

Purpose: This spreadsheet contains supporting data for PacifiCorp's 2023 Clean Energy Plan (CEP). For accessibility and in compliance with OPUC Order 22-446, the data is provided in a standard format provided by Public Utility Commission of Oregon (OPUC) Staff.

Disclaimer: The information contained in this spreadsheet is based on 20-year projections, for years 2023 through 2042, and includes PacifiCorp's analysis of the various strategies to comply with the requirements of HB 2021 and other relevant Oregon laws. These projections and compliance strategies are based on current load, sales, economic, financial, technological, operational, and state and federal policy assumptions, and will be revisited each CEP planning cycle. The data included in this spreadsheet also includes several material assumptions or generalizations. PacifiCorp highlights several important examples:

- The CEP Portfolio Pathways 1 and 2 are not mutually exclusive, and the Company can pursue both compliance paths concurrently. Accordingly, the information reported for each pathway (for example, regarding greenhouse gas emissions, community benefit indicators, portfolio scoring, fossil fuel operations, annual costs, and RECs) will not reflect accurate information, because the spreadsheet requires portfolio specific information.

- The CEP Portfolios are based on assumed proxy resources over the 20-year planning horizon, and the Company's compliance pathways will differ from these assumptions based on future procurement processes that result in actual resources. These actual resources could differ substantially from the proxy resources that are assumed in each CEP Portfolio, based on which resources are the least-cost, least-risk resource to meet PacifiCorp's need in a given year.

- The CEP Portfolios are based on the Company's current assumptions regarding forecasted load, and these assumptions could change materially based on increased electrification in PacifiCorp's service territory.

- Historical greenhouse gas emissions do not provide a reasonable comparison to projected emissions, as historical emissions include emissions from certain qualifying facilities that are not included for complying with HB 2021 in future years.

- The projected annual costs to serve Oregon retail customers provides only general cost information, and does not represent what Oregon customers should expect to pay over the next two decades. Actual Oregon customer rates will be determined in specific OPUC rate proceedings.

These examples, among others, indicate that information contained in this spreadsheet is for general informational purposes only, and subject to change based on future developments.

Location: A portable document format (PDF) version of this document is available on PacifiCorp's website at: <https://www.pacificorp.com/energy/oregon-clean-energy-plan.html>.

Contact: For general inquiries or accessibility questions, please contact OregonCEP@PacifiCorp.com.

Based on: DRAFT CEP/IRP Data Template
Received from OPUC Staff on 2/24/23

DRAFT CEP/IRP Data Template

Last updated: 2/22/2023

Background

This spreadsheet provides a standard data sharing template for non-confidential information pertaining utility Clean Energy Plans (CEPs) and Integrated Resource Plans (IRPs), as described in OPUC Orders Orders No. 22-206, No. 22-390, and No. 22-446. This template accompanies a complete list of the requirements and expectations from Orders No. 22-206, No. 22-390, and No. 22-446 ("UM 2225 Order Summary/Rubric") and the information requested in this data template is cross-referenced to the items listed in the UM 2225 Order Summary/Rubric at the top of each tab.

Units

Information is requested in the following standard units to enable efficient review by OPUC Staf and stakeholders:

Data	Units
Capacity	MW
Energy	GWh, MWh, or MWa
GHG Emissions	metric tons CO ₂ e
Fuel burn	MMBtu
Costs	nominal \$ or million nominal \$

For some items, including Community Benefits Indicators (CBIs) and Scoring Metrics, the utility must provide the units that they use in their plans.

Legend

Provide data on a forecasted or planning basis

Provide historical data

Provide units, metric, or resource name

Instructions

Fill in the requested information, with units if not already specified.

If providing information for more than 30 portfolios (see Portfolios tab), copy or expand tables as needed

Email questions to:

Submission instructions:

Instructions

List the set of portfolios considered in developing the Action Plan, which test different paces of GHG reductions and different levels of community impact.

Identify the Preferred Portfolio in cell B5

Preferred Portfolio	CEP Portfolio-Pathway 1
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Preferred Portfolio	CEP Portfolio-Pathway 2
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Index	Portfolio list
1	CEP Portfolio-Pathway 1
2	CEP Portfolio-Pathway 2
3	CEP Portfolio 2020 protocol
4	2023 IRP Preferred Portfolio (May) 2020 Protocol
5	CBRE Scenario-Pathway 1
6	CBRE Scenario-Pathway 2
7	CBRE Scenario
8	15% SSR Target Scenario-Pathway 1
9	15% SSR Target Scenario-Pathway 2
10	15% SSR Target Scenario
11	Accelerated SSR 2028 Target Scenario-Pathway 1
12	Accelerated SSR 2028 Target Scenario-Pathway 2
13	Accelerated SSR 2028 Target Scenario
14	No Purchases 2040 Scenario-Pathway 1
15	No Purchases 2040 Scenario-Pathway 2
16	No Purchases 2040 Scenario

Instructions

For each of the portfolios listed on the "Portfolios" tab, list the annual goals for actions over the study period
 UM 2225 Order Summary/Rubric references: C.2(a)-(i), C.3

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

1 CEP Portfolio-Pathway 1														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volume 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	152	559	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	605	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,397	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,599	567	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,626	555	2,460	9,840	-	-	183	263	-	-	Hunter unit 1		n/a	n/a
2032	2,273	390	2,551	10,203	-	-	195	263	-	-	Hunter units 2-3; Huntington units 1-2;		n/a	n/a
2033	2,477	401	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,453	405	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,462	437	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,417	493	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,510	483	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,509	489	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,499	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,467	501	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,468	506	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,516	508	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

2 CEP Portfolio-Pathway 2														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	132	514	0.33	1.31	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	142	514	0.33	1.32	-	-	54	37	-	-			n/a	n/a
2025	472	516	226	905	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	741	507	1,798	7,193	-	-	96	148	-	-			n/a	n/a
2027	787	505	1,960	7,839	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	978	503	3,102	12,410	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,237	475	3,411	13,643	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,437	469	3,472	13,888	-	-	166	257	-	-			n/a	n/a
2031	1,463	463	3,503	14,011	-	-	183	263	-	-	Hunter unit 1		n/a	n/a
2032	2,029	327	3,585	14,340	-	-	195	263	-	-	Hunter units 2-3; Huntington units 1-2;		n/a	n/a
2033	2,194	334	3,724	14,896	-	-	209	263	-	-			n/a	n/a
2034	2,178	337	3,731	14,923	-	-	222	263	-	-			n/a	n/a
2035	2,186	365	3,738	14,952	-	-	234	266	-	-			n/a	n/a
2036	2,145	411	3,739	14,955	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,221	402	3,888	15,551	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,220	407	3,890	15,561	-	-	266	323	-	-			n/a	n/a
2039	2,213	408	3,891	15,565	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,188	418	3,891	15,563	-	-	284	330	-	-			n/a	n/a
2041	2,189	422	3,890	15,560	-	-	291	330	-	-			n/a	n/a
2042	2,230	424	3,891	15,562	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

3 CEP Portfolio 2020 protocol

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	152	559	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	605	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,397	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,561	567	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,579	555	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,259	390	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,471	401	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,452	405	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,456	437	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,412	493	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,501	483	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,496	489	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,486	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,460	501	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,463	506	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,512	508	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

4 2023 IRP Preferred Portfolio (May) 2020 Protocol

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	135	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	572	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	590	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	605	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,396	575	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,422	567	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,439	556	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,063	393	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,260	406	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,235	412	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,241	443	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,193	497	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,278	486	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,275	493	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,267	494	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,240	505	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,239	510	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,290	512	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

5 CBRE Scenario-Pathway 1

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	48	0	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	159	558	0.36	1.44	-	-	54	53	6	-			n/a	n/a
2025	535	575	252	1,008	-	-	77	72	12	-	Colstrip 3; Craig 1		n/a	n/a
2026	762	571	1,112	4,447	-	-	96	86	18	-			n/a	n/a
2027	856	589	1,339	5,357	-	-	115	102	32	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,111	605	1,975	7,898	-	-	133	113	32	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,430	574	2,360	9,441	-	-	150	116	32	-	Colstrip unit 4		n/a	n/a
2030	1,600	567	2,432	9,727	-	-	166	118	32	-			n/a	n/a
2031	1,627	556	2,460	9,840	-	-	183	121	32	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,275	390	2,551	10,203	-	-	195	121	32	-	Huntington units 1-2;		n/a	n/a
2033	2,479	402	2,729	10,917	-	-	209	121	32	-			n/a	n/a
2034	2,456	405	2,735	10,939	-	-	222	121	32	-			n/a	n/a
2035	2,464	437	2,741	10,965	-	-	234	121	32	-			n/a	n/a
2036	2,419	493	2,742	10,967	-	-	244	121	32	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,514	483	2,923	11,690	-	-	256	121	32	-	Jim Bridger units 1-4		n/a	n/a
2038	2,511	488	2,925	11,699	-	-	266	151	32	-			n/a	n/a
2039	2,501	489	2,926	11,703	-	-	276	153	32	-	Wyodak		n/a	n/a
2040	2,471	501	2,925	11,701	-	-	284	155	32	-			n/a	n/a
2041	2,472	506	2,925	11,698	-	-	291	155	32	-			n/a	n/a
2042	2,520	508	2,925	11,700	-	-	299	155	32	-			n/a	n/a

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6 CBRE Scenario-Pathway 2

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MWa) System resources	CBREs (MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	132	514	0.33	1.31	-	-	33	20	0	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	149	513	0.33	1.32	-	-	54	37	6	-			n/a	n/a
2025	484	516	226	905	-	-	77	107	12	-	Colstrip 3; Craig 1		n/a	n/a
2026	759	507	1,798	7,193	-	-	96	148	18	-			n/a	n/a
2027	819	505	1,960	7,839	-	-	115	202	32	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,010	503	3,102	12,410	-	-	133	241	32	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,270	474	3,411	13,643	-	-	150	253	32	-	Colstrip unit 4		n/a	n/a
2030	1,439	469	3,472	13,888	-	-	166	257	32	-			n/a	n/a
2031	1,465	463	3,503	14,011	-	-	183	263	32	-	Hunter unit 1; Hunter units 2-3;		n/a	n/a
2032	2,032	327	3,585	14,340	-	-	195	263	32	-	Huntington units 1-2;		n/a	n/a
2033	2,196	334	3,724	14,896	-	-	209	263	32	-			n/a	n/a
2034	2,181	337	3,731	14,923	-	-	222	263	32	-			n/a	n/a
2035	2,189	365	3,738	14,952	-	-	234	266	32	-			n/a	n/a
2036	2,147	411	3,739	14,955	-	-	244	266	32	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,226	402	3,888	15,551	-	-	256	266	32	-	Jim Bridger units 1-4		n/a	n/a
2038	2,223	407	3,890	15,561	-	-	266	323	32	-			n/a	n/a
2039	2,215	408	3,891	15,565	-	-	276	327	32	-	Wyodak		n/a	n/a
2040	2,192	418	3,891	15,563	-	-	284	330	32	-			n/a	n/a
2041	2,193	422	3,890	15,560	-	-	291	330	32	-			n/a	n/a
2042	2,234	424	3,891	15,562	-	-	299	330	32	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

7 CBRE Scenario														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	0	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	159	558	0.36	1.44	-	-	54	37	6	-			n/a	n/a
2025	535	575	252	1,008	-	-	77	107	12	-	Colstrip 3; Craig 1		n/a	n/a
2026	762	571	1,112	4,447	-	-	96	148	18	-			n/a	n/a
2027	856	589	1,339	5,357	-	-	115	202	32	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,111	605	1,975	7,898	-	-	133	241	32	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,430	574	2,360	9,441	-	-	150	253	32	-	Colstrip unit 4		n/a	n/a
2030	1,564	567	2,432	9,727	-	-	166	257	32	-			n/a	n/a
2031	1,581	556	2,460	9,840	-	-	183	263	32	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,262	390	2,551	10,203	-	-	195	263	32	-	Huntington units 1-2;		n/a	n/a
2033	2,474	402	2,729	10,917	-	-	209	263	32	-			n/a	n/a
2034	2,455	405	2,735	10,939	-	-	222	263	32	-			n/a	n/a
2035	2,459	437	2,741	10,965	-	-	234	266	32	-			n/a	n/a
2036	2,414	493	2,742	10,967	-	-	244	266	32	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,505	483	2,923	11,690	-	-	256	266	32	-	Jim Bridger units 1-4		n/a	n/a
2038	2,499	488	2,925	11,699	-	-	266	323	32	-			n/a	n/a
2039	2,488	489	2,926	11,703	-	-	276	327	32	-	Wyodak		n/a	n/a
2040	2,464	501	2,925	11,701	-	-	284	330	32	-			n/a	n/a
2041	2,466	506	2,925	11,698	-	-	291	330	32	-			n/a	n/a
2042	2,516	508	2,925	11,700	-	-	299	330	32	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

8 15% SSR Target Scenario-Pathway 1														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	604	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,397	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,667	566	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,694	556	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,367	388	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,592	394	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,560	397	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,565	433	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,520	490	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,616	480	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,611	487	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,601	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,570	498	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,572	503	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,621	505	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

9 15% SSR Target Scenario-Pathway 2														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	132	514	0.33	1.31	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	143	513	0.33	1.32	-	-	54	37	-	-			n/a	n/a
2025	472	516	226	905	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	741	507	1,798	7,193	-	-	96	148	-	-			n/a	n/a
2027	787	505	1,960	7,839	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	978	502	3,102	12,410	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,237	475	3,411	13,643	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,506	469	3,472	13,888	-	-	166	257	-	-			n/a	n/a
2031	1,532	463	3,503	14,011	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,124	325	3,585	14,340	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,305	328	3,724	14,896	-	-	209	263	-	-			n/a	n/a
2034	2,285	331	3,731	14,923	-	-	222	263	-	-			n/a	n/a
2035	2,290	361	3,738	14,952	-	-	234	266	-	-			n/a	n/a
2036	2,245	409	3,739	14,955	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,326	400	3,888	15,551	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,323	406	3,890	15,561	-	-	266	323	-	-			n/a	n/a
2039	2,316	408	3,891	15,565	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,292	416	3,891	15,563	-	-	284	330	-	-			n/a	n/a
2041	2,293	419	3,890	15,560	-	-	291	330	-	-			n/a	n/a
2042	2,335	421	3,891	15,562	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

10 15% SSR Target Scenario														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	604	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,397	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,631	566	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,648	556	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,353	388	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,580	394	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,559	397	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,559	433	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,515	490	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,609	480	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,601	487	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,590	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,565	498	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,567	503	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,617	505	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

11 Accelerated SSR 2028 Target Scenario-Pathway 1

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,313	604	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,631	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,694	567	2,432	9,727	-	-	166	257	-	-			n/a	n/a
2031	1,718	556	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,309	390	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,495	401	2,729	10,917	-	-	209	263	-	-			n/a	n/a
2034	2,465	404	2,735	10,939	-	-	222	263	-	-			n/a	n/a
2035	2,472	437	2,741	10,965	-	-	234	266	-	-			n/a	n/a
2036	2,425	493	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,509	483	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,502	489	2,925	11,699	-	-	266	323	-	-			n/a	n/a
2039	2,497	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,466	501	2,925	11,701	-	-	284	330	-	-			n/a	n/a
2041	2,467	506	2,925	11,698	-	-	291	330	-	-			n/a	n/a
2042	2,515	508	2,925	11,700	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

12 Accelerated SSR 2028 Target Scenario-Pathway 2

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	132	514	0.33	1.31	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	143	513	0.33	1.32	-	-	54	37	-	-			n/a	n/a
2025	472	516	226	905	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	741	507	1,798	7,193	-	-	96	148	-	-			n/a	n/a
2027	787	505	1,960	7,839	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,212	502	3,102	12,410	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,471	474	3,411	13,643	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a
2030	1,532	469	3,472	13,888	-	-	166	257	-	-			n/a	n/a
2031	1,556	463	3,503	14,011	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,065	326	3,585	14,340	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a
2033	2,209	333	3,724	14,896	-	-	209	263	-	-			n/a	n/a
2034	2,190	337	3,731	14,923	-	-	222	263	-	-			n/a	n/a
2035	2,197	364	3,738	14,952	-	-	234	266	-	-			n/a	n/a
2036	2,152	411	3,739	14,955	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,220	402	3,888	15,551	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,215	407	3,890	15,561	-	-	266	323	-	-			n/a	n/a
2039	2,210	408	3,891	15,565	-	-	276	327	-	-	Wyodak		n/a	n/a
2040	2,187	418	3,891	15,563	-	-	284	330	-	-			n/a	n/a
2041	2,188	422	3,890	15,560	-	-	291	330	-	-			n/a	n/a
2042	2,229	424	3,891	15,562	-	-	299	330	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

13 Accelerated SSR 2028 Target Scenario													Transmission Projects	Operational Changes	Other
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)				
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a	
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a	
2025	523	575	252	1,008	-	-	77	107	-	-	Colstrip 3; Craig 1		n/a	n/a	
2026	744	571	1,112	4,447	-	-	96	148	-	-			n/a	n/a	
2027	823	589	1,339	5,357	-	-	115	202	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a	
2028	1,313	604	1,975	7,898	-	-	133	241	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a	
2029	1,631	574	2,360	9,441	-	-	150	253	-	-	Colstrip unit 4		n/a	n/a	
2030	1,656	567	2,432	9,727	-	-	166	257	-	-			n/a	n/a	
2031	1,672	556	2,460	9,840	-	-	183	263	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a	
2032	2,295	390	2,551	10,203	-	-	195	263	-	-	Huntington units 1-2;		n/a	n/a	
2033	2,485	401	2,729	10,917	-	-	209	263	-	-			n/a	n/a	
2034	2,464	404	2,735	10,939	-	-	222	263	-	-			n/a	n/a	
2035	2,467	437	2,741	10,965	-	-	234	266	-	-			n/a	n/a	
2036	2,419	493	2,742	10,967	-	-	244	266	-	-	Naughton units 1-3; Hermiston		n/a	n/a	
2037	2,499	483	2,923	11,690	-	-	256	266	-	-	Jim Bridger units 1-4		n/a	n/a	
2038	2,491	489	2,925	11,699	-	-	266	323	-	-			n/a	n/a	
2039	2,481	489	2,926	11,703	-	-	276	327	-	-	Wyodak		n/a	n/a	
2040	2,460	501	2,925	11,701	-	-	284	330	-	-			n/a	n/a	
2041	2,461	506	2,925	11,698	-	-	291	330	-	-			n/a	n/a	
2042	2,511	508	2,925	11,700	-	-	299	330	-	-			n/a	n/a	

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

14 No Purchases 2040 Scenario-Pathway 1														
Year	Clean energy resources (MWA) System resources	Clean energy resources (MWA) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWA) System resources	CBREs (MW or MWA) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	108	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	572	1,112	4,447	-	-	96	149	-	-			n/a	n/a
2027	826	589	1,339	5,357	-	-	115	203	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	609	1,975	7,898	-	-	133	242	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,395	584	2,360	9,441	-	-	150	254	-	-	Colstrip unit 4		n/a	n/a
2030	1,550	578	2,432	9,727	-	-	166	258	-	-			n/a	n/a
2031	1,565	567	2,460	9,840	-	-	183	264	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,252	407	2,551	10,203	-	-	195	264	-	-	Huntington units 1-2;		n/a	n/a
2033	2,481	417	2,729	10,917	-	-	209	264	-	-			n/a	n/a
2034	2,449	421	2,735	10,939	-	-	222	264	-	-			n/a	n/a
2035	2,456	458	2,741	10,965	-	-	234	267	-	-			n/a	n/a
2036	2,421	502	2,742	10,967	-	-	244	267	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,518	491	2,923	11,690	-	-	256	267	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,527	493	2,925	11,699	-	-	266	325	-	-			n/a	n/a
2039	2,517	495	2,926	11,703	-	-	276	328	-	-	Wyodak		n/a	n/a
2040	2,508	507	2,925	11,701	-	-	284	331	-	-			n/a	n/a
2041	2,509	511	2,925	11,698	-	-	293	331	-	-			n/a	n/a
2042	2,558	509	2,925	11,700	-	-	301	331	-	-			n/a	n/a

Data reported in this section is Oregon Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

15 No Purchases 2040 Scenario-Pathway 2														
Year	Clean energy resources (MWA) System resources	Clean energy resources (MWA) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWA) System resources	CBREs (MW or MWA) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	132	514	0.33	1.31	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	143	513	0.33	1.32	-	-	54	37	-	-			n/a	n/a
2025	472	516	226	905	-	-	77	108	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	741	508	1,798	7,193	-	-	96	149	-	-			n/a	n/a
2027	789	505	1,960	7,839	-	-	115	203	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	978	507	3,102	12,410	-	-	133	242	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,235	483	3,411	13,643	-	-	150	254	-	-	Colstrip unit 4		n/a	n/a
2030	1,407	478	3,472	13,888	-	-	166	258	-	-			n/a	n/a
2031	1,427	473	3,503	14,011	-	-	183	264	-	-	Hunter unit 1		n/a	n/a
2032	2,016	341	3,585	14,340	-	-	195	264	-	-	Hunter units 2-3; Huntington units 1-2;		n/a	n/a
2033	2,195	347	3,724	14,896	-	-	209	264	-	-			n/a	n/a
2034	2,174	351	3,731	14,923	-	-	222	264	-	-			n/a	n/a
2035	2,181	382	3,738	14,952	-	-	234	267	-	-			n/a	n/a
2036	2,145	419	3,739	14,955	-	-	244	267	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,225	409	3,888	15,551	-	-	256	267	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,233	411	3,890	15,561	-	-	266	325	-	-			n/a	n/a
2039	2,225	413	3,891	15,565	-	-	276	328	-	-	Wyodak		n/a	n/a
2040	2,221	423	3,891	15,563	-	-	284	331	-	-			n/a	n/a
2041	2,221	426	3,890	15,560	-	-	293	331	-	-			n/a	n/a
2042	2,262	425	3,891	15,562	-	-	301	331	-	-			n/a	n/a

Data reported in this section is Oregon
 Clean Energy Resource capacity includes nuclear resources, and is consistent with DEQ's assignment of zero emissions to this resource type. For

16 No Purchases 2040 Scenario														
Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources	Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency	Demand Response	CBREs (MW or MWa) System resources	CBREs (MW or MWa) Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
2023	136	533	0.34	1.36	-	-	33	20	-	-		Please refer to 2023 Integrated Resource Plan Volumen 1, Preferred Portfolio Results under Chapter 9 page 54, Table 9.29 and 9.30 for detailed list of transmission projects. These are constant across all CEP portfolios.	n/a	n/a
2024	153	558	0.36	1.44	-	-	54	37	-	-			n/a	n/a
2025	523	575	252	1,008	-	-	77	108	-	-	Colstrip 3; Craig 1		n/a	n/a
2026	744	572	1,112	4,447	-	-	96	149	-	-			n/a	n/a
2027	826	589	1,339	5,357	-	-	115	203	-	-	Dave Johnston units 3; Hayden unit 2		n/a	n/a
2028	1,079	609	1,975	7,898	-	-	133	242	-	-	Dave Johnston units 1-2; Craig unit 2; Hayden unit 1		n/a	n/a
2029	1,395	584	2,360	9,441	-	-	150	254	-	-	Colstrip unit 4		n/a	n/a
2030	1,550	578	2,432	9,727	-	-	166	258	-	-			n/a	n/a
2031	1,565	567	2,460	9,840	-	-	183	264	-	-	Hunter unit 1 Hunter units 2-3;		n/a	n/a
2032	2,252	407	2,551	10,203	-	-	195	264	-	-	Huntington units 1-2;		n/a	n/a
2033	2,469	417	2,729	10,917	-	-	209	264	-	-			n/a	n/a
2034	2,447	421	2,735	10,939	-	-	222	264	-	-			n/a	n/a
2035	2,450	458	2,741	10,965	-	-	234	267	-	-			n/a	n/a
2036	2,416	502	2,742	10,967	-	-	244	267	-	-	Naughton units 1-3; Hermiston		n/a	n/a
2037	2,506	491	2,923	11,690	-	-	256	267	-	-	Jim Bridger units 1-4		n/a	n/a
2038	2,509	493	2,925	11,699	-	-	266	325	-	-			n/a	n/a
2039	2,497	495	2,926	11,703	-	-	276	328	-	-	Wyodak		n/a	n/a
2040	2,498	507	2,925	11,701	-	-	284	331	-	-			n/a	n/a
2041	2,499	511	2,925	11,698	-	-	293	331	-	-			n/a	n/a
2042	2,549	509	2,925	11,700	-	-	301	331	-	-			n/a	n/a

Data reported in this section is Oregon allocated.

9 15% SSR Target Scenario-Pathway 2								
Contribution from...								
Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
2023	10,451,567	549,955	0	1,889,720		8,358,309	203,537	-
2024	9,324,372	875,686	0	1,981,319	342,069	6,845,934	155,050	-
2025	7,427,471	620,539	0	2,029,701	477,149	4,920,621	-	-
2026	4,861,526	926,500	0	1,697,551	231,509	2,932,466	-	-
2027	5,236,986	935,336	0	1,576,869	378,193	3,281,924	-	-
2028	4,923,788	587,115	0	1,573,858	558,798	2,791,132	-	-
2029	3,192,572	664,016	0	1,403,274	435,594	1,353,704	-	-
2030	1,789,093	584,470	0	1,259,141	529,952	-	-	-
2031	1,724,913	634,230	0	1,209,873	515,040	-	-	-
2032	963,771	420,944	0	813,415	150,356	-	-	-
2033	780,757	306,107	0	621,450	159,307	-	-	-
2034	705,838	383,622	0	620,929	84,909	-	-	-
2035	691,076	381,880	0	612,713	78,362	-	-	-
2036	694,976	410,713	0	604,307	90,668	-	-	-
2037	621,487	405,000	0	533,199	88,288	-	-	-
2038	554,130	448,938	0	554,130	-	-	-	-
2039	571,440	483,622	0	571,440	-	-	-	-
2040	-	-	0	-	-	-	-	-
2041	-	-	0	-	-	-	-	-
2042	-	-	0	-	-	-	-	-

Data reported in this section is Oregon allocated.

10 15% SSR Target Scenario

Year	Total GHG Emissions (metric tons)	Contribution from...			Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)	Market					
2023	10,825,539	549,955	0	1,956,524	-	8,658,173	210,842	-	
2024	10,136,573	875,686	0	2,145,061	373,785	7,449,114	168,613	-	
2025	8,271,223	620,539	0	2,260,273	531,353	5,479,597	-	-	
2026	5,469,686	926,500	0	1,909,992	261,057	3,298,638	-	-	
2027	6,153,784	935,336	0	1,838,212	467,166	3,848,406	-	-	
2028	5,965,415	587,115	0	1,944,004	650,198	3,371,213	-	-	
2029	3,862,139	664,016	0	1,696,951	524,148	1,641,039	-	-	
2030	2,219,249	584,470	0	1,561,835	657,414	-	-	-	
2031	2,344,030	634,230	0	1,648,317	695,713	-	-	-	
2032	1,304,133	420,944	0	1,097,972	206,161	-	-	-	
2033	1,011,260	306,107	0	820,038	191,221	-	-	-	
2034	942,798	383,622	0	826,429	116,369	-	-	-	
2035	904,191	381,880	0	801,563	102,628	-	-	-	
2036	918,294	410,713	0	797,662	120,633	-	-	-	
2037	822,598	405,000	0	703,113	119,485	-	-	-	
2038	735,805	448,938	0	735,805	-	-	-	-	
2039	746,443	483,622	0	746,443	-	-	-	-	
2040	-	-	0	-	-	-	-	-	
2041	-	-	0	-	-	-	-	-	
2042	-	-	0	-	-	-	-	-	

Data reported in this section is Oregon allocated.

11 Accelerated SSR 2028 Target Scenario-Pathway 1

Year	Total GHG Emissions (metric tons)	Contribution from...			Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)	Market					
2023	10,825,539	549,955	0	1,956,524	0	8,658,173	210,842	0	
2024	10,136,573	875,686	0	2,145,061	373,785	7,449,114	168,613	0	
2025	8,271,223	620,539	0	2,260,273	531,353	5,479,597	0	0	
2026	5,474,644	925,692	0	1,911,640	260,706	3,302,298	0	0	
2027	6,106,939	961,612	0	1,838,309	433,754	3,834,875	0	0	
2028	5,801,467	470,366	0	1,840,475	643,394	3,317,599	0	0	
2029	3,753,642	516,457	0	1,634,830	494,772	1,624,040	0	0	
2030	1,233,477	570,882	0	869,522	363,954	0	0	0	
2031	1,140,697	621,335	0	804,500	336,196	0	0	0	
2032	643,545	451,429	0	542,244	101,300	0	0	0	
2033	521,132	337,262	0	417,403	103,728	0	0	0	
2034	473,813	419,179	0	418,020	55,793	0	0	0	
2035	463,562	409,660	0	410,447	53,115	0	0	0	
2036	467,947	445,541	0	407,320	60,627	0	0	0	
2037	419,481	451,787	0	360,184	59,297	0	0	0	
2038	375,679	495,651	0	375,679	0	0	0	0	
2039	385,221	526,133	0	385,221	0	0	0	0	
2040	-	-	0	0	0	0	0	0	
2041	-	-	0	0	0	0	0	0	
2042	-	-	0	0	0	0	0	0	

Data reported in this section is Oregon allocated.

12 Accelerated SSR 2028 Target Scenario-Pathway 2

Year	Total GHG Emissions (metric tons)	Contribution from...		Market sales (metric tons)	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)						
2023	10,450,478	549,955	0	0	1,888,738	0	8,358,203	203,537	0
2024	9,321,184	875,686	0	0	1,972,511	343,718	6,849,905	155,050	0
2025	7,427,471	620,539	0	0	2,029,701	477,149	4,920,621	0	0
2026	4,861,526	925,692	0	0	1,697,551	231,509	2,932,466	0	0
2027	5,236,707	961,612	0	0	1,576,353	371,945	3,288,410	0	0
2028	4,821,781	470,366	0	0	1,529,676	534,745	2,757,360	0	0
2029	3,104,171	516,457	0	0	1,351,965	409,165	1,343,041	0	0
2030	1,751,163	570,882	0	0	1,234,458	516,705	0	0	0
2031	1,688,394	621,335	0	0	1,190,775	497,619	0	0	0
2032	952,538	451,429	0	0	802,599	149,939	0	0	0
2033	771,349	337,262	0	0	617,817	153,533	0	0	0
2034	701,312	419,179	0	0	618,730	82,582	0	0	0
2035	686,138	409,660	0	0	607,520	78,618	0	0	0
2036	692,628	445,541	0	0	602,892	89,736	0	0	0
2037	620,892	451,787	0	0	533,123	87,769	0	0	0
2038	556,059	495,651	0	0	556,059	0	0	0	0
2039	570,182	526,133	0	0	570,182	0	0	0	0
2040	-	-	0	0	0	0	0	0	0
2041	-	-	0	0	0	0	0	0	0
2042	-	-	0	0	0	0	0	0	0

Data reported in this section is Oregon allocated.

13 Accelerated SSR 2028 Target Scenario

Year	Total GHG Emissions (metric tons)	Contribution from...			Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)	Market					
2023	10825539.04	549955.2412	0	1,956,524	-	8,658,173	210,842	-	
2024	10136573.12	875685.8876	0	2,145,061	373,785	7,449,114	168,613	-	
2025	8271222.523	620539.3192	0	2,260,273	531,353	5,479,597	-	-	
2026	5474643.862	925692.3682	0	1,911,640	260,706	3,302,298	-	-	
2027	6106938.8	961612.0797	0	1,838,309	433,754	3,834,875	-	-	
2028	5801467.348	470366.3894	0	1,840,475	643,394	3,317,599	-	-	
2029	3753642.214	516456.7841	0	1,634,830	494,772	1,624,040	-	-	
2030	2202636.875	570881.8486	0	1,552,718	649,919	-	-	-	
2031	2327952.299	621334.5153	0	1,641,837	686,115	-	-	-	
2032	1324301.611	451428.7895	0	1,115,844	208,458	-	-	-	
2033	1059319.947	337262.08	0	848,469	210,851	-	-	-	
2034	965236.7623	419179.3048	0	851,577	113,660	-	-	-	
2035	946656.1159	409660.3717	0	838,187	108,469	-	-	-	
2036	955764.3633	445540.8333	0	831,937	123,828	-	-	-	
2037	855164.1096	451787.1706	0	734,279	120,885	-	-	-	
2038	766422.4292	495651.1864	0	766,422	-	-	-	-	
2039	786170.1373	526132.6765	0	786,170	-	-	-	-	
2040	0	0	0	-	-	-	-	-	
2041	0	0	0	-	-	-	-	-	
2042	0	0	0	-	-	-	-	-	

Data reported in this section is Oregon allocated.

14 No Purchases 2040 Scenario-Pathway 1

Year	Total GHG Emissions (metric tons)	Contribution from...		Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)					
2023	10,825,470	550,018	0	1,958,597	-	8,656,031	210,842	-
2024	10,134,702	876,150	0	2,145,138	373,664	7,447,287	168,613	-
2025	8,272,025	591,851	0	2,237,283	535,743	5,498,999	-	-
2026	5,474,835	907,604	0	1,904,612	267,003	3,303,221	-	-
2027	6,098,916	964,672	0	1,836,367	436,822	3,825,727	-	-
2028	6,141,256	533,279	0	1,907,288	702,899	3,531,069	-	-
2029	3,986,859	589,009	0	1,734,104	518,104	1,734,651	-	-
2030	1,299,373	571,604	0	911,614	387,759	-	-	-
2031	1,201,503	634,794	0	840,110	361,392	-	-	-
2032	666,508	404,663	0	560,086	106,422	-	-	-
2033	518,565	305,782	0	404,796	113,769	-	-	-
2034	472,385	397,497	0	403,685	68,700	-	-	-
2035	458,606	388,862	0	391,539	67,066	-	-	-
2036	466,447	414,387	0	393,593	72,855	-	-	-
2037	416,928	414,439	0	346,726	70,202	-	-	-
2038	358,043	466,017	0	358,043	-	-	-	-
2039	364,866	502,514	0	364,866	-	-	-	-
2040	-	-	0	-	-	-	-	-
2041	-	-	0	-	-	-	-	-
2042	-	-	0	-	-	-	-	-

Data reported in this section is Oregon allocated.

15 No Purchases 2040 Scenario-Pathway 2

Year	Total GHG Emissions (metric tons)	Contribution from...			Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)	Market					
2023	10450411.55	550018.4791	0	1,890,739	-	8,356,135	203,537	-	
2024	9319463.381	876150.4019	0	1,972,582	343,607	6,848,225	155,050	-	
2025	7428191.996	591850.7954	0	2,009,057	481,092	4,938,043	-	-	
2026	4861695.72	907603.7302	0	1,691,310	237,101	2,933,285	-	-	
2027	5229828.035	964671.6043	0	1,574,687	374,575	3,280,565	-	-	
2028	5104190.195	533278.9263	0	1,585,207	584,202	2,934,782	-	-	
2029	3297034.766	589008.9085	0	1,434,062	428,459	1,434,514	-	-	
2030	1844716.296	571604.3967	0	1,294,215	550,501	-	-	-	
2031	1778395.479	634794.2698	0	1,243,483	534,912	-	-	-	
2032	986527.5248	404662.7094	0	829,008	157,520	-	-	-	
2033	767549.9677	305781.6252	0	599,156	168,394	-	-	-	
2034	699197.1454	397497.2674	0	597,511	101,686	-	-	-	
2035	678801.8638	388861.8743	0	579,534	99,268	-	-	-	
2036	690408.7173	414386.6788	0	582,573	107,835	-	-	-	
2037	617113.3926	414439.1489	0	513,204	103,909	-	-	-	
2038	529954.9452	466016.5963	0	529,955	-	-	-	-	
2039	540053.3512	502514.0461	0	540,053	-	-	-	-	
2040	0	0	0	-	-	-	-	-	
2041	0	0	0	-	-	-	-	-	
2042	0	0	0	-	-	-	-	-	

Data reported in this section is Oregon allocated.

16 No Purchases 2040 Scenario

Year	Total GHG Emissions (metric tons)	Contribution from...		Market sales (metric tons)	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)	Biogas (metric ton)	Geothermal (metric ton)
		Market Purchases (metric tons)	Market sales (metric tons)						
2023	10,825,470	550,018	0	0	1,958,597	-	8,656,031	210,842	-
2024	10,134,702	876,150	0	0	2,145,138	373,664	7,447,287	168,613	-
2025	8,272,025	591,851	0	0	2,237,283	535,743	5,498,999	-	-
2026	5,474,835	907,604	0	0	1,904,612	267,003	3,303,221	-	-
2027	6,098,916	964,672	0	0	1,836,367	436,822	3,825,727	-	-
2028	6,141,256	533,279	0	0	1,907,288	702,899	3,531,069	-	-
2029	3,986,859	589,009	0	0	1,734,104	518,104	1,734,651	-	-
2030	2,320,310	571,604	0	0	1,627,882	692,428	-	-	-
2031	2,452,046	634,794	0	0	1,714,511	737,535	-	-	-
2032	1,371,557	404,663	0	0	1,152,559	218,998	-	-	-
2033	1,054,102	305,782	0	0	822,841	231,261	-	-	-
2034	962,327	397,497	0	0	822,373	139,953	-	-	-
2035	936,534	388,862	0	0	799,576	136,958	-	-	-
2036	952,702	414,387	0	0	803,899	148,803	-	-	-
2037	849,960	414,439	0	0	706,844	143,115	-	-	-
2038	730,443	466,017	0	0	730,443	-	-	-	-
2039	744,629	502,514	0	0	744,629	-	-	-	-
2040	-	-	0	0	-	-	-	-	-
2041	-	-	0	0	-	-	-	-	-
2042	-	-	0	0	-	-	-	-	-

Instructions

For each of the portfolios listed on the "Portfolios" tab, list the scoring metrics for cost, risk, GHG emissions reductions, and community benefits and impacts used to select the Preferred Portfolio and design the Action Plan

UM 2225 Order Summary/Rubric references: B.1

Data reported in this section is Oregon allocated.

Portfolio	Cost - NPVRR (millions)	Risk metric - Variability Unserviced Energy)	Risk metric - Severity (Unserviced Energy as a % of Load)	Total GHG Emissions 2023-2042 (MT CO2e)	Community Impacts Metric(s) (units)	Maintains 10% SSR Requirement Starting 2030 (Yes/No)	Meets Emissions Reduction Targets Starting in 2030 (Yes/No)
1 CEP Portfolio-Pathway 1	\$12,204	21,851	0.00447%	56,802,395	Community Impact Metrics are covered under "Risk metric - Variability", "Risk metric - Severity" and "Total GHG Emissions 2023-2042" to the left.	Yes	Yes
2 CEP Portfolio-Pathway 2	\$12,340	21,851	0.00447%	54,515,764		Yes	Yes
3 CEP Portfolio 2020 protocol	\$11,810	21,851	0.00447%	62,936,978		No	No
4 2023 IRP Preferred Portfolio (May) 2020 Protocol	\$11,543	22,530	0.00461%	64,688,776		Yes	No
5 CBRE Scenario-Pathway 1	\$12,333	21,850	0.00447%	56,814,620		Yes	No
6 CBRE Scenario-Pathway 2	\$12,470	21,850	0.00447%	54,515,764		Yes	Yes
7 CBRE Scenario	\$11,941	21,850	0.00447%	62,936,722		Yes	No
8 15% SSR Target Scenario-Pathway 1	\$12,345	21,852	0.00447%	56,692,046		Yes	Yes
9 15% SSR Target Scenario-Pathway 2	\$12,481	21,852	0.00447%	54,515,764		Yes	Yes
10 15% SSR Target Scenario	\$11,934	21,852	0.00447%	62,633,160		Yes	No
11 Accelerated SSR 2028 Target Scenario-Pathway 1	\$12,476	21,861	0.00447%	56,494,580		Yes	Yes
12 Accelerated SSR 2028 Target Scenario-Pathway 2	\$12,615	21,861	0.00447%	54,213,973		Yes	Yes
13 Accelerated SSR 2028 Target Scenario	\$12,075	21,861	0.00447%	62,559,652		Yes	No
14 No Purchases 2040 Scenario-Pathway 1	\$12,229	21,913	0.00448%	57,157,288		Yes	Yes
15 No Purchases 2040 Scenario-Pathway 2	\$12,357	21,913	0.00448%	54,823,534		Yes	No
16 No Purchases 2040 Scenario	\$11,855	21,913	0.00448%	63,308,673		Yes	No

PacifiCorp

Instructions

Provide the following information for the Preferred Portfolio under the Reference Case over the study period and for at least three historical years

- Total annual GHG emissions by fuel type
- Annual GHG emissions to serve Oregon customers by fuel type
- Total annual generation by fuel type
- Annual generation serving Oregon customers by fuel type
- Annual weighted average heat rate by fuel type (total annual fuel burn, divided by total annual generation)

UM 2225 Order Summary/Rubric references: J.4(a)-(e)

Data reported in this section is Oregon allocated.

Historical emissions as reported to DEQ [Department of Environmental Quality : Greenhouse Gas Emissions Reported to DEQ : Action on Climate Change : State of Oregon](#). The breakout by source type is estimated using total system energy mix. This approximation is due to PacifiCorp's unique multi-jurisdictional reporting requirement. Biogenic emissions and emissions associated with QFs are excluded.

CEP Portfolio-Pathway 1																				
Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Coal	Coal	Coal	Coal	Coal	Gas Conv	Gas Conv	Gas Conv	Gas Conv	Gas Conv	Gas Conv				
Year	GHG emissions to			Generation			GHG emissions to			Generation			GHG emissions to			Generation				
	Total GHG emissions (metric tons)	serve Oregon customers (metric tons)	generation (GWh)	Total serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	serve Oregon customers (metric tons)	generation (GWh)	Total serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	serve Oregon customers (metric tons)	generation (GWh)	Total serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	serve Oregon customers (metric tons)	generation (GWh)	Total serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)
2019	4,359,872	863,337	10,554	2,346	n/a	37,882,378	7,501,427	36,485	8,173	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2020	4,883,514	999,907	11,890	2,722	n/a	32,697,797	6,694,927	31,142	7,180	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2021	5,188,964	1,017,288	12,988	2,741	n/a	34,049,254	6,675,301	32,381	6,898	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
2022	2022 data is unavailable as of 6/2/2023. Third Party Verification will conclude in August 2023.																			
2023	7,077,980	1,957,541	16,324	4,515	7	31,306,194	8,658,284	29,564	8,177	11	-	-	-	-	-	-	-	-	-	n/a
2024	7,359,888	2,154,639	16,766	4,908	7	25,430,182	7,444,796	24,101	7,056	11	1,270,663	371,992	2,155	631	11	1,768,430	531,353	2,933	881	11
2025	7,522,566	2,260,273	17,722	5,325	7	18,237,013	5,479,597	17,258	5,185	11	1,768,430	531,353	2,933	881	11	1,768,430	531,353	2,933	881	11
2026	6,344,323	1,911,640	16,026	4,829	7	10,959,619	3,302,298	10,350	3,119	11	865,229	260,706	1,236	372	13	865,229	260,706	1,236	372	13
2027	5,901,897	1,838,912	14,913	4,646	7	12,283,564	3,827,311	11,622	3,621	11	1,415,500	441,041	2,193	683	12	1,415,500	441,041	2,193	683	12
2028	5,823,002	1,893,633	14,608	4,751	7	11,251,230	3,358,232	10,688	3,176	11	2,067,457	672,334	3,391	1,103	11	2,067,457	672,334	3,391	1,103	11
2029	5,157,247	1,696,874	13,068	4,300	7	5,908,451	1,636,934	5,644	1,551	11	1,600,875	526,731	2,511	826	12	1,600,875	526,731	2,511	826	12
2030	4,807,963	886,908	12,189	2,248	7	2,241,253	-	2,118	-	n/a	2,023,593	373,285	3,248	599	12	2,023,593	373,285	3,248	599	12
2031	5,005,829	817,403	12,692	2,072	7	1,956,471	-	1,838	-	n/a	2,130,969	347,966	3,417	558	12	2,130,969	347,966	3,417	558	12
2032	3,365,491	549,552	8,523	1,392	7	876,086	-	842	-	n/a	622,094	101,582	1,010	165	11	622,094	101,582	1,010	165	11
2033	2,571,239	419,858	6,558	1,071	7	108,179	-	93	-	n/a	659,129	107,629	1,059	173	12	659,129	107,629	1,059	173	12
2034	2,569,082	419,506	6,551	1,070	7	88,347	-	76	-	n/a	351,311	57,366	559	91	12	351,311	57,366	559	91	12
2035	2,535,092	413,956	6,453	1,054	7	75,918	-	65	-	n/a	324,223	52,942	519	85	12	324,223	52,942	519	85	12
2036	2,500,311	408,276	6,357	1,038	7	37,783	-	33	-	n/a	375,139	61,257	603	98	12	375,139	61,257	603	98	12
2037	2,206,103	360,235	5,591	913	7	48,986	-	42	-	n/a	365,290	59,648	590	96	11	365,290	59,648	590	96	11
2038	2,292,704	374,376	5,804	948	7	64,645	-	56	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2039	2,364,325	386,071	5,976	976	7	87,600	-	75	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2040	2,324,879	-	5,885	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2041	2,377,779	-	6,019	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2042	2,363,421	-	5,981	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a

PacifiCorp

CEP Portfolio-Pathway 2

Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas	Coal	Coal	Coal	Coal	Coal	Gas Conv	Gas Conv	Gas Conv	Gas Conv	Gas Conv	
Year	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)
2019	4,359,872	863,337	10,554	2,346	n/a	37,882,378	7,501,427	36,485	8,173	n/a	n/a	n/a	n/a	n/a	n/a
2020	4,883,514	999,907	11,890	2,722	n/a	32,697,797	6,694,927	31,142	7,180	n/a	n/a	n/a	n/a	n/a	n/a
2021	5,188,964	1,017,288	12,988	2,741	n/a	34,049,254	6,675,301	32,381	6,898	n/a	n/a	n/a	n/a	n/a	n/a
2022	2022 data is unavailable as of 6/2/2023. Third Party Verification will conclude in August 2023.														
2023	7,077,980	1,889,720	16,324	4,358	7	31,306,194	8,358,309	29,564	7,893	11	-	-	-	-	n/a
2024	7,359,888	1,981,319	16,766	4,513	7	25,430,182	6,845,934	24,101	6,488	11	1,270,663	342,069	2,155	580	11
2025	7,522,566	2,029,701	17,722	4,782	7	18,237,013	4,920,621	17,258	4,656	11	1,768,430	477,149	2,933	791	11
2026	6,344,323	1,697,551	16,026	4,288	7	10,959,619	2,932,466	10,350	2,769	11	865,229	231,509	1,236	331	13
2027	5,901,897	1,576,869	14,913	3,984	7	12,283,564	3,281,924	11,622	3,105	11	1,415,500	378,193	2,193	586	12
2028	5,823,002	1,573,858	14,608	3,948	7	11,251,230	2,791,132	10,688	2,640	11	2,067,457	558,798	3,391	917	11
2029	5,157,247	1,403,274	13,068	3,556	7	5,908,451	1,353,704	5,644	1,282	11	1,600,875	435,594	2,511	683	12
2030	4,807,963	1,259,141	12,189	3,192	7	2,241,253	-	2,118	-	n/a	2,023,593	529,952	3,248	851	12
2031	5,005,829	1,209,873	12,692	3,068	7	1,956,471	-	1,838	-	n/a	2,130,969	515,040	3,417	826	12
2032	3,365,491	813,415	8,523	2,060	7	876,086	-	842	-	n/a	622,094	150,356	1,010	244	11
2033	2,571,239	621,450	6,558	1,585	7	108,179	-	93	-	n/a	659,129	159,307	1,059	256	12
2034	2,569,082	620,929	6,551	1,583	7	88,347	-	76	-	n/a	351,311	84,909	559	135	12
2035	2,535,092	612,713	6,453	1,560	7	75,918	-	65	-	n/a	324,223	78,362	519	125	12
2036	2,500,311	604,307	6,357	1,537	7	37,783	-	33	-	n/a	375,139	90,668	603	146	12
2037	2,206,103	533,199	5,591	1,351	7	48,986	-	42	-	n/a	365,290	88,288	590	143	11
2038	2,292,704	554,130	5,804	1,403	7	64,645	-	56	-	n/a	-	-	-	-	n/a
2039	2,364,325	571,440	5,976	1,444	7	87,600	-	75	-	n/a	-	-	-	-	n/a
2040	2,324,879	-	5,885	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2041	2,377,779	-	6,019	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a
2042	2,363,421	-	5,981	-	n/a	-	-	-	-	n/a	-	-	-	-	n/a

CEP Portfolio-Pathway 1																
Fuel	Biogas/Biomass	Biogas/Biomass	Biogas/Biomass	Biogas/Biomass	Biogas/Biomass	Geothermal	Geothermal	Geothermal	Geothermal	Geothermal	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
Year	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)
2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2,923,495	769,466	6,831	1,798	n/a	
2020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3,172,569	860,977	7,413	2,012	n/a	
2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2,382,900	642,118	5,568	1,500	n/a	
2022																
2023	762,353	210,842	799	221	-	-	-	272	75	-						
2024	575,953	168,613	604	177	-	-	-	272	80	-						
2025	-	-	-	-	-	-	-	266	80	-						
2026	-	-	-	-	-	-	-	263	79	-						
2027	-	-	-	-	-	-	-	250	78	-						
2028	-	-	-	-	-	-	-	247	80	-						
2029	-	-	-	-	-	-	-	238	78	-						
2030	-	-	-	-	-	-	-	238	78	-						
2031	-	-	-	-	-	-	-	238	79	-						
2032	-	-	-	-	-	-	-	188	63	-						
2033	-	-	-	-	-	-	-	172	57	-						
2034	-	-	-	-	-	-	-	184	61	-						
2035	-	-	-	-	-	-	-	176	59	-						
2036	-	-	-	-	-	-	-	184	61	-						
2037	-	-	-	-	-	-	-	182	61	-						
2038	-	-	-	-	-	-	-	-	-	-						
2039	-	-	-	-	-	-	-	-	-	-						
2040	-	-	-	-	-	-	-	-	-	-						
2041	-	-	-	-	-	-	-	-	-	-						
2042	-	-	-	-	-	-	-	-	-	-						

PacifiCorp

CEP Portfolio-Pathway 2

Year	Fuel	Biogas	Biogas	Biogas	Biogas	Geothermal	Geothermal	Geothermal	Geothermal	Geothermal	Geothermal	Unspecified	Unspecified	Unspecified	Unspecified	Unspecified
	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)	Weighted average heat rate (MMBTu/MWh)	
2019	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2,923,495	769,466	6,831	1,798	n/a	
2020	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3,172,569	860,977	7,413	2,012	n/a	
2021	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2,382,900	642,118	5,568	1,500	n/a	
2022																
2023	762,353	203,537	799	213	-	-	272	73								
2024	575,953	155,050	604	163	-	-	272	73								
2025	-	-	-	-	-	-	266	72								
2026	-	-	-	-	-	-	263	70								
2027	-	-	-	-	-	-	250	67								
2028	-	-	-	-	-	-	247	67								
2029	-	-	-	-	-	-	238	65								
2030	-	-	-	-	-	-	238	65								
2031	-	-	-	-	-	-	238	66								
2032	-	-	-	-	-	-	188	53								
2033	-	-	-	-	-	-	172	47								
2034	-	-	-	-	-	-	184	51								
2035	-	-	-	-	-	-	176	49								
2036	-	-	-	-	-	-	184	51								
2037	-	-	-	-	-	-	182	51								
2038	-	-	-	-	-	-	-	-								
2039	-	-	-	-	-	-	-	-								
2040	-	-	-	-	-	-	-	-								
2041	-	-	-	-	-	-	-	-								
2042	-	-	-	-	-	-	-	-								

Instructions

For each of the portfolios listed in the "Portfolios" tab, provide the following information under the Reference Case over the study period and for at least three historical years

- Total forecasted annual revenue requirement to serve Oregon customers
- Total forecasted annual revenue requirement to serve Oregon customers, divided by the total forecasted retail sales in Oregon

UM 2225 Order Summary/Rubric references: J.5(a)-(b)

Data reported in this section is Oregon allocated.

1 CEP Portfolio-Pathway 1

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	536	16,307,041	33
2025	570	17,360,433	33
2026	789	17,873,416	44
2027	884	18,909,955	47
2028	1,076	20,294,420	53
2029	1,128	20,625,973	55
2030	1,089	20,598,436	53
2031	1,238	21,152,414	59
2032	1,252	21,356,002	59
2033	1,292	21,492,223	60
2034	1,393	21,677,527	64
2035	1,424	21,895,711	65
2036	1,554	22,180,065	70
2037	1,653	22,410,957	74
2038	1,805	22,705,996	80
2039	1,948	23,013,903	85
2040	2,091	23,357,876	90
2041	2,130	23,682,702	90
2042	2,402	24,050,913	100

Data reported in this section is Oregon allocated.

2 CEP Portfolio-Pathway 2

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	315	14,506,597	22
2024	492	16,307,041	30
2025	505	17,360,433	29
2026	869	17,873,416	49
2027	925	18,909,955	49
2028	1,172	20,294,420	58
2029	1,223	20,625,973	59
2030	1,146	20,598,436	56
2031	1,273	21,152,414	60
2032	1,289	21,356,002	60
2033	1,314	21,492,223	61
2034	1,408	21,677,527	65
2035	1,433	21,895,711	65
2036	1,572	22,180,065	71
2037	1,653	22,410,957	74
2038	1,786	22,705,996	79
2039	1,908	23,013,903	83
2040	2,045	23,357,876	88
2041	2,082	23,682,702	88
2042	2,316	24,050,913	96

Data reported in this section is Oregon allocated.

3 CEP Portfolio 2020 protocol

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333.1	14,506,597.2	23.0
2024	536.4	16,307,041.1	32.9
2025	570.0	17,360,432.5	32.8
2026	789.0	17,873,416.2	44.1
2027	883.5	18,909,955.2	46.7
2028	1,076.4	20,294,419.9	53.0
2029	1,127.8	20,625,973.2	54.7
2030	1,109.2	20,598,436.0	53.9
2031	1,251.6	21,152,414.3	59.2
2032	1,213.6	21,356,001.7	56.8
2033	1,229.9	21,492,223.5	57.2
2034	1,319.6	21,677,526.7	60.9
2035	1,356.6	21,895,711.1	62.0
2036	1,489.3	22,180,064.9	67.1
2037	1,645.0	22,410,957.2	73.4
2038	1,740.6	22,705,996.4	76.7
2039	1,843.8	23,013,902.9	80.1
2040	1,846.5	23,357,876.3	79.1
2041	1,880.7	23,682,701.6	79.4
2042	2,149.6	24,050,913.4	89.4

Data reported in this section is Oregon allocated.

4 2023 IRP Preferred Portfolio (May) 2020 Protocol

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	331	14,506,597	23
2024	535	16,307,041	33
2025	569	17,360,433	33
2026	785	17,873,416	44
2027	879	18,909,955	47
2028	1,074	20,294,420	53
2029	1,120	20,625,973	54
2030	1,078	20,598,436	52
2031	1,222	21,152,414	58
2032	1,177	21,356,002	55
2033	1,188	21,492,223	55
2034	1,279	21,677,527	59
2035	1,316	21,895,711	60
2036	1,452	22,180,065	65
2037	1,610	22,410,957	72
2038	1,707	22,705,996	75
2039	1,811	23,013,903	79
2040	1,752	23,357,876	75
2041	1,786	23,682,702	75
2042	2,028	24,050,913	84

Data reported in this section is Oregon allocated.

5 CBRE Scenario-Pathway 1

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	540	16,307,041	33
2025	577	17,360,433	33
2026	800	17,873,416	45
2027	903	18,909,955	48
2028	1,096	20,294,420	54
2029	1,149	20,625,973	56
2030	1,103	20,598,436	54
2031	1,252	21,152,414	59
2032	1,267	21,356,002	59
2033	1,308	21,492,223	61
2034	1,409	21,677,527	65
2035	1,439	21,895,711	66
2036	1,570	22,180,065	71
2037	1,669	22,410,957	74
2038	1,820	22,705,996	80
2039	1,963	23,013,903	85
2040	2,097	23,357,876	90
2041	2,135	23,682,702	90
2042	2,408	24,050,913	100

Data reported in this section is Oregon allocated.

6 CBRE Scenario-Pathway 2

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	315	14,506,597	22
2024	495	16,307,041	30
2025	512	17,360,433	29
2026	880	17,873,416	49
2027	945	18,909,955	50
2028	1,190	20,294,420	59
2029	1,244	20,625,973	60
2030	1,160	20,598,436	56
2031	1,288	21,152,414	61
2032	1,304	21,356,002	61
2033	1,330	21,492,223	62
2034	1,424	21,677,527	66
2035	1,449	21,895,711	66
2036	1,588	22,180,065	72
2037	1,669	22,410,957	74
2038	1,801	22,705,996	79
2039	1,924	23,013,903	84
2040	2,051	23,357,876	88
2041	2,087	23,682,702	88
2042	2,322	24,050,913	97

Data reported in this section is Oregon allocated.

7 CBRE Scenario

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	540	16,307,041	33
2025	577	17,360,433	33
2026	800	17,873,416	45
2027	903	18,909,955	48
2028	1,096	20,294,420	54
2029	1,149	20,625,973	56
2030	1,124	20,598,436	55
2031	1,267	21,152,414	60
2032	1,229	21,356,002	58
2033	1,245	21,492,223	58
2034	1,335	21,677,527	62
2035	1,373	21,895,711	63
2036	1,505	22,180,065	68
2037	1,661	22,410,957	74
2038	1,756	22,705,996	77
2039	1,859	23,013,903	81
2040	1,852	23,357,876	79
2041	1,886	23,682,702	80
2042	2,155	24,050,913	90

Data reported in this section is Oregon allocated.

8 15% SSR Target Scenario-Pathway 1

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	537	16,307,041	33
2025	570	17,360,433	33
2026	789	17,873,416	44
2027	882	18,909,955	47
2028	1,078	20,294,420	53
2029	1,128	20,625,973	55
2030	1,105	20,598,436	54
2031	1,253	21,152,414	59
2032	1,275	21,356,002	60
2033	1,324	21,492,223	62
2034	1,417	21,677,527	65
2035	1,451	21,895,711	66
2036	1,578	22,180,065	71
2037	1,674	22,410,957	75
2038	1,825	22,705,996	80
2039	1,966	23,013,903	85
2040	2,136	23,357,876	91
2041	2,175	23,682,702	92
2042	2,461	24,050,913	102

Data reported in this section is Oregon allocated.

9 15% SSR Target Scenario-Pathway 2

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	315	14,506,597	22
2024	492	16,307,041	30
2025	505	17,360,433	29
2026	869	17,873,416	49
2027	923	18,909,955	49
2028	1,172	20,294,420	58
2029	1,222	20,625,973	59
2030	1,162	20,598,436	56
2031	1,288	21,152,414	61
2032	1,312	21,356,002	61
2033	1,344	21,492,223	63
2034	1,433	21,677,527	66
2035	1,461	21,895,711	67
2036	1,595	22,180,065	72
2037	1,675	22,410,957	75
2038	1,807	22,705,996	80
2039	1,928	23,013,903	84
2040	2,091	23,357,876	90
2041	2,128	23,682,702	90
2042	2,375	24,050,913	99

Data reported in this section is Oregon allocated.

10 15% SSR Target Scenario

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	537	16,307,041	33
2025	570	17,360,433	33
2026	789	17,873,416	44
2027	882	18,909,955	47
2028	1,078	20,294,420	53
2029	1,128	20,625,973	55
2030	1,123	20,598,436	55
2031	1,265	21,152,414	60
2032	1,232	21,356,002	58
2033	1,252	21,492,223	58
2034	1,342	21,677,527	62
2035	1,378	21,895,711	63
2036	1,508	22,180,065	68
2037	1,662	22,410,957	74
2038	1,759	22,705,996	77
2039	1,859	23,013,903	81
2040	1,893	23,357,876	81
2041	1,926	23,682,702	81
2042	2,209	24,050,913	92

Data reported in this section is Oregon allocated.

11 Accelerated SSR 2028 Target Scenario-Pathway 1

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	537	16,307,041	33
2025	570	17,360,433	33
2026	789	17,873,416	44
2027	884	18,909,955	47
2028	1,133	20,294,420	56
2029	1,184	20,625,973	57
2030	1,128	20,598,436	55
2031	1,274	21,152,414	60
2032	1,280	21,356,002	60
2033	1,319	21,492,223	61
2034	1,416	21,677,527	65
2035	1,447	21,895,711	66
2036	1,577	22,180,065	71
2037	1,674	22,410,957	75
2038	1,892	22,705,996	83
2039	2,040	23,013,903	89
2040	2,133	23,357,876	91
2041	2,171	23,682,702	92
2042	2,420	24,050,913	101

Data reported in this section is Oregon allocated.

12 Accelerated SSR 2028 Target Scenario-Pathway 2

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	315	14,506,597	22
2024	492	16,307,041	30
2025	505	17,360,433	29
2026	869	17,873,416	49
2027	926	18,909,955	49
2028	1,230	20,294,420	61
2029	1,281	20,625,973	62
2030	1,184	20,598,436	57
2031	1,309	21,152,414	62
2032	1,317	21,356,002	62
2033	1,340	21,492,223	62
2034	1,431	21,677,527	66
2035	1,457	21,895,711	67
2036	1,594	22,180,065	72
2037	1,674	22,410,957	75
2038	1,873	22,705,996	82
2039	1,999	23,013,903	87
2040	2,087	23,357,876	89
2041	2,124	23,682,702	90
2042	2,334	24,050,913	97

Data reported in this section is Oregon allocated.

13 Accelerated SSR 2028 Target Scenario

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	537	16,307,041	33
2025	570	17,360,433	33
2026	789	17,873,416	44
2027	884	18,909,955	47
2028	1,133	20,294,420	56
2029	1,184	20,625,973	57
2030	1,144	20,598,436	56
2031	1,285	21,152,414	61
2032	1,240	21,356,002	58
2033	1,254	21,492,223	58
2034	1,343	21,677,527	62
2035	1,380	21,895,711	63
2036	1,511	22,180,065	68
2037	1,666	22,410,957	74
2038	1,829	22,705,996	81
2039	1,934	23,013,903	84
2040	1,888	23,357,876	81
2041	1,922	23,682,702	81
2042	2,167	24,050,913	90

Data reported in this section is Oregon allocated.

14 No Purchases 2040 Scenario-Pathway 1

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	536	16,307,041	33
2025	571	17,360,433	33
2026	785	17,873,416	44
2027	883	18,909,955	47
2028	1,053	20,294,420	52
2029	1,120	20,625,973	54
2030	1,045	20,598,436	51
2031	1,184	21,152,414	56
2032	1,232	21,356,002	58
2033	1,295	21,492,223	60
2034	1,394	21,677,527	64
2035	1,426	21,895,711	65
2036	1,555	22,180,065	70
2037	1,654	22,410,957	74
2038	1,814	22,705,996	80
2039	1,961	23,013,903	85
2040	2,198	23,357,876	94
2041	2,250	23,682,702	95
2042	2,537	24,050,913	106

Data reported in this section is Oregon allocated.

15 No Purchases 2040 Scenario-Pathway 2

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	315	14,506,597	22
2024	492	16,307,041	30
2025	506	17,360,433	29
2026	865	17,873,416	48
2027	925	18,909,955	49
2028	1,147	20,294,420	57
2029	1,214	20,625,973	59
2030	1,115	20,598,436	54
2031	1,237	21,152,414	58
2032	1,274	21,356,002	60
2033	1,316	21,492,223	61
2034	1,408	21,677,527	65
2035	1,435	21,895,711	66
2036	1,572	22,180,065	71
2037	1,654	22,410,957	74
2038	1,792	22,705,996	79
2039	1,917	23,013,903	83
2040	2,127	23,357,876	91
2041	2,174	23,682,702	92
2042	2,420	24,050,913	101

Data reported in this section is Oregon allocated.

16 No Purchases 2040 Scenario

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)	Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (nominal \$/MWh)
2019	n/a	13,088,664	n/a
2020	n/a	12,993,459	n/a
2021	n/a	13,510,323	n/a
2022	n/a	13,700,592	n/a
2023	333	14,506,597	23
2024	536	16,307,041	33
2025	571	17,360,433	33
2026	785	17,873,416	44
2027	883	18,909,955	47
2028	1,053	20,294,420	52
2029	1,120	20,625,973	54
2030	1,097	20,598,436	53
2031	1,240	21,152,414	59
2032	1,205	21,356,002	56
2033	1,225	21,492,223	57
2034	1,315	21,677,527	61
2035	1,353	21,895,711	62
2036	1,485	22,180,065	67
2037	1,640	22,410,957	73
2038	1,737	22,705,996	77
2039	1,840	23,013,903	80
2040	1,950	23,357,876	83
2041	1,995	23,682,702	84
2042	2,276	24,050,913	95

Instructions

Provide, for renewable energy generated by or contracted to the utility in the Preferred Portfolio under the Reference Case over the entire analysis horizon (at least 20 years), the following information:.

- RECs that are expected to be retired on behalf of Oregon customer load for RPS compliance in Oregon
- RECs that are expected to be retired on behalf of Oregon customer load for voluntary sales
- RECs that are expected to be retired on behalf of customer load in a different state where the utility serves customers (for either compliance or voluntary sales)
- RECs that are expected to be banked for future Oregon compliance
- RECs that are expected to be banked for compliance in a different state
- The approximate number of MWhs not associated with RECs reported above that are generated from renewable energy technologies

A portion of Oregon's system is partially served by nonemitting energy enabled by customer voluntary programs, and the Company does not retain REC claims from this generation. The quantity of load associated with these customer programs is considered commercially sensitive and is not disclosed.

UM 2225 Order Summary/Rubric references: J.6(a)-(b)

All reported MWh/RECs in this table are Oregon-allocated MWh/RECs and are based on the definition of renewable as described in ORS 469A.025.
For all forecasted REC quantities in the tables below, PacifiCorp shows the forecasted REC retirements. Actual retirements have to occur after the generation has occurred and RECs are created in the Western Renewable Energy Generation Information System (WREGIS).

CEP Portfolio-Pathway 1						
Year	Retired for Oregon RPS compliance	Retired for Oregon customer voluntary sales	Retired in another state	Banked for future Oregon RPS compliance	Banked for future compliance in another state	Additional renewable generation (MWh)
2023	2,901,319	1,964,681	n/a	510,408	n/a	A portion of Oregon's system is partially served by nonemitting energy enabled by customer voluntary programs, and the Company does not retain REC claims from this generation. The quantity of load associated with these customer programs is considered commercially sensitive and is not disclosed.
2024	3,261,408	1,948,253	n/a	539,616	n/a	
2025	4,687,317	1,951,374	n/a	2,466,688	n/a	
2026	4,825,822	1,934,604	n/a	4,435,854	n/a	
2027	5,105,688	1,929,221	n/a	4,985,569	n/a	
2028	5,479,493	1,896,758	n/a	6,985,266	n/a	
2029	5,569,013	1,780,445	n/a	9,415,747	n/a	
2030	7,209,453	1,754,501	n/a	8,293,415	n/a	
2031	7,403,345	1,700,270	n/a	8,126,786	n/a	
2032	7,474,601	1,183,404	n/a	11,978,990	n/a	
2033	7,522,278	1,233,188	n/a	13,049,332	n/a	
2034	7,587,134	1,240,927	n/a	12,984,319	n/a	
2035	9,853,070	1,337,644	n/a	10,870,666	n/a	
2036	9,981,029	1,508,031	n/a	10,689,509	n/a	
2037	10,084,931	1,479,025	n/a	11,085,079	n/a	
2038	10,217,698	1,495,980	n/a	10,885,293	n/a	
2039	10,356,256	1,497,349	n/a	10,483,597	n/a	
2040	11,678,938	1,534,553	n/a	9,360,063	n/a	
2041	11,841,351	1,549,516	n/a	9,098,679	n/a	
2042	12,025,457	1,555,543	n/a	8,928,337	n/a	

CEP Portfolio-Pathway 2						
Year	Retired for Oregon RPS compliance	Retired for Oregon customer voluntary sales	Retired in another state	Banked for future Oregon RPS compliance	Banked for future compliance in another state	Additional renewable generation (MWh)
2023	2901319.438	1,964,681	n/a	546,816	n/a	A portion of Oregon's system is partially served by nonemitting energy enabled by customer voluntary programs, whereby the company does not retain REC claims. The quantity of load associated with these customer programs is considered commercially sensitive and is not disclosed.
2024	3261408.21	1,948,253	n/a	530,851	n/a	
2025	4687316.779	1,951,374	n/a	2,037,020	n/a	
2026	4825822.386	1,934,604	n/a	3,698,657	n/a	
2027	5105687.901	1,929,221	n/a	3,842,552	n/a	
2028	5479493.383	1,896,758	n/a	5,165,721	n/a	
2029	5569012.753	1,780,445	n/a	7,111,007	n/a	
2030	7209452.601	1,754,501	n/a	7,014,496	n/a	
2031	7403345.021	1,700,270	n/a	6,953,400	n/a	
2032	7474600.586	1,183,404	n/a	11,057,226	n/a	
2033	7522278.213	1,233,188	n/a	12,561,864	n/a	
2034	7587134.36	1,240,927	n/a	12,399,183	n/a	
2035	9853069.974	1,337,644	n/a	10,359,912	n/a	
2036	9981029.207	1,508,031	n/a	10,295,974	n/a	
2037	10084930.73	1,479,025	n/a	10,589,779	n/a	
2038	10217698.37	1,495,980	n/a	10,420,160	n/a	
2039	10356256.28	1,497,349	n/a	9,965,411	n/a	
2040	11678938.17	1,534,553	n/a	8,536,168	n/a	
2041	11841350.81	1,549,516	n/a	8,304,116	n/a	
2042	12025456.71	1,555,543	n/a	8,282,825	n/a	