

e-FILING REPORT COVER SHEET

REPORT NAME: Oregon Solar Incentive Program Resource Value Report

COMPANY NAME: PacifiCorp d/b/a/ Pacific Power

DOES REPORT CONTAIN CONFIDENTIAL INFORMATION? No Yes

If yes, please submit only the cover letter electronically. Submit confidential information as directed OAR 860-001-0070 or the terms of an applicable protective order.

If known, please select designation: RE (Electric) RG (Gas) RW (Water)
 RO (Other)

Report is required by: OAR 860-084-0370
 Statute
 Order 12-396
 Other

Is this report associated with a specific docket/case? No Yes
If Yes, enter docket number: UM-1559

Key words: Oregon Solar Incentive Program Resource Value Report

If known, please select the PUC Section to which the report should be directed:

- Corporate Analysis and Water Regulation
- Economic and Policy Analysis
- Electric and Natural Gas Revenue Requirements
- Electric Rates and Planning
- Natural Gas Rates and Planning
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November 1, 2012

VIA ELECTRONIC FILINGPublic Utility Commission of Oregon
550 Capitol Street NE, Suite 215
Salem, OR 97301-2551

Attn: Filing Center

Re: Oregon Solar Incentive Program Resource Value Report

In accordance with OAR 860-084-0370(1) and the provisions of Order No. 12-396 in Docket No. UM-1559, dated October 18, 2012, enclosed is PacifiCorp d/b/a/ Pacific Power's Oregon Solar Incentive Program Resource Value Report.

In compliance with the Order, the company has calculated the solar resource value and nominal levelized rate based on the Commission's three requested methods: Standard Avoided Cost, Renewable Avoided Cost, and an IRP modeling methodology. The report allows the comparison of a "variety of methods" from which the Commission can "track changes in the estimates of the components of the resource value for SPV systems."¹

The Company's IRP avoided cost methodology used in this filing was based on the methodology used by PacifiCorp in its Idaho, Utah and Wyoming jurisdictions, known as the Partial Displacement Differential Revenue Requirement (PDDRR) method. The PDDRR method uses two production cost model simulations to determine the energy value of a resource, and the capacity value is based on partial displacement of the next deferrable resource outlined in the Company's IRP. The Company calculated the effective load carrying capability based on a historical measure of solar output for distributed fixed panel solar array throughout the Company's system.

The table below provides a summary of results from the attached Resource Value Report.

Resource Value Methods	Resource Value (\$000)	Nominal Levelized Rate (2010 \$/kwh)
Standard Avoided Cost	\$7,234.2	\$0.0579
Renewable Avoided Cost	\$6,812.9	\$0.0547
IRP Method Avoided Cost	\$6,225.7	\$0.0507

¹ Order No. 12-396 at 4.

It is respectfully requested that all formal data requests regarding this filing be addressed to:

By e-mail (preferred): datarequest@pacificorp.com

By regular mail: Data Request Response Center
PacifiCorp
825 NE Multnomah, Suite 2000
Portland, Oregon 97232

Informal inquiries regarding this filing may be directed to Bryce Dalley, Director, Regulatory Affairs & Revenue Requirement, by telephone at (503) 813-6389 or by e-mail to bryce.dalley@pacificorp.com.

Sincerely,

A handwritten signature in cursive script that reads "William R. Griffith / ca".

William R. Griffith
Vice President, Regulation

Enclosures

CERTIFICATE OF SERVICE

I hereby certify that I served a true and correct copy of the foregoing document to the service lists in Docket UM-1559, on the date indicated below by email and/or US Mail, addressed to said parties at his or her last-known address(es) indicated below.

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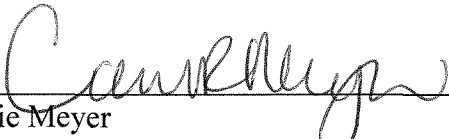
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DATED: November 1, 2012


Carrie Meyer
Coordinator, Regulatory Operations

Oregon Solar Incentive Program Resource Value Report

(Per OAR 860-084-0370(1) in accordance with the provisions of Order No. 12-396)

Estimated Resource Value #1 – Standard Avoided Cost	Pages 1-2
Estimated Resource Value #2 – Renewable Avoided Cost	Pages 3-4
Estimated Resource Value #3 – IRP Method Avoided Cost	Pages 5-13

**Estimated Resource Value #1 - Standard Avoided Cost
November 1, 2012**

Year	KWH	Nominal Cost (\$/KWH)	(KWH * RV KWH)
			Resource Value
2010*	967,154	\$0.0382	\$36,913
2011*	4,175,261	\$0.0299	\$124,686
2012	11,008,116	\$0.0325	\$358,156
2013	14,067,363	\$0.0389	\$547,210
2014	15,111,897	\$0.0430	\$650,067
2015	15,111,897	\$0.0457	\$691,315
2016	15,111,897	\$0.0623	\$941,160
2017	15,111,897	\$0.0652	\$985,943
2018	15,111,897	\$0.0689	\$1,041,098
2019	15,111,897	\$0.0724	\$1,094,602
2020	15,111,897	\$0.0718	\$1,085,410
2021	15,111,897	\$0.0749	\$1,132,079
2022	15,111,897	\$0.0796	\$1,203,497
2023	15,111,897	\$0.0823	\$1,243,566
2024	15,111,897	\$0.0819	\$1,237,438
2025	14,144,743	\$0.0840	\$1,188,246
2026	10,936,636	\$0.0872	\$953,714
2027	4,103,781	\$0.0901	\$369,578
2028	1,044,534	\$0.0924	\$96,496
Net Present Value at 7.17% Discount Rate			\$7,234,245

*Actual Production

**Estimated Resource Value Calculation #1 - Standard Avoided Cost
November 1, 2012**

Year	On-Peak	Off-Peak	6/7 On-Peak	1/7 Off-Peak	On-Peak	Off-Peak	Calculated	Line Loss	Resource
	Sch 37	Sch 37			Allocation	Allocation			Value
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
			=6/7	=1/7	(a) x (c)	(b) x (d)	(e) + (f)		(g) / 100 x (1+(h))
2010	\$3.60	\$2.88	86%	14%	\$ 3.08	\$ 0.41	\$ 3.50	9.18%	\$ 0.0382
2011	\$2.91	\$1.68	86%	14%	\$ 2.49	\$ 0.24	\$ 2.74	9.18%	\$ 0.0299
2012	\$3.09	\$2.32	86%	14%	\$ 2.65	\$ 0.33	\$ 2.98	9.18%	\$ 0.0325
2013	\$3.72	\$2.62	86%	14%	\$ 3.19	\$ 0.37	\$ 3.56	9.18%	\$ 0.0389
2014	\$4.13	\$2.80	86%	14%	\$ 3.54	\$ 0.40	\$ 3.94	9.18%	\$ 0.0430
2015	\$4.39	\$2.99	86%	14%	\$ 3.76	\$ 0.43	\$ 4.19	9.18%	\$ 0.0457
2016	\$6.04	\$3.69	86%	14%	\$ 5.18	\$ 0.53	\$ 5.70	9.18%	\$ 0.0623
2017	\$6.32	\$3.91	86%	14%	\$ 5.42	\$ 0.56	\$ 5.98	9.18%	\$ 0.0652
2018	\$6.66	\$4.21	86%	14%	\$ 5.71	\$ 0.60	\$ 6.31	9.18%	\$ 0.0689
2019	\$6.99	\$4.50	86%	14%	\$ 5.99	\$ 0.64	\$ 6.63	9.18%	\$ 0.0724
2020	\$6.94	\$4.41	86%	14%	\$ 5.95	\$ 0.63	\$ 6.58	9.18%	\$ 0.0718
2021	\$7.23	\$4.65	86%	14%	\$ 6.20	\$ 0.66	\$ 6.86	9.18%	\$ 0.0749
2022	\$7.67	\$5.04	86%	14%	\$ 6.57	\$ 0.72	\$ 7.29	9.18%	\$ 0.0796
2023	\$7.92	\$5.24	86%	14%	\$ 6.79	\$ 0.75	\$ 7.54	9.18%	\$ 0.0823
2024	\$7.89	\$5.16	86%	14%	\$ 6.76	\$ 0.74	\$ 7.50	9.18%	\$ 0.0819
2025	\$8.09	\$5.32	86%	14%	\$ 6.93	\$ 0.76	\$ 7.69	9.18%	\$ 0.0840
2026	\$8.39	\$5.57	86%	14%	\$ 7.19	\$ 0.80	\$ 7.99	9.18%	\$ 0.0872
2027	\$8.66	\$5.78	86%	14%	\$ 7.42	\$ 0.83	\$ 8.25	9.18%	\$ 0.0901
2028	\$8.88	\$5.95	86%	14%	\$ 7.61	\$ 0.85	\$ 8.46	9.18%	\$ 0.0924
Net Present Value at 7.17% Discount Rate									\$0.5912
Nominal Levelized Cost (2010 \$)									\$0.0579

**Estimated Resource Value #2 - Renewable Avoided Cost
November 1, 2012**

Year	KWH	Nominal Cost (\$/KWH)	(KWH * RV KWH)
			Resource Value
2010*	967,154	\$0.0382	\$36,913
2011*	4,175,261	\$0.0299	\$124,686
2012	11,008,116	\$0.0310	\$341,673
2013	14,067,363	\$0.0379	\$533,826
2014	15,111,897	\$0.0414	\$625,790
2015	15,111,897	\$0.0448	\$676,466
2016	15,111,897	\$0.0483	\$730,442
2017	15,111,897	\$0.0519	\$784,182
2018	15,111,897	\$0.0719	\$1,085,881
2019	15,111,897	\$0.0724	\$1,093,895
2020	15,111,897	\$0.0735	\$1,110,394
2021	15,111,897	\$0.0735	\$1,111,101
2022	15,111,897	\$0.0748	\$1,130,664
2023	15,111,897	\$0.0761	\$1,150,463
2024	15,111,897	\$0.0774	\$1,169,084
2025	14,144,743	\$0.0787	\$1,112,795
2026	10,936,636	\$0.0800	\$874,736
2027	4,103,781	\$0.0813	\$333,798
2028	1,044,534	\$0.0829	\$86,623
Net Present Value at 7.17% Discount Rate			\$6,812,900

*Actual Production

**Estimated Resource Value Calculation #2 - Renewable Avoided Cost
November 1, 2012**

Year	On-Peak Sch 37	Off-Peak Sch 37	6/7 On-Peak	1/7 Off-Peak	On-Peak Allocation	Off-Peak Allocation	Calculated	Line Loss	Resource Value (\$/kWh)
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
			=6/7	=1/7	(a) x (c)	(b) x (d)	(e) + (f)		(g) / 100 x (1+(h))
2010	\$3.60	\$2.88	86%	14%	\$ 3.08	\$ 0.41	\$ 3.50	9.18%	\$ 0.0382
2011	\$2.91	\$1.68	86%	14%	\$ 2.49	\$ 0.24	\$ 2.74	9.18%	\$ 0.0299
2012	\$2.94	\$2.26	86%	14%	\$ 2.52	\$ 0.32	\$ 2.84	9.18%	\$ 0.0310
2013	\$3.61	\$2.67	86%	14%	\$ 3.09	\$ 0.38	\$ 3.48	9.18%	\$ 0.0379
2014	\$3.93	\$2.97	86%	14%	\$ 3.37	\$ 0.42	\$ 3.79	9.18%	\$ 0.0414
2015	\$4.26	\$3.14	86%	14%	\$ 3.65	\$ 0.45	\$ 4.10	9.18%	\$ 0.0448
2016	\$4.61	\$3.33	86%	14%	\$ 3.95	\$ 0.48	\$ 4.43	9.18%	\$ 0.0483
2017	\$4.96	\$3.51	86%	14%	\$ 4.25	\$ 0.50	\$ 4.75	9.18%	\$ 0.0519
2018	\$6.83	\$5.09	86%	14%	\$ 5.85	\$ 0.73	\$ 6.58	9.18%	\$ 0.0719
2019	\$6.85	\$5.31	86%	14%	\$ 5.87	\$ 0.76	\$ 6.63	9.18%	\$ 0.0724
2020	\$6.95	\$5.41	86%	14%	\$ 5.96	\$ 0.77	\$ 6.73	9.18%	\$ 0.0735
2021	\$6.90	\$5.74	86%	14%	\$ 5.91	\$ 0.82	\$ 6.73	9.18%	\$ 0.0735
2022	\$7.02	\$5.85	86%	14%	\$ 6.02	\$ 0.84	\$ 6.85	9.18%	\$ 0.0748
2023	\$7.14	\$5.97	86%	14%	\$ 6.12	\$ 0.85	\$ 6.97	9.18%	\$ 0.0761
2024	\$7.25	\$6.10	86%	14%	\$ 6.21	\$ 0.87	\$ 7.09	9.18%	\$ 0.0774
2025	\$7.37	\$6.22	86%	14%	\$ 6.32	\$ 0.89	\$ 7.21	9.18%	\$ 0.0787
2026	\$7.49	\$6.34	86%	14%	\$ 6.42	\$ 0.91	\$ 7.33	9.18%	\$ 0.0800
2027	\$7.61	\$6.49	86%	14%	\$ 6.52	\$ 0.93	\$ 7.45	9.18%	\$ 0.0813
2028	\$7.76	\$6.61	86%	14%	\$ 6.65	\$ 0.94	\$ 7.60	9.18%	\$ 0.0829
							Net Present Value at 7.17% Discount Rate		\$0.5580
							Nominal Levelized Cost (2010 \$)		\$0.0547

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Year	KWH	Nominal Cost (\$/KWH)	(KWH * RV KWH)
			Resource Value
2010*	967,154	\$0.0382	\$36,913
2011*	4,175,261	\$0.0299	\$124,686
2012	11,008,116	\$0.0325	\$358,156
2013	14,067,363	\$0.0371	\$522,032
2014	15,111,897	\$0.0410	\$619,337
2015	15,111,897	\$0.0418	\$632,071
2016	15,111,897	\$0.0457	\$690,999
2017	15,111,897	\$0.0503	\$760,086
2018	15,111,897	\$0.0574	\$866,699
2019	15,111,897	\$0.0597	\$902,802
2020	15,111,897	\$0.0571	\$863,517
2021	15,111,897	\$0.0636	\$961,410
2022	15,111,897	\$0.0704	\$1,064,121
2023	15,111,897	\$0.0738	\$1,114,526
2024	15,111,897	\$0.0709	\$1,071,051
2025	14,144,743	\$0.0730	\$1,032,977
2026	10,936,636	\$0.0742	\$811,331
2027	4,103,781	\$0.0781	\$320,491
2028	1,044,534	\$0.0795	\$83,048
Net Present Value at 7.17% Discount Rate			\$6,225,676

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Year	All-Hours IRP Method (¢/kWh) (a)	Capacity IRP Method (\$/kW-yr) (b)	Capacity Factor (c)	Capacity Contribution (ELCC) (d)	All-Hours (¢/kWh) (e) <small>(a) + (d) * (b) / (87.6 * (c))</small>	Line Loss (f)	Resource Value (\$/kWh) (g) <small>(e) / 100 x (1+(f))</small>
2010	3.50		22.6%	13.6%	3.50	9.18%	\$ 0.0382
2011	2.74		22.6%	13.6%	2.74	9.18%	\$ 0.0299
2012	2.98		22.6%	13.6%	2.98	9.18%	\$ 0.0325
2013	3.40		22.6%	13.6%	3.40	9.18%	\$ 0.0371
2014	3.75		22.6%	13.6%	3.75	9.18%	\$ 0.0410
2015	3.83		22.6%	13.6%	3.83	9.18%	\$ 0.0418
2016	3.72	\$68.12	22.6%	13.6%	4.19	9.18%	\$ 0.0457
2017	3.79	\$119.02	22.6%	13.6%	4.61	9.18%	\$ 0.0503
2018	4.42	\$121.29	22.6%	13.6%	5.25	9.18%	\$ 0.0574
2019	4.62	\$123.46	22.6%	13.6%	5.47	9.18%	\$ 0.0597
2020	4.37	\$125.54	22.6%	13.6%	5.23	9.18%	\$ 0.0571
2021	4.95	\$127.81	22.6%	13.6%	5.83	9.18%	\$ 0.0636
2022	5.56	\$130.12	22.6%	13.6%	6.45	9.18%	\$ 0.0704
2023	5.85	\$132.47	22.6%	13.6%	6.76	9.18%	\$ 0.0738
2024	5.57	\$134.85	22.6%	13.6%	6.49	9.18%	\$ 0.0709
2025	5.75	\$137.28	22.6%	13.6%	6.69	9.18%	\$ 0.0730
2026	5.83	\$139.74	22.6%	13.6%	6.79	9.18%	\$ 0.0742
2027	6.17	\$142.41	22.6%	13.6%	7.15	9.18%	\$ 0.0781
2028	6.29	\$145.12	22.6%	13.6%	7.28	9.18%	\$ 0.0795
Net Present Value at 7.17% Discount Rate							\$0.5173
Nominal Levelized Cost (2010 - 2028)							\$0.0507

Source:

- (a) 2010-2011: Average historical prices experienced at Mid-Columbia
2012: Oregon Schedule 37 Market Electricity Rates
2013-2028: IRP Methodology
- (b) Capacity payment represents the fixed and variable cost of the 2016 CCCT outlined in the Company's 2011 IRP preferred

**Table 8
Total Cost of Displaceable Resources**

Year	Estimated Capital Cost \$/kW (a)	Fixed Capital Cost at Real Levelized \$/kW-yr (b)	Fixed O&M \$/kW-yr (c)	Variable O&M \$/MWh (d)	Total O&M at Expected CF \$/kW-yr (e)	Total Resource Fixed Costs \$/kW-yr (f)	Fuel Cost \$/MMBtu (g)	IRP Resource Energy Cost \$/MWh (h)	Total Avoided Costs \$/MWh (i)
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CCCT (Wet "F" 2x1) - West Side Options (1500')

2010	\$994	\$83.20	\$7.56	\$3.06	\$21.10	\$104.30			
2011		\$85.11	\$7.73	\$3.13	\$21.58	\$106.69			
2012		\$86.39	\$7.85	\$3.18	\$21.92	\$108.31			
2013		\$87.95	\$7.99	\$3.24	\$22.32	\$110.27			
2014		\$89.62	\$8.14	\$3.30	\$22.74	\$112.36			
2015		\$91.41	\$8.30	\$3.37	\$23.21	\$114.62			
2016		\$93.15	\$8.46	\$3.43	\$23.63	\$116.78	\$4.89	\$34.03	\$60.43
2017		\$94.92	\$8.62	\$3.50	\$24.10	\$119.02	\$5.21	\$36.26	\$63.16
2018		\$96.72	\$8.78	\$3.57	\$24.57	\$121.29	\$5.63	\$39.18	\$66.60
2019		\$98.46	\$8.94	\$3.63	\$25.00	\$123.46	\$6.03	\$41.97	\$69.88
2020		\$100.13	\$9.09	\$3.69	\$25.41	\$125.54	\$5.90	\$41.06	\$69.44
2021		\$101.93	\$9.25	\$3.76	\$25.88	\$127.81	\$6.23	\$43.36	\$72.25
2022		\$103.76	\$9.42	\$3.83	\$26.36	\$130.12	\$6.79	\$47.26	\$76.67
2023		\$105.63	\$9.59	\$3.90	\$26.84	\$132.47	\$7.07	\$49.21	\$79.15
2024		\$107.53	\$9.76	\$3.97	\$27.32	\$134.85	\$6.95	\$48.37	\$78.85
2025		\$109.47	\$9.94	\$4.04	\$27.81	\$137.28	\$7.17	\$49.90	\$80.93
2026		\$111.44	\$10.12	\$4.11	\$28.30	\$139.74	\$7.51	\$52.27	\$83.86
2027		\$113.56	\$10.31	\$4.19	\$28.85	\$142.41	\$7.81	\$54.36	\$86.55
2028		\$115.72	\$10.51	\$4.27	\$29.40	\$145.12	\$8.04	\$55.96	\$88.76
2029		\$117.92	\$10.71	\$4.35	\$29.95	\$147.87	\$8.23	\$57.28	\$90.71
2030		\$120.16	\$10.91	\$4.43	\$30.51	\$150.67	\$8.32	\$57.91	\$91.97
2031		\$122.56	\$11.13	\$4.52	\$31.13	\$153.69	\$8.44	\$58.74	\$93.48
2032		\$124.89	\$11.34	\$4.61	\$31.73	\$156.62	\$8.60	\$59.86	\$95.26
2033		\$127.26	\$11.56	\$4.70	\$32.35	\$159.61	\$8.76	\$60.97	\$97.05
2034		\$129.81	\$11.79	\$4.79	\$32.98	\$162.79	\$8.94	\$62.22	\$99.02
2035		\$132.28	\$12.01	\$4.88	\$33.60	\$165.88	\$9.10	\$63.34	\$100.84

Table 8
Total Cost of Displaceable Resources

Sources, Inputs and Assumptions

- Source: (a)(c)(d) Plant Costs - 2011 IRP - Table 6.2 & 6.6
 (b) = (a) x 0.0837
 (e) = (d) x (8.76 x 50.5%) + (c)
 (f) = (b) + (e)
 (g) Gas Price Forecast
 (h) = 6960 x (g) / 1000
 (i) = (f) / (8.76 x 'Capacity Factor') + (h)

CCCT (Wet "F" 2x1) - West Side Options (1500')

CCCT Statistics	MW	Percent	Cap Cost	Fixed
CCCT (Wet "F" 2x1)	539	86.2%	\$1,067	\$8.69
CCCT Duct Firing (Wet "F" 2x1)	86	13.8%	\$538	\$0.50
Capacity Weighted	625	100.0%	\$994	\$7.56

CCCT Statistics	MW	CF	aMW	Percent	Variable	Heat Rate
CCCT (Wet "F" 2x1)	539	56.0%	302	95.6%	\$2.98	6,885
CCCT Duct Firing (Wet "F" 2x1)	86	16.0%	14	4.4%	4.85	8,681
Energy Weighted	625	50.5%	316	100.0%	\$3.06	6,960

Rounded

CCCT | Duct Firing | Plant Costs - 2011 IRP - Table 6.2 & 6.6

539	86	MW Plant capacity
\$1,067	\$538	Plant capacity cost
\$8.69	\$0.50	Fixed O&M plus on-going capital cost
\$2.98	\$4.85	Variable O&M and Other Costs
6,885	8,681	Heat Rate in btu/kWh
8.37%	8.37%	Payment Factor
56%	16%	Capacity Factor
	50.5%	Energy Weighted Capacity Factor
	88.6%	Capacity Factor - On-peak 50.5% / 57% (percent of hours on-peak)

Company Official Inflation Forecast - Dated December 2011

2011	2.3%	2017	1.9%	2023	1.8%	2029	1.9%
2012	1.5%	2018	1.9%	2024	1.8%	2030	1.9%
2013	1.8%	2019	1.8%	2025	1.8%	2031	2.0%
2014	1.9%	2020	1.7%	2026	1.8%	2032	1.9%
2015	2.0%	2021	1.8%	2027	1.9%	2033	1.9%
2016	1.9%	2022	1.8%	2028	1.9%	2034	2.0%
						2035	1.9%

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Month	Avoided Cost \$/MWH			
	All Hours	HLH	LLH	
Jan 2010	45.93	46.84	41.24	Market Prices (Mid Columbia)
Feb 2010	44.04	44.65	40.36	
Mar 2010	39.27	40.29	33.98	
Apr 2010	37.39	38.33	32.11	
May 2010	29.46	30.43	25.37	
Jun 2010	14.09	16.87	3.35	
Jul 2010	34.02	36.68	22.98	
Aug 2010	37.87	39.96	28.09	
Sep 2010	35.35	36.78	28.26	
Oct 2010	31.19	31.53	28.91	
Nov 2010	33.97	34.89	30.30	
Dec 2010	33.93	34.55	30.72	
Jan 2011	28.01	29.29	21.35	
Feb 2011	26.38	28.20	15.44	
Mar 2011	19.14	20.51	12.03	
Apr 2011	26.47	29.41	9.99	
May 2011	20.78	25.41	4.58	
Jun 2011	20.14	24.65	(1.27)	
Jul 2011	26.94	31.41	8.40	
Aug 2011	31.77	34.11	20.77	
Sep 2011	32.96	33.80	28.77	
Oct 2011	26.64	26.87	25.10	
Nov 2011	32.35	33.46	27.94	
Dec 2011	31.63	32.14	28.96	/
Jan 2012	28.91	29.79	25.20	Schedule 37 Market Prices
Feb 2012	27.43	28.44	21.09	
Mar 2012	25.94	26.43	22.65	
Apr 2012	27.59	28.60	21.91	
May 2012	24.03	26.19	16.46	
Jun 2012	22.25	24.65	10.88	
Jul 2012	30.84	33.40	22.01	
Aug 2012	35.81	37.22	27.43	
Sep 2012	33.79	34.66	29.45	
Oct 2012	31.98	33.03	26.52	
Nov 2012	32.61	33.74	26.94	
Dec 2012	33.20	34.28	27.60	/
Jan 2013	32.40	33.17	28.42	IRP Methodology Avoided Cost
Feb 2013	34.30	35.05	29.79	
Mar 2013	31.47	32.58	25.69	
Apr 2013	30.96	32.81	20.62	
May 2013	29.18	32.44	15.39	
Jun 2013	28.05	31.29	15.54	
Jul 2013	38.68	42.12	24.41	
Aug 2013	43.00	45.12	30.32	
Sep 2013	36.95	38.56	30.55	
Oct 2013	35.56	36.20	31.20	
Nov 2013	32.40	33.36	27.58	
Dec 2013	29.11	30.02	25.31	
Jan 2014	35.64	36.47	31.32	
Feb 2014	37.82	38.64	32.93	
Mar 2014	35.53	36.72	29.31	

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Month	Avoided Cost \$/MWH		
	All Hours	HLH	LLH
Apr 2014	33.68	35.45	23.75
May 2014	31.92	35.10	18.46
Jun 2014	29.65	32.63	18.13
Jul 2014	44.18	47.88	28.82
Aug 2014	49.24	52.14	35.65
Sep 2014	43.78	45.34	36.00
Oct 2014	36.87	37.55	32.25
Nov 2014	29.68	30.75	25.44
Dec 2014	31.05	31.86	26.84
Jan 2015	30.55	31.38	26.20
Feb 2015	28.16	28.87	23.91
Mar 2015	35.50	36.83	28.60
Apr 2015	35.29	37.22	24.49
May 2015	31.83	35.57	18.76
Jun 2015	34.10	36.97	20.46
Jul 2015	46.92	50.90	30.40
Aug 2015	51.78	54.91	37.04
Sep 2015	41.35	42.96	33.38
Oct 2015	40.84	41.73	34.89
Nov 2015	28.33	29.46	23.81
Dec 2015	30.20	31.08	25.60
Jan 2016	70.12	72.75	59.17
Feb 2016	47.72	49.03	39.53
Mar 2016	47.90	49.45	37.46
Apr 2016	43.65	46.12	29.87
May 2016	43.35	48.42	25.62
Jun 2016	41.91	45.45	25.10
Jul 2016	50.74	55.86	33.14
Aug 2016	56.48	59.33	39.52
Sep 2016	40.19	41.85	31.88
Oct 2016	51.45	53.03	43.23
Nov 2016	49.69	51.49	40.72
Dec 2016	61.99	63.99	51.57
Jan 2017	42.19	43.96	34.85
Feb 2017	70.87	73.12	57.43
Mar 2017	49.76	51.49	38.06
Apr 2017	51.25	54.93	34.97
May 2017	49.94	54.90	28.97
Jun 2017	49.49	53.72	29.45
Jul 2017	59.46	65.53	38.54
Aug 2017	65.35	68.74	45.16
Sep 2017	54.76	57.18	42.68
Oct 2017	63.76	65.93	52.44
Nov 2017	66.44	69.04	53.43
Dec 2017	82.64	86.17	67.95
Jan 2018	99.06	102.74	79.88
Feb 2018	77.18	79.31	64.36
Mar 2018	60.20	61.59	50.80
Apr 2018	54.85	57.64	42.53
May 2018	55.86	59.13	42.05
Jun 2018	55.53	58.33	42.26

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Month	Avoided Cost \$/MWH		
	All Hours	HLH	LLH
Jul 2018	66.17	71.76	46.95
Aug 2018	69.78	73.09	50.08
Sep 2018	56.33	59.75	42.70
Oct 2018	67.06	69.31	51.88
Nov 2018	70.39	72.81	58.32
Dec 2018	85.53	89.30	69.80
Jan 2019	100.58	105.01	77.56
Feb 2019	78.19	80.06	66.93
Mar 2019	61.53	62.42	56.92
Apr 2019	57.05	58.63	48.21
May 2019	59.18	60.97	51.59
Jun 2019	62.80	64.98	54.37
Jul 2019	72.60	77.01	54.31
Aug 2019	71.76	74.88	53.16
Sep 2019	56.25	60.03	41.22
Oct 2019	62.34	64.81	45.68
Nov 2019	70.44	72.51	60.09
Dec 2019	83.18	86.97	67.38
Jan 2020	102.19	107.34	75.39
Feb 2020	75.98	77.92	63.86
Mar 2020	61.31	62.59	54.61
Apr 2020	58.21	59.61	50.33
May 2020	55.89	55.94	55.72
Jun 2020	57.41	59.56	47.18
Jul 2020	67.58	71.65	50.66
Aug 2020	68.96	72.56	52.00
Sep 2020	51.90	55.00	36.46
Oct 2020	63.09	65.61	46.07
Nov 2020	71.69	73.98	62.52
Dec 2020	85.76	88.68	70.55
Jan 2021	105.61	108.68	92.81
Feb 2021	82.82	84.51	72.67
Mar 2021	58.14	58.59	55.15
Apr 2021	66.46	67.26	62.01
May 2021	64.46	66.08	58.78
Jun 2021	60.85	62.54	52.81
Jul 2021	75.78	79.32	61.07
Aug 2021	80.24	83.95	62.84
Sep 2021	57.73	60.06	46.12
Oct 2021	70.45	73.06	56.91
Nov 2021	75.40	77.35	65.62
Dec 2021	88.66	91.18	75.54
Jan 2022	108.52	111.70	95.30
Feb 2022	85.23	86.96	74.84
Mar 2022	75.48	76.03	71.82
Apr 2022	73.12	73.96	68.47
May 2022	69.22	71.07	62.74
Jun 2022	66.35	67.93	58.83
Jul 2022	82.15	86.51	67.12
Aug 2022	86.65	89.86	67.49
Sep 2022	63.68	66.30	50.61

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Month	Avoided Cost \$/MWH		
	All Hours	HLH	LLH
Oct 2022	76.70	79.58	61.69
Nov 2022	78.27	80.31	68.07
Dec 2022	94.34	96.81	81.52
Jan 2023	114.48	117.54	98.56
Feb 2023	87.29	89.11	76.34
Mar 2023	87.69	88.68	82.49
Apr 2023	76.32	77.10	71.98
May 2023	70.69	72.25	64.06
Jun 2023	71.21	73.18	63.63
Jul 2023	87.24	91.06	71.37
Aug 2023	88.89	92.21	69.05
Sep 2023	64.24	67.38	51.74
Oct 2023	75.36	77.51	60.90
Nov 2023	81.61	83.54	71.92
Dec 2023	92.44	95.32	80.43
Jan 2024	115.11	118.33	98.35
Feb 2024	87.46	89.23	76.36
Mar 2024	67.83	68.48	64.47
Apr 2024	74.00	74.78	69.65
May 2024	71.52	73.03	66.25
Jun 2024	67.70	69.11	61.04
Jul 2024	87.07	91.25	69.73
Aug 2024	84.64	88.46	66.68
Sep 2024	64.95	67.43	52.60
Oct 2024	75.32	77.25	62.28
Nov 2024	81.75	83.93	73.02
Dec 2024	95.13	97.57	82.46
Jan 2025	117.31	120.44	104.28
Feb 2025	92.18	93.89	81.94
Mar 2025	71.82	72.17	69.44
Apr 2025	77.21	78.03	72.63
May 2025	73.90	75.84	67.10
Jun 2025	69.70	71.51	61.12
Jul 2025	85.68	89.67	69.13
Aug 2025	89.62	93.49	71.44
Sep 2025	65.50	68.03	52.90
Oct 2025	77.34	79.97	63.67
Nov 2025	85.86	87.75	76.36
Dec 2025	96.80	99.29	83.86
Jan 2026	122.02	125.88	105.93
Feb 2026	93.54	95.20	83.60
Mar 2026	69.14	69.62	65.94
Apr 2026	81.44	82.45	75.81
May 2026	77.11	78.95	70.66
Jun 2026	76.38	78.17	67.89
Jul 2026	88.24	92.95	72.02
Aug 2026	91.20	94.32	72.60
Sep 2026	66.79	69.31	54.23
Oct 2026	62.33	64.27	52.27
Nov 2026	85.88	87.84	76.06
Dec 2026	101.31	103.80	88.40

**Estimated Resource Value #3 - IRP Method Avoided Cost
November 1, 2012**

Month	Avoided Cost \$/MWH		
	All Hours	HLH	LLH
Jan 2027	126.49	128.57	115.68
Feb 2027	97.09	98.95	85.93
Mar 2027	72.15	72.81	68.71
Apr 2027	84.65	85.78	78.38
May 2027	80.41	82.02	73.59
Jun 2027	79.01	81.26	70.33
Jul 2027	91.47	95.50	74.75
Aug 2027	91.58	94.69	73.00
Sep 2027	65.15	67.83	54.45
Oct 2027	87.26	89.43	72.66
Nov 2027	88.85	90.75	79.35
Dec 2027	100.98	103.68	89.74
Jan 2028	126.69	129.29	113.21
Feb 2028	96.63	98.47	85.15
Mar 2028	74.61	75.32	70.91
Apr 2028	86.86	88.03	80.30
May 2028	82.52	84.60	75.25
Jun 2028	79.26	81.01	70.96
Jul 2028	95.40	99.45	78.60
Aug 2028	89.91	93.76	71.82
Sep 2028	66.42	68.71	55.06
Oct 2028	88.58	90.83	73.38
Nov 2028	91.39	93.46	83.08
Dec 2028	104.76	107.06	92.85