

April 28, 2023

VIA ELECTRONIC FILING

Public Utility Commission of Oregon Attn: Filing Center 201 High Street SE, Suite 100 Salem, OR 97301-3398

Re: UM 1729(7)—Standard Avoided Cost Purchases from Eligible Qualifying Facilities

In compliance with ORS 758.525 and Order No. 14-058 in Docket No. UM 1610, PacifiCorp d/b/a Pacific Power (PacifiCorp or the Company) hereby submits the enclosed update to its standard avoided cost schedule (formerly known as Schedule 37) to the Public Utility Commission of Oregon (Commission).

Oregon avoided cost filing requirements as listed in OAR 860-029-0040 and 860-029-0080 require the Company to file updated avoided costs at least every two years. The Commission Order No. 14-058 requires the Oregon investor-owned utilities to update avoided cost prices annually on May 1 of each year and within 30-days of Integrated Resource Plan (IRP) acknowledgment. Annual updates, filed on May 1 of each year, are required to update the following data inputs: (1) natural gas prices; (2) on-peak and off-peak forward looking electricity market prices; (3) production tax credit status; and (4) any other action or change in an acknowledged IRP relevant to the calculation of avoided costs.

The Company's current standard avoided cost prices were approved in docket UM 1729 Order No. 22-253. In the Commission's June 28, 2022 public input meeting, the Commission approved a modification to the renewable solar pricing to allocate a portion of the capacity value to off-peak hours, instead of allocating all capacity value to on-peak hours as specified in the approved methodology. The same underlying issue is present in this year's annual update, and PacifiCorp has applied the same modification: using the annual average avoided cost values for solar listed in Table 8 for both on-peak and off-peak periods. This change is not expected to impact the total compensation for a solar resource over the course of a year.

In support of this filing, PacifiCorp submits Appendix 1- Avoided Cost Study and Appendix 2-Method Write-up and Minimum Filing Requirements. Also included is a redline version of the Schedule 37 avoided cost price pages Sheet Nos. 37-6, 37-7, 37-8, and 37-9, which reflect the updates since the previous filing. Also provided are the supporting documentation in both "pdf" and original formats. Public Utility Commission of Oregon April 28, 2023 Page 2

PacifiCorp respectfully requests that all communications related to this filing be addressed to:

Oregon Dockets PacifiCorp 825 NE Multnomah Street, Suite 2000 Portland, OR 97232 oregondockets@pacificorp.com Zachary Rogala Attorney 825 NE Multnomah Street, Suite 2000 Portland, OR 97232 zachary.rogala@pacificorp

Please direct questions on this filing to Cathie Allen, Regulatory Affairs Manager, at (503) 813-5934.

Sincerely,

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Matthew McVee Vice President, Regulatory Policy and Operations

Enclosures

PACIFIC POWER PROPOSED TARIFF CHANGES TO STANDARD RATES

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2023



OREGON STANDARD AVOIDED COST RATE

AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

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Monthly Payments (Continued)

Firm Market Indexed and Non-Firm Market Index Avoided Cost Prices

In accordance with the terms of a contract with a Qualifying Facility, the Company shall pay for all separately metered kilowatt-hours of On-Peak and Off-Peak generation at the market prices calculated at the time of delivery. On-Peak and Off-Peak are defined in the definitions section of this schedule.

Avoided Cost Prices

	_			_ // _>	Wind
Deliveries	Base Loa	ad QF (1)	Wind (QF (1,2)	Integration
During	On-Peak	Off-Peak	On-Peak	Off-Peak	All hours
Calendar	Energy	Energy	Energy	Energy	Energy
Year	Price	Price	Price	Price	Charge
	(a)	(b)	 (c)	(d)	(e)
2023	13.84	7.59	13.61	7.35	0.23
2024	11.54	7.46	11.34	7.26	0.20
2025	11.41	7.68	11.14	7.41	0.27
2026	5.72	3.73	5.67	3.45	0.29
2027	6.04	4.01	5.96	3.69	0.33
2028	6.22	4.15	6.14	3.81	0.34
2029	6.39	4.28	6.47	4.10	0.18
2030	6.47	4.31	6.57	4.14	0.16
2031	6.69	4.49	6.92	4.44	0.05
2032	6.96	4.71	7.17	4.64	0.07
2033	7.17	4.87	7.44	4.85	0.02
2034	7.40	5.04	7.67	5.03	0.01
2035	7.49	5.09	7.77	5.07	0.02
2036	7.65	5.19	7.94	5.18	0.01
2037	7.95	5.44	8.25	5.44	0.00
2038	8.25	5.69	8.57	5.69	0.00
2039	8.54	5.93	8.86	5.92	0.00
2040	8.88	6.20	9.19	6.19	0.01

Standard Fixed Avoided Cost Prices for Base Load and Wind QF (¢/kWh)

(1) Standard Resource Sufficiency Period ends December 31, 2025 and Standard Resource Deficiency Period begins January 1, 2026.

(2) The avoided cost price has been reduced by wind or solar integration charges applicable to QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system). If wind or solar QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration charge.

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Avoided Cost Prices (Continued)

Standard Fixed Avoided Cost Prices for Fixed and Tracking Solar QF (¢/kWh)

Standard Fix	ed Avoided Co	ost Prices for F	ixe	d and Tracking	Solar QF (¢/kWh	l)	$\langle \mathbf{O} \rangle$
Deliveries	Fixed Sol	ar QF (1,2)		Tracking S	olar QF (1,2)	Solar Integration	(C)
During	On-Peak	Off-Peak		On-Peak	Off-Peak	All hours	
Calendar	Energy	Energy		Energy	Energy	Energy	
Year	Price	Price		Price	Price	Charge	
	(f)	(g)	_	(h)	(i)	(j)	
2023	13.24	6.98		13.24	6.98	0.61	
2024	11.35	7.27		11.35	7.27	0.19	
2025	11.29	7.56		11.29	7.56	0.12	
2026	4.25	3.64		4.30	3.64	0.09	
2027	4.39	3.78		4.44	3.78	0.24	
2028	4.55	3.92		4.60	3.92	0.23	
2029	4.88	4.24		4.93	4.24	0.04	
2030	4.91	4.25		4.96	4.25	0.05	
2031	5.14	4.47		5.19	4.47	0.02	
2032	5.37	4.68		5.42	4.68	0.03	
2033	5.56	4.86		5.62	4.86	0.01	
2034	5.75	5.03		5.81	5.03	0.01	
2035	5.81	5.07		5.87	5.07	0.01	
2036	5.93	5.18		5.99	5.18	0.01	
2037	6.20	5.44		6.26	5.44	0.00	
2038	6.47	5.69		6.53	5.69	0.00	
2039	6.72	5.92		6.78	5.92	0.00	
2040	6.98	6.17		7.05	6.17	0.03	I
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(1) Standard Resource Sufficiency Period ends December 31, 2025 and Standard Resource Deficiency Period begins January 1, 2026.

(2) The avoided cost price has been reduced by wind or solar integration charges applicable to QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system). If wind or solar QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration charge.

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Avoided Cost Prices (continued)

Renewable Fixed Avoided Cost Prices for Base Load and Wind QF (¢/kWh)

					Wind
Deliveries	Renewable Ba	use Load QF (1)	Wind	QF (1,2)	Integration
During	On-Peak	Off-Peak	On-Peak	Off-Peak	All hours
Calendar	Energy	Energy	Energy	Energy	Energy
Year	Price	Price	Price	Price	Charge
	(a)	(b)	(c)	(d)	(e)
2023	13.84	7.59	13.61	7.35	0.23
2024	11.54	7.46	11.34	7.26	0.20
2025	11.41	7.68	11.14	7.41	0.27
2026	5.35	3.16	3.90	2.87	0.29
2027	5.27	3.55	3.75	3.23	0.33
2028	5.32	3.73	3.76	3.39	0.34
2029	5.22	3.70	3.79	3.52	0.18
2030	5.27	3.81	3.84	3.65	0.16
2031	5.29	3.75	3.94	3.70	0.05
2032	5.34	3.95	3.95	3.88	0.07
2033	5.32	4.09	3.95	4.07	0.02
2034	5.43	4.17	4.03	4.15	0.01
2035	5.62	4.18	4.19	4.16	0.02
2036	5.89	4.07	4.43	4.06	0.01
2037	5.89	4.30	4.41	4.30	0.00
2038	5.99	4.42	4.48	4.42	0.00
2039	6.11	4.53	4.57	4.53	0.00
2040	6.37	4.50	4.78	4.48	0.01

(1) For the purpose of determining: (i) when the Renewable Qualifying Facility is entitled to renewable avoided cost prices; and (ii) the ownership of environmental attributes and the transfer of Green Tags to PacifiCorp, Renewable Sufficiency Period ends December 31, 2025 and Renewable Deficiency Period begins January 1, 2026.
 (2) The avoided cost price has been reduced by wind or solar integration charges applicable to QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system). If wind or solar QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration charge.

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Avoided Cost Prices (continued)

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Renewable F	ixed Avoided	Cost Prices for	r F	ixed and Trac	king Solar QF	(¢/	kWh)	
			1]	Solar	
Deliveries	Fixed Sola	ar QF (1,2)		Tracking So	olar QF (1,2)		Integration	
During	On-Peak	Off-Peak		On-Peak	Off-Peak		All hours	
Calendar	Energy	Energy		Energy	Energy		Energy	
Year	Price	Price		Price	Price		Charge	
	(f)	(g)	_	(h)	(i)		(j)	
2023	12.24	12.24		12.12	12.12		0.61	
2024	10.70	10.70		10.62	10.62		0.19	
2025	10.69	10.69		10.62	10.62		0.12	
2026	2.60	2.60		2.89	2.89		0.09	
2027	2.40	2.40		2.70	2.70		0.24	
2028	2.42	2.42		2.74	2.74		0.23	
2029	2.47	2.47		2.79	2.79		0.04	
2030	2.47	2.47		2.80	2.80		0.05	
2031	2.45	2.45		2.79	2.79		0.02	
2032	2.46	2.46		2.81	2.81		0.03	
2033	2.43	2.43		2.79	2.79		0.01	
2034	2.47	2.47		2.84	2.84		0.01	
2035	2.58	2.58		2.95	2.95		0.01	
2036	2.73	2.73		3.10	3.10		0.01	
2037	2.70	2.70		3.09	3.09		0.00	
2038	2.75	2.75		3.14	3.14		0.00	
2039	2.80	2.80		3.20	3.20		0.00	
2040	2.92	2.92		3.32	3.32		0.03	

(1) For the purpose of determining: (i) when the Renewable Qualifying Facility is entitled to renewable avoided cost prices; and (ii) the ownership of environmental attributes and the transfer of Green Tags to PacifiCorp, Renewable Sufficiency Period ends December 31, 2025 and Renewable Deficiency Period begins January 1, 2026.
 (2) The avoided cost price has been reduced by wind or solar integration charges applicable to QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system). If wind or solar QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration charge.

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Appendix 1

PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2023

Exhibit 1 Standard Avoided Cost Prices for Base Load QF \$/MWH

	Standard Avoide	d Resource			Base Load QF Resource		
Year	Avoided Firm Capacity Costs	Energy Only Price	Capacity Contribution	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	\$/kW-yr	\$/MWh		(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				=(a)*(c)	(d) *1000 / (100.0% x 8760 x 56%)	(e) + (b)	= (b)
	Market Based Pri	1005					*== 00
2023						\$138.43	\$75.89
2024	2023 through 202	25				\$115.42	\$74.58
2025	\$07.20	\$27.22	100.00/	07.00	¢10.04	\$114.10	\$76.78
2026	\$97.39	\$37.33	100.0%	97.39	\$19.84	\$57.17	\$37.33
2027	\$99.49	\$40.13	100.0%	99.49	\$20.26	\$60.40	\$40.13
2028	\$101.63	\$41.55	100.0%	101.63	\$20.70	\$62.25	\$41.55
2029	\$103.82	\$42.78	100.0%	103.82	\$21.15	\$63.92	\$42.78
2030	\$106.06	\$43.06	100.0%	106.06	\$21.60	\$64.66	\$43.06
2031	\$108.35	\$44.87	100.0%	108.35	\$22.07	\$66.94	\$44.87
2032	\$110.69	\$47.06	100.0%	110.69	\$22.54	\$69.61	\$47.06
2033	\$113.08	\$48.69	100.0%	113.08	\$23.03	\$71.72	\$48.69
2034	\$115.52	\$50.44	100.0%	115.52	\$23.53	\$73.97	\$50.44
2035	\$118.01	\$50.88	100.0%	118.01	\$24.04	\$74.91	\$50.88
2036	\$120.55	\$51.94	100.0%	120.55	\$24.55	\$76.49	\$51.94
2037	\$123.15	\$54.40	100.0%	123.15	\$25.08	\$79.48	\$54.40
2038	\$125.80	\$56.92	100.0%	125.80	\$25.62	\$82.55	\$56.92
2039	\$128.51	\$59.26	100.0%	128.51	\$26.17	\$85.44	\$59.26
2040	\$131.28	\$62.04	100.0%	131.28	\$26.74	\$88.78	\$62.04
2040	\$134.11	\$63.38	100.0%	134.11	\$27.31	\$90.70	\$63.38
2041	\$137.00	\$64.75	100.0%	137.00	\$27.90	\$92.66	\$64.75
2042	\$157.00	JU4./J	100.070	13/.00	\$Z7.90	\$92.00	Ф04./ З

- (a) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (b) Fuel and Capitalized Energy Cost of the Proxy CCCT
- (c) Capacity Contribution of the Avoided Proxy and Base Load QF resources are assumed to be 100%.
- (e) 100.0% is the on-peak capacity factor of the Base Load QF resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource

Exhibit 2 Standard Avoided Cost Prices for Wind QF (1,2) \$/MWH

	Standard Avoided R	esource			Wind QF Resource		
Year	Avoided Firm Capacity Costs	Energy Only Price	Capacity Contribution	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	\$/kW-yr	\$/MWh		(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				= (a) * (c)	(d) *1000 / (36.6% x 8760 x 56%)	= (b) + (e) - Integration	= (b) - Integration
2023	Market Based Prices					\$136.08	\$73.54
2024	2023 through 2025					\$113.39	\$72.55
2025	less Wind Integration (2)					\$111.38	\$74.06
2026	\$97.39	\$37.33	41.2%	40.08	\$22.28	\$56.73	\$34.46
2027	\$99.49	\$40.13	41.2%	40.95	\$22.76	\$59.61	\$36.85
2028	\$101.63	\$41.55	41.2%	41.83	\$23.25	\$61.36	\$38.11
2029	\$103.82	\$42.78	41.2%	42.73	\$23.75	\$64.73	\$40.98
2030	\$106.06	\$43.06	41.2%	43.65	\$24.26	\$65.67	\$41.41
2031	\$108.35	\$44.87	41.2%	44.59	\$24.78	\$69.16	\$44.38
2032	\$110.69	\$47.06	41.2%	45.56	\$25.32	\$71.72	\$46.41
2033	\$113.08	\$48.69	41.2%	46.54	\$25.86	\$74.38	\$48.51
2034	\$115.52	\$50.44	41.2%	47.54	\$26.42	\$76.74	\$50.31
2035	\$118.01	\$50.88	41.2%	48.57	\$26.99	\$77.70	\$50.70
2036	\$120.55	\$51.94	41.2%	49.61	\$27.57	\$79.37	\$51.79
2037	\$123.15	\$54.40	41.2%	50.68	\$28.17	\$82.53	\$54.37
2038	\$125.80	\$56.92	41.2%	51.77	\$28.77	\$85.67	\$56.89
2039	\$128.51	\$59.26	41.2%	52.89	\$29.39	\$88.62	\$59.23
2040	\$131.28	\$62.04	41.2%	54.03	\$30.03	\$91.93	\$61.90
2041	\$134.11	\$63.38	41.2%	55.19	\$30.67	\$93.91	\$63.24
2042	\$137.00	\$64.75	41.2%	56.38	\$31.34	\$95.94	\$64.61

 The avoided cost price is reduced by a wind integration charge from Table 11 for wind QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system).
 If QF wind resource is not in PacifiCorp's BAA, prices will be increased by the integration charge from Table 11.

(2) Wind Integration Cost from Table 11.

- (a) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (b) Fuel and Capitalized Energy Cost of the Proxy CCCT
- (c) Capacity Contribution values for renewable QF (% of nameplate capacity), 2021 IRP
 Wind Capacity Contribution
 41.2% Seasonal weighting of values from Table 14
- (e) 36.6% is the on-peak capacity factor of the Wind QF Resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource

Exhibit 3 Standard Avoided Cost Prices for Fixed Solar QF \$/MWH

	Standard Avoided	Resource			Fixed Solar QF		
Year	Capacity Price	Energy Only Price	Capacity Contribution	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	\$/kW-yr	\$/MWh		(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				=(a) * (c)	(d) *1000 / (37.3% x 8760 x 56%)	= (b) + (e) - Integration	= (b) - Integration
2023	Market Based Prices					\$132.36	\$69.82
2024	2023 through 2025					\$113.50	\$72.66
2025	less Solar Integration (2)					\$112.88	\$75.56
2026	\$97.39	\$37.33	11.35%	\$11.06	\$6.04	\$42.46	\$36.42
2027	\$99.49	\$40.13	11.35%	\$11.30	\$6.17	\$43.93	\$37.76
2028	\$101.63	\$41.55	11.35%	\$11.54	\$6.30	\$45.52	\$39.23
2029	\$103.82	\$42.78	11.35%	\$11.79	\$6.43	\$48.81	\$42.38
2030	\$106.06	\$43.06	11.35%	\$12.04	\$6.57	\$49.09	\$42.52
2031	\$108.35	\$44.87	11.35%	\$12.30	\$6.72	\$51.38	\$44.67
2032	\$110.69	\$47.06	11.35%	\$12.57	\$6.86	\$53.66	\$46.79
2033	\$113.08	\$48.69	11.35%	\$12.84	\$7.01	\$55.58	\$48.57
2034	\$115.52	\$50.44	11.35%	\$13.12	\$7.16	\$57.49	\$50.33
2035	\$118.01	\$50.88	11.35%	\$13.40	\$7.31	\$58.06	\$50.75
2036	\$120.55	\$51.94	11.35%	\$13.69	\$7.47	\$59.29	\$51.82
2037	\$123.15	\$54.40	11.35%	\$13.98	\$7.63	\$61.98	\$54.35
2038	\$125.80	\$56.92	11.35%	\$14.28	\$7.80	\$64.67	\$56.88
2039	\$128.51	\$59.26	11.35%	\$14.59	\$7.96	\$67.18	\$59.21
2040	\$131.28	\$62.04	11.35%	\$14.91	\$8.14	\$69.83	\$61.70
2041	\$134.11	\$63.38	11.35%	\$15.23	\$8.31	\$71.34	\$63.03
2042	\$137.00	\$64.75	11.35%	\$15.56	\$8.49	\$72.88	\$64.39

 The avoided cost price is reduced by a solar integration charge from Table 11 for solar QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system).
 If QF solar resource is not in PacifiCorp's BAA, prices will be increased by the integration charge from Table 11.

(2) Solar Integration Cost from Table 11

Columns

(a) Full fixed cost of a proxy CCCT less Capitalized Energy Cost

(b) Fuel and Capitalized Energy Cost of the Proxy CCCT

(c) Capacity Contribution values for renewable QF (% of nameplate capacity), 2021 IRP
 Fixed Solar Capacity Contribution 11.4% Profile-specific value consistent with methodology used in Table 14

(e) 37.3% is the on-peak capacity factor of the Fixed Solar QF Resource 56% is the percent of all hours that are on-peak

(f) 2023-2025 On-Peak Blended Market Prices for QF resource

(g) 2023-2025 Off-Peak Blended Market Prices for QF resource

Exhibit 4 Standard Avoided Cost Prices for Tracking Solar QF \$/MWH

	Standard Avo	ided Resource			Tracking Solar QF		
Year	Capacity Price	Energy Only Price	Capacity Contribution	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	\$/kW-yr	\$/MWh		(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				=(a) * (c)	(d) *1000 / (43.0% x 8760 x 56%)	= (b) + (e) - Integration	= (b) - Integration
2023	Market Based Prices					\$132.36	\$69.82
2024	2023 through 2025					\$113.50	\$72.66
2025	ss Solar Integration (2)	/				\$112.88	\$75.56
2026	\$97.39	\$37.33	14.16%	\$13.79	\$6.54	\$42.96	\$36.42
2027	\$99.49	\$40.13	14.16%	\$14.09	\$6.68	\$44.44	\$37.76
2028	\$101.63	\$41.55	14.16%	\$14.39	\$6.82	\$46.05	\$39.23
2029	\$103.82	\$42.78	14.16%	\$14.70	\$6.97	\$49.35	\$42.38
2030	\$106.06	\$43.06	14.16%	\$15.02	\$7.12	\$49.64	\$42.52
2031	\$108.35	\$44.87	14.16%	\$15.34	\$7.27	\$51.94	\$44.67
2032	\$110.69	\$47.06	14.16%	\$15.67	\$7.43	\$54.23	\$46.79
2033	\$113.08	\$48.69	14.16%	\$16.01	\$7.59	\$56.16	\$48.57
2034	\$115.52	\$50.44	14.16%	\$16.36	\$7.75	\$58.08	\$50.33
2035	\$118.01	\$50.88	14.16%	\$16.71	\$7.92	\$58.67	\$50.75
2036	\$120.55	\$51.94	14.16%	\$17.07	\$8.09	\$59.91	\$51.82
2037	\$123.15	\$54.40	14.16%	\$17.44	\$8.27	\$62.62	\$54.35
2038	\$125.80	\$56.92	14.16%	\$17.81	\$8.44	\$65.32	\$56.88
2039	\$128.51	\$59.26	14.16%	\$18.20	\$8.63	\$67.84	\$59.21
2040	\$131.28	\$62.04	14.16%	\$18.59	\$8.81	\$70.51	\$61.70
2041	\$134.11	\$63.38	14.16%	\$18.99	\$9.00	\$72.03	\$63.03
2042	\$137.00	\$64.75	14.16%	\$19.40	\$9.20	\$73.59	\$64.39

(1) The avoided cost price is reduced by a solar integration charge from Table 11 for

solar QF resources located in PacifiCorp's Balancing Area Authority (BAA) (in-system).

If QF solar resource is not in PacifiCorp's BAA, prices will be increased by the integration charge from Table 11.

(2) Solar Integration Cost from Table 11

- (a) Full fixed cost of a proxy CCCT less capitalized energy
- (b) Fuel and Capitalized Energy Cost of the Proxy CCCT
- (c) Peak Capacity Contribution values for renewables (% of nameplate capacity) Tracking Solar Capacity Contribution 14.2% Seasonal weighting of values from Table 14
- (e) 43.0% is the on-peak capacity factor of the Tracking Solar QF Resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource

Exhibit 5

Renewable Standard Avoided Cost Prices for Base Load QF \$/MWH

	Renewable Wind	Avoided Resource	Re	enewable Base Load	QF Resource		
Year	On-Peak	Off-Peak	Avoided Firm Capacity Costs	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	(\$/MWh)	(\$/MWh)	\$/kW-yr	(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(c) x 59%	(d) *1000 / (100.0%x 8760 x 56%)	=(a) + (e) + Int	= (b) + Int
2023	Market Based Price	es				\$138.43	\$75.89
2024	2023 through 2025					\$115.42	\$74.58
2025						\$114.10	\$76.78
2026	\$38.96	\$28.70	\$97.39	\$57.31	\$11.67	\$53.51	\$31.58
2027	\$37.51	\$32.25	\$99.49	\$58.54	\$11.92	\$52.71	\$35.53
2028	\$37.61	\$33.90	\$101.63	\$59.80	\$12.18	\$53.23	\$37.34
2029	\$37.94	\$35.24	\$103.82	\$61.09	\$12.44	\$52.18	\$37.04
2030	\$38.36	\$36.46	\$106.06	\$62.41	\$12.71	\$52.72	\$38.11
2031	\$39.40	\$37.02	\$108.35	\$63.76	\$12.99	\$52.88	\$37.52
2032	\$39.46	\$38.83	\$110.69	\$65.13	\$13.27	\$53.38	\$39.49
2033	\$39.49	\$40.68	\$113.08	\$66.54	\$13.55	\$53.22	\$40.86
2034	\$40.34	\$41.54	\$115.52	\$67.98	\$13.85	\$54.31	\$41.67
2035	\$41.91	\$41.61	\$118.01	\$69.44	\$14.14	\$56.23	\$41.78
2036	\$44.31	\$40.58	\$120.55	\$70.94	\$14.45	\$58.91	\$40.73
2037	\$44.07	\$42.98	\$123.15	\$72.47	\$14.76	\$58.86	\$43.01
2038	\$44.79	\$44.18	\$125.80	\$74.03	\$15.08	\$59.90	\$44.21
2039	\$45.65	\$45.25	\$128.51	\$75.62	\$15.40	\$61.09	\$45.28
2040	\$47.78	\$44.83	\$131.28	\$77.25	\$15.73	\$63.66	\$44.97
2041	\$48.13	\$46.53	\$134.11	\$78.92	\$16.07	\$64.35	\$46.68
2042	\$52.29	\$43.64	\$137.00	\$80.62	\$16.42	\$68.86	\$43.79

- (a) Table 13 Column (d)
- (b) Table 13 Column (e)
- (c) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (d) Column (c) multiplied by difference in capacity contribution relative to renewable proxy wind resource
- (e) 100.0% is the on-peak capacity factor of the Proxy CCCT Resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource
- Int During the deficiency period, prices are increased by the avoided wind integration charge from Table 11

Exhibit 6 Renewable Standard Avoided Cost Prices for Wind QF (1) \$/MWH

	Renewable Wind Avoi	ided Resource	1	Wind QF Re	source	Wind QF Resource	e
Year	On-Peak	Off-Peak	Avoided Firm Capacity Costs	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	(\$/MWh)	(\$/MWh)	\$/kW-yr	(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(c) x 0%	(d) *1000 / (36.6%x 8760 x 56%)	= (a) + (e) + Int	= (b) + Int
2023	Market Based Prices					\$136.08	\$73.54
2024	2023-2025					\$113.39	\$72.55
2025						\$111.38	\$74.06
2026	\$38.96	\$28.70	\$97.39	\$0.00	\$0.00	\$38.96	\$28.70
2027	\$37.51	\$32.25	\$99.49	\$0.00	\$0.00	\$37.51	\$32.25
2028	\$37.61	\$33.90	\$101.63	\$0.00	\$0.00	\$37.61	\$33.90
2029	\$37.94	\$35.24	\$103.82	\$0.00	\$0.00	\$37.94	\$35.24
2030	\$38.36	\$36.46	\$106.06	\$0.00	\$0.00	\$38.36	\$36.46
2031	\$39.40	\$37.02	\$108.35	\$0.00	\$0.00	\$39.40	\$37.02
2032	\$39.46	\$38.83	\$110.69	\$0.00	\$0.00	\$39.46	\$38.83
2033	\$39.49	\$40.68	\$113.08	\$0.00	\$0.00	\$39.49	\$40.68
2034	\$40.34	\$41.54	\$115.52	\$0.00	\$0.00	\$40.34	\$41.54
2035	\$41.91	\$41.61	\$118.01	\$0.00	\$0.00	\$41.91	\$41.61
2036	\$44.31	\$40.58	\$120.55	\$0.00	\$0.00	\$44.31	\$40.58
2037	\$44.07	\$42.98	\$123.15	\$0.00	\$0.00	\$44.07	\$42.98
2038	\$44.79	\$44.18	\$125.80	\$0.00	\$0.00	\$44.79	\$44.18
2039	\$45.65	\$45.25	\$128.51	\$0.00	\$0.00	\$45.65	\$45.25
2040	\$47.78	\$44.83	\$131.28	\$0.00	\$0.00	\$47.78	\$44.83
2041	\$48.13	\$46.53	\$134.11	\$0.00	\$0.00	\$48.13	\$46.53
2042	\$52.29	\$43.64	\$137.00	\$0.00	\$0.00	\$52.29	\$43.64

(1) If wind QF is not in PacifiCorp's BAA, prices in all years will be increased by the wind integration charge from Table 11.

(2) Wind Integration Cost from Table 11

- (a) Table 13 Column (d)
- (b) Table 13 Column (e)
- (c) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (d) Column (c) multiplied by difference in capacity contribution relative to renewable proxy wind resource
- (e) 36.6% is the on-peak capacity factor of the Wind QF resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource
- Int During the deficiency period, the stated avoided cost prices reflect the same integration costs for the avoided wind proxy and a wind QF in PacifiCorp's Balancing Area Authority (BAA). During the sufficiency period, the stated avoided cost prices are reduced by the integration charge from Table 11 applicable to wind QF resources located in PacifiCorp's BAA (in-system).

Exhibit 7

Renewable Standard Avoided Cost Prices for Fixed Solar QF (1) \$/MWH

	Renewable Wind Ave	oided Resource		Fixed Solar QF Resou	rce	Fixed S	olar QF
Year	On-Peak	Off-Peak	Avoided Firm Capacity Costs	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	(\$/MWh)	(\$/MWh)	\$/kW-yr	(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(c) x -29.8%	(d) *1000 / (37.3%x 8760 x 56%)	=(a) + (e) + Int	= (b) + Int
2023	Market Based Prices					\$132.36	\$69.82
2024	2023-2025					\$113.50	\$72.66
2025						\$112.88	\$75.56
2026	\$38.96	\$28.70	\$97.39	(\$29.02)	(\$15.84)	\$25.08	\$30.67
2027	\$37.51	\$32.25	\$99.49	(\$29.65)	(\$16.18)	\$22.24	\$33.16
2028	\$37.61	\$33.90	\$101.63	(\$30.29)	(\$16.53)	\$22.19	\$35.02
2029	\$37.94	\$35.24	\$103.82	(\$30.94)	(\$16.89)	\$22.45	\$36.64
2030	\$38.36	\$36.46	\$106.06	(\$31.61)	(\$17.25)	\$22.21	\$37.57
2031	\$39.40	\$37.02	\$108.35	(\$32.29)	(\$17.63)	\$22.07	\$37.31
2032	\$39.46	\$38.83	\$110.69	(\$32.99)	(\$18.01)	\$21.84	\$39.22
2033	\$39.49	\$40.68	\$113.08	(\$33.70)	(\$18.39)	\$21.16	\$40.74
2034	\$40.34	\$41.54	\$115.52	(\$34.43)	(\$18.79)	\$21.56	\$41.55
2035	\$41.91	\$41.61	\$118.01	(\$35.17)	(\$19.20)	\$22.76	\$41.65
2036	\$44.31	\$40.58	\$120.55	(\$35.93)	(\$19.61)	\$24.73	\$40.61
2037	\$44.07	\$42.98	\$123.15	(\$36.70)	(\$20.03)	\$24.02	\$42.97
2038	\$44.79	\$44.18	\$125.80	(\$37.49)	(\$20.46)	\$24.31	\$44.16
2039	\$45.65	\$45.25	\$128.51	(\$38.30)	(\$20.90)	\$24.73	\$45.24
2040	\$47.78	\$44.83	\$131.28	(\$39.12)	(\$21.36)	\$26.22	\$44.62
2041	\$48.13	\$46.53	\$134.11	(\$39.97)	(\$21.82)	\$26.10	\$46.32
2042	\$52.29	\$43.64	\$137.00	(\$40.83)	(\$22.29)	\$29.79	\$43.43

(1) If solar QF is not in PacifiCorp's BAA, prices in all years will be increased by the solar integration charge from Table 11.

(2) Solar Integration Cost from Table 11

- (a) Table 13 Column (d)
- (b) Table 13 Column (e)
- (c) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (d) Column (c) multiplied by difference in capacity contribution relative to renewable proxy wind resource
- (e) 37.3% is the on-peak capacity factor of the Fixed Solar QF resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource
- Int During the deficiency period, the stated avoided cost prices reflect the difference in integration costs for the avoided wind proxy and a solar QF in PacifiCorp's Balancing Area Authority (BAA). During the sufficiency period, the stated avoided cost prices are reduced by the integration charge from Table 11 applicable to solar QF resources located in PacifiCorp's BAA (in-system).

Exhibit 8

Renewable Standard Avoided Cost Prices for Tracking Solar QF (1) \$/MWH

	Renewable Win	nd Avoided Resource		Tracking Solar QF R	esource	Tracking	Solar QF
Year	On-Peak	Off-Peak	Avoided Firm Capacity Costs	QF Capacity Adder	Capacity Adder Allocated to On-Peak Hours	On-Peak	Off-Peak
	(\$/MWh)	(\$/MWh)	\$/kW-yr	(\$/kW-yr)	(\$/MWh)	\$/MWh	\$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				(c) x -27.0%	(d) *1000 / (43.0%x 8760 x 56%)	=(a) + (e) + Int	= (b) + Int
2023 2024	Market Based P 2023-2025	rices				\$132.36 \$113.50	\$69.82 \$72.66
2025						\$112.88	\$75.56
2026	\$38.96	\$28.70	\$97.39	(\$26.29)	(\$12.46)	\$28.46	\$30.67
2027	\$37.51	\$32.25	\$99.49	(\$26.86)	(\$12.73)	\$25.69	\$33.16
2028	\$37.61	\$33.90	\$101.63	(\$27.44)	(\$13.01)	\$25.72	\$35.02
2029	\$37.94	\$35.24	\$103.82	(\$28.03)	(\$13.29)	\$26.05	\$36.64
2030	\$38.36	\$36.46	\$106.06	(\$28.63)	(\$13.57)	\$25.89	\$37.57
2031	\$39.40	\$37.02	\$108.35	(\$29.25)	(\$13.87)	\$25.83	\$37.31
2032	\$39.46	\$38.83	\$110.69	(\$29.88)	(\$14.17)	\$25.68	\$39.22
2033	\$39.49	\$40.68	\$113.08	(\$30.53)	(\$14.47)	\$25.08	\$40.74
2034	\$40.34	\$41.54	\$115.52	(\$31.19)	(\$14.79)	\$25.57	\$41.55
2035	\$41.91	\$41.61	\$118.01	(\$31.86)	(\$15.10)	\$26.85	\$41.65
2036	\$44.31	\$40.58	\$120.55	(\$32.54)	(\$15.43)	\$28.91	\$40.61
2037	\$44.07	\$42.98	\$123.15	(\$33.25)	(\$15.76)	\$28.29	\$42.97
2038	\$44.79	\$44.18	\$125.80	(\$33.96)	(\$16.10)	\$28.67	\$44.16
2039	\$45.65	\$45.25	\$128.51	(\$34.69)	(\$16.45)	\$29.19	\$45.24
2040	\$47.78	\$44.83	\$131.28	(\$35.44)	(\$16.80)	\$30.77	\$44.62
2041	\$48.13	\$46.53	\$134.11	(\$36.21)	(\$17.16)	\$30.76	\$46.32
2042	\$52.29	\$43.64	\$137.00	(\$36.99)	(\$17.53)	\$34.54	\$43.43

(1) If solar QF is not in PacifiCorp's BAA, prices in all years will be increased by the solar integration charge from Table 11.

(2) Solar Integration Cost from Table 11

- (a) Table 13 Column (d)
- (b) Table 13 Column (e)
- (c) Full fixed cost of a proxy CCCT less Capitalized Energy Cost
- (d) Column (c) multiplied by difference in capacity contribution relative to renewable proxy wind resource
- (e) 43.0% is the on-peak capacity factor of the Tracking Solar QF Resource 56% is the percent of all hours that are on-peak
- (f) 2023-2025 On-Peak Blended Market Prices for QF resource
- (g) 2023-2025 Off-Peak Blended Market Prices for QF resource
- Int During the deficiency period, the stated avoided cost prices reflect the difference in integration costs for the avoided wind proxy and a solar QF in PacifiCorp's Balancing Area Authority (BAA).
 During the sufficiency period, the stated avoided cost prices are reduced by the integration charge from Table 11 applicable to solar QF resources located in PacifiCorp's BAA (in-system).

Exhibit 9 Market Price - Blending Matrix (1)

		On-H	Peak			Off-l	Peak	
Period	COB	Mid Columbia	Palo Verde	Total	COB	Mid Columbia	Palo Verde	Total
1/1/2023	81.9%	17.1%	1.0%	100.0%	0.0%	78.3%	21.7%	100.0%
2/1/2023	58.4%	26.3%	15.3%	100.0%	40.7%	37.4%	21.9%	100.0%
3/1/2023	36.0%	31.1%	32.9%	100.0%	18.8%	51.6%	29.6%	100.0%
4/1/2023	34.5%	40.3%	25.2%	100.0%	0.0%	58.7%	41.3%	100.0%
5/1/2023	0.2%	88.7%	11.1%	100.0%	0.0%	87.0%	13.0%	100.0%
6/1/2023	0.4%	99.3%	0.4%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2023	4.8%	94.2%	1.0%	100.0%	0.7%	99.3%	0.0%	100.0%
8/1/2023	20.7%	78.8%	0.5%	100.0%	0.0%	99.2%	0.8%	100.0%
9/1/2023	33.8%	61.5%	4.7%	100.0%	0.0%	77.3%	22.7%	100.0%
10/1/2023	0.0%	89.2%	10.8%	100.0%	0.0%	48.9%	51.1%	100.0%
11/1/2023	0.0%	96.5%	3.5%	100.0%	0.0%	84.7%	15.3%	100.0%
12/1/2023	0.0%	97.9%	2.1%	100.0%	0.0%	86.8%	13.2%	100.0%

1/1/2040	15.7%	77.8%	6.5%	100.0%	18.9%	72.3%	8.7%	100.0%
2/1/2040	27.7%	64.3%	8.0%	100.0%	41.5%	43.4%	15.1%	100.0%
3/1/2040	25.1%	68.0%	6.9%	100.0%	49.1%	43.7%	7.2%	100.0%
4/1/2040	29.7%	61.3%	9.0%	100.0%	26.6%	71.2%	2.2%	100.0%
5/1/2040	22.2%	72.4%	5.5%	100.0%	22.6%	70.4%	7.0%	100.0%
6/1/2040	28.5%	66.7%	4.8%	100.0%	27.9%	64.7%	7.4%	100.0%
7/1/2040	27.4%	69.7%	2.9%	100.0%	32.5%	63.1%	4.4%	100.0%
8/1/2040	30.8%	63.4%	5.8%	100.0%	38.5%	51.8%	9.7%	100.0%
9/1/2040	33.7%	59.0%	7.2%	100.0%	41.9%	54.3%	3.8%	100.0%
10/1/2040	36.4%	56.0%	7.6%	100.0%	30.9%	39.2%	29.9%	100.0%
11/1/2040	28.8%	64.2%	7.0%	100.0%	21.6%	64.4%	14.0%	100.0%
12/1/2040	31.8%	65.9%	2.3%	100.0%	33.4%	66.0%	0.5%	100.0%
1/1/2041	15.7%	77.8%	6.5%	100.0%	0.0%	100.0%	0.0%	100.0%
2/1/2041	27.7%	64.3%	8.0%	100.0%	0.0%	100.0%	0.0%	100.0%
3/1/2041	25.1%	68.0%	6.9%	100.0%	0.0%	100.0%	0.0%	100.0%
4/1/2041	29.7%	61.3%	9.0%	100.0%	0.0%	100.0%	0.0%	100.0%
5/1/2041	22.2%	72.4%	5.5%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2041	28.5%	66.7%	4.8%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2041	27.4%	69.7%	2.9%	100.0%	0.0%	100.0%	0.0%	100.0%
8/1/2041	30.8%	63.4%	5.8%	100.0%	0.0%	100.0%	0.0%	100.0%
9/1/2041	33.7%	59.0%	7.2%	100.0%	0.0%	100.0%	0.0%	100.0%
10/1/2041	36.4%	56.0%	7.6%	100.0%	0.0%	100.0%	0.0%	100.0%
11/1/2041	28.8%	64.2%	7.0%	100.0%	0.0%	100.0%	0.0%	100.0%
12/1/2041	31.8%	65.9%	2.3%	100.0%	0.0%	100.0%	0.0%	100.0%
1/1/2042	15.7%	77.8%	6.5%	100.0%	0.0%	100.0%	0.0%	100.0%
2/1/2042	27.7%	64.3%	8.0%	100.0%	0.0%	100.0%	0.0%	100.0%
3/1/2042	25.1%	68.0%	6.9%	100.0%	0.0%	100.0%	0.0%	100.0%
4/1/2042	29.7%	61.3%	9.0%	100.0%	0.0%	100.0%	0.0%	100.0%
5/1/2042	22.2%	72.4%	5.5%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2042	28.5%	66.7%	4.8%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2042	27.4%	69.7%	2.9%	100.0%	0.0%	100.0%	0.0%	100.0%
8/1/2042	30.8%	63.4%	5.8%	100.0%	0.0%	100.0%	0.0%	100.0%
9/1/2042	33.7%	59.0%	7.2%	100.0%	0.0%	100.0%	0.0%	100.0%
10/1/2042	36.4%	56.0%	7.6%	100.0%	0.0%	100.0%	0.0%	100.0%
11/1/2042	28.8%	64.2%	7.0%	100.0%	0.0%	100.0%	0.0%	100.0%
12/1/2042	31.8%	65.9%	2.3%	100.0%	0.0%	100.0%	0.0%	100.0%

(1) Blending weights are calculated using system balancing purchases and sales from GRID run using March 2023 Official Forward Price Curve

Thermal Plant Retirements, Conversions																						
Coal Plant End-of-life Retirements																						
Craig 1	-	-	-	-	-	(82)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(82)	
Craig 2	-	-	-	-	-	-	-	-	(79)	-	-	-	-	-	-	-	-	-	-	-	(79)	
DaveJohnston 1	-	-	-	-	-	-	-	(99)	-	-	-	-	-	-	-	-	-	-	-	-	(99)	
DaveJohnston 2	-	-	-	-	-	-	-	(106)	-	-	-	-	-	-	-	-	-	-	-	-	(106)	
DaveJohnston 3	-	-	-	-	-	-	-	(220)	-	-	-	-	-	-	-	-	-	-	-	-	(220)	
DaveJohnston 4	-	-	-	-	-	-	-	(330)	-	-	-	-	-	-	-	-	-	-	-	-	(330)	
Hayden 1	-	-	-	-	-	-	-	-	(44)	-	-	-	-	-	-	-	-		-	-	(44)	_
Hayden 2	-	-	-	-	-	-	-	(33)	-	-	-	-	-	-	-	-	-	-	-	-	(33)	
Huntington 1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(459)		-	-	-	
Huntington 2	-	-	-	-	-	-	-			-	-	-	-	-	-	-	(450)		-	-	-	
Wyodak	-	-	-	-	-	-						-	-	-	-	-	-		-	(268)	-	
Coal Early Retirements						1						II		1	I		1			(200)		_
Naughton 1 (Coal Early Retirement - 2025)		-	-	-	-	(156)	-		-			- I			-	-	-			-	(156)	
Naughton 2 (Coal Early Retirement - 2025)	-		-	-		(201)		-		-		-	-	-	-	-	-		-	-	(201)	_
Gas Plant End-of-life Retirements	-	-	-	-	-	(201)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Gadsby 1		1		1	1								((1))								-	
Gadsby 1 Gadsby 2	-	-	-	-	-	-	-	-	-	-	-	-	(64)	-	-	-	-		-		-	
				-	-		-	-	-	-	-	-	(69)	-	-	-	-	-	-		-	
Gadsby 3	-	-	-			-		-		-				-			-		-	-	-	
Gadsby 4	-	-	-	-	-	-	-	-	-	-	-	-	(40)	-	-	-	-	-	-	-	-	
Gadsby 5	-	-	-	-	-	-	-	-	-	-	-	-	(40)	-	-	-	-	-	-	-	-	
Gadsby 6	-	-	-	-	-	-	-	-	-	-	-	-	(40)	-	-	-	-	-	-	-	-	
Naughton 3 GC	-	-	-	-	-	-	-	-	-	(247)	-	-	-	-	-	-	-	-	-	-	(247)	
Non-Thermal Retirements & Expirations																						
Retire - Hydro			-																			
Hydro - Utah North - ID	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	
Hydro - Utah North	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Hydro - Utah South	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Expire - Wind PPA																						
Wind-Wyoming East	-	-	-	-	-	-	-	-	(99)	(200)	-	-	-	-	-	-	-	-	-	-	(299)	
Wind-Goshen	-	-	-	-	-	(65)			-		-	-	-	-	-	-	-		-	-	(65)	
Retire - Wind													•									
Wind-Wyoming East	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Wind-Wyoming North	-	-	-		-	-	-		-	-		-	-	-	-	-	-	-		-	-	
Expire - Solar PPA																						_
Solar-Utah North	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(73)		-	-	-	_
Solar-Utah South	-	-		-	-		-				-	-	-	-	-	-	-		-	-	-	
Expire - QF												1 1					1				· · · · ·	_
Qualified Facility - Solar	-		-		-						-		-		(19)	(59)	(671)	(11)	(71)	(52)	-	_
Qualified Facility - Wind	-		-		-	-	(3)		(19)			(45)	(181)	(80)	-	(140)	-		-	(52)	(22)	
Qualified Facility - Thermal	-	-	-	(50)	-		-	-	(1)	-		(13)	(101)	(00)		-	-				(50)	
Qualified Facility - Geothermal	-	-	-	(50)		-	-	-	-	-		-	-	-	-	-	-		-	-	-	_
Qualified Facility - Hydro	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-		-		-	
Expire - Other			-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-			_
Hydro PPA - GOE		1	-	(22)	-							<u>г</u>				1				i	(22)	_
				<u> </u>		-	-	-		-	-	-	-	-	-	-		-			(22)	
Contract - MNA	-	-	-	-	(91)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Contract - UTS	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
Contract - WYE	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
Contract Exchange - 4CR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Retire - Other			r						r													
Existing - Geothermal	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	(32)	-	-	-	
MagCorp Interruptible	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Monsanto Curtailment	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nucor Interruptible	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	
Reserves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	. —
Existing - DR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Existing - EE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Battery - Panguitch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Retire - Solar			(I						· · · · · ·										L	•	·	-
Solar-Utah North	-		-	. 1	-	. 1			. 1		-			-	-	-	-	-	-		-	-

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Table 1
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Expansion Resources																						
NonEmitting Peaker																						
NonEmitting Peaker - Utah North	-	-	-	-	-	-	-	-	-	-	-	-	206	-	-	-	-	-	-	-	-	
NonEmitting Peaker - Naughton	-	-	-	-	-	-	-	-	-	-	-	-	196	-	-	-	-	-	-	-	-	
NonEmitting Peaker - Wyodak	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	206	-	
Nuclear																						
Advanced-Nuclear-Naughton	-	-	-	-	-	-	-	345	-	-	-	-	-	-	-	-	-	-	-	-	345	
Nuclear Storage																						
Nuclear Storage - Naughton	-	-	-	-	-	-	-	155	-	-		-	-	-	-	-	-	-	-	-	155	
Renewable - Wind																						
Wind, Wyoming East	-	-	-	-	-	-	-	-	-	489	-	-	-	-	-	-	-	-	-	60	489	
Wind-Wyoming East	49	-	-	43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	92	
RFP-Wind - Goshen	-	-	151	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	151	_
RFP-Wind - Wyoming East	-	-	-	-	1,641		-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,641	
Renewable - Utility Solar							11															
RFP-Solar PV - Utah South	-	-	-	95	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	-
Utility Solar + Storage - PV - Utah North	-	-	-	-	-		-	-	-	-	820	-	-	-	-	-	-	-	-	-	820	
Utility Solar + Storage - PV - Utah South	-	-	-	-	-		-	-	-	-	-	-	1,100	-	-	-	-		-	-	-	-
Utility Solar + Storage - PV - Hunter	-	-	-	-		-	-	-	-	1	-	-	-	-	-	-	909	-	-	-	1	-
RFP-PVS Solar - Utah North	-	-	-	45		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	-
RFP-PVS Solar - Utah South	-	-	-	498	455	-	-	-	-	-		-	-	-	-		-		-	-	953	
Renewable - Battery, Solar+Storage	I			170			II														,	-
PVS Battery - Utah North	- 1	- 1	-	-	-		-	-		-	820	-	-	-	-	-	-		-		820	-
PVS Battery - Utah South	-	-	-	-		-	-	-	-	-	-	-	1,100	-	-	-		-	-	-	-	-
PVS Battery - Hunter	-	-		-			-	-	-	1	-	-	-	-	-	-	909		-		1	-
RFP-PVS Battery - Utah North	-	-		13			-	-	-	-	-	-		-	-	-	-		-		13	_
RFP-PVS Battery - Utah South	-	-		174	258		-	-	-	-	-	-		-	-	-			-		432	_
Battery - Stand Alone	-	-	-	1/4	238	-	-	-	-	-	-	-	-	-	-	-	-	-	-		432	
Battery Storage - DJ+Wyodak	-	-	-	-			-	1	549	1	-	-		-	-			-	1	I	550	_
RFP-Battery Storage - Utah-N	-	-	-	200	-	-	-	-	549		-	-	-	-	-	-	-	-		-	200	
DSM - Demand Response	-	-	-	200	-	-	-	-	-	-	-	-		-	-	-	-		-	- 1	200	_
DSM - Demand Response DR Summer - ID	- 1		1	10	2	1	1	4	(2	2	2	3	2	15	2	3	5	2	5	28	_
DR Summer - ID DR Summer - UT	-	-	29		2	3	5	4	6	2	2	2		2	30	30	3	34	3 29		28	_
		-	-	26	8	3	5	10	9	8	10	11	105	20	50			54		42		
DR Summer - WY	-	-	1	1	1	1	1	1	1	1	1	1	2	1	1	1	1	1	4	36	8	
DR Winter - ID	-	-	1	1	0	1	1	2	2	2	2	2	4	2	2	2	3	2	7	8	11	
DR Winter - UT	-	-	35	41	3	3	4	6	10	7	8	12	73	22	24	34	59	24	27	74	117	
DR Winter - WY	-	-	0	1	0	1	1	1	1	1	1	1	3	1	1	1	1	1	6	30	6	
RFP- DSM DRS - Goshen	-	5	6	3	3	3		3	3	3	3	-	-	-	-	-	-	-	-	-	34	
RFP- DSM DRS - Utah North	-	55	59	9	9	9		9	9	9	9	-	-	-	-	-	-	-	-	-	186	
RFP- DSM DRS - Wyoming Central	-	17	2	3	3	3	3	3	3	3	3	-	-	-	-	-	-		-	-	41	_
DSM - Energy Efficiency																						
Energy Efficiency, ID	6	6	6	7	9	12		16	18	20	20	20	19	18	17	15	13	11	9	8	134	
Energy Efficiency, UT	60	67	73	82	97	109		138	145	166	166	161	151	137	121	105	110	95	86	88	1,227	
Energy Efficiency, WY	8	7	7	18	19	21	23	24	24	24	23	21	19	17	15	12	10	9	8	8	198	
Energy Efficiency-Home Energy Report, ID	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	
Energy Efficiency-Home Energy Report, UT	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	
Front Office Transactions																						_
FOT - Mona, Winter		-	-	-					-	-		-	-	-	-		1		-		-	-

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st																						
st Thermal Plant Retirements, Conversions																						
Coal Plant End-of-life Retirements																					-	-
Colstrip 3	-	-	-	-	-	(74)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(74)	(74)
Colstrip 4	-	-	-	-	-	(74)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(74)	(74) (349)
JimBridger 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(349)	-	-	-	(349)
JimBridger 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(351)	-	-	-	(351
Coal - Gas Conversions																						
JimBridger 1 GC (2024)	-	-	-	354		-	-	-	-	-	-	-	-	-	-	-	-	(354)	-	-	354	-
JimBridger 2 GC (2024)	-	-	-	359		-	-	-	-	-	-	-	-	-	-	-	-	(359)	-	-	359	-
2024.JimBridger 1 GC, Coal Ends	-	-	-	(354)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(354)	(354
2024.JimBridger 2 GC, Coal Ends	-	-	-	(359)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(359)	(359
Gas Plant End-of-life Retirements																						
Hermiston	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(237)	-	-	-	-	(237)
Non-Thermal Retirements & Expirations																						
Retire - Hydro																						
Hydro - Southern OR	-	-	(163)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(163)	(163
Expire - Wind PPA																						
Wind-Walla Walla - WA	-	(175)		(41)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(216)	(216
Wind-Mid-C	-	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	175
Retire - Wind																						
Wind-Walla Walla - WA	-	(10)) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(10)	(10
Expire - Solar PPA																						
Solar-Southern OR	-	-	-	-	-	-	-	(2)	-	-	-	(8)	-	-	-	-	-	-	-	-	(2)	(10)
Expire - QF																						
Qualified Facility - Solar	-	-	-	-	-	-	-	-	-	-	-	(36)	-	(12)	-	(10)	(73)	(20)	(29)		-	(179
Qualified Facility - Wind	-	-	-	-	-	-	-	-	(65)	-	-	-	-	-	-	-	-	-	-	(40)	(65)	(105)
Qualified Facility - Biomass	-	-	-	-	-	-	(26)	-	-	-	-	-	-	-	-	-	-	-	-	-	(26)	(26
Qualified Facility - Hydro	-	(2) -	-	-	-	-	-	-	(0)	-	-	-	-	-	-	-	-	-	-	(2)	(2
Expire - Other																						
Contract - SOR	-	11	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	11	11
Contract - BDG	-	-	-	2	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	2	2
Contract - MDC	-	-	-	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25

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Expansion Resources																						
NonEmitting Peaker																						-
NonEmitting Peaker - Bridger	-	-	-	-	-	-		-	-		-	-	-	-		-	-	412	-	-	-	
NonEmitting Peaker - Hermiston	-	-		-	-			-	-				-	-	-		-	206	-	-	-	
Nuclear															I							
Advanced-Nuclear-Bridger	-	-		-	-			-		-	-		-	-			-	690	-		-	
Nuclear Storage									I									070				
Nuclear Storage - Bridger	-			-	-			-		-	-	-	-	-	-		-	310	-		-	
Renewable - Wind	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	310	-		-	
Wind, Portland North Coast	-				-	130 (*)					-	450			-			-			130	
Wind, Willamette Valley	-			-	-	615 (*)	-	-	-	-	-	430	-	-	-	-	-	-	-	-	615	
	-	-	-	-	-	615(-)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	015	
Renewable - Wind+Storage																				r	1.40	
Wind+Storage, Yakima	-	-	-	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	160	
Utility Solar + Storage - PV - BorahPop	-	-	-	-	-	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	
Utility Solar + Storage - PV - Central OR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-	-	
Utility Solar + Storage - PV - Southern OR	-	-	-	-	-	-	-	83	-	377	-	-	-	-	-	-	-	-	-	-	460	
Utility Solar + Storage - PV - Yakima	-	-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	156	180	
RFP-PVS Solar - Southern OR	-	-	-	209	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	209	
PVS Battery - Central OR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-	-	
PVS Battery - Southern OR	-	-	-	-	-	-	-	42	-	377	-	-	-	-	-	-	-	-	-	-	419	
PVS Battery - Yakima	-	-	-	-	-	-	-	-	-	180	-	-	-	-	-	-	-	-	-	156	180	
PVS Battery - BorahPop	-	-	-	-	-	600	-	-	-	-	-	-	-	-	-	-	-	-	-	-	600	
RFP-PVS Battery - Southern OR	-	-	-	53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	53	
Battery Storage - Portland NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	650	-	-	-	-	
Pump Storage - West	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	-	
DSM - Demand Response								÷														
DR Summer - CA	-	-	1	2	1	0	1	1	1	1	1	1	1	1	1	1	2	4	2	3	7	
DR Summer - OR	-	-	16	16	6	5	7	8	2	8	8	10	14	9	26	11	10	25	13	53	78	_
DR Summer - WA	-	-	4	5	2	1	2	2	2	1	2	1	2	1	4	14	6	3	2	1	21	
DR Winter - CA	-	-	1	1	0	0	0	1	1	1	1	1	1	1	1	1	2	8	2	3	6	
DR Winter - OR	-	-	14	15	3	3	3	4	4	5	5	8	6	10	44	15	9	51	11	45	57	
DR Winter - WA	-	-	3	4	1	1	1	1	1	1	1	1	1	1	11	12	21	1	1	1	12	
RFP- DSM DRS - Southern OR - CA	-	2	2	1	1	1	1	1	1	1	1	-	-	-	-	-	-	-	-	-	9	-
RFP- DSM DRS - Southern OR	-	34	48	29	25	19	18	18	19	20	20	-	-			-	-	-	-	-	249	
RFP- DSM DRS - Yakima	-	11	19	16	13	10	8	6	5	5	5	-	-	-	-	-	-		-	-	100	
DSM - Energy Efficiency		.1	./	-5	.5	10	v	5	2	~	5				I		1	1		L	100	
Energy Efficiency, CA	1	2	1	2	2	2	2	4	4	4	3	3	3	2	2	2	2	2	2	2	26	
Energy Efficiency, OR	37	38	34	34	33	36	39	41	46	47	47	46	44	42	38	35	33	37	40	38	430	
Energy Efficiency, WA	10	38	19	21	26	30	39	41	40	47	47	40	37	33	29	24	21	17	40	38	328	-
Energy Efficiency-Home Energy Report, OR	4	4	5	- 21	- 20	-	- 30	40	- 42	-	-	-	-	-	- 29	- 24	- 21	-	-	-	13	-
Energy Efficiency-Home Energy Report, OR Energy Efficiency-Home Energy Report, WA	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		0	-
Front Office Transactions	U	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		U	
Front Office Transactions FOT - Mid-C, Summer	733	670	514	8		1														——————————————————————————————————————	1.925	
	236				-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
FOT - COB, Summer	236	216 86	166 66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	618	
FOT - NOB, Summer		86 22		-	-	-	-	-	-	-	-		-	-	-	-	-	- 200	-	-	247	
FOT - COB, Winter	58		2	-	-	-	-	-	-	-	-	-	-	-	-	-	-		21	150	82	
FOT - Mid-C, Winter	81	31	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	30	210	115	
FOT - NOB, Winter	23	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	8	60	33	
Existing Retirements and Conversion	-		-	(45)	(91)	(504)	(3)	(788)	(241)	(447)	-	(45)	(537)	(80)	(19)	(199)	(1.671)	(43)	(71)	(320)	(2,119)	
Existing Retirements and Conversion	-	- (1)	- (163)	(45)	(91)	(148)	(3)	(788)	(241)	(447)	-	(45)	(537)	(80)	(19)	(199)	(310)	(43)	(29)	(320)	(2,119)	
	153	156	371	1,270	2,507	164	189	716	779	737	1.888	232	2,979	221	225	203	2,083	183	179	566	8,931	
xpansion Resources Total																						

(*) Deficiency Period / Renewable Proxy Resource

Table 2
Avoided Costs (\$/MWh)
Energy Prices

					E	nergy Price	3					
Year			ter Season				Summer	Season		W	/inter Season	
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
On-Peak	(HLH Market	Purchase)										
2023		<i>.</i>			66.62	73.12	165.74	266.05	224.94	82.55	94.62	133.81
2024	130.30	108.98	68.08	55.75	49.04	57.79	191.98	236.99	182.85	78.19	93.44	131.60
2025	117.07	101.74	84.08	54.68	54.83	58.16	199.09	217.66	181.97	87.97	97.83	114.13
2026	112.36	94.72	74.64	63.71	35.99	48.02	129.78	148.42	124.95	69.82	76.14	90.49
2027	87.14	83.41	60.14	52.18	20.99	32.00	65.44	82.36	75.17	59.38	62.41	64.96
2028	58.73	69.05	40.07	35.97	20.89	31.99	66.73	81.50	75.25	62.35	63.99	65.02
2029	59.26	72.48	43.94	35.11	20.63	26.77	64.00	83.69	73.29	56.79	66.44	64.87
2030	60.60	73.95	44.29	32.40	21.20	28.24	66.11	83.47	74.90	55.89	66.09	69.03
2031	60.68	75.68	43.23	31.10	17.57	27.78	70.15	86.40	78.37	53.72	71.35	73.56
2032	59.00	68.76	45.03	29.14	15.01	26.35	61.85	84.61	76.87	53.35	64.92	75.22
2033	54.69	65.28	33.69	20.62	12.90	24.14	46.86	72.56	58.92	40.61	60.78	67.04
2034	46.87	66.63	39.44	25.97	11.96	22.82	54.07	70.05	63.67	43.82	57.15	72.62
2035	50.27	68.33	38.83	24.16	11.72	25.45	50.98	70.56	69.46	45.90	66.64	72.53
2036	57.65	69.77	41.13	22.98	8.12	26.25	65.51	76.25	73.40	44.89	69.55	77.13
2037	61.63	70.80	50.43	24.27	11.98	30.21	57.64	85.40	73.93	44.90	65.96	80.82
2038	57.54	78.84	44.64	24.66	12.73	30.45	64.52	89.90	79.78	49.51	74.37	82.60
2039	72.84	76.03	43.17	26.16	15.40	33.71	57.45	82.94	74.92	53.48	82.41	84.73
2040	64.01	81.15	47.65	30.49	16.01	36.67	62.49	88.15	84.08	61.22	92.71	94.72
2041	75.77	88.53	59.11	24.49	17.97	33.03	62.46	92.80	85.98	52.31	72.67	95.82
Off-Peak	(LLH Market	Purchase)										
2023					55.44	41.62	71.57	100.40	94.03	63.44	79.13	101.48
2024	103.46	90.67	55.14	51.26	41.94	43.50	84.12	114.13	83.06	56.17	69.91	101.63
2025	96.44	84.26	70.37	50.68	45.25	46.10	89.44	101.05	84.93	74.52	82.25	96.03
2026	88.63	77.50	63.97	51.98	36.89	41.75	74.31	82.67	72.10	66.42	69.64	78.89
2027	71.74	69.43	57.27	48.49	27.90	34.77	54.82	62.74	56.67	57.97	57.79	58.77
2028	52.51	60.49	47.38	38.40	26.27	34.97	56.37	64.17	59.33	57.29	58.77	60.08
2029	57.75	65.53	50.53	38.97	26.58	35.92	54.85	63.84	59.68	56.08	59.66	64.44
2030	58.10	66.54	50.02	39.45	26.38	34.91	57.19	66.90	63.37	59.31	61.67	72.07
2031	56.99	65.19	46.96	38.92	27.45	37.58	58.89	69.14	65.81	59.96	65.73	68.76
2032	56.09	63.60	53.05	39.95	25.15	37.00	60.59	66.68	65.26	58.16	66.09	69.60
2033	48.87	55.26	45.80	33.24	20.32	37.25	51.05	59.49	58.21	51.06	52.92	65.67
2034	45.98	62.97	44.15	34.06	16.59	37.43	57.93	59.15	61.95	52.55	54.71	70.41
2035	57.38	65.91	44.87	24.18	16.42	37.97	49.32	58.26	61.31	53.80	60.39	68.27
2036	50.42	58.69	38.25	28.43	13.28	39.32	52.33	63.20	62.24	56.32	58.95	68.70
2037	51.84	59.13	49.31	33.42	20.07	45.39	55.56	73.45	68.71	60.43	60.83	70.38
2038	51.10	72.94	48.17	35.52	20.13	44.52	67.63	70.48	68.46	64.92	74.01	74.31
2039	55.67	62.56	56.08	39.38	22.94	47.59	67.91	68.59	69.53	66.50	68.22	82.43
2040	50.53	75.74	52.46	28.43	20.43	47.86	63.24	76.24	76.47	65.01	81.06	85.60
2041	60.89	66.79	57.31	37.06	14.93	45.54	73.71	77.70	80.31	59.36	69.93	98.99

Combine	d											
2023					61.81	59.57	125.25	194.82	168.65	74.34	87.96	119.91
2024	118.76	101.11	62.52	53.82	45.98	51.65	145.60	184.16	139.94	68.72	83.33	118.71
2025	108.20	94.22	78.18	52.96	50.71	52.97	151.94	167.52	140.24	82.19	91.13	106.35
2026	102.15	87.31	70.05	58.67	36.38	45.32	105.93	120.15	102.23	68.36	73.35	85.50
2027	80.52	77.40	58.91	50.59	23.96	33.19	60.88	73.92	67.21	58.77	60.42	62.29
2028	56.05	65.37	43.21	37.01	23.20	33.27	62.28	74.05	68.40	60.17	61.75	62.89
2029	58.61	69.49	46.77	36.77	23.19	30.71	60.06	75.16	67.44	56.48	63.53	64.68
2030	59.53	70.77	46.76	35.43	23.43	31.11	62.28	76.35	69.94	57.36	64.19	70.34
2031	59.09	71.17	44.83	34.46	21.82	31.99	65.31	78.98	72.97	56.40	68.93	71.50
2032	57.75	66.54	48.48	33.79	19.37	30.93	61.31	76.90	71.88	55.42	65.42	72.81
2033	52.19	60.97	38.90	26.05	16.09	29.78	48.66	66.94	58.61	45.11	57.40	66.45
2034	46.49	65.06	41.47	29.45	13.95	29.10	55.73	65.36	62.93	47.57	56.10	71.67
2035	53.32	67.29	41.43	24.17	13.74	30.83	50.26	65.27	65.96	49.30	63.95	70.70
2036	54.54	65.01	39.89	25.32	10.34	31.87	59.85	70.64	68.60	49.80	64.99	73.51
2037	57.42	65.78	49.95	28.21	15.46	36.74	56.74	80.26	71.69	51.58	63.75	76.33
2038	54.77	76.30	46.16	29.33	15.91	36.50	65.86	81.55	74.91	56.14	74.22	79.04
2039	65.46	70.24	48.72	31.85	18.64	39.68	61.94	76.77	72.60	59.08	76.31	83.74
2040	58.21	78.82	49.72	29.60	17.91	41.48	62.82	83.03	80.81	62.85	87.70	90.80
2041	69.37	79.18	58.33	29.89	16.66	38.41	67.30	86.31	83.54	55.34	71.49	97.19

Annual Average

	On-Peak	Off-Peak	Combined
2023	\$138.43	\$75.89	\$111.54
2024	\$115.42	\$74.58	\$97.86
2025	\$114.10	\$76.78	\$98.05
2026	\$89.09	\$67.06	\$79.62
2027	\$62.13	\$54.86	\$59.00
2028	\$55.96	\$51.34	\$53.97
2029	\$55.61	\$52.82	\$54.41
2030	\$56.35	\$54.66	\$55.62
2031	\$57.47	\$55.11	\$56.45
2032	\$55.01	\$55.10	\$55.05
2033	\$46.51	\$48.26	\$47.26
2034	\$47.92	\$49.82	\$48.74
2035	\$49.57	\$49.84	\$49.69
2036	\$52.72	\$49.18	\$51.20
2037	\$54.83	\$54.04	\$54.49
2038	\$57.46	\$57.68	\$57.56
2039	\$58.60	\$58.95	\$58.75
2040	\$63.28	\$60.26	\$61.98
2041	\$63.41	\$61.88	\$62.75

Source 2023-2040: Offical Market Price Forecast dated March 2023

Blended Market Prices: weights are based on system balancing purchases and sales from GRID run using March 2023 Official Forward Price Curve

	Combined	Simple		Capitalized
Year	Cycle CT	Cycle CT	Capitalized	Energy Costs
	Fixed Costs	Fixed Costs	Energy Costs	71.5% CF
	(\$/kW-yr)	(\$/kW-yr)	(\$/kW-yr)	(\$/MWh)
	(a)	(b)	(c)	(d)
			((a) - (b))	(c)/(8.760 x 71.5%)
2026	\$141.52	\$97.39	\$44.13	\$7.05
2027	\$144.56	\$99.49	\$45.07	\$7.20
2028	\$147.66	\$101.63	\$46.03	\$7.35
2029	\$150.82	\$103.82	\$47.00	\$7.50
2030	\$154.05	\$106.06	\$47.99	\$7.66
2031	\$157.41	\$108.35	\$49.06	\$7.83
2032	\$160.82	\$110.69	\$50.13	\$8.00
2033	\$164.30	\$113.08	\$51.22	\$8.18
2034	\$167.85	\$115.52	\$52.33	\$8.35
2035	\$171.47	\$118.01	\$53.46	\$8.54
2036	\$175.15	\$120.55	\$54.60	\$8.72
2037	\$178.92	\$123.15	\$55.77	\$8.90
2038	\$182.76	\$125.80	\$56.96	\$9.09
2039	\$186.67	\$128.51	\$58.16	\$9.29
2040	\$190.66	\$131.28	\$59.38	\$9.48
2041	\$194.80	\$134.11	\$60.69	\$9.69
2042	\$199.02	\$137.00	\$62.02	\$9.90

Table 3Capitalized Energy Costs

Columns

(a) Table 9. Page 2 of 3 Column (f)

(b) Table 9. Page 1 of 3 Column (f)

(c) and (d) Capitalized energy costs reflect the incremental fixed cost of CCCT versus a SCCT

	Combine	ed Cycle	Capitalized	Total
Year	Gas Price	Energy Cost	Energy Costs	Standard Avoided
			71.5% CF	Energy Cost
	(\$/MMBtu)	(\$/MWh)	(\$/MWh)	(\$/MWh)
	(a)	(b)	(c)	(d)
		(a) x 6.310		(b) + (c)
2026	\$4.80	\$30.29	\$7.05	\$37.33
2027	\$5.22	\$32.94	\$7.20	\$40.13
2028	\$5.42	\$34.20	\$7.35	\$41.55
2029	\$5.59	\$35.27	\$7.50	\$42.78
2030	\$5.61	\$35.40	\$7.66	\$43.06
2031	\$5.87	\$37.04	\$7.83	\$44.87
2032	\$6.19	\$39.06	\$8.00	\$47.06
2033	\$6.42	\$40.51	\$8.18	\$48.69
2034	\$6.67	\$42.09	\$8.35	\$50.44
2035	\$6.71	\$42.34	\$8.54	\$50.88
2036	\$6.85	\$43.22	\$8.72	\$51.94
2037	\$7.21	\$45.50	\$8.90	\$54.40
2038	\$7.58	\$47.83	\$9.09	\$56.92
2039	\$7.92	\$49.98	\$9.29	\$59.26
2040	\$8.33	\$52.56	\$9.48	\$62.04
2041	\$8.51	\$53.70	\$9.69	\$63.38
2042	\$8.69	\$54.85	\$9.90	\$64.75

Table 4Total Standard Avoided Energy Cost

Columns

(a) Table 10

- (b) 6.310 MWh/MMBtu Heat Rate Table 9. Page 3 of 3
- (c) Table 3 Column (d)

Table 5Total Standard Avoided Cost

V	Avoided Firm	Total	,	Total Standard Avoided C	
Year	$\begin{array}{c c} Capacity\\ Costs\\ \hline \\ \hline$	Standard Avoided	7.50/	At Stated Capacity Fact	
		Energy Cost	75%	85%	90%
	(\$/kW-yr)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)
	(a)	(b)	(c)	(d)	(e)
			(b)+(a) x1000/(8760 x 0.75)	(b)+(a) x1000/(8760 x 0.85)	(b)+(a) x1000/(8760 x 0.9)
2026	\$97.39	\$37.33	\$52.16	\$50.41	\$49.69
2027	\$99.49	\$40.13	\$55.28	\$53.50	\$52.75
2028	\$101.63	\$41.55	\$57.02	\$55.20	\$54.44
2029	\$103.82	\$42.78	\$58.58	\$56.72	\$55.95
2030	\$106.06	\$43.06	\$59.20	\$57.30	\$56.51
2031	\$108.35	\$44.87	\$61.36	\$59.42	\$58.62
2032	\$110.69	\$47.06	\$63.91	\$61.93	\$61.10
2033	\$113.08	\$48.69	\$65.90	\$63.87	\$63.03
2034	\$115.52	\$50.44	\$68.03	\$65.96	\$65.10
2035	\$118.01	\$50.88	\$68.84	\$66.72	\$65.84
2036	\$120.55	\$51.94	\$70.29	\$68.13	\$67.23
2037	\$123.15	\$54.40	\$73.14	\$70.94	\$70.02
2038	\$125.80	\$56.92	\$76.07	\$73.82	\$72.88
2039	\$128.51	\$59.26	\$78.82	\$76.52	\$75.56
2040	\$131.28	\$62.04	\$82.02	\$79.67	\$78.69
2041	\$134.11	\$63.38	\$83.80	\$81.40	\$80.40
2042	\$137.00	\$64.75	\$85.61	\$83.15	\$82.13

Columns

(a) Table 3 Column (a) minus Column (c)

(b) Table 4 Column (d)

Table 6On- & Off- Peak Energy Prices

	Avoided Firm	Capacity Cost	Total	On-Peak	Off-Peak
Year	Capacity	Allocated to	Standard Avoided	4,910 Hours	3,850 Hours
	Costs	On-Peak Hours	Energy Cost		
	(\$/kW-yr)	(\$/MWh)	(\$/MWh)	(\$/MWh)	(\$/MWh)
	(a)	(b)	(c)	(d)	(e)
		(a) *1000 / (100.0% x 8760 x 56%		(b) + (c)	(c)
2026	\$97.39	\$19.84	\$37.33	\$57.17	\$37.33
2027	\$99.49	\$20.26	\$40.13	\$60.40	\$40.13
2028	\$101.63	\$20.70	\$41.55	\$62.25	\$41.55
2029	\$103.82	\$21.15	\$42.78	\$63.92	\$42.78
2030	\$106.06	\$21.60	\$43.06	\$64.66	\$43.06
2031	\$108.35	\$22.07	\$44.87	\$66.94	\$44.87
2032	\$110.69	\$22.54	\$47.06	\$69.61	\$47.06
2033	\$113.08	\$23.03	\$48.69	\$71.72	\$48.69
2034	\$115.52	\$23.53	\$50.44	\$73.97	\$50.44
2035	\$118.01	\$24.04	\$50.88	\$74.91	\$50.88
2036	\$120.55	\$24.55	\$51.94	\$76.49	\$51.94
2037	\$123.15	\$25.08	\$54.40	\$79.48	\$54.40
2038	\$125.80	\$25.62	\$56.92	\$82.55	\$56.92
2039	\$128.51	\$26.17	\$59.26	\$85.44	\$59.26
2040	\$131.28	\$26.74	\$62.04	\$88.78	\$62.04
2041	\$134.11	\$27.31	\$63.38	\$90.70	\$63.38
2042	\$137.00	\$27.90	\$64.75	\$92.66	\$64.75

- (a) Table 3 Column (a) minus Column (c)
- (b) Table 9. 100.0% is the on-peak capacity factor of the Proxy CCCT Resource
- (d) 56% is the percent of all hours that are on-peak
- (c) Table 4 Column (d)

Table 3 (Renewable)Capitalized Energy Costs

Table 4 (Renewable)Avoided Capacity Costs

37	Combined	Simple		Capitalized		Avoided Fire
Year	Cycle CT	Cycle CT	Capitalized	Energy Costs	Year	Capacity
	Fixed Costs	Fixed Costs	Energy Costs	71.5% CF		Costs
	(\$/kW-yr)	(\$/kW-yr)	(\$/kW-yr)	(\$/MWh)		(\$/kW-yr)
	(a)	(b)	(c)	(d)		(a)
			((a) - (b))	(c)/(8.760 x 71.5%)		
2023	\$132.75	\$91.36	\$41.39	\$6.61	2023	\$91.36
2024	\$135.62	\$93.32	\$42.30	\$6.75	2024	\$93.32
2025	\$138.54	\$95.33	\$43.21	\$6.90	2025	\$95.33
2026	\$141.52	\$97.39	\$44.13	\$7.05	2026	\$97.39
2027	\$144.56	\$99.49	\$45.07	\$7.20	2027	\$99.49
2028	\$147.66	\$101.63	\$46.03	\$7.35	2028	\$101.63
2029	\$150.82	\$103.82	\$47.00	\$7.50	2029	\$103.82
2030	\$154.05	\$106.06	\$47.99	\$7.66	2030	\$106.06
2031	\$157.41	\$108.35	\$49.06	\$7.83	2031	\$108.35
2032	\$160.82	\$110.69	\$50.13	\$8.00	2032	\$110.69
2033	\$164.30	\$113.08	\$51.22	\$8.18	2033	\$113.08
2034	\$167.85	\$115.52	\$52.33	\$8.35	2034	\$115.52
2035	\$171.47	\$118.01	\$53.46	\$8.54	2035	\$118.01
2036	\$175.15	\$120.55	\$54.60	\$8.72	2036	\$120.55
2037	\$178.92	\$123.15	\$55.77	\$8.90	2037	\$123.15
2038	\$182.76	\$125.80	\$56.96	\$9.09	2038	\$125.80
2039	\$186.67	\$128.51	\$58.16	\$9.29	2039	\$128.51
2040	\$190.66	\$131.28	\$59.38	\$9.48	2040	\$131.28
2041	\$194.80	\$134.11	\$60.69	\$9.69	2041	\$134.11
2042	\$199.02	\$137.00	\$62.02	\$9.90	2042	\$137.00

Columns

(a) Table 9. Page 2 of 3 Column (f)

(b) Table 9. Page 1 of 3 Column (f)

(c) and (d) Capitalized energy costs reflect the incremental fixed cost of CCCT versus a SCCT

Columns

(a) Table 3 (Renewable) Column (a) minus Column (c)

Table 7 Comparison between Proposed and Current Standard Fixed Avoided Costs \$/MWh

	Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference
Year	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Base Load						Fixed Solar		Fixed Solar QF	Tracking Solar	Tracking Solar	Tracking Solar
	QF	Base Load OF	Base Load QF	Wind OF (2)	Wind QF (2)	Wind QF (2)	QF (2)	(2)	(2)	QF (2)	QF (2)	QF (2)
			,									
2023	\$110.94	\$60.63	\$50.31	\$108.22	\$58.15	\$50.07	\$122.40	\$60.69	\$61.71	\$121.23	\$60.29	\$60.95
2024	\$97.47	\$57.77	\$39.70	\$95.20	\$55.65	\$39.55	\$106.99	\$60.50	\$46.50	\$106.23	\$60.19	\$46.04
2025	\$97.70	\$49.92	\$47.78	\$94.76	\$47.16	\$47.60	\$106.94	\$50.65	\$56.29	\$106.24	\$50.52	\$55.72
2026	\$48.45	\$42.14	\$6.31	\$46.81	\$40.50	\$6.31	\$41.50	\$35.19	\$6.31	\$41.80	\$35.49	\$6.31
2027	\$51.49	\$42.78	\$8.71	\$49.47	\$40.76	\$8.71	\$42.95	\$34.24	\$8.71	\$43.25	\$34.55	\$8.71
2028	\$53.15	\$43.81	\$9.34	\$51.00	\$41.66	\$9.34	\$44.52	\$35.18	\$9.34	\$44.83	\$35.50	\$9.34
2029	\$54.63	\$44.66	\$9.97	\$54.15	\$44.18	\$9.97	\$47.79	\$37.82	\$9.97	\$48.11	\$38.14	\$9.97
2030	\$55.17	\$44.88	\$10.29	\$54.86	\$44.58	\$10.29	\$48.04	\$37.76	\$10.29	\$48.37	\$38.09	\$10.29
2031	\$57.24	\$46.32	\$10.92	\$58.12	\$47.20	\$10.92	\$50.32	\$39.40	\$10.92	\$50.65	\$39.73	\$10.92
2032	\$59.70	\$47.46	\$12.24	\$60.44	\$48.20	\$12.24	\$52.56	\$40.32	\$12.24	\$52.90	\$40.66	\$12.24
2033	\$61.60	\$49.04	\$12.56	\$62.85	\$50.30	\$12.56	\$54.46	\$41.91	\$12.56	\$54.81	\$42.26	\$12.56
2034	\$63.63	\$50.69	\$12.94	\$64.96	\$52.03	\$12.94	\$56.35	\$43.41	\$12.94	\$56.70	\$43.77	\$12.94
2035	\$64.35	\$51.73	\$12.62	\$65.67	\$53.05	\$12.62	\$56.89	\$44.27	\$12.62	\$57.26	\$44.64	\$12.62
2036	\$65.70	\$53.27	\$12.43	\$67.08	\$54.65	\$12.43	\$58.10	\$45.67	\$12.43	\$58.47	\$46.04	\$12.43
2037	\$68.46	\$55.40	\$13.06	\$69.98	\$56.92	\$13.06	\$60.77	\$47.71	\$13.06	\$61.15	\$48.09	\$13.06
2038	\$71.28	\$57.97	\$13.31	\$72.85	\$59.53	\$13.31	\$63.43	\$50.12	\$13.31	\$63.82	\$50.51	\$13.31
2039	\$73.93	\$60.62	\$13.31	\$75.53	\$62.21	\$13.31	\$65.91	\$52.60	\$13.31	\$66.30	\$52.99	\$13.31
2040	\$77.03	\$63.21	\$13.82	\$78.55	\$64.73	\$13.82	\$68.54	\$54.72	\$13.82	\$68.94	\$55.12	\$13.82
15 Year Nomir	nal Levelized F	Price (\$/MWh) at	6.880% Discour	nt Rate (1)								
2023 - 2037	\$70.19	\$49.51	\$20.68	\$69.33	\$48.71	\$20.62	\$67.77	\$44.52	\$23.25	\$67.75	\$44.67	\$23.08
2024 - 2038	\$65.79	\$48.64	\$17.15	\$65.24	\$48.12	\$17.12	\$61.64	\$42.98	\$18.66	\$61.76	\$43.20	\$18.56

(1) Discount Rate - 2021 IRP. Levelized values are for informational purposes only. (1) Discount Rate

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(2) Avoided cost prices have been reduced by a wind and solar integration charges for QFs loc (2) Avoided cost prices have been reduced by a wind and solar integration charges for QFs loc ated in PacifiCorp's Balancing Area Authority (BAA) (in-system) . If the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the applicable integration of the QF resource is not in PacifiCorp's BAA, prices will be increased by the appli

Table 8
Comparison between Proposed and Current Renewable Standard Fixed Avoided Costs
6 A 433 A

\$/MWh

		Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference	Proposed	Eff. 7/1/2022	Difference	-	
		Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable]	
Year	Year	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Wind Integration	Solar Integration
		Base Load						Fixed Solar	Fixed Solar	Fixed Solar QF	Tracking Solar	Tracking	Tracking Solar		
		QF	Base Load QF	Base Load QF	Wind QF (2)	Wind QF (2)	Wind QF (2)	QF (2)	QF (2)	(2)	QF (2)	Solar QF (2)	QF (2)	Cost	Cost
														4	
2023	2023	\$110.94	\$60.63	\$50.31	\$108.22	\$58.15	\$50.07	\$122.40	\$60.69	\$61.71	\$121.23	\$60.29	\$60.95	\$2.35	\$6.07
2024	2024	\$97.47	\$57.77	\$39.70	\$95.20	\$55.65	\$39.55	\$106.99	\$60.50	\$46.50	\$106.23	\$60.19	\$46.04	\$2.03	\$1.92
2025	2025	\$97.70	\$49.92	\$47.78	\$94.76	\$47.16	\$47.60	\$106.94	\$50.65	\$56.29	\$106.24	\$50.52	\$55.72	\$2.72	\$1.22
2026	2026	\$43.87	\$51.20	(\$7.33)	\$34.39	\$41.78	(\$7.39)	\$25.97	\$30.50	(\$4.53)	\$28.85	\$33.57	(\$4.72)	\$2.88	\$0.91
2027	2027	\$45.16	\$52.64	(\$7.48)	\$35.17	\$42.68	(\$7.52)	\$23.97	\$29.87	(\$5.90)	\$27.02	\$33.02	(\$6.01)	\$3.28	\$2.37
2028	2028	\$46.25	\$53.88	(\$7.63)	\$35.96	\$43.61	(\$7.66)	\$24.24	\$30.63	(\$6.40)	\$27.37	\$33.85	(\$6.48)	\$3.44	\$2.32
2029	2029	\$45.53	\$53.31	(\$7.79)	\$36.74	\$44.54	(\$7.80)	\$24.71	\$31.59	(\$6.88)	\$27.93	\$34.88	(\$6.94)	\$1.80	\$0.40
2030	2030	\$46.30	\$54.26	(\$7.96)	\$37.51	\$45.49	(\$7.98)	\$24.66	\$31.76	(\$7.11)	\$27.97	\$35.13	(\$7.16)	\$1.65	\$0.54
2031	2031	\$46.13	\$54.25	(\$8.12)	\$38.34	\$46.49	(\$8.15)	\$24.50	\$31.62	(\$7.13)	\$27.87	\$35.06	(\$7.19)	\$0.50	\$0.20
2032	2032	\$47.27	\$55.56	(\$8.29)	\$39.18	\$47.48	(\$8.30)	\$24.61	\$32.36	(\$7.75)	\$28.09	\$35.88	(\$7.79)	\$0.66	\$0.27
2033	2033	\$47.78	\$56.26	(\$8.48)	\$40.02	\$48.51	(\$8.49)	\$24.27	\$32.38	(\$8.10)	\$27.86	\$35.99	(\$8.13)	\$0.18	\$0.12
2034	2034	\$48.76	\$57.44	(\$8.69)	\$40.87	\$49.57	(\$8.70)	\$24.75	\$32.90	(\$8.15)	\$28.41	\$36.60	(\$8.19)	\$0.13	\$0.12
2035	2035	\$49.88	\$58.68	(\$8.80)	\$41.78	\$50.60	(\$8.83)	\$25.77	\$33.29	(\$7.52)	\$29.48	\$37.09	(\$7.61)	\$0.17	\$0.13
2036	2036	\$50.92	\$59.94	(\$9.02)	\$42.65	\$51.72	(\$9.07)	\$27.26	\$33.92	(\$6.66)	\$30.99	\$37.81	(\$6.82)	\$0.15	\$0.12
2037	2037	\$51.90	\$61.09	(\$9.20)	\$43.58	\$52.82	(\$9.23)	\$27.04	\$34.56	(\$7.52)	\$30.90	\$38.53	(\$7.63)	\$0.03	\$0.05
2038	2038	\$53.00	\$62.42	(\$9.42)	\$44.52	\$53.98	(\$9.46)	\$27.47	\$35.04	(\$7.57)	\$31.43	\$39.12	(\$7.69)	\$0.03	\$0.05
2039	2039	\$54.14	\$63.74	(\$9.60)	\$45.47	\$55.11	(\$9.64)	\$28.00	\$35.69	(\$7.70)	\$32.04	\$39.87	(\$7.82)	\$0.03	\$0.05
2040	2040	\$55.44	\$65.21	(\$9.76)	\$46.47	\$56.28	(\$9.81)	\$29.15	\$36.50	(\$7.34)	\$33.24	\$40.74	(\$7.51)	\$0.14	\$0.35
15 Year Nomin	15 Year Nomi	nal Levelized	Price (\$/MWh) at	t 6.880% Discou	nt Rate (1)									Discount Rate - 2021 IRP	6.880%
2023 - 2037	2023 - 2037	\$62.84	\$55.44	\$7.40	\$55.82	\$48.49	\$7.33	\$50.08	\$39.18	\$10.90	\$52.22	\$41.55	\$10.67		
2024 - 2038	2024 - 2038	\$57.20	\$55.15	\$2.05	\$49.66	\$47.66	\$2.00	\$41.29	\$36.67	\$4.62	\$43.86	\$39.41	\$4.45		

(1) Discount Rate - 2021 IRP. Levelized values are for informational purposes only.

(1) Discount Rate - 2021 IRP. Levelized values are for informational purposes only.

(2) Avoided cost prices have been reduced by a wind and solar integration charges for QFs loc (2) Avoided cost prices have been reduced by a wind and solar integration charges for QFs located in PacifiCorp's Balancing Area Authority (BAA) (in-system) . in PacifiCorp's Balancing Area Authority (BAA) (in-system) .

ion charge

If the QF resource is not in PacifiCory's BAA, prices will be increased by the applicable inte If the QF resource is not in PacifiCory's BAA, prices will be increased by the applicable integration charges

Table 9 Total Cost of Displaceable Resources

Page 1 of 3

Year	Estimated Capital Cost \$/kW	Fixed Capital Cost at Real Levelized Rate S/kW-yr	Fixed O&M \$/kW-yr	Variable O&M S/MWh	Total O&M at Expected CF \$/kW-yr	Total Resource Fixed Costs S/kW-yr
	(a)	(b)	(c)	(d)	(e)	(f)
<u>227 MV</u>	V - SCCT H	Frame "F" x1	- (1,500')			
2020	\$738	\$52.00	\$33.71	\$16.92	\$33.71	\$85.71
2021		\$53.12	\$34.43	\$17.29	\$34.43	\$87.55
2022		\$54.26	\$35.17	\$17.66	\$35.17	\$89.43
2023		\$55.43	\$35.93	\$18.04	\$35.93	\$91.36
2024		\$56.62	\$36.70	\$18.43	\$36.70	\$93.32
2025		\$57.84	\$37.49	\$18.83	\$37.49	\$95.33
2026		\$59.09	\$38.30	\$19.24	\$38.30	\$97.39
2027		\$60.36	\$39.13	\$19.65	\$39.13	\$99.49
2028		\$61.66	\$39.97	\$20.07	\$39.97	\$101.63
2029		\$62.99	\$40.83	\$20.50	\$40.83	\$103.82
2030		\$64.35	\$41.71	\$20.94	\$41.71	\$106.06
2031		\$65.74	\$42.61	\$21.39	\$42.61	\$108.35
2032		\$67.16	\$43.53	\$21.85	\$43.53	\$110.69
2033		\$68.61	\$44.47	\$22.32	\$44.47	\$113.08
2034		\$70.09	\$45.43	\$22.80	\$45.43	\$115.52
2035		\$71.60	\$46.41	\$23.29	\$46.41	\$118.01
2036		\$73.14	\$47.41	\$23.79	\$47.41	\$120.55
2037		\$74.72	\$48.43	\$24.30	\$48.43	\$123.15
2038		\$76.33	\$49.47	\$24.82	\$49.47	\$125.80
2039		\$77.97	\$50.54	\$25.35	\$50.54	\$128.51
2040		\$79.65	\$51.63	\$25.90	\$51.63	\$131.28
2041		\$81.37	\$52.74	\$26.46	\$52.74	\$134.11
2042		\$83.12	\$53.88	\$27.03	\$53.88	\$137.00

Source: (a)(c)(d) Plant Costs - 2021 IRP - Table 7.1 & 7.2

(b) =

= (a) x 7.049% = (d) x (8.76 x %) + (c)

(e) = (d) x (8.76)(f) = (b) + (e)

	227 MW - SCCT Frame "F" x1 - (1,500')								
2020 \$		\$738	Plant capacity cost	\$/kW					
2020 \$		\$0.00	Fixed O&M & Capitalized O&M	\$/kW-yr					
2020 \$		\$33.71	Fixed Pipeline	\$/kW-yr					
2020 \$		\$33.71	Fixed O&M Including Fixed Pipeline & Capitalized O&M (\$/kW-yr					
2020 \$	\$	16.92	Variable O&M and Other Costs	\$/MWH					
		7.049%	Payment Factor						
		0%	Capacity Factor						
		2.155% I	nflation: 2021 IRP						

Table 9 Total Cost of Displaceable Resources

Page 2 of 3

Year	Estimated Capital Cost \$/kW	Fixed Capital Cost at Real Levelized Rate S/kW-yr	Fixed O&M S/kW-yr	Variable O&M S/MWh	Total O&M at Expected CF \$/kW-yr	Total Resource Fixed Costs \$/kW-yr	Fuel Cost \$/MMBtu	IRP Resource Energy Cost \$/MWh	Total Avoided Costs \$/MWh					
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)					
645 MW	645 MW - CCCT Dry "J", 1x1 - West Side Resource (1,500')													
2020	\$1,054	\$72.58	\$41.25	\$1.70	\$51.90	\$124.48								
2021		\$74.14	\$42.14	\$1.74	\$53.04	\$127.18								
2022		\$75.74	\$43.05	\$1.78	\$54.20	\$129.94								
2023		\$77.37	\$43.98	\$1.82	\$55.38	\$132.75								
2024		\$79.04	\$44.93	\$1.86	\$56.58	\$135.62								
2025		\$80.74	\$45.90	\$1.90	\$57.80	\$138.54								
2026		\$82.48	\$46.89	\$1.94	\$59.04	\$141.52	\$4.80	\$30.29	\$52.88					
2027		\$84.26	\$47.90	\$1.98	\$60.30	\$144.56	\$5.22	\$32.94	\$56.02					
2028		\$86.08	\$48.93	\$2.02	\$61.58	\$147.66	\$5.42	\$34.20	\$57.78					
2029		\$87.94	\$49.98	\$2.06	\$62.88	\$150.82	\$5.59	\$35.27	\$59.35					
2030		\$89.84	\$51.06	\$2.10	\$64.21	\$154.05	\$5.61	\$35.40	\$60.00					
2031		\$91.78	\$52.16	\$2.15	\$65.63	\$157.41	\$5.87	\$37.04	\$62.17					
2032		\$93.76	\$53.28	\$2.20	\$67.06	\$160.82	\$6.19	\$39.06	\$64.74					
2033		\$95.78	\$54.43	\$2.25	\$68.52	\$164.30	\$6.42	\$40.51	\$66.74					
2034		\$97.84	\$55.60	\$2.30	\$70.01	\$167.85	\$6.67	\$42.09	\$68.89					
2035		\$99.95	\$56.80	\$2.35	\$71.52	\$171.47	\$6.71	\$42.34	\$69.72					
2036		\$102.10	\$58.02	\$2.40	\$73.05	\$175.15	\$6.85	\$43.22	\$71.18					
2037		\$104.30	\$59.27	\$2.45	\$74.62	\$178.92	\$7.21	\$45.50	\$74.07					
2038		\$106.55	\$60.55	\$2.50	\$76.21	\$182.76	\$7.58	\$47.83	\$77.01					
2039		\$108.85	\$61.85	\$2.55	\$77.82	\$186.67	\$7.92	\$49.98	\$79.78					
2040		\$111.20	\$63.18	\$2.60	\$79.46	\$190.66	\$8.33	\$52.56	\$83.00					
2041		\$113.60	\$64.54	\$2.66	\$81.20	\$194.80	\$8.51	\$53.70	\$84.80					
2042		\$116.05	\$65.93	\$2.72	\$82.97	\$199.02	\$8.69	\$54.85	\$86.63					

Table 9 **Total Cost of Displaceable Resources**

Page 3 of 3

Sources, Inputs and Assumptions

Source: (a)(c)(d) Plant Costs - 2021 IRP - Table 7.1 & 7.2

- (b) = (a) x 6.886%
- = (d) x (8.76 x 71.5%) + (c) (e)
- (f) =(b)+(e)
- (g) Gas Price Forecast
- (h) = 6310 x (g) / 1000
- (i) = (f) / (8.76 x 'Capacity Factor') + (h)

645 MW - CCCT Dry "J", 1x1 - West Side Resource (1,500')									
CCCT Statistics	MW	Percent	Cap Cost	Fixed					
CCCT (Dry "J" 1x1)	582	90.2%	\$ 1,125	\$42.66					
CCCT Duct Firing (Dry "J" 1x1)	63	<u>9.8%</u>	<u>\$ </u>	<u>\$28.24</u>					
Capacity Weighted	645	100.0%	\$1,054	\$41.25					
CCCT Statistics	MW	CF	aMW	Percent	Variable	Heat Rate			
CCCT (Dry "J" 1x1)	582	78.0%	454	98.4%	\$1.73	(

CCCT Statistics	MW	CF	a M W	Percent	Variable	Heat Rate	
CCCT (Dry "J" 1x1)	582	78.0%	454	98.4%	\$1.73	6,264	_
CCCT Duct Firing (Dry "J" 1x1)	63	12.0%	8	1.6%	<u>\$0.06</u>	8,816	
Energy Weighted	645	71.5%	461	100.0%	\$1.70	6,310	
						Rounded	

Plant Costs - 2021 IRP - Table 7.1 & 7.2. 2020\$ Source: \$5.07 Fixed O&M & Capitalized O&M \$19.48 \$23.17

Source: Plant Costs - 2019 IRP - Table 6.1 & 6.2. 2018\$ 18.67 4.86

\$23.17 Fixed Pipeline

6.886% Payment Factor

100.0% Capacity Factor - On-peak 71.5% / 56.0% (percent of hours on-peak)

2.155% Inflation: 2021 IRP

Table 10 Gas Price Forecast \$/MMBtu

Year	Burner tip West Side Gas	
	Fuel Cost	
2023	\$4.77	
2024	\$4.01	
2025	\$4.43	
2026	\$4.80	
2027	\$5.22	
2028	\$5.42	
2029	\$5.59	
2030	\$5.61	
2031	\$5.87	
2032	\$6.19	
2033	\$6.42	
2034	\$6.67	
2035	\$6.71	
2036	\$6.85	
2037	\$7.21	
2038	\$7.58	
2039	\$7.92	
2040	\$8.33	
2041	\$8.51	
2042	\$8.69	
2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041	\$4.01 \$4.43 \$4.80 \$5.22 \$5.42 \$5.59 \$5.61 \$5.87 \$6.19 \$6.42 \$6.67 \$6.71 \$6.85 \$7.21 \$7.58 \$7.92 \$8.33 \$8.51	

Source

2023-2040: Offical Market Price Forecast dated March 2023 2041+: Escalated at Inflation

2.155% Inflation: 2021 IRP Volume I. Chapter 8. Pg. 226.

Table 11Integration Cost

Year	Wind Integration Cost \$/MWh	Solar Integration Cost \$/MWh
2023	\$2.35	\$6.07
2024	\$2.03	\$1.92
2025	\$2.72	\$1.22
2026	\$2.88	\$0.91
2027	\$3.28	\$2.37
2028	\$3.44	\$2.32
2029	\$1.80	\$0.40
2030	\$1.65	\$0.54
2031	\$0.50	\$0.20
2032	\$0.66	\$0.27
2033	\$0.18	\$0.12
2034	\$0.13	\$0.12
2035	\$0.17	\$0.13
2036	\$0.15	\$0.12
2037	\$0.03	\$0.05
2038	\$0.03	\$0.05
2039	\$0.03	\$0.05
2040	\$0.14	\$0.35
2041	\$0.15	\$0.35
2042	\$0.15	\$0.36

Source:

2023-2040 2021 IRP - Appendix F - Flexible Reserve Study

2041+: Escalated at Inflation

2.155% Inflation: 2021 IRP Volume I. Chapter 8. Pg. 226.

Table 12 2021 IRP West Wind Resource 37% Capacity Factor

Year	Estimated Capital Cost S/kW	Fixed Capital Cost at Real Levelized Rate S/kW-yr	Fixed O&M \$/kW-yr	Fixed Costs \$/MWh	Variable O&M s/MWh	100% PTC \$/MWh	Avoided Cost (excluding Integration Cost) S/MWh	Total Resource Costs S/kW-vr	Integration Cost S/MWh	
	3/K VV (a)	(b)	3/KW-yi (c)	(d)	(e)	(f)	(g)	(h)	(h)	
2021 IDD	. ,	. /			()	0	(0)			
2021 IRP	West Wind R	esource - 37%	Capacity F	actor						
2020 2021 2022						(\$16.12) (\$16.47) (\$16.82)				
2023						(\$17.18)				
2024						(\$17.55)				
2025						(\$17.93)				
2026	\$1,485	\$103.62	\$67.89	\$52.77	\$0.00	(\$18.32)	\$34.45	\$111.96	\$2.88	
2027		\$105.85	\$69.35	\$53.91	\$0.00	(\$18.71)		\$114.39	\$3.28	
2028		\$108.13	\$70.84	\$55.07	\$0.00	(\$19.11)	\$35.96	\$116.86	\$3.44	
2029		\$110.46	\$72.37	\$56.26	\$0.00	(\$19.52)	\$36.74	\$119.39	\$1.80	
2030		\$112.84	\$73.93	\$57.47	\$0.00	(\$19.94)	\$37.53	\$121.97	\$1.65	
2031		\$115.27	\$75.52	\$58.71	\$0.00	(\$20.37)	\$38.34	\$124.59	\$0.50	
2032		\$117.75	\$77.15	\$59.97	\$0.00	(\$20.81)	\$39.16	\$127.27	\$0.66	
2033		\$120.29	\$78.81	\$61.26	\$0.00	(\$21.26)	\$40.00	\$130.01	\$0.18	
2034		\$122.88	\$80.51	\$62.58	\$0.00	(\$21.72)	\$40.86	\$132.80	\$0.13	
2035		\$125.53	\$82.24	\$63.93	\$0.00	(\$22.19)		\$135.65	\$0.17	
2036		\$128.24	\$84.01	\$65.31	\$0.00	(\$22.67)	\$42.64	\$138.57	\$0.15	
2037		\$131.00	\$85.82	\$66.71	\$0.00	(\$23.16)	\$43.55	\$141.55	\$0.03	
2038		\$133.82	\$87.67	\$68.15	\$0.00	(\$23.66)	\$44.49	\$144.60	\$0.03	
2039		\$136.70	\$89.56	\$69.62	\$0.00	(\$24.17)	\$45.45	\$147.71	\$0.03	
2040		\$139.65	\$91.49	\$71.12	\$0.00	(\$24.69)	\$46.43	\$150.90	\$0.14	
2041		\$142.66	\$93.46	\$72.65	\$0.00	(\$25.22)	\$47.43	\$154.16	\$0.15	
2042		\$145.73	\$95.47	\$74.22	\$0.00	(\$25.76)	\$48.46	\$157.48	\$0.15	

Sources, Inputs and Assumptions

(c)(f) (a) (b) (d) (g) (h) Source:

Supply-side Resource Table Plant capacity cost, with resource-specific escalation = (a) x 6.979% = ((b) + (c)) / (8.76 x 37.1%) = (d) + (f) Table 11

	202	1 IRP West V	Vind Resource - 37%	Capacity Fact	or
		Wind		Cost and	Input Assumptions
			130	615	MW
2026\$		\$1,485	\$1,418	\$1,499	Plant capacity cost \$/kW-yr
2026\$		\$67.89	\$67.89	\$67.89	Fixed O&M, plus on-g \$/kW-yr
			17%	83%	Variable O&M \$/MWH
2020 \$	\$	(16.12)	Tax Credit \$/MWh		\$/MWH (100% PTC)
		41.2%			Capacity Contribution
		6.979%			Payment Factor
		37%			Capacity Factor
		2.155%			Inflation: 2021 IRP

Table 132021 IRP Wind ResourceAdjusted to On-Peak / Off-Peak Prices

	Renewable Avoided Resource			On-Peak Renewable Avoided Resource	Off-Peak Renewabl Avoided Resource
	Cost	On-Peak / O	off-Peak Factors	Cost	Cost
Year	\$/MWH	On-Peak	Off-Peak	On-Peak	Off-Peak
	(a)	(b)	(c)	(d)	(e)
				(a) x (b)	(a) x (c)
2024	\$0.00	1.1741	0.7788	\$0.00	\$0.00
2025	\$0.00	1.1534	0.8057	\$0.00	\$0.00
2026	\$34.45	1.1310	0.8329	\$38.96	\$28.70
2027	\$35.20	1.0658	0.9162	\$37.51	\$32.25
2028	\$35.96	1.0459	0.9426	\$37.61	\$33.90
2029	\$36.74	1.0329	0.9592	\$37.94	\$35.24
2030	\$37.53	1.0223	0.9716	\$38.36	\$36.46
2031	\$38.34	1.0277	0.9658	\$39.40	\$37.02
2032	\$39.16	1.0077	0.9916	\$39.46	\$38.83
2033	\$40.00	0.9873	1.0170	\$39.49	\$40.68
2034	\$40.86	0.9872	1.0165	\$40.34	\$41.54
2035	\$41.74	1.0041	0.9968	\$41.91	\$41.61
2036	\$42.64	1.0393	0.9517	\$44.31	\$40.58
2037	\$43.55	1.0119	0.9869	\$44.07	\$42.98
2038	\$44.49	1.0067	0.9930	\$44.79	\$44.18
2039	\$45.45	1.0044	0.9955	\$45.65	\$45.25
2040	\$46.43	1.0290	0.9654	\$47.78	\$44.83
2041	\$47.43	1.0147	0.9809	\$48.13	\$46.53
2042	\$48.46	1.0790	0.9007	\$52.29	\$43.64

Columns

(a) Table 12 Column (g)

(b) Ratio blended market On-Peak to annual prices

(c) Ratio blended market Off-Peak to annual prices

Table 142021 IRP Capacity Contribution Values

	Capacity Factor (%)	Capacity Contribution (%)		
	Annual	Summer	Winter	Annual
Tracking Solar				
Idaho Falls, ID	28%	14%	7%	13%
Lakeview, OR	29%	13%	18%	14%
Milford, UT	32%	15%	7%	14%
Yakima, WA	25%	9%	4%	8%
Rock Springs, WY	30%	14%	13%	14%
Wind				
Pocatello, ID	37%	33%	39%	34%
Arlington, OR	37%	46%	17%	41%
Monticello, UT	29%	14%	42%	19%
Goldendale, WA	37%	47%	21%	43%
Medicine Bow, WY	44%	30%	32%	31%

Source: 2021 IRP, Table K.1 – Final CF Method Capacity Contribution Values for Wind, Solar, and Storage

Fixed Tilt Solar				
Oregon	25%	11%	14%	11%

Source: 2021 IRP, Final CF Method inputs applied to OR Fixed-Tilt Solar Profile

	Capacity Factor (%)	Capaci	Capacity Contribution (%)	
Summer/Winter:	Annual	S	W	Annual
Solar & Storage				
Idaho Falls, ID	28%	81%	92%	83%
Lakeview, OR	29%	82%	93%	84%
Milford, UT	32%	80%	95%	83%
Yakima, WA	25%	79%	91%	81%
Rock Springs, WY	30%	80%	94%	83%

Source: 2021 IRP, Table K.2 – Final CF Method Capacity Contribution Values for Wind, Solar, and Storage

Seasonal Contribution Weighting	83%	17%

Source: 2021 IRP, Appendix K workpapers

Appendix 2 Page 1 of 6

PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2023

PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2023

Standard avoided cost rates are paid to eligible small qualifying facilities (QFs). Oregon avoided cost filing requirements as listed in OAR 860-029-0040 and 860-029-0080 require the Company to file updated avoided costs at least every two years. The Commission Order No. 14-058 requires the Oregon investor owned utilities to update avoided cost prices annually on May 1 of each year and within 30-days of Integrated Resource Plan (IRP) acknowledgment. Annual updates, filed on May 1 of each year, are required to update the following data inputs: (1) natural gas prices; (2) on-peak and off-peak forward looking electricity market prices; (3) production tax credit status; and (4) any other action or change in an acknowledged IRP relevant to the calculation of avoided costs.

The last Oregon avoided costs were approved effective on July 1, 2022. This filing reflects an annual update to forecasted prices for natural gas and electricity and changes production tax credit amounts resulting from the Inflation Reduction Act of 2022.

Sufficiency and Deficiency Periods

In Docket UM 1396 Order No. 10-488, the Commission directed that the start date of the first "major resource acquisition" in the action plan of the IRP determines the resource "sufficiency" and "deficiency" periods to be used in calculations of standard avoided cost prices. The sufficiency and deficiency periods used in this filing are based on the 2021 IRP filing.

Table 1 presents the 2021 IRP Preferred Portfolio. Table 1 shows that the first "major resource acquisition" is a utility scale renewable wind and solar resources in 2026 and there is no acquisition of non-renewable Simple Cycle Combustion Turbine (SCCT) or Combine Cycle Combustion Turbine (CCCT). Therefore, the resource sufficiency period for the standard avoided cost rates is from 2022-2025 and the non-renewable and renewable resource deficiency period starts in 2026.

Avoided Cost Calculation

Based on the 2021 IRP preferred portfolio shown in **Table 1**, the standard avoided cost calculation is separated into two distinct periods: (1) Standard non-renewable resource sufficiency period (2022 through 2025); and (2) Standard non-renewable resource deficiency period (2026 and beyond). During the non-renewable resource sufficiency period (2022 through 2025), standard avoided energy costs are based on blended market

prices. Market prices from the Company's Official Forward Price Curve are weighted by market transactions required to support the addition of an assumed 50 MW Oregon Qualified Facility. To calculate the weighting, two production cost studies are prepared. The only difference between the two studies is an assumed 50 aMW, zero running cost resource. System balancing sales and purchase volumes are extracted from both studies and the change between the two studies is calculated for each market hub. This volume impact is used to weight the Company's Official Market Price Forecast on-peak and off-peak market prices for California-Oregon Border (COB), Mid-Columbia, and Palo Verde for each month. **Table 2** shows the result of this calculation.

The sufficiency period for standard renewable rates is 2023-2025 and the standard renewable resource deficiency period starts in 2026. During the renewable resource sufficiency period (2023-2025), the renewable avoided energy costs are based on blended market prices.

During the non-renewable resource deficiency period, the avoided costs are based on the fixed and variable costs of a CCCT proxy resource that could be avoided or deferred. The capacity and fixed costs of CCCT proxy resource used to set standard avoided cost rates is the west side CCCT from the 2021 IRP Supply Side Table.¹

Since CCCTs are built as base load units that provide both capacity and energy, it is appropriate to split the fixed costs of this unit into capacity and energy components. The fixed cost of a simple cycle combustion turbine (SCCT), which is usually acquired as a capacity resource, defines the portion of the fixed cost of the CCCT that is assigned to capacity.² Fixed costs associated with the construction of a CCCT which are in excess of SCCT costs are assigned to energy and are added to the variable production (fuel) cost of the CCCT to determine the total avoided energy costs. **Table 3** shows the capitalized energy costs, which are calculated based on the difference between fixed costs of CCCT and SCCT. The fuel cost of the CCCT defines the avoided variable energy costs. The gas price forecast used as the basis for the CCCT fuel cost is discussed later in this document.

During the standard renewable resource deficiency period, the standard renewable avoided cost prices are based on resource costs of a renewable West side proxy wind resource from 2021 IRP Supply Side Table.³ The standard renewable on-peak price also includes a capacity adder calculated based on the fixed costs of the SCCT adjusted by the incremental capacity contribution of the QF resource relative to the avoided renewable proxy resource. The capacity adder is allocated to on peak hours by using the on peak capacity factor of the QF resource.

¹ 645 MW CCCT (Dry "J" 1x1 and associated Duct Firing (DF) capability) - West Side Resource (1500') – as listed in Tables 7.1 and 7.2 of the 2021 IRP. Fuel costs are from the Company's March 2022 Official Forward Price Curve (2203 OFPC).

² SCCT Frame ("F"x1) – West Side (1,500'), as listed in Tables 7.1 and 7.2 of the 2021 IRP.

³ West Side Wind turbine 37% CF, as listed in Tables 7.1 and 7.2 of the 2021 IRP. This resource is selected in 2026 in the 2021 IRP preferred portfolio.

Table 4 shows the CCCT fuel cost, the addition of capitalized energy costs at an assumed 70.5% capacity factor, and the total avoided energy costs.

Because energy generated by a QF may vary, total standard avoided costs are calculated at 75%, 85% and 90% capacity factor to illustrate the impact of differing generation levels. This calculation is shown in **Table 5**.

Standard avoided costs are differentiated between on-peak and off-peak periods, with capacity costs allocated to on-peak periods. On an annual basis, approximately 56% of all hours are on-peak and 44% are off-peak. **Table 6** shows the calculation of on-peak and off-peak avoided energy prices.

For informational purposes, **Tables 7 and 8** show a comparison between the current approved avoided costs and the proposed avoided costs after incorporating updates.

Table 9 shows the calculation of the total fixed costs and fuel costs of the CCCT and SCCT that are used in **Table 3** and **Table 4**. In this filing, the Company's thermal proxy resource is a CCCT located on the west side of the Company's system. Current Commission approved standard non-renewable avoided costs are also based upon a CCCT located on the west side of the Company's system. The costs of SCCT and CCCT resources are based on the 2021 Supply Side Table⁴.

Gas Price Forecast

Gas prices used in this filing utilize the Company's March 2023 Official Forward Price Curve (2303 OFPC). **Table 10** shows the natural gas price used in this avoided cost calculation.

Table 11 shows wind and solar integration costs used in 2021 IRP.

Table 12 shows the calculation of total resource cost of the renewable proxy wind plant in Wyoming. The capacity costs, fixed O&M plus on-going capital costs, variable O&M, and capacity factor values of the West Wind resource reflect assumptions from the 2021 IRP Supply Side Table.⁴ At the time the 2021 IRP was prepared, this resource was expected to qualify for a 60% production tax credit (PTC), with its expected in-service date by 2026. As a result of the Inflation Reduction Act of 2022, the proxy renewable proxy wind resource is now assumed to be eligible for a 100% PTC for the purpose of determining avoided cost prices. The total cost of the proxy wind resource is used in the calculation of standard renewable avoided cost rates as shown in "**Exhibits 5 through 8**".

⁴ 2021 IRP Supply side Resource Options, PacifiCorp 2021 IRP, Volume I, Chapter 7, Table 7.1 and Table 7.2.

Table 13 shows the calculation of on-peak and off-peak standard renewable avoided cost prices by applying on-peak and off-peak factors. On-peak and off-peak factors are calculated as a ratio of the average annual on-peak Mid-C market price to the flat Mid-C market price.

Exhibit 1- Std Base Load QF tab shows the calculation of proposed standard avoided cost rates for a base load QF. On and off-peak avoided cost rates are based on blended market rates for 2023-2025. For 2026 and beyond, the off-peak price is based on the fuel and capitalized energy cost of the CCCT proxy. The on-peak price also includes a capacity adder based on the fixed costs of the SCCT proxy (in \$/kW-yr). The adjusted capacity adder in \$/kW-yr is allocated to on peak hours by using the on peak capacity factor of the base load QF resource, which is assumed to be equal to on peak capacity factor of the CCCT proxy resource.

Exhibit 2- Std Wind QF tab shows the calculation of proposed standard avoided cost rates for a wind QF. On and off-peak avoided cost rates are based on blended market rates for 2023-2026. For 2026 and beyond, the off-peak price is based on the fuel and capitalized energy cost of the CCCT proxy. The on-peak price also includes a capacity adder calculated based on fixed costs of a SCCT (in \$/kW-yr) adjusted by the expected capacity contribution of a wind QF from the 2021 IRP (Oregon Wind: 41.2%), as shown in **Table 14**. The adjusted capacity adder (in \$/kW-yr) is allocated to on-peak hours using the on-peak capacity factor of a west side wind QF resource. Standard avoided cost rates for a wind QF are reduced by the annual wind integration charges from **Table 11**.

Exhibits 3 & 4- Std Solar QF tab shows the calculation of proposed standard avoided cost rates for a solar QF. On and off-peak avoided cost rates are based on blended market rates for 2023-2025. For 2026 and beyond, the off-peak price is based on the fuel and capitalized energy cost of the CCCT proxy. The on-peak price also includes a capacity adder calculated based on the fixed costs of a SCCT (in \$/kW-yr) adjusted by expected capacity contribution of a solar QF based on the 2021 IRP (Oregon fixed solar: 11.4%, Oregon tracking solar: 14.2%), as shown in **Table 14**. The adjusted capacity adder (in \$/kW-yr) is allocated to on peak hours by using the on peak capacity factor of a solar QF resource. Standard avoided cost rates for a solar QF are reduced by the annual solar integration charges from **Table 11**.

Exhibit 5- Renewable Base Load tab shows the calculation of proposed standard renewable avoided cost rates for renewable base load QF. For 2023-2025, on- and off-peak renewable avoided cost rates are based on blended market rates. For 2026 and beyond, on- and off-peak prices are based on on-peak and off-peak prices of the renewable wind proxy resource as calculated in **Table 12 and Table 13** with resource costs from the 2021 IRP Supply Side Table. Starting in 2026, the standard renewable on-peak price also includes a capacity adjustment based on the fixed costs of the SCCT (in \$/kW-yr) and the incremental capacity contribution of a renewable Base Load QF relative to the avoided renewable proxy resource, as shown in **Table 14**. The fixed costs of the

SCCT are based on the 2021 IRP Supply Side Table. The adjusted capacity adder in \$/kW-yr is allocated to on-peak hours by using the on-peak capacity factor of a base load QF resource. Rates are increased during the renewable resource deficiency period by the avoided wind integration charge from **Table 11**.

Exhibit 6- Renewable Wind tab shows the calculation of proposed standard renewable avoided cost rates for a wind QF. On- and off-peak renewable avoided cost rates are based on blended market rates for 2023-2025. For 2026 and beyond, on- and off-peak prices are based on on-peak and off-peak prices of the renewable wind proxy resource as calculated in **Table 12 and Table 13** reflecting resource costs from the 2021 IRP Supply Side Table. Starting in 2026, the standard renewable on-peak price also includes a capacity adjustment based on the fixed costs of the SCCT (in \$/kW-yr) and the incremental capacity contribution of an Oregon Wind QF relative to the capacity contribution of the avoided renewable proxy resource, as shown in **Table 14**. The fixed costs of the SCCT are based on the 2021 IRP Supply Side Table. The adjusted capacity adder in \$/kW-yr is allocated to on-peak hours using the on-peak capacity factor of an Oregon wind QF resource. During the renewable resource sufficiency period of 2023-2025, the standard renewable avoided cost rates for a wind QF are reduced by the wind integration charge from **Table 11**.

Exhibits 7 & 8- Renewable Solar tab shows the calculation of proposed standard renewable avoided cost rates for a solar OFs. On- and off-peak renewable avoided cost rates are based on blended market rates for 2023-2025. For 2026 and beyond, on- and off-peak prices are based on on-peak and off-peak prices of the renewable wind proxy resource as calculated in Table 12 and Table 13 reflecting resource costs from the 2021 IRP Supply Side Table. Starting in 2026, the standard renewable on-peak price also includes a capacity adjustment based on the fixed costs of the SCCT (in \$/kW-yr) and the incremental capacity contribution of Oregon Fixed and Tracking Solar OFs relative to the avoided renewable proxy resource, as shown in Table 14. The fixed costs of the SCCT are based on the 2021 IRP Supply Side Table. The adjusted capacity adder in \$/kW-yr is allocated to on-peak hours by using the on-peak capacity factors of the solar QF resource. During the renewable resource sufficiency period, the standard renewable avoided costs rates for fixed and tracking solar QF resources are reduced by solar integration charge from Table 11. During renewable resource deficiency period, the rates are adjusted by the difference in the avoided wind and incremental solar integration charges from Table 11.

Exhibit 9– Blending tab shows the market blending used to weight the Company's Official Forward Price Curve on-peak and off-peak market prices at COB, Palo Verde and Mid-Columbia by month, which are used in the calculation of rates shown in **Table 2.**

I. Resource Sufficiency / Deficiency Demarcation

		Explanation	IRP Reference
1.	Non-renewable: Identify the demarcation year for the end of sufficiency period / start of deficiency period.	Deficiency starting in 2026.	Table 9.17 – 2021 IRP Preferred Portfolio, page 307
2.	Non-renewable: Identify the major resource to be acquired (>100 megawatts (MW) and longer than five years) at end of sufficiency period.		2021 IRP Supply Side Table 7.1 and 7.2, pages 169-183
3.	Renewable: Identify the demarcation year for the end of sufficiency period / start of deficiency period.	Deficiency starting in 2026	Table 9.17 – 2021 IRP Preferred Portfolio, page 307
4.	Renewable: Identify the major resource to be acquired (>100 MW and longer than five years) at end of sufficiency period.	West Side wind resource starting in 2026	2021 IRP Supply Side Table 7.1 and 7.2

II. Gas Price Forecast

		Explanation	IRP Reference
1.	Identify the source of the gas price forecast.	Official forward price curve (OFPC) dated March 2023	-
2.	If the forecast source differs from that used in the most recent approved avoided cost filing / explain the reason(s) for the change.	The Company updates its OFPC every quarter. The March 2023 OFPC was the most recent curve available at the time of this filing.	-
3.	Provide the yearly forecast price by year / and identify any rounding that has been applied.	Refer to the tabs entitled "Table 10" and "OFPC Source" of the "1_OR Standard QF AC Study_2023 04 24.xlsx"	-
4.	Quantify and describe the extent to which the gas price forecast differs from the most recent approved avoided cost filing, include a description of carbon cost / tax assumption(s).	The Company updates its OFPC every quarter. The March 2023 OFPC was the most recent curve available at the time of this filing. Refer to the spreadsheet entitled "2_MFR - II.Gas Price Forecast_2023 04 25.xlsx" for the comparison of the gas price forecast. The current OFPC does not assume a federal	-
		carbon dioxide (CO ₂) policy. This assumption is unchanged from the most recent approved avoided cost filing.	OFPC CO ₂ policy: 2021 IRP, page 41

III. Sufficiency Period Prices

		Explanation	IRP Reference
1.	List the market hub(s) used for market price projections, the source for the forward price curves, and any adjustments or blending used in deriving the sufficiency period prices.	Market prices for California-Oregon Border (COB), Mid- Columbia (Mid-C) and Palo Verde (PV) from the March 2023 OFPC are blended based on the change in system balancing purchases and sales using two the Generation and Regulation Initiative Decision Tool (GRID) runs - with and without a 50 MW qualifying facility (QF) resource.	-
2.	Provide the transmission costs assumed used in sufficiency period prices.	No transmission costs are incorporated in standard sufficiency period avoided cost pricing.	-
3.	Provide all other component(s) used to calculate sufficiency period prices.	 Prices for wind and solar resources are adjusted to account for integration costs from the 2021 IRP. For the complete calculation of sufficiency period prices, refer to "1 OR Standard QF AC Study 2023 04 24.xlsx". 	2021 IRP: Volume I: Table 7.1 and 7.2 on Page 169-183, Volume II: Figure F.11 on Page 145.

IV. Standard Rates Deficiency Period Resource

		Explanation	IRP Reference
1.	Provide the resource type, geographic location, nameplate capacity, and annual capacity factor.	CCCT (Dry "J" 1X1) West Side Resource (1,500') with Duct Firing available in 2026, Annual energy-weighted CF is 70.5 percent. Refer to Table 9 of "1_OR Standard QF AC Study_2023 04 24.xlsx"	2021 IRP Supply Side Table 7.1 and 7.2
2.	Provide the source of natural gas supply / and the costs assumed for interconnection / infrastructure upgrades, transmission, storage, and any other costs necessary to deliver gas.	Burner Tip West Side Gas, refer to Table 10 of "1_OR Standard QF AC Study_2023 04 24.xlsx"	-
3.	Provide the assumed heat rate. Include assumptions to account for elevation / temperature, and cooling method.	Refer to Table 9 of "1_OR Standard QF AC Study_2023 04 24.xlsx"	2021 IRP Supply Side Table 7.1 and 7.2
4.	List the costs assumed for interconnection facilities.	-	2021 IRP Supply Side Table 7.1 and 7.2
5.	List the components of transmission costs used and their respective values.	-	2021 IRP Supply Side Table 7.1 and 7.2
6.	List the tax assumptions used.	-	2021 IRP Supply Side Table 7.1 and 7.2

V. Renewable Rates Deficiency Period Resource

		Explanation	IRP Reference
1.	Provide the resource type, geographic location / nameplate capacity, and annual capacity factor.	West wind resource with 37% CF from the 2021 IRP Supply Side Table. Refer to Table 12 of "1_OR Standard QF AC Study_2023 04 24.xlsx"	2021 IRP Supply Side Table 7.1 and 7.2
2.	Provide assumptions used for mechanical availability, annual hours of curtailment / and annual megawatt-hours (MWh) of energy curtailed.	None.	
3.	List the costs assumed for interconnection facilities.	_	2021 IRP Supply Side Table 7.1 and 7.2
4.	List the components of transmission costs used and their respective values.	_	2021 IRP Supply Side Table 7.1 and 7.2
5.	List the tax assumptions used. This includes assumed taxes paid (federal, state / local), and assumed tax benefits (e.g. PTC / investment tax credits (ITC) / grants in lieu of credits).	100% PTC. Refer to Table 12 of "1_OR Standard QF AC Study_2023 04 24.xlsx"	Updated to reflect the Inflation Reduction Act of 2022
6.	Provide the capacity contribution value, and the method used to derive the capacity contribution value / for solar and wind resource types.	QF Capacity Contribution values - Wind: 41.2 percent, Fixed Solar: 11.4 percent, and Tracking Solar: 14.2 percent.	2021 IRP, Volume II, Table K.1, pages 220-221
7.	Provide the wind integration cost used / and the method used to derive the wind integration cost.	Prices are adjusted to account for integration costs from the 2021 IRP.	2021 IRP: Volume I: Table 7.1 and 7.2 on Page 169-183, Volume II: Figure F.11 on Page 145.

OFPC Mar 2023OFPC Mar 2022West Side GasWest Side Gas% Change\$/MMBTU\$/MMBTU%	/0
\$/MMBTU \$/MMBTU \$/MMBTU %	/0
2026 4.80 3.80 1.00 269	1
2027 5.22 3.84 1.38 369	⁄0
2028 5.42 3.94 1.48 389	V ₀
2029 5.59 4.01 1.58 399	V ₀
2030 5.61 3.98 1.63 419	V ₀
2031 5.87 4.14 1.73 429	%
2032 6.19 4.25 1.94 469	%
2033 6.42 4.43 1.99 459	%
2034 6.67 4.62 2.05 449	%
2035 6.71 4.71 2.00 429	V ₀
2036 6.85 4.88 1.97 409	V ₀
2037 7.21 5.14 2.07 409	V ₀
2038 7.58 5.47 2.11 399	V ₀
2039 7.92 5.81 2.11 369	%
2040 8.33 6.14 2.19 369	%