

Renewable Energy Program Updates

April 12, 2006

Biopower Program

Operating

- City of Gresham WWTP -- (395 kW)
- Corvallis WWTP – Test model operating, but Energy Trust offer withdrawn by mutual agreement due to failure to meet minimum standards within agreed timeline. (55 kW)

In Process with Energy Trust

- Columbia Blvd. WWTP -- Contract executed with City of Portland. Expected to be on line in December, 2007. (1.8 MW)
- Warm Springs Forest Products -- Analyzing revised, larger version of the project. Targeting an April decision on whether to proceed to contract negotiations. (17.9 MW)
- Rough & Ready -- Negotiations underway. Their counter-offer received 4/2. Targeting a decision for the June Board meeting. (1.2 MW)
- Swanson Lumber -- Provided funding for feasibility studies. After review, staff calculated that above-market costs were relatively low. Low-level conversations continuing about potential Energy Trust role in supporting tag prices, but may to proceed without further Energy Trust support. (3.3 MW)

Studies:

- Lake County Biomass -- Offered a \$25,000 match toward feasibility analysis. They are securing the other funds. (14 MW)
- Tryon Creek WWTP – Co-funded study underway with the City of Portland. (110 kW)
- Gervais (dairy) -- Co-funded study underway with the dairy. (100 kW)
- Southport Lumber -- We offered to share feasibility costs. Awaiting their response. (4.5 MW)
- SP Newsprint -- Discussed sharing feasibility study costs. Awaiting their estimate of costs, timing. (3 MW)

Proceeding without Energy Trust

- Douglas County Forest Products – Provided funding for feasibility studies. After review, staff calculated that new PURPA rates were sufficient to cover all market costs. New boiler is operating, interconnection of generator going slowly but scheduled for this summer. (3.8 MW)
- Dry Creek Landfill -- Provided funding for feasibility studies. After review, staff calculated that new PURPA rates were sufficient to cover all market costs. The project appears to be proceeding without an Energy Trust subsidy. (2.8 MW)

Community Wind Program

Anemometers Loans

- 19 systems lent on rotating basis through Oregon State University
- 4 larger towers purchased and 3 installed

Feasibility Grants

- 4 awarded and underway with co-funding from US Department of Agriculture (USDA)
- 2 new applications to USDA with ETO support with decision on these by the Fall

Guidebook

- A newly popular item: 275 sent on request

Request for Proposals

- Issued two-track RFP with first part due 3/24/06. Results:
 - A potential of 8 mature projects totaling 66 MW
 - At least 10 projects totaling 114 MW identified as needing further assistance
- Full applications due April 21, 2006. Next steps:
 - By mid-June identify up to two projects that can be constructed in 2006 or 2007
 - In May, identify additional support or services that can be provided to the newly identified projects to have them ready for 2008 and beyond

Open Solicitation Program

Operating

2003-2005:

- Brewery Blocks building-integrate solar PV in Portland (22.4 kW)
- Umpqua Community Housing PV in Sutherlin (3.9 kW)
- Kettle Foods Processing Plant PV in Salem (114 kW)
- Klamath Falls Pepsi Commercial Facilities PV in Klamath Falls and Lakeview (171 kW)
- City of Portland Work Shop small wind demonstration (10 kW)

2006:

- Griffin wind turbine (1.5 kW) near Newberg, OR
- Stoller Vineyards solar PV (46 kW) near Dundee, OR (Staff will be present at April 19th open house event)

In Process with Energy Trust

- City Of Albany hydro (511 kW) is in the engineering and cost review stage. Expected completion is late 2006 or early 2007.
- OHSU's building integrated solar (58 kW) on the South Riverfront Building in Portland has been partially installed. Full operation is expected by June, 2006.
- Farmer's Irrigation District (Hood River) hydro (40 kW) is in contract negotiations.
- Oregon Zoo PV RFP (~50 kW) in partnership with PGE has been finished and responses are being evaluated. Project completion may be in 2006.

- Klamath Irrigation PV pilot (25 kW) in partnership with Pacific Power has been awarded a federal grant to help cost-share and negotiations for equipment and installations are underway. Completion is expected by Summer, 2006
- A rural assistance grant co-funded by ETO and the USDA for Klamath County is underway by NW Seed. The effort is designed to build local expertise in developing and funding renewable energy projects.

Under consideration

- The City of Portland has requested support to switch all their supply to be from a new wind project (~50 MW) in 2007. Staff is analyzing the request. If feasible, funds would need to be shifted from the as-yet unallocated portions of the Utility Scale Program.
- Similar to the City's proposal, an energy services supplier (ESS) has requested support for one of their customers to shift to wind resource supply from a new wind project. Staff has agreed to initiate analyses on a confidential basis for the moment.

De-commissioned

- The Apeasay Orchard wind project (22 kW) has changed owners and been shut down after successfully operating for one year. Per the contract, Energy Trust received a pro-rated return of its initial funding.

-

Outreach

- Staff attended an Oregon POWER Group meeting held in Portland on April 12. The Oregon POWER Group is a group of electricity stakeholders that has been meeting for over a year with a goal of positioning Oregon as a leader in wave energy development. The Oregon Department of Energy is currently chairing the group with key contributions from Oregon State University, CLPUD, PNGC Power, BPA, PGE, Port of Umpqua, Oregon Department of State Lands, and others.
- Energy Trust co-sponsored with ODOE an introduction workshop on renewable energy production payments. The purpose of the workshop was to understand the critical design features of putting in place an effective and efficient production-based payment policy, with a focus on small to medium sized projects. Issues discussed included whether an Advanced Renewable Tariff (ART) can be an effective tool to promote renewables, ART's costs and a comparison of how an ART differs from the Public Purpose Charge framework in which the Trust has to operate and how it differs from an RPS. Information is available on the ODOE web site or from Carel Dewinkle at Carel.Dewinkle@state.or.us

Utility Scale Program

- The Combine Hills 41 MW wind project near Milton Freewater completed in December, 2003, continues to operate as expected
- The \$12.5 million master agreement with PGE is in place and they are in process with at least two projects with decisions due mid 2006.
- A similar master agreement with Pacific Power for \$4.5 million was approved the board on April 5, 2005 and signed by both parties.
- Separately, Pacific Power issued a RFP wind renewable energy projects for 2006 and 2007.

Solar Programs

- Solar Program staff held separate training sessions for solar water heating and solar electric installers in January with a combined attendance total of 65. Since then, 11 attendees have signed up to become trade allies.
- The Solar Program hosted two solar seminars in February focused on the PGE service territory and exceeded all attendance expectations. Both seminars had over 100 attendees each.
- Kacia Brockman will be part of a panel discussion about incentives at the “Sustainable Advantage” economic business conference being held on April 20th in Eugene.
- Kacia Brockman will be presenting solar incentives with Earth Advantage staff at a Home Builders Association meeting on April 21st.
- Additional public solar seminars have been scheduled for May 6th in Portland and June 6th in Corvallis.

Solar Electric

2003 - 2005:

- Installed: 301 systems, 961 kW
 - 30% commercial, 70% residential (by kW installed)
 - 23% PGE, 77% Pacific Power (by kW installed)

2006 Activity to date:

- Installed: 22 systems, 98 kW
- Committed: 49 systems, 186 kW
- Total:
 - 39% commercial, 61% residential (by kW installed)
 - 32% PGE, 68% Pacific Power (by kW installed)

Solar Water Heating

2004 - 2005:

- Installed: 134 systems,
 - 231 MWh and 29,000 therms saved
 - 23% PGE, 38% Pacific Power, 39% NW Natural (by number of systems)

2006 Activity to date

- Installed: 35 systems
 - 38 MWh and 4,700 therms saved
- Committed: 36 systems
 - 59 MWh, 10,400 therms
- Total:
 - 15% PGE, 45% Pacific Power, 40% NW Natural (by number of systems)