

April 28, 2022

VIA ELECTRONIC FILING

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

RE: UM 1729(6)—Standard Avoided Cost Purchases from Eligible Qualifying Facilities

In compliance with Oregon Revised Statute (ORS) 758.525 and Oregon Administrative Rules (OAR) 860-029-0040, 860-029-0080, and 860-029-0085, PacifiCorp d/b/a Pacific Power (PacifiCorp or 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 are listed in OAR 860-029-0040, 860-029-0080, and 860-029-0085. OAR 860-029-085 requires the Company to file updated avoided costs 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) updated natural gas prices; (2) on-peak and off-peak forward looking electricity market prices; (3) changes to the status of the production tax credit; and (4) any other action or change including changes to the capital costs of a proxy resource in an acknowledged IRP update that is relevant to the calculation of avoided costs.²

PacifiCorp's 2021 IRP was acknowledged without reliance on the Natrium reactor demonstration project and subject to conditions at the Commission's Special Public Meeting on March 29, 2022. Pursuant to OAR 860-029-0085(1), the Company is required to file an update to avoided cost prices within 30 days or by April 28, 2022, only a few days prior to the annual update due May 1, 2022, which is required under OAR 860-029-085(4). As a result, the Company believes that this filing satisfies the requirements for both the annual update to the avoided costs due May 1 and the update to avoided costs associated with PacifiCorp's acknowledged IRP. However, should the Commission disagree, in the alternative, in accordance with OAR 860-029-0085(4)(b), the Company is seeking a waiver of the May 1, 2022 filing date. PacifiCorp respectfully requests an effect date of June 1, 2022.

¹ OAR 860-029-085(1) and (4).

² OAR 860-029-080(7).

³ This year May 1 falls on a Sunday and as a result the due date for this filing moves to the next business day, May 2, 2022.

⁴ OAR 860-029-0085(4)(b) provides: "In the event a utility's integrated resource plan is acknowledged within 60 days of May 1 in a particular year, the utility may seek a waiver of either the May 1 update or the post IRP-acknowledgement filing."

UM 1729(6) Public Utility Commission of Oregon April 28, 2022 Page 2

In support of this filing, PacifiCorp submits Appendix 1- Avoided Cost Study and Appendix 2-Method Write-up and Minimum Filing Requirements. Also provided are the supporting documentation in both "pdf" and original formats.

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

Carla Scarsella
Deputy General Counsel
825 NE Multnomah Street, Suite 2000
Portland, OR 97232
carla.scarsella@pacificorp.com

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

Sincerely,

Shelley McCoy Director, Regulation

Shilly McCoy

Enclosure

PACIFIC POWER PROPOSED TARIFF CHANGES TO STANDARD RATES

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2022



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

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

Deliveries	Base Loa	ad QF (1)	Wind (QF (1,2)	Wind 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)
2022	9.14	5.87	9.11	5.84	0.27
2023	7.03	4.84	6.79	4.60	2.35
2024	6.51	4.85	6.30	4.65	2.03
2025	5.30	4.60	5.03	4.33	2.72
2026	4.76	2.77	4.71	2.49	2.88
2027	4.83	2.81	4.76	2.48	3.28
2028	4.95	2.88	4.86	2.53	3.44
2029	5.05	2.93	5.13	2.75	1.80
2030	5.08	2.92	5.18	2.76	1.65
2031	5.24	3.03	5.46	2.98	0.50
2032	5.36	3.11	5.58	3.04	0.66
2033	5.54	3.23	5.80	3.21	0.18
2034	5.71	3.36	5.99	3.35	0.13
2035	5.83	3.43	6.11	3.41	0.17
2036	6.00	3.54	6.29	3.53	0.15
2037	6.23	3.72	6.53	3.72	0.03
2038	6.50	3.94	6.81	3.93	0.03
2039	6.78	4.16	7.10	4.16	0.03
2040	7.05	4.38	7.37	4.37	0.14

(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 PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

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Avoided Cost Prices (Continued)

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

						ſ	Solar	(0
Deliveries	Fixed Sol	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)	
2022	9.12	5.85		9.12	5.85		0.22	
2023	6.42	4.23		6.42	4.23		6.07	
2024	6.31	4.66		6.31	4.66		1.92	
2025	5.18	4.48		5.18	4.48		1.22	
2026	3.29	2.68		3.34	2.68		0.91	
2027	3.19	2.57		3.24	2.57		2.37	
2028	3.28	2.65		3.33	2.65		2.32	
2029	3.53	2.89		3.59	2.89		0.40	
2030	3.52	2.87		3.58	2.87		0.54	
2031	3.68	3.01		3.74	3.01		0.20	
2032	3.77	3.08		3.83	3.08		0.27	
2033	3.92	3.22		3.98	3.22		0.12	
2034	4.07	3.35		4.13	3.35		0.12	
2035	4.15	3.41		4.21	3.41		0.13	
2036	4.28	3.53		4.34	3.53		0.12	
2037	4.48	3.71		4.54	3.71		0.05	
2038	4.71	3.93		4.78	3.93		0.05	
2039	4.95	4.16		5.02	4.16		0.05	
2040	5.16	4.35		5.23	4.35		0.35	
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⁽¹⁾ Standard Resource Sufficiency Period ends December 31, 2025 and Standard Resource Deficiency Period begins January 1, 2026.

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⁽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.



AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

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Avoided Cost Prices (continued)

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

Deliveries	Danayyahla Da	ase Load QF (1)	Wind	QF (1,2)	Wind Integration
				1	
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)
2022	9.14	5.87	9.11	5.84	0.27
2023	7.03	4.84	6.79	4.60	2.35
2024	6.51	4.85	6.30	4.65	2.03
2025	5.30	4.60	5.03	4.33	2.72
2026	5.65	4.45	4.19	4.16	2.88
2027	5.77	4.62	4.25	4.29	3.28
2028	5.89	4.74	4.33	4.40	3.44
2029	5.86	4.66	4.43	4.48	1.80
2030	5.93	4.78	4.50	4.61	1.65
2031	5.94	4.76	4.60	4.71	0.50
2032	6.08	4.88	4.69	4.82	0.66
2033	6.11	5.01	4.74	4.99	0.18
2034	6.22	5.14	4.82	5.13	0.13
2035	6.30	5.31	4.87	5.30	0.17
2036	6.42	5.45	4.96	5.43	0.15
2037	6.54	5.56	5.06	5.55	0.03
2038	6.64	5.73	5.13	5.73	0.03
2039	6.77	5.87	5.23	5.86	0.03
2040	6.96	5.96	5.38	5.94	0.14

(continued)

⁽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.



AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

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Avoided Cost Prices (continued)

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

Deliveries	Fixed Sol	ar QF (1,2)	Tracking So	olar QF (1,2)		Solar 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)
2022	9.12	5.85	9.12	5.85		0.22
2023	6.42	4.23	6.42	4.23		6.07
2024	6.31	4.66	6.31	4.66		1.92
2025	5.18	4.48	5.18	4.48		1.22
2026	2.80	4.36	3.14	4.36		0.91
2027	2.72	4.38	3.07	4.38		2.37
2028	2.79	4.51	3.14	4.51		2.32
2029	2.88	4.62	3.24	4.62		0.40
2030	2.88	4.72	3.25	4.72		0.54
2031	2.86	4.74	3.24	4.74		0.20
2032	2.93	4.86	3.31	4.86		0.27
2033	2.90	5.00	3.30	5.00		0.12
2034	2.94	5.13	3.34	5.13		0.12
2035	2.96	5.30	3.36	5.30		0.13
2036	3.00	5.43	3.42	5.43		0.12
2037	3.06	5.55	3.49	5.55		0.05
2038	3.08	5.73	3.52	5.73		0.05
2039	3.14	5.86	3.58	5.86		0.05
2040	3.22	5.92	3.67	5.92		0.35

⁽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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PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2022

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

	Standard Avoided	d Resource			Base Load QF Resource		
	Avoided Firm			QF Capacity	Capacity Adder		
	Capacity	Energy	Capacity	Adder	Allocated to	On-Peak	Off-Peak
Year	Costs	Only Price	Contribution		On-Peak Hours		
	\$/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)
2022	Market Based Pri	ices				\$91.40	\$58.68
2023	2022 through 202	25				\$70.25	\$48.36
2024						\$65.06	\$48.48
2025						\$52.98	\$46.01
2026	\$97.39	\$27.74	100.0%	97.39	\$19.84	\$47.58	\$27.74
2027	\$99.49	\$28.07	100.0%	99.49	\$20.26	\$48.34	\$28.07
2028	\$101.63	\$28.79	100.0%	101.63	\$20.70	\$49.49	\$28.79
2029	\$103.82	\$29.31	100.0%	103.82	\$21.15	\$50.45	\$29.31
2030	\$106.06	\$29.20	100.0%	106.06	\$21.60	\$50.80	\$29.20
2031	\$108.35	\$30.30	100.0%	108.35	\$22.07	\$52.37	\$30.30
2032	\$110.69	\$31.09	100.0%	110.69	\$22.54	\$53.64	\$31.09
2033	\$113.08	\$32.32	100.0%	113.08	\$23.03	\$55.35	\$32.32
2034	\$115.52	\$33.61	100.0%	115.52	\$23.53	\$57.14	\$33.61
2035	\$118.01	\$34.28	100.0%	118.01	\$24.04	\$58.31	\$34.28
2036	\$120.55	\$35.45	100.0%	120.55	\$24.55	\$60.00	\$35.45
2037	\$123.15	\$37.19	100.0%	123.15	\$25.08	\$62.27	\$37.19
2038	\$125.80	\$39.37	100.0%	125.80	\$25.62	\$64.99	\$39.37
2039	\$128.51	\$41.62	100.0%	128.51	\$26.17	\$67.79	\$41.62
2040	\$131.28	\$43.80	100.0%	131.28	\$26.74	\$70.54	\$43.80
2041	\$134.11	\$44.75	100.0%	134.11	\$27.31	\$72.06	\$44.75
2042	\$137.00	\$45.72	100.0%	137.00	\$27.90	\$73.62	\$45.72

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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		
	Avoided Firm			QF Capacity	Capacity Adder		
	Capacity	Energy	Capacity	Adder	Allocated to	On-Peak	Off-Peak
Year	Costs	Only Price	Contribution		On-Peak Hours		
	\$/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
	<u>, </u>						
2022	Market Based Prices					\$91.13	\$58.41
2023	2022 through 2025					\$67.90	\$46.01
2024	less Wind Integration (2)					\$63.03	\$46.45
2025						\$50.26	\$43.29
2026	\$97.39	\$27.74	41.2%	40.08	\$22.28	\$47.14	\$24.86
2027	\$99.49	\$28.07	41.2%	40.95	\$22.76	\$47.55	\$24.79
2028	\$101.63	\$28.79	41.2%	41.83	\$23.25	\$48.59	\$25.35
2029	\$103.82	\$29.31	41.2%	42.73	\$23.75	\$51.26	\$27.51
2030	\$106.06	\$29.20	41.2%	43.65	\$24.26	\$51.81	\$27.55
2031	\$108.35	\$30.30	41.2%	44.59	\$24.78	\$54.59	\$29.81
2032	\$110.69	\$31.09	41.2%	45.56	\$25.32	\$55.75	\$30.44
2033	\$113.08	\$32.32	41.2%	46.54	\$25.86	\$58.01	\$32.14
2034	\$115.52	\$33.61	41.2%	47.54	\$26.42	\$59.91	\$33.49
2035	\$118.01	\$34.28	41.2%	48.57	\$26.99	\$61.10	\$34.11
2036	\$120.55	\$35.45	41.2%	49.61	\$27.57	\$62.87	\$35.30
2037	\$123.15	\$37.19	41.2%	50.68	\$28.17	\$65.32	\$37.15
2038	\$125.80	\$39.37	41.2%	51.77	\$28.77	\$68.11	\$39.34
2039	\$128.51	\$41.62	41.2%	52.89	\$29.39	\$70.98	\$41.58
2040	\$131.28	\$43.80	41.2%	54.03	\$30.03	\$73.69	\$43.66
2041	\$134.11	\$44.75	41.2%	55.19	\$30.67	\$75.28	\$44.60
2042	\$137.00	\$45.72	41.2%	56.38	\$31.34	\$76.91	\$45.57

⁽¹⁾ 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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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						
				QF Capacity	Capacity Adder					
	Capacity	Energy	Capacity	Adder	Allocated to	On-Peak	Off-Peak			
Year	Price	Only Price	Contribution		On-Peak Hours					
	\$/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			

2022	Market Based Prices					\$91.18	\$58.46
2023	2022 through 2025					\$64.18	\$42.29
2024	less Solar Integration (2)					\$63.14	\$46.56
2025						\$51.76	\$44.79
2026	\$97.39	\$27.74	11.35%	\$11.06	\$6.04	\$32.86	\$26.83
2027	\$99.49	\$28.07	11.35%	\$11.30	\$6.17	\$31.87	\$25.70
2028	\$101.63	\$28.79	11.35%	\$11.54	\$6.30	\$32.76	\$26.46
2029	\$103.82	\$29.31	11.35%	\$11.79	\$6.43	\$35.34	\$28.91
2030	\$106.06	\$29.20	11.35%	\$12.04	\$6.57	\$35.23	\$28.66
2031	\$108.35	\$30.30	11.35%	\$12.30	\$6.72	\$36.82	\$30.10
2032	\$110.69	\$31.09	11.35%	\$12.57	\$6.86	\$37.68	\$30.82
2033	\$113.08	\$32.32	11.35%	\$12.84	\$7.01	\$39.21	\$32.20
2034	\$115.52	\$33.61	11.35%	\$13.12	\$7.16	\$40.66	\$33.50
2035	\$118.01	\$34.28	11.35%	\$13.40	\$7.31	\$41.46	\$34.15
2036	\$120.55	\$35.45	11.35%	\$13.69	\$7.47	\$42.80	\$35.33
2037	\$123.15	\$37.19	11.35%	\$13.98	\$7.63	\$44.77	\$37.14
2038	\$125.80	\$39.37	11.35%	\$14.28	\$7.80	\$47.12	\$39.32
2039	\$128.51	\$41.62	11.35%	\$14.59	\$7.96	\$49.53	\$41.57
2040	\$131.28	\$43.80	11.35%	\$14.91	\$8.14	\$51.59	\$43.45
2041	\$134.11	\$44.75	11.35%	\$15.23	\$8.31	\$52.71	\$44.39
2042	\$137.00	\$45.72	11.35%	\$15.56	\$8.49	\$53.85	\$45.36

⁽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

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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 Off-Peak Blended Market Prices for QF resource

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

	Standard Avo	oided 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
L	(a)	(b)	(c)	(d)	(e)	(f)	(g)
				= (a) * (c)	(d) *1000 / (43.0% x 8760 x 56%)	= (b) $+$ (e) - Integration	= (b) - Integration
2022	Market Based Prices		П			\$91.18	\$58.46
2023	2022 through 2025					\$64.18	\$42.29
2024	less Solar Integration	(2)				\$63.14	\$46.56
2025						\$51.76	\$44.79
2026	\$97.39	\$27.74	14.16%	\$13.79	\$6.54	\$33.37	\$26.83
2027	\$99.49	\$28.07	14.16%	\$14.09	\$6.68	\$32.38	\$25.70
2028	\$101.63	\$28.79	14.16%	\$14.39	\$6.82	\$33.28	\$26.46
2029	\$103.82	\$29.31	14.16%	\$14.70	\$6.97	\$35.88	\$28.91
2030	\$106.06	\$29.20	14.16%	\$15.02	\$7.12	\$35.78	\$28.66
2031	\$108.35	\$30.30	14.16%	\$15.34	\$7.27	\$37.37	\$30.10
2032	\$110.69	\$31.09	14.16%	\$15.67	\$7.43	\$38.25	\$30.82
2033	\$113.08	\$32.32	14.16%	\$16.01	\$7.59	\$39.80	\$32.20
2034	\$115.52	\$33.61	14.16%	\$16.36	\$7.75	\$41.25	\$33.50
2035	\$118.01	\$34.28	14.16%	\$16.71	\$7.92	\$42.07	\$34.15
2036	\$120.55	\$35.45	14.16%	\$17.07	\$8.09	\$43.42	\$35.33
2037	\$123.15	\$37.19	14.16%	\$17.44	\$8.27	\$45.41	\$37.14
2038	\$125.80	\$39.37	14.16%	\$17.81	\$8.44	\$47.77	\$39.32
2039	\$128.51	\$41.62	14.16%	\$18.20	\$8.63	\$50.20	\$41.57
2040	\$131.28	\$43.80	14.16%	\$18.59	\$8.81	\$52.27	\$43.45
2041	\$134.11	\$44.75	14.16%	\$18.99	\$9.00	\$53.40	\$44.39
2042	\$137.00	\$45.72	14.16%	\$19.40	\$9.20	\$54.55	\$45.36

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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	newable 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
1 Cai	(\$/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
2022	Market Based Price	ces	T			\$91.40	\$58.68
2023	2022 through 2025	5				\$70.25	\$48.36
2024						\$65.06	\$48.48
2025						\$52.98	\$46.01
2026	\$41.90	\$41.62	\$97.39	\$57.31	\$11.67	\$56.45	\$44.50
2027	\$42.51	\$42.90	\$99.49	\$58.54	\$11.92	\$57.71	\$46.18
2028	\$43.31	\$43.99	\$101.63	\$59.80	\$12.18	\$58.93	\$47.43
2029	\$44.31	\$44.83	\$103.82	\$61.09	\$12.44	\$58.55	\$46.63
2030	\$44.98	\$46.13	\$106.06	\$62.41	\$12.71	\$59.34	\$47.78
2031	\$45.96	\$47.14	\$108.35	\$63.76	\$12.99	\$59.44	\$47.64
2032	\$46.91	\$48.19	\$110.69	\$65.13	\$13.27	\$60.83	\$48.85
2033	\$47.38	\$49.91	\$113.08	\$66.54	\$13.55	\$61.11	\$50.09
2034	\$48.19	\$51.29	\$115.52	\$67.98	\$13.85	\$62.16	\$51.42
2035	\$48.71	\$52.96	\$118.01	\$69.44	\$14.14	\$63.03	\$53.13
2036	\$49.63	\$54.32	\$120.55	\$70.94	\$14.45	\$64.23	\$54.47
2037	\$50.63	\$55.54	\$123.15	\$72.47	\$14.76	\$65.42	\$55.57
2038	\$51.31	\$57.30	\$125.80	\$74.03	\$15.08	\$66.42	\$57.33
2039	\$52.27	\$58.64	\$128.51	\$75.62	\$15.40	\$67.71	\$58.67
2040	\$53.75	\$59.43	\$131.28	\$77.25	\$15.73	\$69.63	\$59.57
2041	\$54.28	\$61.52	\$134.11	\$78.92	\$16.07	\$70.50	\$61.67
2042	\$55.84	\$62.43	\$137.00	\$80.62	\$16.42	\$72.41	\$62.58

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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 Avo	ided Resource	1	Wind QF Re	esource	Wind QF Resource	ce
			Avoided Firm	QF Capacity	Capacity Adder	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	On-Peak	Off-Peak	Capacity	Adder	Allocated to	On-Peak	Off-Peak
Year			Costs		On-Peak Hours		
1 500	(\$/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
				(3) ***	(2)	(3) (3)	(-)
2022	Market Based Prices					\$91.13	\$58.41
2023	2022-2025					\$67.90	\$46.01
2024						\$63.03	\$46.45
2025						\$50.26	\$43.29
2026	\$41.90	\$41.62	\$97.39	\$0.00	\$0.00	\$41.90	\$41.62
2027	\$42.51	\$42.90	\$99.49	\$0.00	\$0.00	\$42.51	\$42.90
2028	\$43.31	\$43.99	\$101.63	\$0.00	\$0.00	\$43.31	\$43.99
2029	\$44.31	\$44.83	\$103.82	\$0.00	\$0.00	\$44.31	\$44.83
2030	\$44.98	\$46.13	\$106.06	\$0.00	\$0.00	\$44.98	\$46.13
2031	\$45.96	\$47.14	\$108.35	\$0.00	\$0.00	\$45.96	\$47.14
2032	\$46.91	\$48.19	\$110.69	\$0.00	\$0.00	\$46.91	\$48.19
2033	\$47.38	\$49.91	\$113.08	\$0.00	\$0.00	\$47.38	\$49.91
2034	\$48.19	\$51.29	\$115.52	\$0.00	\$0.00	\$48.19	\$51.29
2035	\$48.71	\$52.96	\$118.01	\$0.00	\$0.00	\$48.71	\$52.96
2036	\$49.63	\$54.32	\$120.55	\$0.00	\$0.00	\$49.63	\$54.32
2037	\$50.63	\$55.54	\$123.15	\$0.00	\$0.00	\$50.63	\$55.54
2038	\$51.31	\$57.30	\$125.80	\$0.00	\$0.00	\$51.31	\$57.30
2039	\$52.27	\$58.64	\$128.51	\$0.00	\$0.00	\$52.27	\$58.64
2040	\$53.75	\$59.43	\$131.28	\$0.00	\$0.00	\$53.75	\$59.43
2041	\$54.28	\$61.52	\$134.11	\$0.00	\$0.00	\$54.28	\$61.52
2042	\$55.84	\$62.43	\$137.00	\$0.00	\$0.00	\$55.84	\$62.43

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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
2022	Market Based Prices					\$91.18	\$58.46
2023	2022-2025					\$64.18	\$42.29
2024						\$63.14	\$46.56
2025						\$51.76	\$44.79
2026	\$41.90	\$41.62	\$97.39	(\$29.02)	(\$15.84)	\$28.02	\$43.59
2027	\$42.51	\$42.90	\$99.49	(\$29.65)	(\$16.18)	\$27.24	\$43.81
2028	\$43.31	\$43.99	\$101.63	(\$30.29)	(\$16.53)	\$27.89	\$45.11
2029	\$44.31	\$44.83	\$103.82	(\$30.94)	(\$16.89)	\$28.82	\$46.23
2030	\$44.98	\$46.13	\$106.06	(\$31.61)	(\$17.25)	\$28.83	\$47.24
2031	\$45.96	\$47.14	\$108.35	(\$32.29)	(\$17.63)	\$28.63	\$47.43
2032	\$46.91	\$48.19	\$110.69	(\$32.99)	(\$18.01)	\$29.29	\$48.58
2033	\$47.38	\$49.91	\$113.08	(\$33.70)	(\$18.39)	\$29.05	\$49.97
2034	\$48.19	\$51.29	\$115.52	(\$34.43)	(\$18.79)	\$29.41	\$51.30
2035	\$48.71	\$52.96	\$118.01	(\$35.17)	(\$19.20)	\$29.56	\$53.00
2036	\$49.63	\$54.32	\$120.55	(\$35.93)	(\$19.61)	\$30.05	\$54.35
2037	\$50.63	\$55.54	\$123.15	(\$36.70)	(\$20.03)	\$30.58	\$55.53
2038	\$51.31	\$57.30	\$125.80	(\$37.49)	(\$20.46)	\$30.83	\$57.28
2039	\$52.27	\$58.64	\$128.51	(\$38.30)	(\$20.90)	\$31.35	\$58.63
2040	\$53.75	\$59.43	\$131.28	(\$39.12)	(\$21.36)	\$32.19	\$59.22
2041	\$54.28	\$61.52	\$134.11	(\$39.97)	(\$21.82)	\$32.25	\$61.31
2042	\$55.84	\$62.43	\$137.00	(\$40.83)	(\$22.29)	\$33.34	\$62.22

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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 Wine	d 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
2022	Market Based Pr	ices				\$91.18	\$58.46
2023	2022-2025					\$64.18	\$42.29
2024						\$63.14	\$46.56
2025						\$51.76	\$44.79
2026	\$41.90	\$41.62	\$97.39	(\$26.29)	(\$12.46)	\$31.40	\$43.59
2027	\$42.51	\$42.90	\$99.49	(\$26.86)	(\$12.73)	\$30.69	\$43.81
2028	\$43.31	\$43.99	\$101.63	(\$27.44)	(\$13.01)	\$31.42	\$45.11
2029	\$44.31	\$44.83	\$103.82	(\$28.03)	(\$13.29)	\$32.42	\$46.23
2030	\$44.98	\$46.13	\$106.06	(\$28.63)	(\$13.57)	\$32.51	\$47.24
2031	\$45.96	\$47.14	\$108.35	(\$29.25)	(\$13.87)	\$32.39	\$47.43
2032	\$46.91	\$48.19	\$110.69	(\$29.88)	(\$14.17)	\$33.13	\$48.58
2033	\$47.38	\$49.91	\$113.08	(\$30.53)	(\$14.47)	\$32.97	\$49.97
2034	\$48.19	\$51.29	\$115.52	(\$31.19)	(\$14.79)	\$33.42	\$51.30
2035	\$48.71	\$52.96	\$118.01	(\$31.86)	(\$15.10)	\$33.65	\$53.00
2036	\$49.63	\$54.32	\$120.55	(\$32.54)	(\$15.43)	\$34.23	\$54.35
2037	\$50.63	\$55.54	\$123.15	(\$33.25)	(\$15.76)	\$34.85	\$55.53
2038	\$51.31	\$57.30	\$125.80	(\$33.96)	(\$16.10)	\$35.19	\$57.28
2039	\$52.27	\$58.64	\$128.51	(\$34.69)	(\$16.45)	\$35.81	\$58.63
2040	\$53.75	\$59.43	\$131.28	(\$35.44)	(\$16.80)	\$36.74	\$59.22
2041	\$54.28	\$61.52	\$134.11	(\$36.21)	(\$17.16)	\$36.91	\$61.31
2042	\$55.84	\$62.43	\$137.00	(\$36.99)	(\$17.53)	\$38.09	\$62.22

- (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) 2022-2025 On-Peak Blended Market Prices for QF resource
- (g) 2022-2025 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-	Peak			Off-	Peak	
Period	COB	Mid Columbia	Palo Verde	Total	COB	Mid Columbia	Palo Verde	Total
1/1/2022	0.0%	100.0%	0.0%	100.0%	0.0%	99.1%	0.9%	100.0%
2/1/2022	0.0%	99.1%	0.9%	100.0%	8.6%	88.4%	3.0%	100.0%
3/1/2022	1.4%	98.0%	0.6%	100.0%	10.6%	84.3%	5.1%	100.0%
4/1/2022	0.0%	70.7%	29.3%	100.0%	0.0%	89.1%	10.9%	100.0%
5/1/2022	0.0%	97.8%	2.2%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2022	0.3%	99.7%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2022	0.1%	99.9%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
8/1/2022	1.4%	98.6%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
9/1/2022	1.0%	99.0%	0.0%	100.0%	0.0%	87.8%	12.2%	100.0%
10/1/2022	0.0%	88.9%	11.1%	100.0%	0.0%	41.3%	58.7%	100.0%
11/1/2022	0.0%	92.7%	7.3%	100.0%	0.0%	75.7%	24.3%	100.0%
12/1/2022	0.0%	97.3%	2.7%	100.0%	0.0%	83.9%	16.1%	100.0%
1/1/2023	0.0%	99.0%	1.0%	100.0%	0.0%	62.6%	37.4%	100.0%
2/1/2023	0.0%	96.9%	3.1%	100.0%	0.0%	91.8%	8.2%	100.0%
3/1/2023	0.0%	88.0%	12.0%	100.0%	0.0%	85.1%	14.9%	100.0%
4/1/2023	0.0%	68.6%	31.4%	100.0%	0.0%	98.4%	1.6%	100.0%
5/1/2023	0.0%	89.3%	10.7%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2023	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2023	0.5%	99.5%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
8/1/2023	1.2%	98.8%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
9/1/2023	0.5%	99.5%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
10/1/2023	0.0%	96.5%	3.5%	100.0%	0.0%	100.0%	0.0%	100.0%
11/1/2023	0.0%	91.5%	8.5%	100.0%	0.0%	86.0%	14.0%	100.0%
12/1/2023	0.0%	98.9%	1.1%	100.0%	0.0%	80.2%	19.8%	100.0%
1/1/2024	0.0%	91.4%	8.6%	100.0%	0.0%	89.2%	10.8%	100.0%
2/1/2024	4.4%	85.3%	10.3%	100.0%	1.3%	94.2%	4.5%	100.0%
3/1/2024	0.0%	82.4%	17.6%	100.0%	0.0%	72.2%	27.8%	100.0%
4/1/2024	0.0%	68.1%	31.9%	100.0%	0.0%	95.9%	4.1%	100.0%
5/1/2024	0.0%	64.5%	35.5%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2024	0.4%	99.6%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2024	6.3%	93.7%	0.0%	100.0%	0.0%	100.0%	0.0%	100.0%
8/1/2024	21.2%	78.0%	0.8%	100.0%	0.0%	93.4%	6.6%	100.0%
9/1/2024	2.5%	97.1%	0.3%	100.0%	0.0%	96.4%	3.6%	100.0%
10/1/2024	0.0%	64.2%	35.8%	100.0%	0.0%	100.0%	0.0%	100.0%
11/1/2024	0.0%	79.6%	20.4%	100.0%	0.0%	97.1%	2.9%	100.0%
12/1/2024	0.3%	95.7%	4.0%	100.0%	0.0%	98.2%	1.8%	100.0%
1/1/2025	0.0%	97.5%	2.5%	100.0%	0.0%	76.4%	23.6%	100.0%
2/1/2025	0.0%	90.5%	9.5%	100.0%	0.0%	98.8%	1.2%	100.0%
3/1/2025	0.0%	87.5%	12.5%	100.0%	0.0%	79.0%	21.0%	100.0%
4/1/2025	0.0%	50.2%	49.8%	100.0%	0.0%	95.7%	4.3%	100.0%
5/1/2025	1.8%	95.1%	3.1%	100.0%	0.0%	100.0%	0.0%	100.0%
6/1/2025	0.9%	98.4%	0.6%	100.0%	0.0%	100.0%	0.0%	100.0%
7/1/2025	9.9%	89.9%	0.3%	100.0%	0.1%	99.4%	0.5%	100.0%
8/1/2025	6.1%	92.6%	1.3%	100.0%	0.0%	76.1%	23.9%	100.0%
9/1/2025	2.3%	95.5%	2.3%	100.0%	0.0%	68.1%	31.9%	100.0%
10/1/2025	0.0%	78.2%	21.8%	100.0%	0.0%	98.3%	1.7%	100.0%
11/1/2025	0.0%	84.0%	16.0%	100.0%	0.0%	78.3%	21.7%	100.0%
12/1/2025	0.0%	96.2%	3.8%	100.0%	0.0%	71.5%	28.5%	100.0%
1/1/2026	0.0%	29.2%	70.8%	100.0%	0.0%	21.3%	78.7%	100.0%
2/1/2026	0.0%	27.9%	72.1%	100.0%	1.9%	55.2%	42.9%	100.0%
3/1/2026	0.0%	61.2%	38.8%	100.0%	0.0%	82.2%	17.8%	100.0%
4/1/2026	0.9%	65.3%	33.8%	100.0%	0.0%	92.8%	7.2%	100.0%
5/1/2026	25.2%	74.0%	0.8%	100.0%	31.3%	66.7%	2.0%	100.0%
6/1/2026	26.9%	73.1%	0.0%	100.0%	41.2%	58.8%	0.0%	100.0%
7/1/2026	34.2%	57.3%	8.5%	100.0%	45.1%	33.8%	21.1%	100.0%
8/1/2026	30.8%	44.4%	24.8%	100.0%	24.8%	30.4%	44.8%	100.0%
9/1/2026	34.2%	32.2%	33.6%	100.0%	33.5%	15.5%	51.0%	100.0%
	21.6%	23.7%	54.7%	100.0%	12.9%	8.4%	78.7%	100.0%
10/1/2026								
11/1/2026	20.4%	10.2%	69.4%	100.0%	24.7%	5.4%	69.9%	100.0%

1/1/2027	23.1%	4.9%	72.0%	100.0%	17.0%	9.5%	73.5%	100.0%
2/1/2027	20.2%	32.1%	47.7%	100.0%	14.5%	33.6%	51.9%	100.0%
3/1/2027	20.1%	46.8%	33.1%	100.0%	5.1%	82.7%	12.2%	100.0%
4/1/2027	23.8%	52.5%	23.7%	100.0%	29.8%	63.5%	6.7%	100.0%
5/1/2027	21.6%	77.3%	1.1%	100.0%	25.3%	72.9%	1.8%	100.0%
6/1/2027	27.0%	72.1%	0.9%	100.0%	38.4%	61.6%	0.0%	100.0%
7/1/2027	30.9%	56.9%	12.2%	100.0%	40.0%		22.3%	100.0%
						37.8%		
8/1/2027	22.9%	48.7%	28.4%	100.0%	25.0%	36.3%	38.8%	100.0%
9/1/2027	31.2%	38.4%	30.4%	100.0%	21.8%	30.7%	47.5%	100.0%
10/1/2027	18.0%	21.7%	60.3%	100.0%	18.2%	21.3%	60.5%	100.0%
11/1/2027	24.4%	12.0%	63.5%	100.0%	14.8%	6.8%	78.4%	100.0%
12/1/2027	27.3%	37.9%	34.9%	100.0%	34.4%	25.1%	40.5%	100.0%
1/1/2028	29.0%	14.5%	56.5%	100.0%	21.5%	7.7%	70.8%	100.0%
2/1/2028	20.5%	35.6%	43.9%	100.0%	17.1%	45.3%	37.6%	100.0%
3/1/2028	23.3%	48.6%	28.1%	100.0%	9.4%	81.0%	9.7%	100.0%
4/1/2028	19.9%	61.1%	19.0%	100.0%	22.2%	71.2%	6.6%	100.0%
5/1/2028	24.8%	74.5%	0.7%	100.0%	16.8%	81.8%	1.4%	100.0%
6/1/2028	18.2%	81.2%	0.6%	100.0%	31.5%	68.5%	0.0%	100.0%
7/1/2028	10.0%	82.0%	8.1%	100.0%	32.8%	47.1%	20.1%	100.0%
8/1/2028	26.3%	52.8%	20.9%	100.0%	36.2%	33.6%	30.2%	100.0%
9/1/2028	25.0%	50.2%	24.8%	100.0%	30.2%	33.8%	36.0%	100.0%
	23.0%			100.0%				
10/1/2028		26.2%	51.7%		21.3%	10.3%	68.3%	100.0%
11/1/2028	23.8%	9.8%	66.4%	100.0%	24.0%	6.4%	69.6%	100.0%
12/1/2028	25.5%	42.9%	31.5%	100.0%	48.4%	27.8%	23.7%	100.0%
1/1/2029	36.1%	10.9%	52.9%	100.0%	19.6%	12.7%	67.8%	100.0%
2/1/2029	18.8%	35.0%	46.2%	100.0%	20.2%	35.8%	44.0%	100.0%
3/1/2029	23.2%	58.9%	17.9%	100.0%	15.5%	71.3%	13.2%	100.0%
4/1/2029	33.1%	49.0%	17.9%	100.0%	29.9%	63.6%	6.5%	100.0%
5/1/2029	21.3%	78.7%	0.0%	100.0%	20.7%	78.9%	0.4%	100.0%
6/1/2029	27.0%	73.0%	0.0%	100.0%	27.9%	72.1%	0.0%	100.0%
7/1/2029	33.9%	61.3%	4.8%	100.0%	27.9%	56.3%	15.8%	100.0%
8/1/2029	30.9%	56.6%	12.5%	100.0%	34.7%	41.3%	24.0%	100.0%
9/1/2029	22.5%	48.9%	28.6%	100.0%	29.8%	42.2%	28.0%	100.0%
10/1/2029	21.3%	19.3%	59.4%	100.0%	26.0%	9.9%	64.2%	100.0%
11/1/2029	18.1%	10.7%	71.3%	100.0%	28.9%	7.5%	63.6%	100.0%
12/1/2029	22.8%	39.0%	38.2%	100.0%	36.8%	28.2%	35.0%	100.0%
1/1/2030	28.2%	19.1%	52.7%	100.0%	21.7%	19.1%	59.2%	100.0%
2/1/2030	21.6%	34.0%	44.4%	100.0%	15.6%	50.9%	33.4%	100.0%
3/1/2030	24.5%	56.7%	18.8%	100.0%	24.7%	65.6%	9.7%	100.0%
4/1/2030	29.0%	55.7%	15.3%	100.0%	28.2%	71.0%	0.8%	100.0%
5/1/2030	17.5%	81.4%	1.1%	100.0%	14.6%	83.9%	1.5%	100.0%
6/1/2030	12.6%	87.4%	0.0%	100.0%	21.4%	78.6%	0.0%	100.0%
7/1/2030	34.1%	55.2%	10.7%	100.0%	30.4%	54.1%	15.5%	100.0%
8/1/2030	25.0%	55.3%	19.6%	100.0%	27.6%	51.5%	20.9%	100.0%
9/1/2030	28.9%	49.5%	21.6%	100.0%	23.8%	60.0%	16.2%	100.0%
10/1/2030	21.9%	24.6%	53.6%	100.0%	20.7%	19.1%	60.2%	100.0%
11/1/2030	22.7%	13.2%	64.2%	100.0%	29.1%	15.3%	55.6%	100.0%
12/1/2030	25.2%	44.0%	30.7%	100.0%	31.5%	33.9%	34.6%	100.0%
1/1/2031	29.0%	25.9%	45.0%	100.0%	17.3%	27.1%	55.6%	100.0%
2/1/2031	28.0%	30.6%	41.4%	100.0%	20.8%	47.4%	31.8%	100.0%
3/1/2031	32.2%	53.6%	14.3%	100.0%	21.4%	61.5%	17.1%	100.0%
4/1/2031	27.6%	55.3%	17.2%	100.0%	27.6%	72.0%	0.4%	100.0%
5/1/2031	28.5%	71.2%	0.3%	100.0%	17.6%	80.9%	1.5%	100.0%
6/1/2031	16.1%	83.9%	0.0%	100.0%	25.2%	74.8%	0.0%	100.0%
7/1/2031	35.2%	50.1%	14.7%	100.0%	24.7%	67.2%	8.1%	100.0%
8/1/2031	26.4%	59.8%	13.8%	100.0%	23.6%	58.6%	17.9%	100.0%
9/1/2031	28.0%	35.8%	36.2%	100.0%	16.3%	74.1%	9.6%	100.0%
10/1/2031	27.7%	26.6%	45.7%	100.0%	30.3%	28.0%	41.7%	100.0%
11/1/2031	27.7%	14.3%	58.0%	100.0%	33.1%	28.0% 18.4%	41.7%	100.0%
12/1/2031	24.0%	43.4%	32.6%	100.0%	45.1%	31.7%	23.2%	100.0%

1/1/2032	29.6%	13.0%	57.3%	100.0%	29.2%	8.8%	62.0%	100.0%
2/1/2032	25.1%	35.2%	39.7%	100.0%	22.9%	51.8%	25.3%	100.0%
3/1/2032	23.3%	58.7%	18.0%	100.0%	17.3%	73.6%	9.1%	100.0%
4/1/2032	20.6%	63.4%	16.0%	100.0%	27.1%	72.5%	0.4%	100.0%
5/1/2032	27.3%	70.8%	1.9%	100.0%	16.4%	82.9%	0.7%	100.0%
6/1/2032	32.7%	67.3%	0.0%	100.0%	22.7%	77.3%	0.0%	100.0%
7/1/2032	34.0%	56.8%	9.2%	100.0%	24.5%	74.8%	0.7%	100.0%
8/1/2032	24.9%	60.4%		100.0%	24.5%			100.0%
			14.6%		1	55.3%	20.3%	
9/1/2032	29.9%	31.4%	38.7%	100.0%	35.2%	39.5%	25.3%	100.0%
10/1/2032	27.2%	22.2%	50.6%	100.0%	33.4%	16.3%	50.3%	100.0%
11/1/2032	30.5%	12.1%	57.4%	100.0%	45.6%	15.5%	38.9%	100.0%
12/1/2032	25.6%	40.3%	34.0%	100.0%	43.2%	36.7%	20.2%	100.0%
1/1/2033	29.8%	24.7%	45.5%	100.0%	29.3%	17.3%	53.4%	100.0%
2/1/2033	31.7%	30.5%	37.7%	100.0%	22.8%	51.2%	26.1%	100.0%
3/1/2033	26.4%	59.2%	14.3%	100.0%	21.8%	71.1%	7.1%	100.0%
4/1/2033	27.0%	63.4%	9.5%	100.0%	26.0%	73.1%	0.9%	100.0%
5/1/2033	31.8%	68.2%	0.0%	100.0%	11.2%	88.4%	0.4%	100.0%
6/1/2033	28.1%	71.9%	0.0%	100.0%	12.6%	87.4%	0.0%	100.0%
7/1/2033	33.5%	65.5%	1.1%	100.0%	33.2%	65.6%	1.2%	100.0%
8/1/2033	33.7%	54.6%	11.7%	100.0%	29.7%	51.0%	19.3%	100.0%
9/1/2033	37.1%	32.2%	30.7%	100.0%	42.2%	29.5%	28.3%	100.0%
10/1/2033	38.5%	16.5%	45.0%	100.0%	34.5%	38.5%	27.0%	100.0%
11/1/2033	33.4%	17.4%	49.2%	100.0%	35.9%	13.2%	50.9%	100.0%
12/1/2033	23.3%	44.3%					26.0%	100.0%
			32.4%	100.0%	48.5%	25.4%		
1/1/2034	31.4%	17.0%	51.6%	100.0%	28.1%	14.5%	57.4%	100.0%
2/1/2034	32.3%	28.4%	39.2%	100.0%	21.2%	52.1%	26.7%	100.0%
3/1/2034	29.2%	52.8%	17.9%	100.0%	23.4%	72.1%	4.4%	100.0%
4/1/2034	22.2%	67.8%	10.1%	100.0%	15.6%	82.6%	1.9%	100.0%
5/1/2034	31.3%	67.8%	0.9%	100.0%	16.7%	82.5%	0.9%	100.0%
6/1/2034	28.8%	71.2%	0.0%	100.0%	18.2%	81.8%	0.0%	100.0%
7/1/2034	31.5%	68.2%	0.3%	100.0%	30.7%	67.6%	1.7%	100.0%
8/1/2034	25.8%	67.1%	7.1%	100.0%	23.5%	59.3%	17.2%	100.0%
9/1/2034	28.3%	46.4%	25.3%	100.0%	32.3%	35.4%	32.3%	100.0%
10/1/2034	33.4%	20.7%	45.9%	100.0%	29.3%	29.2%	41.6%	100.0%
11/1/2034	30.5%	20.8%	48.7%	100.0%	39.0%	15.2%	45.8%	100.0%
12/1/2034	33.9%	34.5%	31.7%	100.0%	46.5%	32.6%	21.0%	100.0%
1/1/2035	45.2%	11.9%	42.9%	100.0%	26.2%	16.9%	56.9%	100.0%
2/1/2035	30.4%	39.2%	30.4%	100.0%	34.7%	42.7%	22.6%	100.0%
3/1/2035	27.5%	59.6%	13.0%	100.0%	26.6%	69.8%	3.6%	100.0%
4/1/2035	24.7%	66.6%	8.7%	100.0%	16.1%	83.9%	0.0%	100.0%
5/1/2035	26.1%	73.9%	0.0%	100.0%	23.0%	75.2%	1.8%	100.0%
6/1/2035	24.9%	75.1%	0.0%	100.0%	14.6%	85.4%	0.0%	100.0%
7/1/2035	24.9%	72.2%	0.0%	100.0%	28.1%	71.1%	0.0%	100.0%
8/1/2035	25.1%	66.1%	8.8%	100.0%	23.1%	60.6%	16.3%	100.0%
9/1/2035	30.2%	59.4%	8.8% 10.3%	100.0%	36.9%	41.8%	21.3%	100.0%
					1			
10/1/2035	32.2%	31.7%	36.1%	100.0%	36.2%	46.5%	17.3%	100.0%
11/1/2035	37.5%	21.1%	41.4%	100.0%	39.1%	22.1%	38.8%	100.0%
12/1/2035	25.8%	39.1%	35.1%	100.0%	36.0%	43.0%	20.9%	100.0%
1/1/2036	44.1%	22.5%	33.4%	100.0%	33.0%	17.4%	49.7%	100.0%
2/1/2036	27.4%	40.4%	32.2%	100.0%	34.1%	44.9%	21.0%	100.0%
3/1/2036	26.5%	68.8%	4.7%	100.0%	22.8%	71.7%	5.5%	100.0%
4/1/2036	20.3%	76.8%	2.9%	100.0%	6.2%	93.2%	0.6%	100.0%
5/1/2036	17.9%	81.4%	0.8%	100.0%	30.6%	67.3%	2.1%	100.0%
6/1/2036	20.1%	79.9%	0.0%	100.0%	12.8%	87.2%	0.0%	100.0%
7/1/2036	20.7%	79.3%	0.0%	100.0%	22.5%	77.4%	0.1%	100.0%
8/1/2036	26.4%	69.0%	4.6%	100.0%	15.3%	77.5%	7.2%	100.0%
9/1/2036	29.4%	59.6%	11.1%	100.0%	21.4%	66.0%	12.6%	100.0%
10/1/2036	25.4%	48.3%	26.3%	100.0%	29.7%	67.2%	3.0%	100.0%
11/1/2036	21.0%	40.2%	38.8%	100.0%	38.1%	31.9%	30.0%	100.0%
12/1/2036	24.4%	51.0%	24.7%	100.0%	34.4%	51.1%	14.6%	100.0%
12,1,2000	2 1/0	21.070	2 / / 0	100.070	3 1/0	J 1.170	1070	100.070

1/1/2037	33.5%	44.7%	21.8%	100.0%	17.6%	76.5%	5.9%	100.0%
2/1/2037	27.3%	51.5%	21.2%	100.0%	19.9%	69.0%	11.1%	100.0%
3/1/2037	22.6%	71.8%	5.6%	100.0%	32.9%	57.4%	9.7%	100.0%
	16.6%	80.3%		100.0%	10.6%			100.0%
4/1/2037			3.1%			88.0%	1.4%	
5/1/2037	17.6%	81.4%	1.0%	100.0%	14.4%	83.6%	2.0%	100.0%
6/1/2037	14.6%	85.4%	0.0%	100.0%	11.5%	88.5%	0.0%	100.0%
7/1/2037	20.3%	78.8%	0.9%	100.0%	9.4%	90.3%	0.3%	100.0%
8/1/2037	20.0%	74.4%	5.6%	100.0%	13.3%	84.4%	2.2%	100.0%
9/1/2037	25.1%	67.4%	7.5%	100.0%	14.7%	79.8%	5.5%	100.0%
10/1/2037	30.2%	57.4%	12.5%		15.4%	78.8%	5.8%	100.0%
				100.0%	l			
11/1/2037	27.3%	51.4%	21.4%	100.0%	18.0%	74.6%	7.4%	100.0%
12/1/2037	27.6%	56.2%	16.3%	100.0%	20.6%	76.8%	2.6%	100.0%
1/1/2038	18.9%	47.1%	33.9%	100.0%	15.5%	77.6%	6.9%	100.0%
2/1/2038	27.5%	50.3%	22.1%	100.0%	26.9%	58.8%	14.3%	100.0%
3/1/2038	19.0%	75.0%	6.0%	100.0%	36.8%	54.0%	9.2%	100.0%
4/1/2038	19.0%	78.4%	2.6%	100.0%	15.8%	83.6%	0.6%	100.0%
5/1/2038	26.7%	72.5%		100.0%	22.4%	76.8%	0.8%	100.0%
			0.8%					
6/1/2038	21.5%	77.7%	0.9%	100.0%	15.6%	84.2%	0.2%	100.0%
7/1/2038	32.7%	67.0%	0.3%	100.0%	26.9%	72.0%	1.1%	100.0%
8/1/2038	17.3%	77.7%	5.0%	100.0%	9.5%	88.0%	2.5%	100.0%
9/1/2038	25.7%	66.6%	7.7%	100.0%	11.3%	81.5%	7.2%	100.0%
10/1/2038	31.1%	58.2%	10.7%	100.0%	12.5%	76.2%	11.3%	100.0%
11/1/2038	7.4%	79.1%	13.4%	100.0%	24.2%	60.5%	15.3%	100.0%
12/1/2038	17.2%	67.2%	15.6%	100.0%	24.2%	71.2%	4.6%	100.0%
1/1/2039	25.9%	57.5%	16.6%	100.0%	13.1%	77.5%	9.4%	100.0%
2/1/2039	26.9%	59.2%	13.9%	100.0%	17.1%	71.7%	11.2%	100.0%
3/1/2039	25.5%	68.9%	5.6%	100.0%	36.9%	55.9%	7.2%	100.0%
4/1/2039	17.5%	81.0%	1.5%	100.0%	12.4%	87.2%	0.4%	100.0%
5/1/2039	23.3%	76.3%	0.4%	100.0%	18.4%	81.3%	0.3%	100.0%
6/1/2039	24.2%	74.8%	1.0%	100.0%	11.3%	87.8%	0.9%	100.0%
7/1/2039	17.6%	80.9%	1.5%	100.0%	9.4%	90.2%	0.4%	100.0%
8/1/2039	21.9%	74.6%	3.5%	100.0%	9.8%	88.1%	2.2%	100.0%
9/1/2039	19.9%	76.6%	3.5%	100.0%	9.2%	85.2%	5.6%	100.0%
10/1/2039	27.7%	59.0%	13.3%	100.0%	13.8%	75.2%	11.1%	100.0%
11/1/2039	30.3%	60.6%	9.1%	100.0%	17.9%	68.1%	14.0%	100.0%
12/1/2039	31.5%	55.4%	13.1%	100.0%	33.0%	62.4%	4.6%	100.0%
1/1/2040	25.9%	57.5%	16.6%	100.0%	13.3%	80.5%	6.2%	100.0%
2/1/2040	26.9%	59.2%	13.9%	100.0%	14.4%	72.3%	13.3%	100.0%
3/1/2040	25.5%	68.9%	5.6%	100.0%	30.3%	56.1%	13.6%	100.0%
4/1/2040	17.5%	81.0%	1.5%	100.0%	10.1%	89.2%	0.7%	100.0%
5/1/2040	23.3%	76.3%	0.4%	100.0%	8.8%	91.2%	0.0%	100.0%
6/1/2040	24.2%	74.8%	1.0%	100.0%	6.9%	92.3%	0.8%	100.0%
7/1/2040	17.6%	80.9%	1.5%	100.0%	18.7%	78.3%	3.0%	100.0%
8/1/2040	21.9%	74.6%	3.5%	100.0%	21.5%	73.1%	5.4%	100.0%
9/1/2040	19.9%	76.6%	3.5%	100.0%	34.2%	59.0%	6.8%	100.0%
10/1/2040	27.7%	59.0%	13.3%	100.0%	8.7%	70.9%	20.3%	100.0%
11/1/2040	30.3%	60.6%	9.1%	100.0%	15.0%	73.9%	11.1%	100.0%
12/1/2040	31.5%	55.4%	13.1%	100.0%	27.3%	67.9%	4.8%	100.0%
1/1/2041	25.9%	57.5%	16.6%	100.0%	13.3%	80.5%	6.2%	100.0%
2/1/2041	26.9%	59.2%	13.9%	100.0%	14.4%	72.3%	13.3%	100.0%
3/1/2041	25.5%	68.9%	5.6%	100.0%	30.3%	56.1%	13.6%	100.0%
4/1/2041	17.5%	81.0%	1.5%	100.0%	10.1%	89.2%	0.7%	100.0%
5/1/2041	23.3%	76.3%	0.4%	100.0%	8.8%	91.2%	0.0%	100.0%
6/1/2041	24.2%	74.8%	1.0%	100.0%	6.9%	92.3%	0.8%	100.0%
7/1/2041	17.6%	80.9%	1.5%	100.0%	18.7%	78.3%	3.0%	100.0%
8/1/2041	21.9%				21.5%			100.0%
		74.6%	3.5%	100.0%		73.1%	5.4%	
9/1/2041	19.9%	76.6%	3.5%	100.0%	34.2%	59.0%	6.8%	100.0%
10/1/2041	27.7%	59.0%	13.3%	100.0%	8.7%	70.9%	20.3%	100.0%
11/1/2041	30.3%	60.6%	9.1%	100.0%	15.0%	73.9%	11.1%	100.0%
12/1/2041	31.5%	55.4%	13.1%	100.0%	27.3%	67.9%	4.8%	100.0%
	 					•		-

⁽¹⁾ Blending weights are calculated using system balancing purchases and sales from GRID run using March 2022 Official Forward Price Curve

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	1		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035		2037		2039	2040	10-year	20
Thermal Plant Retirements, Conversions																						_
Coal Plant End-of-life Retirements																						_
Craig 1	-			-	-	(82)		-	-	-	-	1	-		-	-		-	_		(82)	1
Craig 2	-		-	-	-	- (02)	-	-	(79)	-	-	-	-	-	-	-			-	_	(79)	
DaveJohnston 1	-	-	-	-	-	-	-	(99)	- (7)	-	-	-	-	-	-	-	-	-	-	-	(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	_	-	-	-	-	-			-	-		-				-	(450)		-	(268)	<u> </u>	
	_												-		_					(200)		-
Coal Early Retirements																						-
Naughton 1 (Coal Early Retirement - 2025)	-		-	-	-	(156)	-		-	-	-	-	-	-		-	-	-	-	-	(156)	
Naughton 2 (Coal Early Retirement - 2025)	-	-	-	-	-	(201)	-		-	-	-	-	-	-	-	-	-	-	-	-	(201))
Gas Plant End-of-life Retirements																					-	Т
Gadsby 1	-	-		-	-	-	-	-	-	-		-	(64)	-	-	-	-	-	-	-	-	T
Gadsby 2	-		-	-	-	-	-	-	-	-	-	-	(69)	-	-	-	-	-	-	_	_	
Gadsby 2 Gadsby 3	-	-	-	-	-	-	-	-	-	-	-	-	(105)	-		-	-	-	-			+
Gadsby 4		-	-	-	-					-			(40)	-		-			-	-	—	+
																_						+
Gadsby 5	-	-	-	-	-	-	-	-	-	-	-	-	(40)	-	-	-	-	-	-	-	_	+-
Gadsby 6	-	-	-	-	-	-	-	-	-	-	-	-	(40)	-	-	-	-	-	-	-	_	_
Naughton 3 GC	-	-	-	-	-	-	-	-	-	(247)	-	-	-	-	-	-	-	-	-	-	(247))
Non-Thermal Retirements & Expirations																						
Retire - Hydro																						
Hydro - Utah North - ID	-	-	-	-	-		- 1		-	-	-	1	-	[-	-	-	-	_		\top
Hydro - Utah North	-		-	-	-	-			-	-	-		-		-	-	-	-	-	-	_	-
Hydro - Utah South	-		-		-					-		-					-		-	_	_	+
	-	_	_	-	-	-	-		-	-	-		-				-	-	_	_		+
Expire - Wind PPA	_								(0.0)	(200)											(200)	+
Wind-Wyoming East	-	-	-	-	-	-	-		(99)	(200)	-	-	-	-		-	-	-	-	-	(299)	
Wind-Goshen	-	-	-	-	-	(65)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(65)	/
Retire - Wind																						
Wind-Wyoming East	-			-	-	-	-		- 1	-	-	-	-	- 1	-	- 1	-	-	-	-	-	
Wind-Wyoming North	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	Т
Expire - Solar PPA					·																	_
Solar-Utah North	-		-		- 1		- 1		-	-	-	- 1	-			-	(73)	-	-	_	-	-
Solar-Utah South	-	-			-			-	-	-	-	-	-	-		-	- (73)	-	-	-	_	-
	-	-	-	-	-	-				-	- 1		-	- 1		- 1		-	-	-		+
Expire - QF															(4.0)	(#0)	(cms)	(4.6)	(=4)	(50)	_	+-
Qualified Facility - Solar	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(19)		(671)	(11)	(71)		-	\perp
Qualified Facility - Wind	-	-	-	-	-	-	(3)		(19)	-	-	(45)	(181)	(80)		(140)	-	-	-	-	(22)	
Qualified Facility - Thermal	-	-	-	(50)	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	(50)	<u></u>
Qualified Facility - Geothermal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Qualified Facility - Hydro	-		-	-	-		-		-	-	-	-	-	-	-	-	-	-		-	-	T
Expire - Other	1																					
Hydro PPA - GOE	-			(22)	-		1			-		- 1	_						_		(22)	J
																_				_		
Contract - MNA	-	-	-	-	(91)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(91)	
Contract - UTS	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	
Contract - WYE	-	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	
Contract Exchange - 4CR	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-		-	-	
Retire - Other																						
Existing - Geothermal	-		-	-	-	-	1			-	-	- 1	-				-	(32)	-	_	_	\top
MagCorp Interruptible	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(52)	-	-	_	+
Monsanto Curtailment	-	-	-	-	-	-			-	-		-	-	-			-					+
							_		_							_				_		+
Nucor Interruptible	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	+
Reserves	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	_
Existing - DR	-	-	-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	-	\perp
Existing - EE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Battery - Panguitch	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Retire - Solar																						-
Solar-Utah North	-	-	-		-					-	- 1	- 1	-				-	-	-		-	+

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Expansion Resources																						
NonEmitting Peaker																						
NonEmitting Peaker - Utah North	-	-	-	-	-	-	-	-	-	-	-	-	206	-	-	-	-	-	-	-	-	
NonEmitting Peaker - Naughton	-	-	-	-	-	-	-	-	-	-	-	-	196	-	-	-	-	-	-	-	-	
NonEmitting Peaker - Wvodak	-	-	- 1	-	-	-	-	-	-	-	-	- 1	-		-	-	-	-	-	206	-	Т
Nuclear																			•			Т
Advanced-Nuclear-Naughton	- 1	- 1	- 1	-	-	-	-	345	-	-	-	- 1	-	- 1	-	-		-	-	-	345	Т
Nuclear Storage		•																				Т
Nuclear Storage - Naughton	- 1	-	- 1	-	-	-	-	155	-	-	-	-	-	- 1	-	- 1		-	-	-	155	Т
Renewable - Wind	<u> </u>				-																	\vdash
Wind, Wyoming East	- 1			-	-	-	-	1	-	489			-		-	-	-	-		60	489	\vdash
Wind-Wyoming East	49		-	43	-	-	-		-	-	-		-		-	-	-	-		-	92	
RFP-Wind - Goshen	-	-	151	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	151	\vdash
RFP-Wind - Wyoming East		-	- 131	-	1.641	-	-	-	-	-	-		-	-	-	-		-	-	-	1.641	\vdash
Renewable - Utility Solar					1,011																1,011	\vdash
RFP-Solar PV - Utah South	- 1		- 1	95	-	-					- 1	- 1	-		-				- 1		95	\vdash
Utility Solar + Storage - PV - Utah North	-			-	-						820		-							-	820	
Utility Solar + Storage - PV - Utah South	-			-	-						- 020		1.100							-	- 020	+
Utility Solar + Storage - PV - Hunter				-	-					1			- 1,100				909			-	1	+
RFP-PVS Solar - Utah North	-			45	-					-			-				-				45	
RFP-PVS Solar - Utah North	-	- :	-	498	455	-		- 1			- :	-	-						-		953	
Renewable - Battery, Solar+Storage	- 1		-	420	433	-	-		-	-			-		-	-	-	-			933	+
PVS Battery - Utah North	- 1	- 1	- 1	-	-	-	-		-	-	820	- 1	-	- 1	-	-	-	-	- 1		820	+
PVS Battery - Utah North	-			-	-	-	-				- 620	-	1.100	-	-					-	- 620	+
PVS Battery - Utah South PVS Battery - Hunter				-	-	-	-		-	1		-	1,100		-		909			-	1	+
RFP-PVS Battery - Utah North	-	- :		13	-	-	-	- 1		- 1				- :			-			-	13	
RFP-PVS Battery - Utah Notth		- :	- :	174	258	-		- 1			- :	- :		- :	-						432	
Battery - Stand Alone	1			1/4	236	-	-					1	-	1	-	-			- 1		432	⊢
Battery - Stand Alone Battery Storage - DJ+Wvodak	- 1	. 1	. 1				-	. 1	549			. 1		. 1	-				- 1		550	+
RFP-Battery Storage - Utah-N				200						1											200	
DSM - Demand Response	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	⊢
DR Summer - ID	- 1	- 1	1	10	2	1	1	4	6	2	2	2	3	2	15	2	3	5	3	5	28	+
DR Summer - ID		-:-	29	26	8	3	5	10	9	8	10	11	105	20	30	30	66	34	29	42	109	
DR Summer - UT			1	1	1	1	1	10	1	8	10	11	2	1	30	1	1	1	4	36	8	
			1	1	0	1	1	2	2	1	2	1		2	2	2		2	7		11	
DR Winter - ID DR Winter - UT	-		35	41	3	3	4	6	10	7	8	12	73	22	24	34	3 59	24	27	74	117	
DR Winter - UT DR Winter - WY			35	41	0	1	1	- 6	10	1	8	12	3	22	24	34		24	6	30		
DR Winter - WY RFP- DSM DRS - Goshen	-	- 5	6	3	3	3	3	3	3	3	3	1	-				1		_		6 34	
RFP- DSM DRS - Gosnen RFP- DSM DRS - Utah North	-	55	59	9	9	9	9	9	9	9	9	-	-	-	-	-	-	-	-	-	186	
	-	17	2	3	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	-	186	
RFP- DSM DRS - Wyoming Central		1/	2	3	3	3		3	5	5	3	-	-	-	-	-	-	-	-	-	41	+
DSM - Energy Efficiency					0.1	10	14	17	10	20	20	20.	10	10	1.7	1.5	12		0.1		124	+
Energy Efficiency, ID	6	67	6	7	9	12 109	14	16	18 145	20	20	20	19	18	17	15 105	13	11	9	8	134 1,227	
Energy Efficiency, UT	60	67	73	82	97		124	138		166	166	161	151		121		110	95	86	88		
Energy Efficiency, WY	8	,	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																						1
FOT - Mona, Winter	-	-	-	-		-	- 1	- 1	-		- 1	- 1	- 1	- 1	-	-	-		-	- 1	-	1

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	_																					
Thermal Plant Retirements, Conversions																						
Coal Plant End-of-life Retirements																						_
Colstrip 3	-	-	-	-	-	(74)		-	-	-	-	-	-		-	-	-	-	-	-	(74)	
Colstrip 4	-	-	-	-	-	(74)	-		-	-	-	-	-		-	-	-	-	-	-	(74)	_
JimBridger 3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(349)	-	-	-	
JimBridger 4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(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)	
2024.JimBridger 2 GC, Coal Ends	-	-	-	(359)	-	-	-		-	-	-	-	-	-	-	-	-	-	-	-	(359)	
Gas Plant End-of-life Retirements																						
Hermiston	-	-	-		-	-	-	-	-		-	-	-	-	-	-	(237)	-	-	-	-	
Non-Thermal Retirements & Expirations			-									-					-					
Retire - Hydro																						
Hydro - Southern OR	-	-	(163)		-	-	-	-	-		-	-	-	-	-	-	-	-	-	-	(163)	
Expire - Wind PPA			•		•	•						•		•		•	•	•				
Wind-Walla Walla - WA	-	(175)) -	(41)	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	(216)	
Wind-Mid-C	-	175	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	
Retire - Wind			•		•	•						•	•			•	•	•				
Wind-Walla Walla - WA	-	(10)) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	(10)	
Expire - Solar PPA			•									•	•			•	•	•				
Solar-Southern OR	-	-	-	-	-	-	-	(2)	-	-	-	(8)	-	-	-	-	-	-	-	-	(2)	
Expire - QF			•		•				•				•	-			•	•				
Qualified Facility - Solar	-	-	-		-	-	-	-	-		-	(36)	-	(12)	-	(10)	(73)	(20)	(29)	-	-	
Qualified Facility - Wind	-	-	-	-	-	-	-	-	(65)	-		-	-	-	-	-	- 1	- 1	-	(40)	(65)	
Oualified Facility - Biomass	-	-	-		-		(26)	-	-	-		-	-	-	-	-	-	-	-	-	(26)	
Oualified Facility - Hydro	-	(2)) -	-	-		-	-	-	(0)		-	-	-	-	-	-	-	-	-	(2)	
Expire - Other					1					(-/									-			
Contract - SOR	-	11	-		-		-	-	-	-	-	-	-			-	-	-	-	-	11	\Box
Contract - BDG	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	
Contract - MDC		٠.		25																	25	$\overline{}$

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Expansion Resources																						
NonEmitting Peaker																						
NonEmitting Peaker - Bridger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	412	-	-	_	
NonEmitting Peaker - Hermiston	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	206	-	-	-	
Nuclear																						
Advanced-Nuclear-Bridger	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	690	-	-	-	
Nuclear Storage	·		•	•			•									•		•				
Nuclear Storage - Bridger	-		-	-	-	-	-	-	-		-	- 1	-	- 1	-	-	-	310	- 1	-	-	
Renewable - Wind																			•			
Wind, Portland North Coast	- 1	- 1	- 1	- 1	-	130 (*)	-	-	- 1	- 1	- 1	450	-	1	-	-	- 1	-	-	-	130	
Wind, Willamette Valley		-				615 (*)	-		-	-	-		-		-	-	-	-		_	615	
Renewable - Wind+Storage	-					015()															013	_
Wind+Storage, Yakima	- 1	. 1	- 1		-				-	160		- 1		. T		-		-	- 1	-	160	-
Utility Solar + Storage - PV - BorahPop						600		-						-:-						-	600	
Utility Solar + Storage - PV - BoranPop Utility Solar + Storage - PV - Central OR	-	- :	-		-			- :	-	-	-	- : -	-	-:-	-		100	-			000	\leftarrow
	-		-			-	-			377	-		-		_			-		-	460	\vdash
Utility Solar + Storage - PV - Southern OR	-	-	-	-	-	-	-	83	-		-	-	-		-	-	-	-		- 156	180	
Utility Solar + Storage - PV - Yakima	-	-	-	-	-	-	-	-	-	180	-	-	-		-	-	-	-		156		
RFP-PVS Solar - Southern OR		-	-	209	-	-	-	-	-	-	-	-		-	-	-	-	-	-	-	209	₩
PVS Battery - Central OR	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	-	-	ــــ
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	1_
Battery Storage - Portland NC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	650	-	-	-	-	
Pump Storage - West	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	500	-	
DSM - Demand Response				•			•		•		•	•		•		•		•				
DR Summer - CA	- 1	- 1	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	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	i	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	11	17	10	13	10	0	0													100	\vdash
Energy Efficiency, CA	1	2	1	2	2	2	2	4	4	4	3	3	3	2	2	2	2	2	2	2	26	\leftarrow
	37	38	34		33		39		46	47	47	46				35		37	40		430	
Energy Efficiency, OR	10			34 21		36		41	46			46	44	42 33	38 29	35 24	33 21			38	328	
Energy Efficiency, WA		16	19		26	31	36	40		43	43		37		_			17	14	11		
Energy Efficiency-Home Energy Report, OR	4	4	5	-	-	-	-	-	-	-	-	-	-		-	-	-	-		-	13	
Energy Efficiency-Home Energy Report, WA	0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	-	-	0	₩
Front Office Transactions																						₩
FOT - Mid-C, Summer	733	670	514	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-		-	1,925	
FOT - COB, Summer	236	216	166	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	618	
FOT - NOB, Summer	95	86	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	247	
FOT - COB, Winter	58	22	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	21	150	82	
FOT - Mid-C, Winter	81	31	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	30	210	115	
FOT - NOB, Winter	23	9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	8	60	33	
Faith Dation at a d Committee				(45)	(01)	(50.5)	(2)	(700)	(2.41)	(447)		(45)	(525)	(90)	(10)	(100)	(1.671)	(42)	(71)	(220)	(2.110)	₩
Existing Retirements and Conversion	-	- (1)	(1(2)	(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)	(14)		(148)	(26)	(2)	(65)	(0)		(45)		(12)		(10)	(310)	(1,432)	(29)	(40)	(419)	
Expansion Resources Total	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	
Expansion Resources Total	1,280	1,140	918	415	111	2,055	118	251	126	1,410	136	561	108	99	156	117	957	2,324	148	1,389	7,962	1 -

(*) Deficiency Period / Renewable Proxy Resource

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

Year		W	inter Season			- 8/	Summer	Season		W	inter Season	1
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
On-Peak	(HLH Marke	et Purchase)									
2022						48.13	98.16	167.54	106.88	65.46	65.18	88.47
2023	88.88	76.64	48.58	31.78	30.32	37.89	110.66	126.90	105.70	55.08	58.68	71.93
2024	68.35	60.71	48.65	33.26	32.90	32.29	105.86	127.35	98.37	49.81	54.17	68.97
2025	64.75	55.44	46.15	33.67	23.24	27.71	73.91	87.45	70.68	45.43	50.02	57.25
2026	52.89	51.23	38.43	30.04	13.35	22.42	41.18	55.12	44.83	41.68	47.33	46.37
2027	50.87	50.87	30.71	24.58	12.95	22.79	44.55	56.93	46.92	43.14	47.98	50.10
2028	51.29	49.52	31.21	25.17	13.65	24.30	46.43	58.53	47.00	45.94	52.16	52.93
2029	52.40	56.01	30.53	25.73	13.46	22.92	44.48	55.99	48.50	46.06	53.42	53.58
2030	52.07	53.66	29.92	24.71	11.61	19.87	47.26	57.00	45.66	44.04	51.12	52.76
2031	54.31	55.68	29.70	24.14	12.56	21.09	47.43	57.79	50.18	45.27	56.06	57.97
2032	54.94	54.11	31.28	24.33	12.33	19.64	49.35	60.59	50.77	46.38	56.10	57.52
2033	55.30	56.81	29.53	22.51	10.64	16.85	42.79	58.18	45.52	44.23	54.60	58.87
2034	60.04	59.21	29.39	21.14	11.59	18.86	43.45	59.50	46.55	46.01	58.09	60.06
2035	59.09	57.69	28.39	22.19	10.71	17.18	44.69	61.50	45.08	43.56	56.08	62.77
2036	55.29	52.19	27.41	18.75	11.42	17.93	41.75	55.83	44.65	41.45	56.51	62.12
2037	54.25	54.05	27.86	19.73	10.91	17.01	42.71	56.46	44.55	39.77	55.20	65.36
2038	59.37	55.41	28.89	19.53	11.20	18.98	43.28	57.88	44.76	41.84	56.19	69.02
2039	56.08	52.92	26.80	16.88	10.94	16.85	39.56	51.81	38.79	39.52	55.24	66.25
2040	51.39	50.63	24.01	16.30	8.89	13.59	33.74	43.82	33.78	37.50	51.42	62.32
2041	50.66	50.05	24.45	16.17	9.04	13.82	29.63	40.94	32.83	34.86	47.29	62.68
Off-Peak	k (LLH Marke	et Purchase)									
2022						30.86	49.32	71.35	70.81	58.03	57.12	73.31
2023	70.57	63.73	42.34	26.48	20.17	25.68	55.56	63.79	54.68	46.91	50.87	59.57
2024	59.84	54.23	46.70	25.92	20.77	19.31	65.81	78.18	64.62	43.07	47.16	56.13
2025	59.77	54.15	46.37	34.16	19.25	21.09	52.57	67.43	58.41	41.14	46.00	51.73
2026	54.86	53.20	40.12	29.15	17.46	22.18	42.00	56.79	49.60	43.13	46.61	46.62
2027	50.70	51.01	33.72	23.75	17.82	22.49	44.39	57.80	52.76	43.15	48.77	50.24
2028	53.00	49.39	34.61	24.51	18.36	23.99	45.93	59.42	53.72	47.10	52.35	52.39
2029	52.83	55.92	34.85	25.07	19.09	22.90	45.23	57.22	52.83	46.33	51.27	53.31
2030	52.98	53.25	33.40	23.66	17.73	19.70	49.08	57.12	50.27	44.56	50.38	52.88
2031	56.07	55.39	34.94	23.35	19.33	20.91	46.05	58.35	52.42	44.92	55.09	57.29
2032	54.74	53.61	35.69	23.58	19.11	19.86	48.19	61.36	56.65	46.26	53.16	56.64
2033	56.57	56.48	36.18	22.11	17.45	17.24	45.87	59.37	56.43	42.77	56.56	58.13
2034	60.79	58.88	36.72	20.77	20.82	19.13	48.33	61.38	61.74	45.70	58.57	59.17
2035	62.55	57.24	37.39	21.88	20.82	17.40	54.14	63.76	61.00	41.52	58.16	61.78
2036	58.63	51.57	36.94	18.83	21.71	18.12	51.01	56.46	59.83	39.21	56.88	61.26
2037	53.34	53.81	36.73	19.70	20.56	17.08	53.97	55.83	60.45	39.51	54.96	64.28
2038	58.01	55.13	37.71	19.46	20.53	18.99	59.16	57.45	64.86	42.26	59.74	68.09
2039	57.16	52.85	37.59	16.90	19.27	17.09	54.21	51.59	59.19	39.63	57.01	65.62
2040	51.39	50.68	33.71	16.43	15.54	14.11	46.70	44.45	51.00	38.47	51.79	61.61
2041	51.97	49.67	33.73	16.30	15.27	14.33	47.62	41.60	50.58	35.65	52.11	61.91

Combine	d											
2022						40.70	77.15	126.18	91.37	62.26	61.71	81.95
2023	81.01	71.09	45.89	29.50	25.95	32.64	86.97	99.77	83.76	51.57	55.32	66.62
2024	64.69	57.92	47.81	30.10	27.68	26.71	88.64	106.20	83.86	46.91	51.16	63.45
2025	62.61	54.89	46.25	33.88	21.53	24.86	64.73	78.84	65.41	43.59	48.29	54.88
2026	53.74	52.08	39.16	29.66	15.12	22.32	41.53	55.84	46.88	42.31	47.02	46.47
2027	50.79	50.93	32.00	24.22	15.04	22.66	44.48	57.31	49.43	43.14	48.32	50.16
2028	52.03	49.47	32.68	24.89	15.67	24.17	46.22	58.91	49.89	46.44	52.24	52.70
2029	52.58	55.97	32.39	25.45	15.88	22.91	44.81	56.52	50.36	46.17	52.50	53.46
2030	52.46	53.48	31.42	24.26	14.24	19.80	48.04	57.05	47.64	44.26	50.80	52.81
2031	55.07	55.55	31.95	23.80	15.47	21.01	46.84	58.03	51.14	45.12	55.64	57.68
2032	54.86	53.90	33.18	24.01	15.24	19.73	48.85	60.92	53.30	46.33	54.84	57.15
2033	55.85	56.67	32.39	22.34	13.57	17.01	44.11	58.69	50.21	43.60	55.45	58.55
2034	60.36	59.07	32.54	20.98	15.56	18.98	45.55	60.31	53.08	45.87	58.30	59.68
2035	60.58	57.50	32.26	22.05	15.06	17.27	48.76	62.47	51.93	42.68	56.97	62.35
2036	56.73	51.92	31.50	18.79	15.84	18.01	45.73	56.10	51.17	40.49	56.67	61.75
2037	53.86	53.94	31.67	19.72	15.06	17.04	47.55	56.19	51.39	39.66	55.10	64.90
2038	58.78	55.29	32.68	19.50	15.21	18.98	50.11	57.69	53.40	42.02	57.72	68.62
2039	56.55	52.89	31.44	16.89	14.52	16.95	45.86	51.71	47.56	39.57	56.00	65.98
2040	51.39	50.65	28.18	16.35	11.75	13.81	39.31	44.09	41.19	37.92	51.58	62.02
2041	51.22	49.88	28.44	16.23	11.72	14.04	37.37	41.23	40.46	35.20	49.36	62.35

Annual	Average		-
	On-Peak	Off-Peak	Combined
2022	\$91.40	\$58.68	\$77.33
2023	\$70.25	\$48.36	\$60.84
2024	\$65.06	\$48.48	\$57.93
2025	\$52.98	\$46.01	\$49.98
2026	\$40.41	\$41.81	\$41.01
2027	\$40.20	\$41.38	\$40.71
2028	\$41.51	\$42.90	\$42.11
2029	\$41.92	\$43.07	\$42.42
2030	\$40.81	\$42.09	\$41.36
2031	\$42.68	\$43.68	\$43.11
2032	\$43.11	\$44.07	\$43.52
2033	\$41.32	\$43.76	\$42.37
2034	\$42.82	\$46.00	\$44.19
2035	\$42.41	\$46.47	\$44.16
2036	\$40.44	\$44.20	\$42.06
2037	\$40.66	\$44.19	\$42.17
2038	\$42.20	\$46.78	\$44.17
2039	\$39.30	\$44.01	\$41.33
2040	\$35.61	\$39.66	\$37.35
2041	\$34.37	\$39.23	\$36.46

Source 2022-2040: Offical Market Price Forecast dated March 2022

Blended Market Prices: weights are based on system balancing purchases and sales

from GRID run using March 2022 Official Forward Price Curve

Table 3
Capitalized Energy Costs

	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	\$120.96	\$97.39	\$23.57	\$3.76
2027	\$123.56	\$99.49	\$24.07	\$3.84
2028	\$126.21	\$101.63	\$24.58	\$3.92
2029	\$128.91	\$103.82	\$25.09	\$4.01
2030	\$131.66	\$106.06	\$25.60	\$4.09
2031	\$134.54	\$108.35	\$26.19	\$4.18
2032	\$137.46	\$110.69	\$26.77	\$4.27
2033	\$140.43	\$113.08	\$27.35	\$4.37
2034	\$143.47	\$115.52	\$27.95	\$4.46
2035	\$146.56	\$118.01	\$28.55	\$4.56
2036	\$149.71	\$120.55	\$29.16	\$4.66
2037	\$152.93	\$123.15	\$29.78	\$4.75
2038	\$156.21	\$125.80	\$30.41	\$4.86
2039	\$159.55	\$128.51	\$31.04	\$4.96
2040	\$162.96	\$131.28	\$31.68	\$5.06
2041	\$166.50	\$134.11	\$32.39	\$5.17
2042	\$170.11	\$137.00	\$33.11	\$5.29

- (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

Table 4
Total Standard Avoided Energy Cost

	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	\$3.80	\$23.98	\$3.76	\$27.74
2027	\$3.84	\$24.23	\$3.84	\$28.07
2028	\$3.94	\$24.86	\$3.92	\$28.79
2029	\$4.01	\$25.30	\$4.01	\$29.31
2030	\$3.98	\$25.11	\$4.09	\$29.20
2031	\$4.14	\$26.12	\$4.18	\$30.30
2032	\$4.25	\$26.82	\$4.27	\$31.09
2033	\$4.43	\$27.95	\$4.37	\$32.32
2034	\$4.62	\$29.15	\$4.46	\$33.61
2035	\$4.71	\$29.72	\$4.56	\$34.28
2036	\$4.88	\$30.79	\$4.66	\$35.45
2037	\$5.14	\$32.43	\$4.75	\$37.19
2038	\$5.47	\$34.52	\$4.86	\$39.37
2039	\$5.81	\$36.66	\$4.96	\$41.62
2040	\$6.14	\$38.74	\$5.06	\$43.80
2041	\$6.27	\$39.58	\$5.17	\$44.75
2042	\$6.41	\$40.43	\$5.29	\$45.72

- (a) Table 10
- (b) 6.310 MWh/MMBtu Heat Rate Table 9. Page 3 of 3
- (c) Table 3 Column (d)

Table 5
Total Standard Avoided Cost

	Avoided Firm	Total		Total Standard Avoided C	Costs
Year	Capacity	Standard Avoided		At Stated Capacity Fact	or
	Costs	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	\$27.74	\$42.56	\$40.82	\$40.09
2027	\$99.49	\$28.07	\$43.22	\$41.43	\$40.69
2028	\$101.63	\$28.79	\$44.25	\$42.43	\$41.68
2029	\$103.82	\$29.31	\$45.11	\$43.25	\$42.48
2030	\$106.06	\$29.20	\$45.34	\$43.44	\$42.65
2031	\$108.35	\$30.30	\$46.80	\$44.86	\$44.05
2032	\$110.69	\$31.09	\$47.94	\$45.96	\$45.13
2033	\$113.08	\$32.32	\$49.53	\$47.51	\$46.66
2034	\$115.52	\$33.61	\$51.20	\$49.13	\$48.27
2035	\$118.01	\$34.28	\$52.24	\$50.13	\$49.25
2036	\$120.55	\$35.45	\$53.80	\$51.64	\$50.74
2037	\$123.15	\$37.19	\$55.93	\$53.73	\$52.81
2038	\$125.80	\$39.37	\$58.52	\$56.27	\$55.33
2039	\$128.51	\$41.62	\$61.18	\$58.88	\$57.92
2040	\$131.28	\$43.80	\$63.78	\$61.43	\$60.45
2041	\$134.11	\$44.75	\$65.16	\$62.76	\$61.76
2042	\$137.00	\$45.72	\$66.57	\$64.12	\$63.09

- (a) Table 3 Column (a) minus Column (c)
- (b) Table 4 Column (d)

Table 6
On- & 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	\$27.74	\$47.58	\$27.74
2027	\$99.49	\$20.26	\$28.07	\$48.34	\$28.07
2028	\$101.63	\$20.70	\$28.79	\$49.49	\$28.79
2029	\$103.82	\$21.15	\$29.31	\$50.45	\$29.31
2030	\$106.06	\$21.60	\$29.20	\$50.80	\$29.20
2031	\$108.35	\$22.07	\$30.30	\$52.37	\$30.30
2032	\$110.69	\$22.54	\$31.09	\$53.64	\$31.09
2033	\$113.08	\$23.03	\$32.32	\$55.35	\$32.32
2034	\$115.52	\$23.53	\$33.61	\$57.14	\$33.61
2035	\$118.01	\$24.04	\$34.28	\$58.31	\$34.28
2036	\$120.55	\$24.55	\$35.45	\$60.00	\$35.45
2037	\$123.15	\$25.08	\$37.19	\$62.27	\$37.19
2038	\$125.80	\$25.62	\$39.37	\$64.99	\$39.37
2039	\$128.51	\$26.17	\$41.62	\$67.79	\$41.62
2040	\$131.28	\$26.74	\$43.80	\$70.54	\$43.80
2041	\$134.11	\$27.31	\$44.75	\$72.06	\$44.75
2042	\$137.00	\$27.90	\$45.72	\$73.62	\$45.72

- (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

	Combined	Simple		Capitalized		Avoided Firm
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%)		
2022	\$111.07	\$89.43	\$21.64	\$3.45	2022	\$89.43
2023	\$113.47	\$91.36	\$22.11	\$3.53	2023	\$91.36
2024	\$115.92	\$93.32	\$22.60	\$3.61	2024	\$93.32
2025	\$118.41	\$95.33	\$23.08	\$3.68	2025	\$95.33
2026	\$120.96	\$97.39	\$23.57	\$3.76	2026	\$97.39
2027	\$123.56	\$99.49	\$24.07	\$3.84	2027	\$99.49
2028	\$126.21	\$101.63	\$24.58	\$3.92	2028	\$101.63
2029	\$128.91	\$103.82	\$25.09	\$4.01	2029	\$103.82
2030	\$131.66	\$106.06	\$25.60	\$4.09	2030	\$106.06
2031	\$134.54	\$108.35	\$26.19	\$4.18	2031	\$108.35
2032	\$137.46	\$110.69	\$26.77	\$4.27	2032	\$110.69
2033	\$140.43	\$113.08	\$27.35	\$4.37	2033	\$113.08
2034	\$143.47	\$115.52	\$27.95	\$4.46	2034	\$115.52
2035	\$146.56	\$118.01	\$28.55	\$4.56	2035	\$118.01
2036	\$149.71	\$120.55	\$29.16	\$4.66	2036	\$120.55
2037	\$152.93	\$123.15	\$29.78	\$4.75	2037	\$123.15
2038	\$156.21	\$125.80	\$30.41	\$4.86	2038	\$125.80
2039	\$159.55	\$128.51	\$31.04	\$4.96	2039	\$128.51
2040	\$162.96	\$131.28	\$31.68	\$5.06	2040	\$131.28
2041	\$166.50	\$134.11	\$32.39	\$5.17	2041	\$134.11
2042	\$170.11	\$137.00	\$33.11	\$5.29	2042	\$137.00

- (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 7.1
Comparison between Proposed and Current Standard Fixed Avoided Costs \$/MWh

	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference
Year	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Base Load	Base Load										
	QF	QF	Base Load QF	Base Load QF	Base Load QF	Base Load QF	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)
	-		•									
2022	\$77.02	\$77.02	\$43.39	\$0.00	\$33.63	\$33.63	\$76.55	\$76.81	\$43.15	(\$0.26)	\$33.66	\$33.41
2023	\$60.63	\$60.63	\$39.77	\$0.00	\$20.86	\$20.86	\$58.15	\$60.38	\$39.50	(\$2.23)	\$20.88	\$18.65
2024	\$57.77	\$57.77	\$36.64	\$0.00	\$21.14	\$21.14	\$55.65	\$57.45	\$36.31	(\$1.80)	\$21.15	\$19.34
2025	\$49.92	\$49.92	\$31.57	\$0.00	\$18.35	\$18.35	\$47.16	\$49.32	\$30.97	(\$2.16)	\$18.35	\$16.18
2026	\$38.86	\$50.64	\$47.45	(\$11.78)	\$3.19	(\$8.59)	\$37.21	\$55.58	\$52.39	(\$18.37)	\$3.19	(\$15.18)
2027	\$39.43	\$51.48	\$49.10	(\$12.05)	\$2.38	(\$9.67)	\$37.41	\$56.31	\$53.93	(\$18.90)	\$2.38	(\$16.52)
2028	\$40.39	\$52.74	\$51.18	(\$12.36)	\$1.56	(\$10.79)	\$38.24	\$57.46	\$55.90	(\$19.22)	\$1.56	(\$17.66)
2029	\$41.16	\$53.81	\$54.02	(\$12.65)	(\$0.20)	(\$12.86)	\$40.68	\$58.30	\$58.50	(\$17.62)	(\$0.20)	(\$17.82)
2030	\$41.31	\$54.21	\$55.64	(\$12.91)	(\$1.43)	(\$14.33)	\$41.00	\$58.51	\$59.94	(\$17.51)	(\$1.43)	(\$18.93)
2031	\$42.67	\$55.92	\$57.21	(\$13.25)	(\$1.29)	(\$14.54)	\$43.55	\$60.33	\$61.62	(\$16.78)	(\$1.29)	(\$18.07)
2032	\$43.73	\$57.30	\$58.18	(\$13.57)	(\$0.88)	(\$14.45)	\$44.47	\$61.74	\$62.62	(\$17.26)	(\$0.88)	(\$18.15)
2033	\$45.23	\$59.17	\$60.18	(\$13.94)	(\$1.02)	(\$14.96)	\$46.49	\$63.69	\$64.71	(\$17.21)	(\$1.02)	(\$18.23)
2034	\$46.80	\$61.11	\$61.05	(\$14.31)	\$0.07	(\$14.24)	\$48.14	\$65.83	\$65.76	(\$17.69)	\$0.07	(\$17.62)
2035	\$47.75	\$62.40	\$61.86	(\$14.66)	\$0.54	(\$14.11)	\$49.07	\$67.30	\$66.75	(\$18.22)	\$0.54	(\$17.68)
2036	\$49.21	\$64.26	\$63.03	(\$15.05)	\$1.22	(\$13.82)	\$50.59	\$69.44	\$68.22	(\$18.85)	\$1.22	(\$17.63)
2037	\$51.25	\$66.73	\$64.63	(\$15.49)	\$2.10	(\$13.38)	\$52.77	\$72.03	\$69.92	(\$19.26)	\$2.10	(\$17.15)
2038	\$53.73	\$69.70	\$66.03	(\$15.97)	\$3.67	(\$12.30)	\$55.29	\$75.11	\$71.44	(\$19.82)	\$3.67	(\$16.15)
2039	\$56.29	\$72.75	\$68.54	(\$16.46)	\$4.21	(\$12.25)	\$57.88	\$78.28	\$74.07	(\$20.40)	\$4.21	(\$16.19)
2040	\$58.79	\$75.74	\$70.92	(\$16.95)	\$4.82	(\$12.13)	\$60.31	\$81.40	\$76.58	(\$21.09)	\$4.82	(\$16.27)
15 Year Nomii	nal Levelized P	rice (\$/MWh)	at 6.880% Discou	ant Rate (1)								
2022 - 2036	\$49.82	\$58.08	\$48.90	(\$8.26)	\$9.18	\$0.92	\$48.97	\$60.89	\$51.71	(\$11.93)	\$9.18	(\$2.75)
2023 - 2037	\$46.91	\$56.36	\$50.13	(\$9.45)	\$6.23	(\$3.22)	\$46.11	\$59.61	\$53.38	(\$13.49)	\$6.23	(\$7.26)

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

 $[\]label{eq:continuous} \begin{tabular}{ll} (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) . \end{tabular}$

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

Table 7.2 Comparison between Proposed and Current Standard Fixed Avoided Costs \$/MWh

	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference
Year	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
	Fixed Solar	Fixed Solar	Fixed Solar QF	Fixed Solar QF	Fixed Solar QF	Fixed Solar QF	Tracking Solar	Tracking Solar	Tracking Solar	Tracking Solar	Tracking Solar	Tracking Solar
	QF (2)	QF (2)	(2)	(2)	(2)	(2)	QF (2)	QF (2)	QF (2)	QF (2)	QF (2)	QF (2)
2022	\$85.97	\$85.97	\$48.03	\$0.00	\$37.94	\$37.94	\$85.36	\$85.36	\$47.71	\$0.00	\$37.65	\$37.65
2023	\$60.69	\$66.52	\$43.13	(\$5.83)	\$23.40	\$17.57	\$60.29	\$66.12	\$42.89	(\$5.83)	\$23.23	\$17.40
2024	\$60.50	\$62.13	\$39.42	(\$1.63)	\$22.71	\$21.08	\$60.19	\$61.82	\$39.21	(\$1.63)	\$22.61	\$20.98
2025	\$50.65	\$51.37	\$33.11	(\$0.72)	\$18.26	\$17.54	\$50.52	\$51.24	\$32.97	(\$0.72)	\$18.27	\$17.55
2026	\$31.90	\$43.91	\$40.72	(\$12.01)	\$3.19	(\$8.82)	\$32.20	\$44.62	\$41.43	(\$12.41)	\$3.19	(\$9.22)
2027	\$30.89	\$44.42	\$42.04	(\$13.53)	\$2.38	(\$11.16)	\$31.19	\$45.14	\$42.76	(\$13.95)	\$2.38	(\$11.57)
2028	\$31.76	\$45.33	\$43.77	(\$13.58)	\$1.56	(\$12.01)	\$32.07	\$46.07	\$44.51	(\$14.00)	\$1.56	(\$12.44)
2029	\$34.32	\$45.96	\$46.17	(\$11.64)	(\$0.20)	(\$11.85)	\$34.64	\$46.71	\$46.92	(\$12.07)	(\$0.20)	(\$12.28)
2030	\$34.18	\$45.95	\$47.37	(\$11.76)	(\$1.43)	(\$13.19)	\$34.51	\$46.72	\$48.14	(\$12.21)	(\$1.43)	(\$13.63)
2031	\$35.75	\$47.49	\$48.78	(\$11.74)	(\$1.29)	(\$13.03)	\$36.08	\$48.27	\$49.56	(\$12.19)	(\$1.29)	(\$13.48)
2032	\$36.59	\$48.60	\$49.49	(\$12.01)	(\$0.88)	(\$12.89)	\$36.93	\$49.41	\$50.29	(\$12.47)	(\$0.88)	(\$13.36)
2033	\$38.10	\$50.27	\$51.29	(\$12.18)	(\$1.02)	(\$13.20)	\$38.44	\$51.10	\$52.11	(\$12.65)	(\$1.02)	(\$13.67)
2034	\$39.52	\$52.08	\$52.01	(\$12.56)	\$0.07	(\$12.50)	\$39.87	\$52.92	\$52.86	(\$13.05)	\$0.07	(\$12.98)
2035	\$40.30	\$53.22	\$52.68	(\$12.92)	\$0.54	(\$12.38)	\$40.66	\$54.08	\$53.54	(\$13.42)	\$0.54	(\$12.88)
2036	\$41.61	\$55.01	\$53.79	(\$13.40)	\$1.22	(\$12.18)	\$41.98	\$55.89	\$54.67	(\$13.91)	\$1.22	(\$12.69)
2037	\$43.56	\$57.28	\$55.17	(\$13.72)	\$2.10	(\$11.62)	\$43.94	\$58.18	\$56.07	(\$14.24)	\$2.10	(\$12.14)
2038	\$45.88	\$60.03	\$56.36	(\$14.15)	\$3.67	(\$10.48)	\$46.27	\$60.95	\$57.28	(\$14.68)	\$3.67	(\$11.01)
2039	\$48.27	\$62.86	\$58.65	(\$14.59)	\$4.21	(\$10.38)	\$48.66	\$63.80	\$59.59	(\$15.14)	\$4.21	(\$10.93)
2040	\$50.29	\$65.63	\$60.81	(\$15.33)	\$4.82	(\$10.51)	\$50.70	\$66.59	\$61.77	(\$15.89)	\$4.82	(\$11.07)
5 Year Nomi	n											
2022 - 2036	\$46.35	\$54.97	\$44.98	(\$8.62)	\$9.99	\$1.37	\$46.42	\$55.32	\$45.39	(\$8.90)	\$9.94	\$1.03
2023 - 2037	\$41.92	\$51.69	\$45.06	(\$9.77)	\$6.63	(\$3.14)	\$42.08	\$52.16	\$45.56	(\$10.09)	\$6.60	(\$3.49)

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

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

⁽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) .

Table 8.1 Comparison between Proposed and Current Renewable Standard Fixed Avoided Costs \$\text{S/MWh}\$

		Proposed	S1_OFPC	Eff. 11/03/21	Difference	Difference	Difference	Proposed	S1_OFPC	Eff. 11/03/21	Difference	Difference	Difference
					2021 IRP	OFPC					2021 IRP	OFPC	
		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
		Base Load											
		QF	Base Load QF	Base Load QF	Base Load QF	Base Load QF	Base Load QF	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)	Wind QF (2)
2022	2022	\$77.02	\$77.02	\$43.39	\$0.00	\$33.63	\$33.63	\$76.55	\$76.81	\$43.15	(\$0.26)	\$33.66	\$33.41
2023	2023	\$60.63	\$60.63	\$39.77	\$0.00	\$20.86	\$20.86	\$58.15	\$60.38	\$39.50	(\$2.23)	\$20.88	\$18.65
2024	2024	\$57.77	\$30.77	\$30.77	\$27.01	(\$0.00)	\$27.00	\$55.65	\$32.90	\$32.90	\$22.75	(\$0.00)	\$22.74
2025	2025	\$49.92	\$31.73	\$31.72	\$18.19	\$0.00	\$18.19	\$47.16	\$33.65	\$33.65	\$13.50	\$0.00	\$13.51
2026	2026	\$51.20	\$32.27	\$32.28	\$18.93	(\$0.02)	\$18.91	\$41.78	\$34.41	\$34.43	\$7.37	(\$0.02)	\$7.35
2027	2027	\$52.64	\$33.24	\$33.26	\$19.41	(\$0.02)	\$19.39	\$42.68	\$35.19	\$35.22	\$7.49	(\$0.03)	\$7.46
2028	2028	\$53.88	\$34.22	\$34.24	\$19.65	(\$0.02)	\$19.64	\$43.61	\$36.00	\$36.02	\$7.62	(\$0.03)	\$7.59
2029	2029	\$53.31	\$35.33	\$35.34	\$17.98	(\$0.00)	\$17.97	\$44.54	\$36.81	\$36.82	\$7.73	(\$0.01)	\$7.72
2030	2030	\$54.26	\$36.42	\$36.44	\$17.84	(\$0.02)	\$17.82	\$45.49	\$37.64	\$37.67	\$7.85	(\$0.03)	\$7.82
2031	2031	\$54.25	\$37.24	\$37.26	\$17.01	(\$0.02)	\$16.99	\$46.49	\$38.50	\$38.54	\$7.98	(\$0.03)	\$7.95
2032	2032	\$55.56	\$38.17	\$38.18	\$17.40	(\$0.02)	\$17.38	\$47.48	\$39.39	\$39.41	\$8.09	(\$0.03)	\$8.07
2033	2033	\$56.26	\$39.05	\$39.07	\$17.22	(\$0.02)	\$17.19	\$48.51	\$40.28	\$40.32	\$8.23	(\$0.04)	\$8.19
2034	2034	\$57.44	\$39.86	\$39.89	\$17.58	(\$0.03)	\$17.55	\$49.57	\$41.20	\$41.25	\$8.37	(\$0.04)	\$8.33
2035	2035	\$58.68	\$40.67	\$40.71	\$18.01	(\$0.04)	\$17.97	\$50.60	\$42.11	\$42.17	\$8.49	(\$0.06)	\$8.43
2036	2036	\$59.94	\$41.44	\$41.47	\$18.50	(\$0.02)	\$18.47	\$51.72	\$43.10	\$43.14	\$8.62	(\$0.04)	\$8.58
2037	2037	\$61.09	\$42.37	\$42.40	\$18.72	(\$0.03)	\$18.69	\$52.82	\$44.06	\$44.11	\$8.75	(\$0.05)	\$8.71
2038	2038	\$62.42	\$43.35	\$43.38	\$19.08	(\$0.03)	\$19.05	\$53.98	\$45.07	\$45.12	\$8.91	(\$0.05)	\$8.86
2039	2039	\$63.74	\$44.32	\$44.37	\$19.42	(\$0.05)	\$19.36	\$55.11	\$46.08	\$46.16	\$9.03	(\$0.08)	\$8.95
2040	2040	\$65.21	\$45.33	\$45.44	\$19.88	(\$0.11)	\$19.77	\$56.28	\$47.13	\$47.26	\$9.15	(\$0.13)	\$9.02
15 Year Nomin	15 Vear Nomi	nal Levelized I	Price (\$/MWh) at	6 880% Discount	Rate (1)								
15 I car I tollilli	.5 1 cm 140III	Levenzeu i	(ψ.111 1111) at	o.ooo/o Discount	(1)								
2022 - 2036	\$/MWh	\$57.42	\$42.00	\$36.60	\$15.42	\$5.41	\$20.83	\$51.19	\$43.29	\$37.89	\$7.90	\$5.40	\$13.30
2023 - 2037	\$/MWh	\$55.44	\$38.20	\$36.09	\$17.23	\$2.11	\$19.35	\$48.49	\$39.67	\$37.57	\$8.82	\$2.10	\$10.93

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

 $[\]label{eq:continuous} \begin{tabular}{ll} (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) . \end{tabular}$

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

Table 8.2 Comparison between Proposed and Current Renewable Standard Fixed Avoided Costs \$/MWh

	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference	Proposed	S1_OFPC	Eff. 11/03/21	Difference 2021 IRP	Difference OFPC	Difference
	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable	Renewable
Year	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
i ear												
	Fixed Solar		-	_	-	Fixed Solar QF	_			Tracking Solar		
	QF (2)	(2)	(2)	(2)	(2)	(2)	QF (2)	QF (2)	QF (2)	QF (2)	QF (2)	QF (2)
2022	\$85.97	\$85.97	\$48.03	\$0.00	\$37.94	\$37.94	\$85.36	\$85.36	\$47.71	\$0.00	\$37.65	\$37.65
2022	\$60.69	\$85.97 \$66.52	\$48.03 \$43.13	(\$5.83)	\$37.94 \$23.40	\$37.94 \$17.57	\$85.36 \$60.29	\$85.36 \$66.12	\$47.71 \$42.89	(\$5.83)	\$23.23	\$37.65 \$17.40
2023	1		\$43.13 \$21.37	\$39.17		\$17.57 \$39.12	\$60.29 \$60.19	\$00.12 \$22.84		\$37.35		\$17.40
2024	\$60.50 \$50.65	\$21.33 \$21.09	\$21.57 \$21.58	\$39.17 \$29.56	(\$0.05) (\$0.48)	\$39.12 \$29.08	\$50.19 \$50.52	\$22.84 \$22.70	\$22.89 \$23.15	\$37.33 \$27.83	(\$0.04) (\$0.45)	\$37.30 \$27.38
	\$30.65	\$20.59	\$21.38	\$9.91	(\$1.38)	\$8.53	\$30.32	\$22.70	\$23.13	\$11.28	(\$1.29)	\$9.98
2026 2027	\$30.30	\$20.59 \$21.01	\$21.97 \$22.66	\$9.91	(\$1.58)	\$8.53 \$7.22	\$33.02	\$22.29 \$22.76	\$23.38 \$24.29	\$11.28 \$10.26	(\$1.29)	\$9.98 \$8.73
2027	\$30.63	\$21.01	\$22.95	\$9.15	(\$1.65)	\$7.22 \$7.68	\$33.85	\$23.28	\$24.29 \$24.65	\$10.26	(\$1.34)	\$9.21
2028	\$30.63	\$21.49 \$22.07	\$22.95 \$23.56		N	\$7.08 \$8.04	\$33.83	\$23.28 \$23.89	\$24.65 \$25.29	\$10.58 \$10.98		\$9.21 \$9.59
				\$9.53	(\$1.49)						(\$1.39)	
2030	\$31.76	\$22.52	\$24.14	\$9.24	(\$1.62)	\$7.62	\$35.13	\$24.40	\$25.91	\$10.73	(\$1.51)	\$9.22
2031	\$31.62	\$23.04	\$24.99	\$8.58	(\$1.95)	\$6.63	\$35.06	\$24.96	\$26.78	\$10.10	(\$1.82)	\$8.28
2032	\$32.36	\$23.56	\$25.58	\$8.80	(\$2.01)	\$6.79	\$35.88	\$25.53	\$27.41	\$10.35	(\$1.88)	\$8.47
2033	\$32.38	\$23.93	\$26.18	\$8.45	(\$2.25)	\$6.20	\$35.99	\$25.95	\$28.05	\$10.04	(\$2.10)	\$7.94
2034	\$32.90	\$24.38	\$26.68	\$8.51	(\$2.29)	\$6.22	\$36.60	\$26.46	\$28.60	\$10.14	(\$2.14)	\$8.00
2035	\$33.29	\$24.73	\$27.55	\$8.56	(\$2.82)	\$5.74	\$37.09	\$26.86	\$29.49	\$10.23	(\$2.64)	\$7.60
2036	\$33.92	\$25.24	\$28.18	\$8.68	(\$2.94)	\$5.73	\$37.81	\$27.42	\$30.17	\$10.39	(\$2.75)	\$7.64
2037	\$34.56	\$25.79	\$28.64	\$8.77	(\$2.85)	\$5.91	\$38.53	\$28.02	\$30.68	\$10.51	(\$2.67)	\$7.85
2038	\$35.04	\$26.23	\$29.43	\$8.81	(\$3.19)	\$5.62	\$39.12	\$28.53	\$31.51	\$10.60	(\$2.98)	\$7.62
2039	\$35.69	\$26.78	\$30.15	\$8.92	(\$3.37)	\$5.55	\$39.87	\$29.13	\$32.27	\$10.74	(\$3.15)	\$7.59
2040	\$36.50	\$27.51	\$30.98	\$8.98	(\$3.46)	\$5.52	\$40.74	\$29.91	\$33.15	\$10.84	(\$3.24)	\$7.60
15 Year Nomi	n											
2022 - 2036	\$44.12	\$33.04	\$28.18	\$11.08	\$4.86	\$15.95	\$46.13	\$34.41	\$29.51	\$11.72	\$4.90	\$16.62
2023 - 2037	\$39.18	\$26.98	\$26.03	\$12.20	\$0.95	\$13.15	\$41.55	\$28.60	\$27.57	\$12.95	\$1.03	\$13.98

⁽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 located 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 charges

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Year	Estimated Capital Cost \$/kW (a)	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
22 / IVI V	<u>v - SCC1 1</u>	Frame "F" x1	- (1,500°)			
2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033	\$738	\$52.00 \$53.12 \$54.26 \$55.43 \$56.62 \$57.84 \$59.09 \$60.36 \$61.66 \$62.99 \$64.35 \$65.74 \$67.16	\$33.71 \$34.43 \$35.17 \$35.93 \$36.70 \$37.49 \$38.30 \$39.97 \$40.83 \$41.71 \$42.61 \$43.53	\$16.92 \$17.29 \$17.66 \$18.04 \$18.43 \$19.24 \$19.65 \$20.07 \$20.50 \$20.94 \$21.39 \$21.85 \$22.32	\$33.71 \$34.43 \$35.17 \$35.93 \$36.70 \$37.49 \$38.30 \$39.13 \$39.97 \$40.83 \$41.71 \$42.61 \$43.53	\$85.71 \$87.55 \$89.43 \$91.36 \$93.32 \$95.33 \$97.39 \$99.49 \$101.63 \$103.82 \$106.06 \$108.35 \$110.69 \$113.08
2034 2035 2036 2037 2038 2039 2040 2041 2042		\$70.09 \$71.60 \$73.14 \$74.72 \$76.33 \$77.97 \$79.65 \$81.37 \$83.12	\$45.43 \$46.41 \$47.41 \$48.43 \$49.47 \$50.54 \$51.63 \$52.74 \$53.88	\$22.80 \$23.29 \$23.79 \$24.30 \$24.82 \$25.35 \$25.90 \$26.46 \$27.03	\$45.43 \$46.41 \$47.41 \$48.43 \$49.47 \$50.54 \$51.63 \$52.74 \$53.88	\$115.52 \$118.01 \$120.55 \$123.15 \$125.80 \$128.51 \$131.28 \$134.11 \$137.00

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

- (b) (e)
- = (a) x 7.049% = (d) x $(8.76 \times \%) + (c)$
- (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	Inflation: 2021 IRP	

Table 9
Total Cost of Displaceable Resources

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Year	Estimated Capital Cost \$/kW	Fixed Capital Cost at Real Levelized Rate \$/kW-yr	Fixed O&M \$/kW-yr	Variable O&M S/MWh	Total O&M at Expected CF S/kW-yr	Total Resource Fixed Costs \$/kW-yr	Fuel Cost	IRP Resource Energy Cost \$/MWh	Total Avoided Costs \$/MWh
	(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)
645 MV	V - CCCT	Dry "J", 1x1 -	West Side	Resource (1.	,500')				
					<u></u>				
2020	\$1,054	\$72.58	\$23.17	\$1.70	\$33.82	\$106.40			
2021		\$74.14	\$23.67	\$1.74	\$34.57	\$108.71			
2022		\$75.74	\$24.18	\$1.78	\$35.33	\$111.07			
2023		\$77.37	\$24.70	\$1.82	\$36.10	\$113.47			
2024		\$79.04	\$25.23	\$1.86	\$36.88	\$115.92			
2025		\$80.74	\$25.77	\$1.90	\$37.67	\$118.41			
2026		\$82.48	\$26.33	\$1.94	\$38.48	\$120.96	\$3.80	\$23.98	\$43.29
2027		\$84.26	\$26.90	\$1.98	\$39.30	\$123.56	\$3.84	\$24.23	\$43.96
2028		\$86.08	\$27.48	\$2.02	\$40.13	\$126.21	\$3.94	\$24.86	\$45.01
2029		\$87.94	\$28.07	\$2.06	\$40.97	\$128.91	\$4.01	\$25.30	\$45.88
2030		\$89.84	\$28.67	\$2.10	\$41.82	\$131.66	\$3.98	\$25.11	\$46.13
2031		\$91.78	\$29.29	\$2.15	\$42.76	\$134.54	\$4.14	\$26.12	\$47.60
2032		\$93.76	\$29.92	\$2.20	\$43.70	\$137.46	\$4.25	\$26.82	\$48.77
2033		\$95.78	\$30.56	\$2.25	\$44.65	\$140.43	\$4.43	\$27.95	\$50.37
2034		\$97.84	\$31.22	\$2.30	\$45.63	\$143.47	\$4.62	\$29.15	\$52.06
2035		\$99.95	\$31.89	\$2.35	\$46.61	\$146.56	\$4.71	\$29.72	\$53.12
2036		\$102.10	\$32.58	\$2.40	\$47.61	\$149.71	\$4.88	\$30.79	\$54.69
2037		\$104.30	\$33.28	\$2.45	\$48.63	\$152.93	\$5.14	\$32.43	\$56.85
2038		\$106.55	\$34.00	\$2.50	\$49.66	\$156.21	\$5.47	\$34.52	\$59.46
2039		\$108.85	\$34.73	\$2.55	\$50.70	\$159.55	\$5.81	\$36.66	\$62.13
2040		\$111.20	\$35.48	\$2.60	\$51.76	\$162.96	\$6.14	\$38.74	\$64.76
2041		\$113.60	\$36.24	\$2.66	\$52.90	\$166.50	\$6.27	\$39.58	\$66.16
2042		\$116.05	\$37.02	\$2.72	\$54.06	\$170.11	\$6.41	\$40.43	\$67.59

Table 9 Total Cost of Displaceable Resources

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Sources, Inputs and Assumptions

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

- (b) = (a) $\times 6.886\%$
- (e) = (d) $\times (8.76 \times 71.5\%) + (c)$
- (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	\$23.17
CCCT Duct Firing (Dry "J" 1x1)	63	9.8%	\$ 397	\$23.17
Capacity Weighted	645	100.0%	\$1,054	\$23.17

CCCT Statistics	MW	CF	aMW	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%	\$0.06	8,816
Energy Weighted	645	71.5%	461	100.0%	\$1.70	6,310

Rounded

Source: Plant Costs - 2021 IRP - Table 7.1 & 7.2. 2020\$

\$0.00 \$0.00 Fixed O&M & Capitalized O&M

\$23.17 \$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	
Year		
	Fuel Cost	
2022	\$5.13	
2023	\$4.19	
2024	\$3.51	
2025	\$3.62	
2026	\$3.80	
2027	\$3.84	
2028	\$3.94	
2029	\$4.01	
2030	\$3.98	
2031	\$4.14	
2032	\$4.25	
2033	\$4.43	
2034	\$4.62	
2035	\$4.71	
2036	\$4.88	
2037	\$5.14	
2038	\$5.47	
2039	\$5.81	
2040	\$6.14	
2041	\$6.27	
2042	\$6.41	

Source

2022-2040: Offical Market Price Forecast dated March 2022

2041+: Escalated at Inflation

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

Table 11 Integration Cost

Year	Wind Integration Cost	Solar Integration Cost
	\$/MWh	\$/MWh
2022	\$0.27	\$0.22
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
2042 Caumaai	Ψ0.13	ψ0.50

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 \$/kW	Fixed Capital Cost at Real Levelized Rate \$/kW-yr	Fixed O&M \$/kW-yr	Fixed Costs \$/MWh	Variable O&M S/MWh	60% PTC \$/MWh	Avoided Cost (excluding Integration Cost) s/MWh	Total Resource Costs S/kW-yr	Integration Cost \$/MWh	
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2021 IRP West Wind Resource - 37% Capacity Factor

2020						(\$9.67)			
2021						(\$9.88)			
2022						(\$10.09)			
2023						(\$10.31)			
2024						(\$10.53)			
2025						(\$10.76)			
2026	\$1,485	\$103.62	\$67.89	\$52.77	\$0.00	(\$10.99)	\$41.78	\$135.79	\$2.88
2027		\$105.85	\$69.35	\$53.91	\$0.00	(\$11.23)	\$42.68	\$138.70	\$3.28
2028		\$108.13	\$70.84	\$55.07	\$0.00	(\$11.47)	\$43.60	\$141.69	\$3.44
2029		\$110.46	\$72.37	\$56.26	\$0.00	(\$11.72)	\$44.54	\$144.74	\$1.80
2030		\$112.84	\$73.93	\$57.47	\$0.00	(\$11.97)	\$45.50	\$147.87	\$1.65
2031		\$115.27	\$75.52	\$58.71	\$0.00	(\$12.23)	\$46.48	\$151.04	\$0.50
2032		\$117.75	\$77.15	\$59.97	\$0.00	(\$12.49)	\$47.48	\$154.31	\$0.66
2033		\$120.29	\$78.81	\$61.26	\$0.00	(\$12.76)	\$48.50	\$157.63	\$0.18
2034		\$122.88	\$80.51	\$62.58	\$0.00	(\$13.03)	\$49.55	\$161.04	\$0.13
2035		\$125.53	\$82.24	\$63.93	\$0.00	(\$13.31)	\$50.62	\$164.51	\$0.17
2036		\$128.24	\$84.01	\$65.31	\$0.00	(\$13.60)	\$51.71	\$168.05	\$0.15
2037		\$131.00	\$85.82	\$66.71	\$0.00	(\$13.89)	\$52.82	\$171.68	\$0.03
2038		\$133.82	\$87.67	\$68.15	\$0.00	(\$14.19)	\$53.96	\$175.37	\$0.03
2039		\$136.70	\$89.56	\$69.62	\$0.00	(\$14.50)	\$55.12	\$179.14	\$0.03
2040		\$139.65	\$91.49	\$71.12	\$0.00	(\$14.81)	\$56.31	\$183.01	\$0.14
2041		\$142.66	\$93.46	\$72.65	\$0.00	(\$15.13)	\$57.52	\$186.95	\$0.15
2042		\$145.73	\$95.47	\$74.22	\$0.00	(\$15.46)	\$58.76	\$190.96	\$0.15

Sources, Inputs and Assumptions

Source:

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

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

	202	21 IRP West V	Vind Resource - 37%	6 Capacity Factor	•	
		Wind		Cost and In	put 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-	\$/kW-yr
			17%	83%	Variable O&M	\$/MWH
2020 \$	\$	(9.67)	Tax Credit \$/MWh		\$/MWH	(60% PTC)
		41.2%			Capacity Contribution	
		6.979%			Payment Factor	
		37%			Capacity Factor	
		2.155%			Inflation: 2021 IRP	

Table 13 2021 IRP Wind Resource Adjusted to On-Peak / Off-Peak Prices

	Renewable Avoided Resource Cost	On-Peak / O	Off-Peak Factors	On-Peak Renewable Avoided Resource Cost	Off-Peak Renewable Avoided Resource 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	1.1268	0.8388	\$0.00	\$0.00
2025	\$0.00	1.0700	0.9115	\$0.00	\$0.00
2026	\$41.78	1.0027	0.9963	\$41.90	\$41.62
2027	\$42.68	0.9961	1.0051	\$42.51	\$42.90
2028	\$43.60	0.9935	1.0090	\$43.31	\$43.99
2029	\$44.54	0.9950	1.0065	\$44.31	\$44.83
2030	\$45.50	0.9887	1.0138	\$44.98	\$46.13
2031	\$46.48	0.9888	1.0143	\$45.96	\$47.14
2032	\$47.48	0.9881	1.0149	\$46.91	\$48.19
2033	\$48.50	0.9768	1.0290	\$47.38	\$49.91
2034	\$49.55	0.9725	1.0350	\$48.19	\$51.29
2035	\$50.62	0.9623	1.0463	\$48.71	\$52.96
2036	\$51.71	0.9598	1.0506	\$49.63	\$54.32
2037	\$52.82	0.9585	1.0513	\$50.63	\$55.54
2038	\$53.96	0.9509	1.0619	\$51.31	\$57.30
2039	\$55.12	0.9484	1.0638	\$52.27	\$58.64
2040	\$56.31	0.9546	1.0553	\$53.75	\$59.43
2041	\$57.52	0.9436	1.0695	\$54.28	\$61.52
2042	\$58.76	0.9504	1.0625	\$55.84	\$62.43

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 14
2021 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	ty Contributi	on (%)
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

PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2022

PACIFIC POWER AVOIDED COST CALCULATION

STANDARD RATES FOR AVOIDED COST PURCHASES FROM ELIGIBLE QUALIFYING FACILITIES

OREGON – APRIL 2022

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 Public Utility Commission of Oregon (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 including changes to the capital costs of a proxy resource in an acknowledged IRP update that is relevant to the calculation of avoided costs.¹

PacifiCorp's 2021 IRP was acknowledged without reliance on the Natrium reactor demonstration project and subject to conditions at the Commission's Special Public Meeting on March 29, 2022. Pursuant to OAR 860-029-0085(1), the Company is required to file an update to avoided cost prices within 30 days or by April 28, 2022, only a few days prior to the annual update due May 1, 2022, which is required under OAR 860-029-085(4). As a result, the Company believes that this filing satisfies the requirements for both the annual update to the avoided costs due May 1 and the update to avoided costs associated with PacifiCorp's acknowledged IRP.

The last Oregon avoided costs were approved on November 3, 2021. This filing incorporates annual to forecasted prices for updates natural gas and electricity, and the changes to sufficiency and deficiency periods and proxy resource costs based on 2021 IRP filing which was acknowledged by the Commission on March 29, 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

¹ OAR 860-029-080(7).

² This year May 1 falls on a Sunday and as a result the due date for this filing moves to the next business day, May 2, 2022.

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 megawatt (MW) Oregon QF. 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 offpeak market prices for California-Oregon Border (COB), Mid-Columbia (Mid-C), and Palo Verde for each month. **Table 2** shows the result of this calculation.

The sufficiency period for standard renewable rates is 2022-2025 and the standard renewable resource deficiency period starts in 2026. During the renewable resource sufficiency period (2022-2023), 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.³

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

³ 645 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).

capacity.⁴ 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.⁵ 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.

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 2203 OFPC. **Table 10** shows the natural gas price used in this avoided cost calculation.

⁴ SCCT Frame ("F"x1) – West Side (1,500'), as listed in Tables 7.1 and 7.2 of the 2021 IRP.

⁵ 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 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 operation and maintenance (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.⁶ 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 at the end of 2026. The proxy renewable proxy wind resource is assumed to be eligible for the 60% 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**".

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 2022-2025. 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 2022-2026. 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 2022-2025. 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

⁶ 2021 IRP Supply side Resource Options, PacifiCorp 2021 IRP, Volume I, Chapter 7, Table 7.1 and Table 7.2.

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 2022-2025, on- and off-peak renewable avoided cost rates are based on blended market rates. For 2024 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 2022-2025. 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 2022-2025, 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 QFs. On- and off-peak renewable avoided cost rates are based on blended market rates for 2022-2025. 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 QFs 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 2022	-
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 2022 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_2022 04 20.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 2022 OFPC was the most recent curve available at the time of this filing. Refer to the spreadsheet entitled "2_MFR - II.Gas Price Forecast_2022 04 14.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 2022 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_2022 04 20.xlsx".	2021 IRP, Table 7.1 and 7.2 on Page 169-183

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_2022 04 20.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_2022 04 20.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_2022 04 20.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_2022 04 20.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).	60% PTC. Refer to Table 12 of "1_OR Standard QF AC Study_2022 04 20.xlsx"	2021 IRP Supply Side Table 7.1 and 7.2
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 2, 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 Supply Side Table 7.1 and 7.2

Gas Price Forecast Comparison

	Gas Price Forecast Comparison			
	OFPC Mar 2022	OFPC June 2021		
	West Side Gas	West Side Gas	Change	% Change
2026	3.80	3.33	0.47	14%
2027	3.84	3.49	0.35	10%
2028	3.94	3.71	0.23	6%
2029	4.01	4.04	(0.03)	-1%
2030	3.98	4.19	(0.21)	-5%
2031	4.14	4.33	(0.19)	-4%
2032	4.25	4.38	(0.13)	-3%
2033	4.43	4.58	(0.15)	-3%
2034	4.62	4.61	0.01	0%
2035	4.71	4.63	0.08	2%
2036	4.88	4.70	0.18	4%
2037	5.14	4.83	0.31	6%
2038	5.47	4.93	0.54	11%
2039	5.81	5.19	0.62	12%
2040	6.14	5.43	0.71	13%