

## **2004 Fourth Quarter Report to the Oregon Public Utility Commission**

*February 15, 2005*

This Energy Trust quarterly report is for the period October through December 2004 (Q4). It tracks progress toward 2004 and 2012 energy saving goals, with associated costs. It reports numbers of completed projects, incentives paid and highlights of Energy Trust activities during the quarter. Q4 financial reports are attached.

### **I. PROGRAM HIGHLIGHTS**

#### **I. General**

- Electricity-saving projects completed during the quarter saved 14.856 average megawatts at a cost of about \$1.15 million per average megawatt. This savings is about 47.2 percent of the annual target. Savings for the year total 80.7 percent of the annual target. Since March 1, 2002, these programs have cumulatively saved 57.8 aMW, or 19.3% of Energy Trust's 2012 goal.
- Gas efficiency projects during the quarter saved 382,996 therms, or 27.0 percent of the annual target. Savings for the year are 89.4% of the annual target. Since gas programs began in 2003, efficiency programs have cumulatively saved 1,487,972 annual therms, or 7.8% of the 2012 goal.
- Renewable energy projects secured during the quarter represent 0.036 average megawatts at a cost of \$24.02 million per average megawatt. Renewable energy projects in 2004 account for 132.9% of the annual target. To date, renewable programs meet 9.8% of Energy Trust's 2012 goal.

#### **2. Residential programs**

- Conducted energy reviews and installed 5,882 compact fluorescent light bulbs in 122 electrically heated homes, 465 homes with NW Natural heat and electric power from PGE or Pacific Power, and 3 homes with oil heat and electric power from PGE or Pacific Power.
- Helped fund the purchase of 5 energy-efficient clothes washers and 72 energy-efficient dishwashers. These were installed in 23 homes with electric hot water and 49 homes with gas hot water.
- Installed high efficiency measures such as sealed ducts, insulation, high efficiency space heating equipment and energy-efficient windows in 13,701 single-family, multifamily and

manufactured homes. These were installed in 10,125 electrically heated homes and units, 2,575 gas-heated homes and units, and 1 oil-heated home.

- Installed solar water heating systems in 14 homes with electric hot water and 1 home with gas hot water.

### **3. Commercial programs**

- Installed high efficiency measures such as energy-efficient lights and HVAC equipment in 239 commercial buildings, with an average incentive payment of \$10,345. Of this total, 236 buildings received electric efficiency measures and 63 buildings received gas efficiency measures.
- Certified the completion of 5 highly efficient new commercial buildings, 4 receiving electric efficiency measures, 1 receiving gas efficiency measures.

### **4. Industrial programs**

- Completed electric energy-saving projects at 96 manufacturing firms, with an average incentive payment of \$69,074.

### **5. Renewable energy programs**

- Completed installation of solar electric systems in 14 homes and 8 commercial buildings. Three of these were solar electric demonstration projects, on two Portland fire stations and a high school in Bend.
- Worked with PGE to secure a 75 aMW addition to the Klondike wind project near Wasco, Oregon. The project will come on line in 2005, providing 26.7 aMW of electric power.
- Approved a renewable-based combined heat and power facility at Douglas County Forest Products stud mill in Winchester, Oregon.

### **6. Revenues and expenditures**

- Received \$11.8 million during the quarter
- Spent \$18.8 million
- Provided \$13.4 million in incentives to end users

## II. TABLES

### I. Revenues

Q4 revenues from each utility tracked closely with projections.

Source	Actual revenues received Q4	Budgeted revenues Q4
Portland General Electric	\$ 6.4 million	\$ 6.9 million
PacifiCorp	4.1 million	4.2 million
NW Natural	1.1 million	1.8 million
Interest	0.2 million	0.0 million
<b>Total</b>	<b>\$ 11.8 million</b>	<b>\$ 12.9 million</b>

### 2. Expenditures

Q4 spending fell short of budget.

Type	Actual expenditures Q4	Budgeted expenditures Q4
Energy Efficiency programs	\$ 17.3 million	\$ 10.5 million
Renewable Resources programs	0.8 million	10.0 million
Administration	0.7 million	0.7 million
<b>Total</b>	<b>\$ 18.8 million</b>	<b>\$ 21.1 million</b>

### 3. Incentives Paid

	Energy Efficiency			Renewable Energy		Total
	PGE	Pacific Power	NW Natural	PGE	Pacific Power	
Q1	\$1,158,917	\$1,022,493	\$615,571	\$72,314	\$248,303	\$3,117,598
Q2	\$1,132,553	\$1,412,966	\$409,894	\$74,369	\$364,547	\$3,394,329
Q3	\$998,548	\$1,767,608	\$328,874	\$33,871	\$313,963	\$3,442,864
Q4	\$3,202,749	\$9,177,149	\$530,011	\$72,773	\$431,313	\$13,413,995
YTD	\$6,492,767	\$13,380,216	\$1,884,350	\$253,327	\$1,358,126	\$23,368,786

### 4. Savings and Generation

*Electric efficiency savings.* In 2004, Energy Efficiency programs achieved 80.7% of the 2004 projection of 31.5 aMW. Since March 1, 2002, these programs have cumulatively saved 57.8 aMW, or 19.3% of the Energy Trust's 2012 goal.

Electric Efficiency Savings Q4 2004	PGE aMW	Pacific Power aMW	Total Savings* aMW	Expenses	mil \$/ aMW
Residential	0.522	0.309	0.830	\$1,926,972	\$2.32
Commercial	2.445	1.596	3.911	3,882,415	\$0.99
Industrial	1.152	7.941	9.093	10,181,699	\$1.12
NEEA (all sectors)	0.602	0.290	0.892	477,643	\$0.54
Administrative Costs				564,319	
<b>Total Energy Efficiency Programs</b>	<b>4.720</b>	<b>10.136</b>	<b>14.856</b>	<b>\$17,033,048</b>	<b>\$1.15</b>

\* Includes transmission & distribution savings

*Gas efficiency savings.* In 2004, efficiency programs saved 1,279,749 annual therms of natural gas, representing 89% of the 2004 projection of 1.4 million annual therms. Since gas programs began in 2003, cumulative savings of 1,487,972 annual therms have been realized, accounting for 7.8% of the 2012 goal.

<b>Gas Efficiency Savings Q4 2004</b>		<b>NWN Therms</b>	<b>Expenses</b>	<b>\$ / Therm</b>
Residential		324,014	\$733,436	\$2.26
Commercial		58,982	143,611	2.43
Industrial		-	-50	
NW Alliance (all sectors)*		-	0	
Administrative Costs			69,342	
<b>Total Energy Efficiency Programs</b>		<b>382,996</b>	<b>\$946,339</b>	<b>\$2.47</b>

*Renewable energy generation.* In 2004, renewable energy generation projects account for 132.9% of the 2004 goal of 22.134 aMW. To date, cumulative generation totals 44.0aMW, or 9.8% of the 2012 goal of 450 aMW.

<b>Renewable Energy Generation Q4 2004*</b>	<b>PGE aMW</b>	<b>Pacific Power aMW</b>	<b>Total Generation aMW</b>	<b>Expenses</b>	<b>mil \$ / aMW</b>
Utility Scale	0.000	0.000	0.000	\$39,957	
Solar Photovoltaic	0.001	0.009	0.010	431,261	\$43.13
Small Wind	0.000	0.000	0.000	29,388	
Open Solicitation	0.000	0.026	0.026	270,851	10.42
Biomass	0.000	0.000	0.000	15,671	
Geothermal	0.000	0.000	0.000	3,832	
Administrative Costs				73,832	
<b>Total Renewable Programs</b>	<b>0.001</b>	<b>0.035</b>	<b>0.036</b>	<b>\$864,792</b>	<b>\$24.02</b>

\* Projects completed and operating in Q4.

## 5. Projects Completed

<b>Energy Efficiency Installed Projects</b>	<b>Total</b>	<b>Electric</b>	<b>Gas</b>
Residential			
Single family homes retrofitted	2,711	1,692	2,087
Multifamily units retrofitted	887	781	106
Home Energy Reviews conducted	576	120	456
Manufactured homes retrofitted	189	185	4
Efficient Home Products rebates	147	144	1024
Residential Solar Hot Water installations	16	15	1
Efficient New Homes constructed	25	10	23
Utility transition projects completed	110	110	0
	4,661		
Commercial sites treated	271	268	63
Industrial sites treated	105	105	0
<b>TOTAL EFFICIENCY</b>	<b>5,037</b>	<b>3,430</b>	<b>3,764</b>

<b>Renewable Energy Installed Projects</b>	<b>Total</b>	<b>Electric</b>
Utility-scale projects	0	0
Solar Electric residential installations	14	14
Solar Electric commercial installations	7	7
Small wind installations	0	0
Open Solicitation projects installed	1	1
<b>TOTAL RENEWABLES</b>	<b>32</b>	<b>32</b>

We define “projects” to be completed installations or services at one location (“site”), with certain exceptions:

- A Home Energy Review, with CFL installation, counts as one project. If that home subsequently installs one or more measures, this installation counts as a separate project.
- Each apartment unit treated counts as one project.
- Each manufactured home counts as one project.