

Energy Trust of Oregon - Existing Buildings
Association of Professional Energy Managers
Fall 2016 Forum



About

- Independent nonprofit
- Serving 1.5 million customers of Portland General Electric, Pacific Power, NW Natural and Cascade Natural Gas
- Providing access to affordable energy
- Generating homegrown, renewable power
- Building a stronger Oregon and SW Washington



Existing Buildings

Types of commercial businesses served

Auto services

1.1

Commercial buildings

Hospitality

Data centers

K-12 schools

Higher education

Foodservice

Municipalities

Grocery stores

Senior centers

Healthcare

Warehousing

Retail space



Benefits for existing commercial businesses

- Identify opportunity: Assistance to identify energy saving opportunities
- Expert help: Referrals to qualified trade allies
- Evaluation: Review facility studies
- Cash incentives: Help make it more affordable



Eligible energy-saving improvements

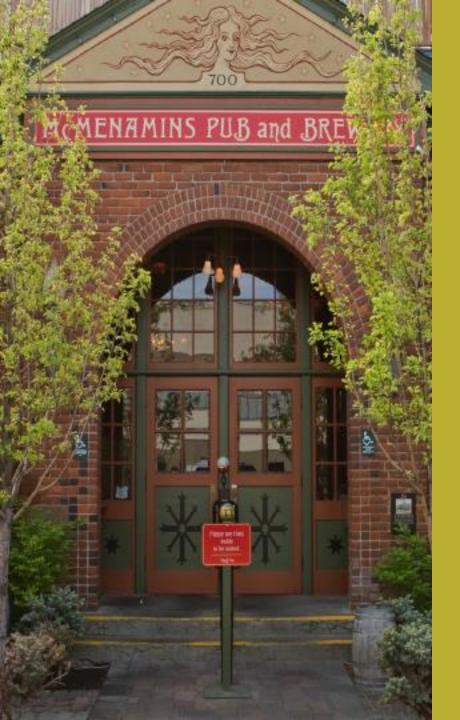
- Lighting and lighting controls
- Heating and cooling equipment
- Lodging and foodservice equipment
- Heat pumps
- Insulation
- Computer equipment
- Compressed air
- Grocery





Lighting

- Nearly 35 percent of electric use in commercial buildings
- Quick payback period for many lighting improvements
- Standard cash incentives for energy-efficient lighting upgrades



Foodservice and Restaurants

Many Standard measures:

- Convection oven
- Fryer
- Heat pump
- Steam cooker
- Dishwasher

Energy Trust can provide:

- Specialized outreach professionals
- Custom cash incentives



Foodservice and Restaurants

- High-efficiency foodservice equipment
- HVAC equipment
- Lighting and lighting controls
- Electrically commutating motors
- High-efficiency water heaters
- Insulation



Grocery

Energy Trust can provide cash incentives:

- Floating head pressure controls
- Energy-efficient fan motors
- LED case lighting
- Anti-sweat controls
- Night covers
- Strip curtains
- Motion sensors



Commercial Building

Technical assistance provided

Opportunities:

- High-efficiency motion sensor nightlights
- Package terminal heat pump
- VFD
- HVAC tune up
- Building automation
- Boiler
- Insulation
- Power management



Data Center

Energy intensive business

Opportunities:

- Efficient cooling systems
- Air flow management
- Server room design and equipment configuration
- Energy-saving software



Hospitals and Healthcare

- Around the clock lighting
- Power-intensive equipment
- Strict air quality standards

Energy-efficient upgrades:

- HVAC improvements
- Lighting, daylighting and controls
- Building envelope upgrades
- Efficiency upgrades for hospital data centers
- High-efficiency foodservice equipment

Custom Projects

- Energy projects that use non-standard equipment
- Technical analysis of facility
- Virtually any energyefficiency equipment may be eligible for custom incentives
- Requirement: <u>all</u> custom projects <u>must</u> be prequalified by Energy Trust before proceeding with equipment purchase



Custom incentives

Gas:

\$3.00/therm
Capped at 75%

Electric:

\$0.25/kWh
Capped at 60%

Dual-fuel:

\$3.00/therm \$0.25/kWh Capped at 75%



Community College DDC Retrofit

\$22,239 Project Cost \$11,119
Energy Trust
Incentive

108,300 kWh
Annual
Savings

\$8,014
Estimated
Annual Utility
Cost Savings

Shopping Mall Roof Top Units

\$102,000 Project Cost \$51,000
Energy Trust
Incentive

256,000 kWh

Annual
Savings

\$18,743
Estimated
Annual Utility
Cost Savings



Standard Incentives

Standard incentives are predetermined set cash incentives.

Does not require pre-approval prior to equipment purchase.

- Premium Gas HVAC and Water Heating
- Commercial kitchens
- Controls systems
- Insulation: Gas and Electric Heat
- Computer Equipment
- Compressed Air
- Energy-Efficient Heat Pumps

Lodge Attic Insulation

\$1,735 Project Cost \$1,020
Energy Trust
Incentive

19,685 kWh
Annual
Savings

\$1,457
Estimated
Annual Utility
Cost Savings

Path to Energy Savings

- Get started: Identify energy efficiency opportunities
- Reach out: Contact Energy Trust account manager or an Energy Trust trade ally
- Create partnerships: Energy Trust, trade ally and PropertyFit



