

OREGON DEPARTMENT OF ENERGY
ENERGY LOAN PROGRAM

Technologies Funded With SELP Loans

- **AIR HANDLING SYSTEM IMPROVEMENTS** such as energy saving motors, motor controls and/or sizing, high efficiency fans and fan system improvements, ducting, dampers, volume controls, etc.
- **AIR-TO-AIR HEAT EXCHANGERS** to reduce ventilation energy losses.
- **BIOMASS WASTES** used to produce substitute fuels.
- **CENTRAL PLANT AND DISTRIBUTION SYSTEM IMPROVEMENTS**, including boilers and boiler systems, chillers, cooling towers, steam/water distribution system and condensate line improvements or replacements, steam traps, controls, overhauls, and other improvements.
- **COGENERATION**
- **CONTROLS**, energy management, system controls such as computerized control systems, programmable controls, and non-computerized control systems.
- **DISTRICT GEOTHERMAL HEATING SYSTEMS.**
- **EARTH SHELTERED** construction.
- **ENVELOPE** improvements including: increased levels of insulation in walls, ceilings, and floors; glazing improvements; external shading; and addition of vestibule entry.
- **HEATING, VENTILATION, and AIR CONDITIONING (HVAC)** system improvements.
- **HEAT PUMPS**, air-to-air heat pumps when in lieu of other electrical or wood burning heating systems [special conditions apply].
- **HEAT PUMPS**, interfaced with solar collectors, surface water, ground water, wastewater, waste heat, or the ground itself.
- **LIGHTING** components, such as lamps, fixtures, controls, and other components that reduce energy consumption.
- **METHANE GAS RECOVERY** from landfills, including electric generation.
- **MOTOR CONTROLS**, such as variable frequency controls.
- **MOTORS**, energy saving items such as high efficiency motors, controls, load balancing, and staging.
- **TRANSPORTATION SAVINGS** when off-site transportation costs are saved as a result of on-site process changes.
- **PUMP SYSTEM IMPROVEMENTS** such as energy saving motors, motor controls, load balancing, staging, distribution system pressure reduction, irrigation systems, etc.
- **SOLAR** heating and lighting—passive.
- **SOLAR** space and water heating—active.
- **SWIMMING POOL** evaporation reduction measures including pool covers and controls.
- **WASTE HEAT RECOVERY** by heat pumps or by heat exchangers and applied to space heating, water heating, industrial process heating, or other beneficial use.
- **WASTEWATER TREATMENT LAGOONS** and system components.
- **WASTEWATER TREATMENT** plant process changes that save, produce, or recover energy.
- **WATER HEATING** and distribution system improvements.
- **WATERPOWER** used to generate electricity, and used for direct water-powered pumping, i.e. hydraulic ram.
- **WATER SYSTEM**, gravity distribution in lieu of pump pressures.
- **WEATHERIZATION**, such as weather-stripping, caulking, and other items to reduce infiltration
- **WIND POWER** used to generate electricity, or wind-powered pumping.

Continued...

New Energy Efficiency Technologies

Recent or underutilized efficiency improvements for buildings, large and small.

Construction Practices

- ◇ Building products with recycled content

Electrical Systems

- ◇ Dimming with daylighting controls
- ◇ Direct current distribution lighting system
- ◇ High efficiency office equipment—computers, printers, copiers, fax
- ◇ LED exit signs
- ◇ Optimized occupancy and sweep controls
- ◇ Resource efficient appliances: E-rated
- ◇ T5 fluorescent lamps

Envelope

- ◇ Controlled shading glazing
- ◇ Low emissivity or low shading coefficient windows as dictated by building orientation
- ◇ Orientation—natural lighting and control of solar heat gain
- ◇ Photovoltaic roofing

Heating, Ventilation, and Air Conditioning

- ◇ Direct digital terminal regulated air volumes: links from lighting controls
- ◇ Evaporative cooling
- ◇ Indoor air quality controls: CO₂-based ventilation

System Commissioning

Utility Options

- ◇ Direct gas purchases
- ◇ Electric deregulation: alternative purchase options
- ◇ Fuel cells

Financial Assistance

Federal Government

- ◇ Fuel Cell incentive payments
- ◇ Miscellaneous tax credit programs, <http://www.eren.doe.gov/EE/>

State Government

- ◇ Business Energy Tax Credit, Linda Kutnar 503-373-7803
- ◇ DEQ Pollution Prevention Tax Credit, Maggie Vandehey 503-776-6878 - Portland

Utility Programs ask us for the latest information

Project Assessment Services

- ◇ SELP Public Energy Package—free energy audits, “no risk” studies for the government sector
Kathy Estes 503-378-5048 or Kip Pheil 503-378-4442
- ◇ Utility energy audits—your local utility
- ◇ Regional Bioenergy Program, Mark Kendall 503-378-6043

**For more information call 1- 800-221-8035 or 503-378-4040
or visit our web site at: <http://egov.oregon.gov/ENERGY/>**