED track projects are not eligible.
- Projects must have completed construction and occupancy after January 1, 2005

# More Financial Resources

## Oregon Dept. of Energy

- Business Energy Tax Credit or
- Business Energy Tax Credit Pass Through Partner
- Energy Loan Program
- [www.energy.state.or.us](http://www.energy.state.or.us)
- 1-800-221-8035