



Energy Trust of Oregon Renewable Power

Incentives and Financing
for Oregon Wastewater
Treatment Plants
June 4, 2009



Energy Trust Overview



What is Energy Trust?

An independent nonprofit organization dedicated to energy efficiency and the development of Oregon's renewable energy resources

- Portland General Electric
- Pacific Power
- NW Natural
- Cascade Natural Gas



Our Mission

To change how Oregonians produce and use energy by investing in efficient technologies and renewable resources that:

- Develop new sources of clean energy
- Help Oregonians manage energy costs
- Stimulate the economy
- Protect the environment

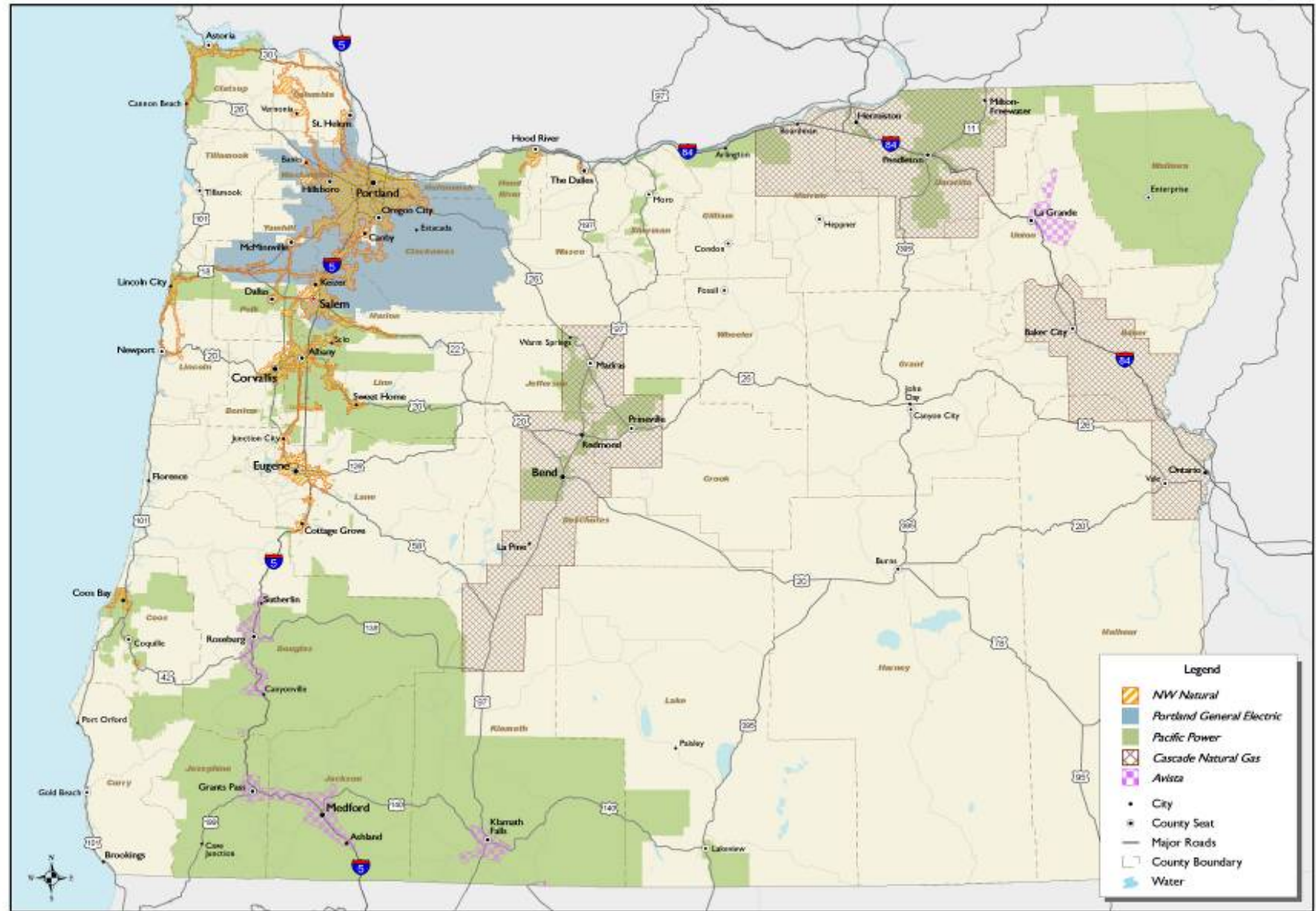


Energy Trust Service Territories

1-866-ENTRUST
energytrust.org



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Renewable Resources

Solar
Hydro
Wind
Biomass

Solar Electric





Solar Electric at Water and Wastewater Treatment Plants Hillsboro Evergreen Reservoir



- Standard Incentives
- Solar is the easy to site - available land and buildings
- Meets sustainability goals
- Complies with Oregon law requiring solar on new/renovated public buildings



City of Pendleton Wastewater Treatment Plant



Ownership Options -

Direct – Finance, own and maintain your own solar electric system.

Third-party ownership –

- Power Purchase Agreement
- Flip Model



Open Solicitation - Hydro

- Treatment Plants move water
- Project Opportunities
 - Pressure Reduction Valves
 - System Outfalls
- Custom Incentives





Wind Power

- Small Wind – <50 KW
- Community Wind - >50 KW
 - Anemometer loan program
 - Proposal-driven
 - Financial assistance for preparing feasibility studies
- Standard and Custom Incentives





Biopower Program



- Incentives up to 100% of above market costs for projects producing electricity from municipal wastewater
- Proposal-driven
- Financial assistance for preparing feasibility studies

Biomass Opportunities at WWTP

Trends –

Replacing existing generation capacity

Evaluating Co-digestion

Considering new technologies



New Opportunity

Energy Management Planning

- Strategic, holistic approach to managing energy use and generation
- Significantly lower operating costs by integrating energy management into business and operational systems.
- Meeting sustainability goals
- Pilot Proposal - Comprehensive energy management training
 - Maximize EE opportunities and prioritize RE generation projects
 - Integrate plan, do, check, act cycle into energy management of plant operations
 - Includes both group meetings and one on one sessions