

Table 2
Demand Response Programs Offered in Oregon by Investor-Owned Utilities

Program	Utility	Targeted customers	No. of active participants	Energy reduction (MWh) ¹	Max. capacity savings (MW)	Average payment per MWh	Est. net savings for utility ²	Period offered
Demand Buy Back (next day)	PGE	Can reduce demand by 250 kW or more	8	87,532	157.8	\$129	\$26.2 million	Ongoing; active July 2000-May 2001
Energy Exchange (events lasting 1 week or less)	PacifiCorp	Monthly demand ≥1 MW	44	38,761	67.2	\$108	\$2.1 million	Ongoing; active Dec. 2000 - Aug. 2001
Energy Buy Back	Idaho Power	Can reduce load by 1 MW or more	0 ³	0	0	0	0	Since June 2001
Longer-term negotiated buybacks	PGE	Largest customers	2	108,664	56.0	\$180	(-\$9 million) ⁴	April-Sept. 2001
Longer-term negotiated buybacks	PacifiCorp	Largest customers	3	61,385	35.1	\$200	(-\$7.6 million) ⁵	Dec. 2000 and March-Sept. 2001
Irrigation Curtailment	PacifiCorp	Irrigators with a pumping load ≥16 kW at a single meter	328	20,636	Unknown ⁶	\$125 ⁷	(-\$1.5 million)	May-Nov. 2001
Irrigation Buy Back	Idaho Power	Irrigators committed to reduce energy use ≥100,000 kWh over season	17	16,287	Unknown ⁶	\$150 ⁷	Not available ⁸	April-Nov. 2001
20/20 Customer Challenge	PacifiCorp	Residential customers	115,598 ⁹	49,824	19.1	\$69	(-\$1.4 million)	June-Sept. 2001
Blackout Protection	PGE	Monthly demand ≥ 1 MW; must be able to reduce demand by 15% during every event	0 ¹⁰	0	0	NA ¹¹	0	Since Sept. 2002
Blackout Protection	PacifiCorp	Monthly demand ≥4 MW; must be able to reduce demand by 15% during every event	0 ¹⁰	0	0	NA ¹¹	0	Since Feb. 2002
Dispatchable Standby Generation	PGE	Own generators ≥1 MW	5	NA ¹²	NA	See note ¹³	Not available	Since April 2000
Optional time-of-use rate	PGE and PacifiCorp	Residential and small business customers (≤30 kW)	About 3,700	NA	Unknown	NA ¹⁴	Unknown	Since March 2002

¹Savings during energy shortage of 2000-01, not including any load shifting.

²Not including lost revenue.

³The program got underway just before power prices dropped, so the utility didn't call any events.

⁴PUC staff estimate based on average monthly prices for firm peak power at mid-C, per PGE.

⁵PacifiCorp estimate based on hourly mid-C prices for non-firm power.

⁶Program was designed for energy savings, not capacity savings. Many irrigation meters do not measure demand.

⁷Guaranteed payment during the entire irrigation season.

⁸The program increased power costs because of an unexpected drop in market prices.

⁹Average number of customers participating per month.

¹⁰No customers had signed up by year-end 2002.

¹¹Not applicable. Customers avoid rolling blackouts but receive no payments.

¹²Projected savings of systems under contract to date is about 2,000 MWh (9.75 MW * 200 hr) during a year with significant peaking needs. Generators have not yet been used under the program because of mild winter weather and stable wholesale prices.

¹³PGE estimates an effective reservation fee of \$20/kW for making the generator dispatchable and for maintenance. Estimated fuel costs are \$60 per MWh.

¹⁴Energy rates are lower during off-peak hours and higher during on-peak hours.