

## PacifiCorp's 2025 Clean Energy Plan Data Template

- Purpose:** This spreadsheet contains supporting data for PacifiCorp's 2025 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 21-year projections, for years 2025 through 2045, 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 Portfolios are based on modeled proxy resources over the 21-year planning horizon. Actual resources and actions could differ substantially from the proxy resources that are selected in each CEP Portfolio based on actual resource availability and costs.
  - The CEP Portfolios are based on the company's current assumptions regarding forecasted load, and these assumptions could change materially based on increased electrification and large load growth in PacifiCorp's service territory.
  - 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. For example, cost estimates were based on then-current federal tax credits, but significant changes to federal policy will impact actual resource costs. Additionally, changes in actual market conditions and results from a Request for Proposals process will further determine actual resource costs and decisions. 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.
- Contact:** For general inquiries or accessibility questions, please contact [OregonCEP@PacifiCorp.com](mailto:OregonCEP@PacifiCorp.com).
- Based on:** DRAFT CEP/IRP Data Template  
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**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	2025 CEP Preferred Portfolio
Index	Portfolio list
1	2025 CEP Preferred Portfolio
2	Hourly Clean Portfolio
3	No HB2021 Counterfactual
4	No HB2021-SSR Counterfactual
5	CBRE Valuation Study
6	Max. Customer Benefit
7	In-State Resources
8	Accelerated Resources



**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-allocated.

"Clean energy resources - system" includes existing and proxy renewables were only modeled in portfolios 5 and 6, but that is not indicative of actual retirements that occur while Oregon customers are still allocated to that

1 2025 CEP Preferred Portfolio

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,677
2026	2,731	590	282	284,985
2027	2,718	599	280	523,633
2028	2,690	586	461	929,192
2029	2,852	629	459	1,029,723
2030	4,992	724	1,176	1,684,636
2031	5,073	721	1,173	1,698,102
2032	5,192	725	1,172	1,942,187
2033	5,390	744	1,208	2,111,662
2034	5,582	761	1,216	2,014,241
2035	5,845	786	1,242	1,954,590
2036	6,124	804	1,321	1,975,167
2037	6,365	807	1,457	2,096,886
2038	6,703	865	1,604	2,364,994
2039	6,955	854	1,719	2,566,085
2040	7,238	877	2,944	2,677,713
2041	7,401	1,132	3,127	2,676,956
2042	7,552	1,286	3,398	3,033,196
2043	7,627	1,318	3,768	3,284,089
2044	7,688	1,332	3,945	3,562,172
2045	7,882	1,357	4,122	3,524,962

2 Hourly Clean Portfolio

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,677
2026	2,731	590	282	284,946
2027	2,718	599	280	523,782
2028	2,688	586	462	927,898
2029	2,711	629	459	1,001,218
2030	4,998	727	1,137	1,498,764
2031	5,086	724	1,134	1,534,521
2032	5,205	725	1,133	1,804,503
2033	5,411	745	1,144	1,985,505
2034	5,595	761	1,157	1,839,802
2035	17,042	1,944	1,537	4,495,656
2036	18,165	2,047	1,917	4,998,081
2037	18,480	2,057	2,294	5,506,283
2038	18,510	2,073	2,674	6,181,632
2039	18,523	2,081	3,053	6,793,022
2040	18,552	2,094	3,379	7,208,196
2041	18,478	2,113	3,606	7,361,956
2042	18,494	2,132	3,685	7,690,910
2043	18,469	2,096	4,033	8,027,273
2044	18,453	2,110	4,230	8,178,207
2045	18,507	2,135	4,456	8,577,436

3 No HB2021 Counterfactual

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,676
2026	2,731	590	282	285,066
2027	2,718	599	280	523,598
2028	2,688	586	462	927,075

2029	2,711	629	459	1,020,177
2030	3,936	602	1,273	1,533,832
2031	3,898	604	1,278	1,576,892
2032	3,968	603	1,276	1,792,220
2033	4,128	618	1,333	1,917,129
2034	4,276	631	1,382	1,913,713
2035	4,468	648	1,417	1,924,318
2036	4,663	658	1,506	1,951,524
2037	4,833	654	1,650	2,066,961
2038	5,089	675	1,805	2,258,529
2039	5,286	687	1,925	2,376,590
2040	5,499	884	3,129	2,418,358
2041	5,624	1,101	3,286	2,434,848
2042	5,739	1,219	3,494	2,791,188
2043	5,789	1,195	3,799	3,040,948
2044	5,798	1,209	3,979	3,204,721
2045	5,959	1,234	4,134	3,200,981

4 No HB2021-SSR Counterfactual

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,676
2026	2,731	590	282	285,070
2027	2,718	599	280	523,701
2028	2,688	586	462	929,008
2029	2,711	629	459	1,023,692
2030	3,783	449	1,273	1,514,057
2031	3,741	446	1,278	1,555,177
2032	3,802	436	1,276	1,767,673
2033	3,946	436	1,333	1,898,398
2034	4,081	435	1,382	1,892,725
2035	4,253	434	1,417	1,898,833
2036	4,430	425	1,506	1,927,690

2037	4,578	399	1,650	2,035,436
2038	4,810	395	1,805	2,215,272
2039	4,983	384	1,925	2,319,769
2040	4,999	384	3,129	2,346,381
2041	4,904	382	3,286	2,337,303
2042	4,902	382	3,494	2,678,726
2043	4,923	330	3,799	2,907,141
2044	4,914	326	3,979	2,931,738
2045	5,050	325	4,134	3,054,673

5 CBRE Valuation Study

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,677
2026	2,731	590	282	284,985
2027	2,718	599	280	523,727
2028	2,690	586	461	931,248
2029	2,852	629	459	1,032,994
2030	4,992	724	1,176	1,685,600
2031	5,073	721	1,173	1,698,438
2032	5,192	725	1,172	1,944,250
2033	5,390	744	1,208	2,114,977
2034	5,582	761	1,216	2,017,676
2035	5,845	786	1,242	1,958,842
2036	6,124	804	1,321	1,975,914
2037	6,365	807	1,457	2,097,670
2038	6,703	865	1,604	2,366,791
2039	6,955	854	1,719	2,571,633
2040	7,238	877	2,944	2,683,018
2041	7,401	1,132	3,127	2,679,253
2042	7,552	1,286	3,398	3,036,863
2043	7,627	1,318	3,768	3,287,189
2044	7,688	1,332	3,945	3,566,687

2045	7,882	1,357	4,122	3,527,629
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6 Max. Customer Benefit

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources
	2025	2,357	580	1
2026	2,731	590	282	284,985
2027	2,718	599	280	525,966
2028	2,688	586	277	902,692
2029	2,711	629	275	975,234
2030	4,983	1,490	722	1,501,478
2031	4,922	1,499	719	1,519,507
2032	4,942	1,510	718	1,699,096
2033	4,989	1,530	718	1,792,215
2034	5,043	1,551	719	1,738,803
2035	5,096	1,573	720	1,677,980
2036	5,152	1,588	723	1,664,177
2037	5,160	1,593	722	1,664,359
2038	5,252	1,630	747	1,774,506
2039	5,317	1,655	783	1,860,521
2040	5,387	1,682	1,963	2,101,875
2041	5,372	1,720	2,066	2,072,713
2042	5,443	1,757	2,188	2,431,911
2043	5,464	1,736	2,664	2,620,069
2044	5,475	1,768	2,788	2,729,368
2045	5,590	1,816	2,960	2,853,724

7 In-State Resources

Year	Clean energy resources (MWa) System resources	Clean energy resources (MWa) Voluntary programs	Energy Storage (MW) System resources	Energy Storage (MWh) System resources
	2025	2,357	580	1
2026	2,731	590	282	285,064

2027	2,718	599	280	525,593
2028	2,688	586	282	905,842
2029	3,156	629	279	988,581
2030	6,475	886	689	1,603,382
2031	7,468	961	687	1,735,878
2032	7,948	1,001	685	2,151,431
2033	8,408	1,046	686	2,312,114
2034	8,780	1,081	687	2,531,697
2035	9,151	1,116	688	2,529,289
2036	9,159	1,107	690	2,462,395
2037	9,585	1,129	689	2,262,689
2038	9,596	1,125	691	2,391,100
2039	9,590	1,114	692	2,464,395
2040	10,280	1,323	1,582	3,007,523
2041	10,207	1,342	1,817	3,023,628
2042	10,223	1,361	1,867	3,243,959
2043	10,197	1,325	2,306	3,426,115
2044	10,155	1,339	2,446	3,556,990
2045	10,198	1,364	2,710	3,789,782

#### 8 Accelerated Resources

Year	Clean energy resources (MWa)	Clean energy resources (MWa)	Energy Storage (MW)	Energy Storage (MWh)
	System resources	Voluntary programs	System resources	System resources
2025	2,357	580	1	1,676
2026	2,731	590	282	285,108
2027	2,718	599	280	523,735
2028	3,074	586	461	990,955
2029	3,619	629	459	1,110,719
2030	4,992	724	1,176	1,685,478
2031	5,073	721	1,173	1,698,793
2032	5,192	725	1,172	1,943,297
2033	5,390	744	1,208	2,110,572
2034	5,582	761	1,216	2,014,820

2035	5,845	786	1,242	1,955,915
2036	6,124	804	1,321	1,976,225
2037	6,365	807	1,457	2,096,875
2038	6,703	865	1,604	2,363,532
2039	6,955	854	1,719	2,566,565
2040	7,238	877	2,944	2,676,623
2041	7,401	1,132	3,127	2,676,781
2042	7,552	1,286	3,398	3,035,424
2043	7,627	1,318	3,768	3,286,501
2044	7,688	1,332	3,945	3,567,119
2045	7,882	1,357	4,122	3,522,878

le, non-emitting and storage resources. "Clean energy resources - voluntary" includes proxy small-scale renewables and qualifying facilities. For actual CBRE projects expected to come online, please see the 2025 Clean Energy Plan, Chapter 6 for more information. Note that "retirement" represents a unit. "Operational changes" represents Oregon-allocated share of existing coal and natural-gas-fueled units over time.

Energy Storage (MW)	Energy Storage (MWh)	Energy Efficiency (MWa)	Demand Response (MW)	CBREs (MW or MWa)
Voluntary programs	Voluntary programs			System resources
1	1,038	56	58	0
1	1,105	81	58	0
1	976	178	58	0
1	688	279	106	0
1	722	386	120	0
1	850	500	127	0
1	1,024	615	127	0
1	1,083	725	132	0
1	1,119	837	133	0
0	0	945	136	0
0	0	1,054	139	0
0	0	1,165	150	0
0	0	1,275	150	0
0	0	1,381	162	0
0	0	1,483	166	0
0	0	1,599	189	0
0	0	1,722	192	0
0	0	1,828	192	0
0	0	1,942	201	0
0	0	2,034	201	0
0	0	2,124	209	0

Energy Storage (MW)	Energy Storage (MWh)			CBREs (MW or MWa)
Voluntary programs	Voluntary programs	Energy Efficiency (MWa)	Demand Response (MW)	System resources
1	1,039	56	58	0
1	1,109	81	58	0
1	976	178	58	0
1	668	279	106	0
1	721	386	122	0
1	841	500	129	0
1	1,029	615	129	0
1	1,105	725	134	0
1	1,114	837	135	0
0	0	945	138	0
0	0	1,054	141	0
0	0	1,165	152	0
0	0	1,275	152	0
0	0	1,381	164	0
0	0	1,483	168	0
0	0	1,599	191	0
0	0	1,722	194	0
0	0	1,828	194	0
0	0	1,942	203	0
0	0	2,034	203	0
0	0	2,124	211	0

Energy Storage (MW)	Energy Storage (MWh)			CBREs (MW or MWa)
Voluntary programs	Voluntary programs	Energy Efficiency (MWa)	Demand Response (MW)	System resources
1	1,038	56	58	0
1	1,106	81	58	0
1	978	178	58	0
1	686	279	106	0

1	720	386	120	0
1	764	500	127	0
1	939	615	127	0
1	963	725	132	0
1	975	837	133	0
0	0	945	136	0
0	0	1,054	139	0
0	0	1,165	150	0
0	0	1,275	150	0
0	0	1,381	162	0
0	0	1,483	166	0
0	0	1,599	189	0
0	0	1,722	192	0
0	0	1,828	192	0
0	0	1,942	201	0
0	0	2,034	201	0
0	0	2,124	209	0

Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency (MWa)	Demand Response (MW)	CBREs (MW or MWa) System resources
1	1,038	56	58	0
1	1,106	81	58	0
1	975	178	58	0
1	686	279	106	0
1	719	386	122	0
1	737	500	129	0
1	931	615	129	0
1	939	725	134	0
1	961	837	135	0
0	0	945	138	0
0	0	1,054	141	0
0	0	1,165	152	0

0	0	1,275	152	0
0	0	1,381	164	0
0	0	1,483	168	0
0	0	1,599	191	0
0	0	1,722	194	0
0	0	1,828	194	0
0	0	1,942	203	0
0	0	2,034	203	0
0	0	2,124	211	0

Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency (MWh)	Demand Response (MW)	CBREs (MW or MWh) System resources
1	1,038	56	58	0
1	1,105	81	58	0
1	975	178	58	0
1	691	279	106	20
1	710	386	122	20
1	852	500	129	100
1	1,027	615	129	100
1	1,093	725	134	100
1	1,115	837	135	100
0	0	945	138	100
0	0	1,054	141	100
0	0	1,165	152	100
0	0	1,275	152	100
0	0	1,381	164	100
0	0	1,483	168	100
0	0	1,599	191	100
0	0	1,722	194	100
0	0	1,828	194	100
0	0	1,942	203	100
0	0	2,034	203	100

0	0	2,124	211	100
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Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency (MWh)	Demand Response (MW)	CBREs (MW or MWh) System resources
1	1,038	56	58	0
1	1,107	81	58	0
1	971	314	58	0
1	698	561	96	20
1	750	821	96	20
1	928	1,103	209	100
1	1,015	1,383	209	100
1	1,061	1,650	209	100
1	1,078	1,926	209	100
0	0	2,190	209	100
0	0	2,459	209	100
0	0	2,737	209	100
0	0	3,010	209	100
0	0	3,273	269	100
0	0	3,528	277	100
0	0	3,780	326	100
0	0	4,046	334	100
0	0	4,313	341	100
0	0	4,561	348	100
0	0	4,792	357	100
0	0	4,987	364	100

Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency (MWh)	Demand Response (MW)	CBREs (MW or MWh) System resources
1	1,038	56	58	0
1	1,107	81	58	0

1	973	275	58	0
1	696	477	136	0
1	790	691	136	0
1	1,025	920	147	0
1	1,326	1,122	147	0
1	1,570	1,316	147	0
1	1,794	1,516	147	0
0	0	1,731	147	0
0	0	1,949	147	0
0	0	2,171	147	0
0	0	2,390	147	0
0	0	2,602	147	0
0	0	2,807	147	0
0	0	3,008	323	0
0	0	3,218	334	0
0	0	3,431	341	0
0	0	3,628	348	0
0	0	3,813	357	0
0	0	3,969	364	0

Energy Storage (MW) Voluntary programs	Energy Storage (MWh) Voluntary programs	Energy Efficiency (MWa)	Demand Response (MW)	CBREs (MW or MWa) System resources	
1	1,038	56	58	0	
1	1,106	81	58	0	
1	975	178	58	0	
1	698	279	106	0	
1	794	386	122	0	
1	852	500	129	0	
1	1,026	615	129	0	
1	1,086	725	134	0	
1	1,116	837	135	0	
0	0	945	138	0	

0	0	1,054	141	0
0	0	1,165	152	0
0	0	1,275	152	0
0	0	1,381	164	0
0	0	1,483	168	0
0	0	1,599	191	0
0	0	1,722	194	0
0	0	1,828	194	0
0	0	1,942	203	0
0	0	2,034	203	0
0	0	2,124	211	0

s. CBRE resources  
 ts" only includes

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes (MW)	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0	0	132		1,890
0	Hayden 2	132		1,870
0	Hayden 1, Craig 2	1,022		1,782
0	Colstrip 4	1,025		1,720
0	0	1,390		1,110
0	0	1,420		1,110
0	0	1,483		1,110
0	0	1,569		1,110
0	0	1,606		1,110
0	0	1,606		1,110
0	0	1,606		1,110
0	0	1,606		1,110
0	0	1,606		1,110
0	0	2,381		1,110
0	0	2,381		0
0	0	2,381		0
0	0	2,383		0
0	0	2,429		0
0	0	2,458		0
0	0	2,501		0

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0	0	132		1,890
0	Hayden 2	132		1,870
0	Hayden 1, Craig 2	992		1,782
0	Colstrip 4	1,004		1,720
0	0	1,388		1,110
0	0	1,418		1,110
0	0	1,483		1,110
0	0	1,540		1,110
0	0	1,588		1,110
0	0	4,638		1,110
0	0	5,407		1,110
0	0	5,686		1,110
0	0	5,686		1,110
0	0	5,686		1,110
0	0	5,686		0
0	0	5,686		0
0	0	5,686		0
0	0	5,686		0
0	0	5,686		0
0	0	5,686		0
0	0	5,686		0

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0	0	132		1,890
0	Hayden 2	132		1,870
0	Hayden 1, Craig 2	1,002		1,782

0	Colstrip 4	1,005	1,720
0	0	1,256	1,110
0	0	1,286	1,110
0	0	1,327	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	1,342	1,110
0	0	2,134	1,110
0	0	2,134	1,110

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0	0	132		1,890
0	Hayden 2	132		1,870
0	Hayden 1, Craig 2	1,004		1,782
0	Colstrip 4	1,004		1,720
0	0	1,255		1,110
0	0	1,285		1,110
0	0	1,327		1,110
0	0	1,341		1,110
0	0	1,341		1,110
0	0	1,341		1,110
0	0	1,341		1,110

0	0	1,341	1,110
0	0	1,341	1,110
0	0	1,341	1,110
0	0	1,341	1,110
0	0	1,341	1,110
0	0	1,343	1,110
0	0	1,343	1,110
0	0	2,135	1,110
0	0	2,135	1,110

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer capacity to 4), Craig 1	0		1,901
0	0	132		1,890
0	Hayden 2	132		1,870
20	Hayden 1, Craig 2	1,025		1,782
20	Colstrip 4	1,025		1,720
100	0	1,389		1,110
100	0	1,419		1,110
100	0	1,483		1,110
100	0	1,569		1,110
100	0	1,606		1,110
100	0	1,606		1,110
100	0	1,606		1,110
100	0	1,606		1,110
100	0	1,606		1,110
100	0	2,381		1,110
100	0	2,381		0
100	0	2,382		0
100	0	2,382		0
100	0	2,414		0
100	0	2,454		0

100	0	2,505	0
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CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0		132		1,890
0	Hayden 2	132		1,870
20	Hayden 1, Craig 2	992		1,782
20	Colstrip 4	1,004		1,720
100		1,101		1,110
100		1,131		1,110
100		1,131		1,110
100		1,131		1,110
100		1,131		1,110
100		1,142		1,110
100		1,142		1,110
100		1,142		1,110
100		1,142		1,110
100		1,142		1,110
100		1,173		1,110
100		1,173		0
100		1,173		0
100		1,173		0
100		1,173		0
100		1,173		0
100		1,173		0
100		1,173		0

CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer			
0	capacity to 4), Craig 1	0		1,901
0		132		1,890

0	Hayden 2	132	1,870
0	Hayden 1, Craig 2	992	1,782
0	Colstrip 4	1,004	1,720
0	0	2,021	1,110
0	0	2,050	1,110
0	0	2,337	1,110
0	0	2,337	1,110
0	0	3,263	1,110
0	0	3,263	1,110
0	0	3,263	1,110
0	0	3,441	1,110
0	0	3,441	1,110
0	0	3,441	1,110
0	0	3,441	0
0	0	3,441	0
0	0	3,441	0
0	0	3,441	0
0	0	3,441	0
0	0	3,441	0

#### CBREs (MW or MWa)

Voluntary programs	Retirements (list unit)	Transmission Projects	Operational Changes	Other
	Colstrip 3 (transfer capacity to 4), Craig 1	0	1,901	
0	0	132	1,890	
0	Hayden 2	132	1,870	
0	Hayden 1, Craig 2	1,030	1,782	
0	Colstrip 4	1,082	1,720	
0	0	1,389	1,110	
0	0	1,419	1,110	
0	0	1,483	1,110	
0	0	1,569	1,110	
0	0	1,606	1,110	

0	0	1,606	1,110
0	0	1,606	1,110
0	0	1,606	1,110
0	0	1,606	1,110
0	0	2,381	1,110
0	0	2,381	0
0	0	2,383	0
0	0	2,383	0
0	0	2,409	0
0	0	2,449	0
0	0	2,500	0

**Instructions**

For each of the portfolios listed on the "Portfolios" tab, list the annual GHG emissions based on the DEQ methodology. For each year, break out the contributions of individual fossil fuel resources, market purchases, and market sales to the total. UM 2225 Order Summary/Rubric references: C.4(a)

Data reported in this section is Oregon-allocated.

Note - the emissions from Market Purchases and Market Sales GHG Emissions category represent

1 2025 CEP Preferred Portfolio

[\(OAR 340-215\)](#)

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,385,278	456,630	N/A
2026	6,457,194	309,813	N/A
2027	6,269,548	301,683	N/A
2028	6,430,636	537,467	N/A
2029	6,308,955	679,281	N/A
2030	1,383,402	786,354	N/A
2031	1,282,431	670,522	N/A
2032	1,098,594	568,102	N/A
2033	1,103,987	697,272	N/A
2034	1,026,654	652,944	N/A
2035	884,184	754,579	N/A
2036	257,313	59,970	N/A
2037	167,286	-	N/A
2038	137,228	-	N/A
2039	76,882	-	N/A
2040	-	-	N/A
2041	-	-	N/A
2042	-	-	N/A
2043	-	-	N/A
2044	-	-	N/A
2045	-	-	-

2 Hourly Clean Portfolio

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,384,979	456,614	N/A
2026	6,457,394	309,731	N/A
2027	6,269,436	301,648	N/A
2028	6,434,670	542,735	N/A
2029	6,486,902	694,100	N/A
2030	1,400,338	803,855	N/A
2031	1,289,648	687,667	N/A
2032	1,108,423	589,484	N/A
2033	1,143,828	740,003	N/A
2034	1,048,363	680,161	N/A
2035	148,240	371,325	N/A
2036	24,944	-	N/A
2037	18,363	-	N/A
2038	19,138	-	N/A
2039	11,132	-	N/A
2040	-	-	N/A
2041	-	-	N/A
2042	-	-	N/A
2043	-	-	N/A
2044	-	-	N/A
2045	-	-	-

3 No HB2021 Counterfactual

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,385,661	456,543	N/A
2026	6,436,312	309,762	N/A
2027	6,234,428	301,590	N/A
2028	6,409,386	537,629	N/A
2029	6,471,265	692,646	N/A
2030	2,401,731	1,662,444	N/A

2031	2,492,201	1,766,350	N/A
2032	2,395,467	1,773,065	N/A
2033	2,200,477	1,646,362	N/A
2034	2,085,236	1,554,244	N/A
2035	1,983,719	1,490,407	N/A
2036	1,886,399	1,387,500	N/A
2037	1,695,350	1,138,461	N/A
2038	1,551,049	985,530	N/A
2039	1,535,105	985,177	N/A
2040	1,565,193	1,009,504	N/A
2041	1,646,560	1,092,126	N/A
2042	1,783,181	1,293,538	N/A
2043	1,923,663	1,402,209	N/A
2044	2,037,579	1,519,025	N/A
2045	1,984,965	1,500,304	

4 No HB2021-SSR Counterfactual

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,385,797	456,546	N/A
2026	6,436,089	309,751	N/A
2027	6,232,777	301,679	N/A
2028	6,409,015	537,365	N/A
2029	6,473,420	693,290	N/A
2030	2,578,483	1,834,567	N/A
2031	2,673,511	1,936,294	N/A
2032	2,585,667	1,955,151	N/A
2033	2,408,275	1,840,065	N/A
2034	2,307,280	1,762,181	N/A
2035	2,224,298	1,714,723	N/A
2036	2,146,066	1,631,081	N/A
2037	1,976,745	1,402,815	N/A
2038	1,844,065	1,261,010	N/A
2039	1,767,177	1,173,212	N/A

2040	1,851,700	1,198,047	N/A
2041	2,053,474	1,347,436	N/A
2042	2,133,758	1,416,739	N/A
2043	2,301,513	1,538,135	N/A
2044	2,402,382	1,616,477	N/A
2045	2,380,406	1,635,066	

5 CBRE Valuation Study

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,385,278	456,630	N/A
2026	6,457,163	309,813	N/A
2027	6,268,087	301,678	N/A
2028	6,401,003	535,472	N/A
2029	6,280,454	677,478	N/A
2030	1,369,602	782,211	N/A
2031	1,270,446	666,907	N/A
2032	1,088,695	564,969	N/A
2033	1,099,562	693,188	N/A
2034	1,023,539	649,490	N/A
2035	876,019	750,752	N/A
2036	226,146	29,833	N/A
2037	165,509	-	N/A
2038	136,136	-	N/A
2039	76,222	-	N/A
2040	-	-	N/A
2041	-	-	N/A
2042	-	-	N/A
2043	-	-	N/A
2044	-	-	N/A
2045	-	-	

6 Max. Customer Benefit

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,462,251	456,630	N/A
2026	6,534,515	309,800	N/A
2027	6,243,341	296,089	N/A
2028	6,276,880	519,080	N/A
2029	6,211,295	652,236	N/A
2030	1,388,996	752,322	N/A
2031	1,360,336	693,047	N/A
2032	1,248,863	679,150	N/A
2033	1,162,661	665,902	N/A
2034	1,107,104	643,276	N/A
2035	977,788	768,995	N/A
2036	957,451	744,975	N/A
2037	886,831	697,719	N/A
2038	808,579	653,937	N/A
2039	752,625	666,386	N/A
2040	665,689	665,689	N/A
2041	737,881	737,881	N/A
2042	658,179	658,179	N/A
2043	629,780	629,780	N/A
2044	627,162	627,162	N/A
2045	553,426	553,426	

7 In-State Resources

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,462,251	456,630	N/A
2026	6,534,821	309,809	N/A
2027	6,257,349	296,915	N/A
2028	6,335,503	523,020	N/A
2029	5,753,967	615,439	N/A
2030	923,813	611,039	N/A
2031	681,902	452,220	N/A

2032	520,140	347,933	N/A
2033	501,149	427,937	N/A
2034	436,297	407,704	N/A
2035	362,199	471,945	N/A
2036	81,716	-	N/A
2037	69,505	-	N/A
2038	61,971	-	N/A
2039	38,291	-	N/A
2040	-	-	N/A
2041	-	-	N/A
2042	-	-	N/A
2043	-	-	N/A
2044	-	-	N/A
2045	-	-	-

8 Accelerated Resources

Contribution from...

Year	Total GHG Emissions (metric tons)	Market Purchases (metric tons)	Market sales (metric tons)
2025	6,385,341	456,641	N/A
2026	6,456,773	309,796	N/A
2027	6,269,825	301,731	N/A
2028	6,039,991	513,065	N/A
2029	5,541,169	604,296	N/A
2030	1,383,170	785,130	N/A
2031	1,280,801	669,380	N/A
2032	1,097,223	567,099	N/A
2033	1,108,438	696,036	N/A
2034	1,029,099	652,134	N/A
2035	882,248	753,304	N/A
2036	258,092	61,216	N/A
2037	167,267	-	N/A
2038	137,625	-	N/A
2039	77,258	-	N/A
2040	-	-	N/A

2041	-	-	N/A
2042	-	-	N/A
2043	-	-	N/A
2044	-	-	N/A
2045	-	-	-



Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,043,469	398,109	5,871,209
1,045,422	199,115	6,028,477
1,020,670	251,176	5,856,675
796,793	155,850	5,863,654
606,363	104,423	5,719,951
581,165	70,747	-
562,362	77,951	-
481,635	62,323	-
437,155	58,567	-
408,141	57,346	-
71,648	-	-
77,147	-	-
57,168	-	-
58,857	-	-
33,712	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,043,717	399,756	5,871,296
1,044,930	198,925	6,028,737
1,021,858	251,802	5,856,535
795,574	156,023	5,865,519
605,235	103,860	5,719,814
664,041	75,246	-

636,874	88,976	-
559,355	63,047	-
502,147	51,967	-
479,844	51,148	-
444,072	49,240	-
450,640	48,258	-
506,105	50,783	-
517,123	53,109	-
524,428	55,340	-
571,776	61,306	-
613,515	60,277	-
657,888	34,012	-
715,717	63,064	-
738,610	71,548	-
690,786	72,711	-

Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,044,129	399,724	5,871,311
1,045,399	198,939	6,028,363
1,017,466	249,836	5,856,422
794,711	154,912	5,866,376
603,904	103,663	5,719,359
665,368	78,548	-
645,431	91,786	-
564,769	65,746	-
507,762	60,448	-
485,364	59,735	-
452,883	56,693	-
459,554	55,431	-
518,147	55,783	-
523,608	59,446	-
532,859	61,107	-

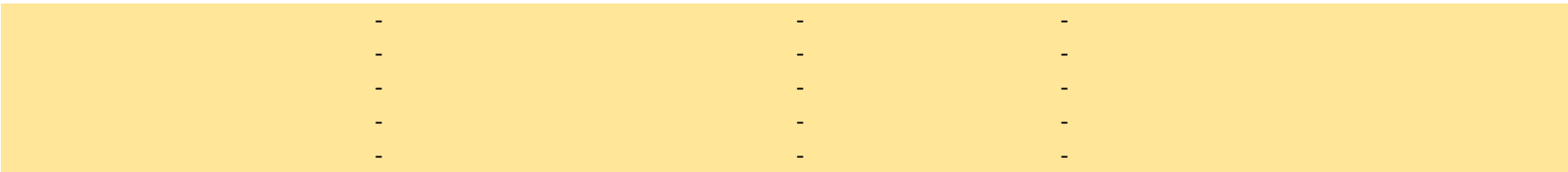


Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,044,362	398,562	5,871,205
1,043,963	198,842	6,028,391
1,005,699	246,784	5,843,888
764,625	147,128	5,840,494
567,474	95,532	5,678,858
587,640	67,995	-
581,301	85,988	-
496,911	72,802	-
444,579	68,376	-
421,455	68,961	-
213,287	-	-
212,476	-	-
189,112	-	-
154,642	-	-
86,239	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

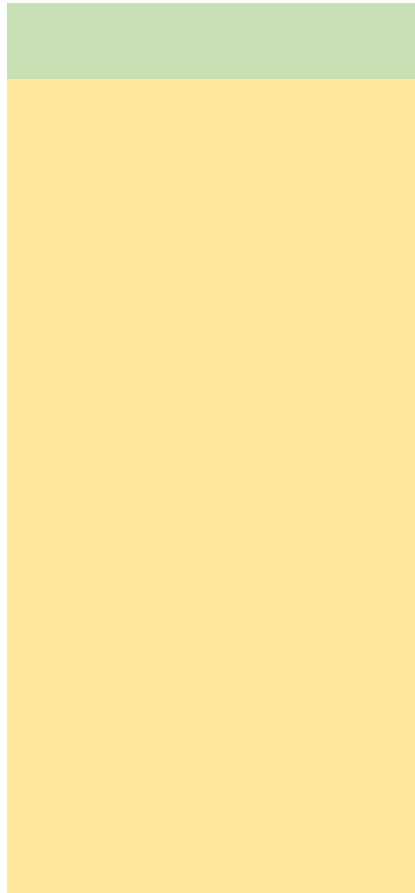
Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,044,362	398,562	5,871,205
1,042,924	199,518	6,028,620
1,006,930	246,755	5,846,290
771,976	150,894	5,848,153
508,810	81,921	5,601,875
489,604	57,956	-
424,598	71,247	-

346,322	62,919	-
284,976	57,368	-
254,527	57,978	-
139,637	-	-
130,206	-	-
116,662	-	-
104,036	-	-
63,453	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton) ...
1,045,175	398,382	5,871,220
1,045,075	200,363	6,027,236
1,017,265	251,542	5,857,634
748,715	134,963	5,806,821
496,224	75,502	5,568,772
584,008	63,680	-
565,640	76,584	-
486,830	59,757	-
430,514	57,807	-
405,774	57,868	-
205,023	-	-
196,875	-	-
171,682	-	-
144,488	-	-
82,257	-	-
-	-	-



r. On the other hand, the Total



**Instructions**

For each of the portfolios listed on the "Portfolios" tab, list the annual Customer Benefits Indicators (CBIs) over the study period under Reference CUM 2225 Order Summary/Rubric references: C.4(b)

Data reported in this section is Oregon-allocated.

1 2025 CEP Preferred Portfolio

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)	
2025	1.31881E-06	This data is already provided on the Annual GHG Impacts of Actions Tab		1,147	6	4,891,385
2026	6.28807E-07			1,143	5	5,227,930
2027	0			1,168	5	5,588,129
2028	0			1,255	5	5,615,560
2029	0			1,277	4	6,023,638
2030	0			0	0	10,817,323
2031	0			0	0	10,976,152
2032	0			0	0	11,311,529
2033	0			0	0	11,914,946
2034	0			0	0	12,371,738
2035	0			0	0	12,893,348
2036	0			0	0	13,270,567
2037	0			0	0	13,756,276
2038	0			0	0	14,452,375
2039	0			0	0	15,011,664
2040	0			0	0	15,851,506
2041	0		0	0	16,295,425	
2042	0		0	0	16,872,926	
2043	0		0	0	17,083,622	
2044	0		0	0	17,398,673	
2045	0		0	0	17,920,097	

2 Hourly Clean Portfolio

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)	
2025	0.084747822	This data is		1,147	6	4,891,383
2026	0.0402696			1,143	5	5,227,884

2027	0	already provided on the Annual GHG Impacts of Actions Tab	1,168	5	5,587,750
2028	0		1,255	5	5,611,949
2029	0		1,278	4	5,573,686
2030	0		0	0	10,817,419
2031	0		0	0	11,015,395
2032	0		0	0	11,371,345
2033	0		0	0	11,969,074
2034	0		0	0	12,426,601
2035	0		0	0	42,361,830
2036	0		0	0	45,232,888
2037	0		0	0	45,818,086
2038	0		0	0	45,852,279
2039	0		0	0	45,776,314
2040	0		0	0	45,670,224
2041	0		0	0	45,384,341
2042	0		0	0	45,477,656
2043	0		0	0	45,438,523
2044	0		0	0	45,616,366
2045	0		0	0	45,722,783

### 3 No HB2021 Counterfactual

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)
2025	1.07003E-06	This data is already provided on the Annual GHG Impacts of Actions Tab	1,147	6	4,891,122
2026	6.28807E-07		1,143	5	5,226,351
2027	0		1,168	5	5,587,404
2028	0		1,255	5	5,787,677
2029	0		1,278	4	6,339,468
2030	0		0	0	9,214,344
2031	0		0	0	7,161,855
2032	0		0	0	8,171,008
2033	0		0	0	8,138,132
2034	0		0	0	8,239,891
2035	0		0	0	8,999,901
2036	0		0	0	9,173,948

2037	0		0	0	9,163,424
2038	0		0	0	9,751,902
2039	0		0	0	10,451,349
2040	0		0	0	12,741,903
2041	0		0	0	10,637,893
2042	0		0	0	11,990,798
2043	0		0	0	11,608,682
2044	0		0	0	11,598,737
2045	0		0	0	12,363,989

4 No HB2021-SSR Counterfactual

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)
2025	1.07003E-06	This data is already provided on the Annual GHG Impacts of Actions Tab	1,147	6	4,891,122
2026	6.28807E-07		1,143	5	5,226,392
2027	0		1,168	5	5,587,286
2028	0		1,255	5	5,610,585
2029	0		1,278	4	5,572,789
2030	0		0	0	7,608,719
2031	0		0	0	7,439,483
2032	0		0	0	7,642,758
2033	0		0	0	8,031,689
2034	0		0	0	8,326,550
2035	0		0	0	8,649,254
2036	0		0	0	8,850,904
2037	0		0	0	9,109,889
2038	0		0	0	9,610,649
2039	0		0	0	9,894,959
2040	0		0	0	9,864,529
2041	0		0	0	9,615,522
2042	0		0	0	9,782,106
2043	0		0	0	9,852,507
2044	0		0	0	9,998,175
2045	0	0	0	10,339,718	

5 CBRE Valuation Study

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)	
2025	1.31881E-06	This data is already provided on the Annual GHG Impacts of Actions Tab		1,147	6	4,891,385
2026	6.28807E-07		1,143	5	5,227,930	
2027	0		1,168	5	5,588,088	
2028	0		1,255	5	5,694,998	
2029	0		1,277	4	6,101,857	
2030	0		0	0	10,894,661	
2031	0		0	0	11,052,484	
2032	0		0	0	11,388,551	
2033	0		0	0	11,992,036	
2034	0		0	0	12,447,000	
2035	0		0	0	12,969,296	
2036	0		0	0	13,343,445	
2037	0		0	0	13,831,224	
2038	0		0	0	14,527,271	
2039	0		0	0	15,087,491	
2040	0		0	0	15,927,948	
2041	0		0	0	16,374,492	
2042	0		0	0	16,950,651	
2043	0		0	0	17,157,947	
2044	0	0	0	17,476,013		
2045	0	0	0	17,996,863		

6 Max. Customer Benefit

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)	
2025	1.31881E-06	This data is already provided on the Annual GHG Impacts of Actions Tab		1,147	6	4,891,385
2026	6.28807E-07		1,143	5	5,227,967	
2027	0		1,168	5	5,587,598	
2028	0		1,255	5	5,687,460	
2029	0		1,274	4	5,649,955	
2030	0		0	0	9,728,248	
2031	0		0	0	9,453,766	

2032	0		0	0	9,441,332
2033	0		0	0	9,540,645
2034	0		0	0	9,585,572
2035	0		0	0	9,606,039
2036	0		0	0	9,455,409
2037	0		0	0	9,309,108
2038	0		0	0	9,459,601
2039	0		0	0	9,493,734
2040	0		0	0	9,715,702
2041	0		0	0	9,683,352
2042	0		0	0	10,039,714
2043	0		0	0	10,115,739
2044	0		0	0	10,265,477
2045	0		0	0	10,525,211

7 In-State Resources

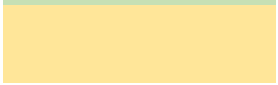
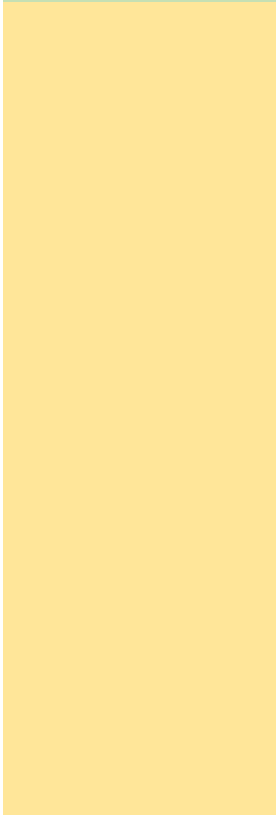
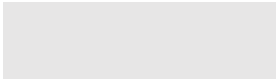
Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)
2025	1.31881E-06	This data is already provided on the Annual GHG Impacts of Actions Tab	1,147	6	4,891,385
2026	6.28807E-07		1,143	5	5,227,973
2027	0		1,168	5	5,588,485
2028	0		1,255	5	5,608,941
2029	0		1,273	4	6,990,620
2030	0		0	0	13,823,902
2031	0		0	0	16,014,825
2032	0		0	0	17,097,660
2033	0		0	0	17,884,784
2034	0		0	0	19,339,227
2035	0		0	0	20,004,227
2036	0		0	0	19,767,401
2037	0		0	0	20,618,626
2038	0		0	0	20,693,560
2039	0		0	0	20,502,901
2040	0		0	0	22,506,859
2041	0		0	0	22,812,808

2042	0		0	0	23,208,650
2043	0		0	0	23,369,607
2044	0		0	0	23,484,323
2045	0		0	0	23,608,067

8 Accelerated Resources

Year	ENS (% of OR load)	CO2e Emissions (metric tons)	SO2 Emissions (metric tons)	NOx Emissions (metric tons)	Renewable Energy (MWh)	
2025	1.31881E-06	This data is already provided on the Annual GHG Impacts of Actions Tab	1146.830113	5.635898519	4891384.808	
2026	6.28807E-07		1143.357051	5.288382005	5227880.931	
2027	0		1167.674003	5.219375704	5587701.18	
2028	0		1254.650947	4.913878407	6700743.31	
2029	0		1272.786018	4.373502498	8162615.426	
2030	0		0.003254536	0.086355759	10817815.18	
2031	0		0.003249077	0.096835669	10975781.87	
2032	0		0.002798391	0.081362035	11311833.28	
2033	0		0.002551644	0.075554136	11917409.34	
2034	0		0.002404173	0.073817343	12370158.31	
2035	0		0.001177565	0.015244915	12892584.71	
2036	0		0.001035799	0.014554817	13268701.09	
2037	0		0.001089506	0.012869873	13754585.64	
2038	0		0.000784382	0.010933417	14389458.27	
2039	0		0.000511076	0.006737367	14906582.23	
2040	0			0	0	15851136.89
2041	0			0	0	16296046.67
2042	0			0	0	16872109.59
2043	0			0	0	17080316.62
2044	0			0	0	17397810.93
2045	0		0	0	17919924.85	

## Case assumptions



**Instructions**

For each of the portfolios listed on the "Portfolios" tab, list the scoring metrics :  
UM 2225 Order Summary/Rubric references: B.1

Data reported in this section is Oregon-allocated.

Portfolio	Cost - PVRR (\$ millions)
1 2025 CEP Preferred Portfolio	5,440
2 Hourly Clean Portfolio	15,482
3 No HB2021 Counterfactual	4,482
4 No HB2021-SSR Counterfactual	4,016
5 CBRE Valuation Study	5,660
6 Max. Customer Benefit	8,141
7 In-State Resources	7,749
8 Accelerated Resources	5,518

for cost, risk, GHG emissions reductions, and community benefits and impacts used to select the Prefe

<b>Risk metric - Variability</b>	<b>Risk metric - Severity</b>	<b>SO2 Emissions</b>
(Unserved Energy - MWh)	(Unserved Energy as a % of OR Load)	(metric tons)
124.974	0.000002	5,989
125.017	0.000002	5,990
108.995	0.000002	5,991
108.995	0.000002	5,991
124.974	0.000002	5,989
124.974	0.000002	5,987
124.974	0.000002	5,985
124.974	0.000002	5,985

red Portfolio and design the Action Plan

<b>Community Impacts Metrics</b>					
<b>NOx Emissions</b>	<b>Renewable Energy</b>	<b>Total GHG Emissions 2025-2045</b>	<b>Maintains 10% SSR Requirement Starting 2030</b>	<b>Meets Emissions Reduction Targets Starting in 2030</b>	
(metric tons)	(MWh)	(million metric tons)	(Yes/No)	(Yes/No)	
26	255,544,809	39,269,571	Yes	Yes	Yes
26	582,843,778	38,245,798	Yes	Yes	Yes
26	187,239,776	63,104,925	Yes	No	No
26	171,505,584	67,571,897	No	No	No
26	256,921,632	39,123,859	Yes	Yes	Yes
26	182,463,014	46,251,634	Yes	Yes	No
26	353,044,832	35,020,873	Yes	Yes	Yes
26	258,592,581	38,114,320	Yes	Yes	Yes

### GHG Emissions Assumptions

Provide the GHG emissions assumptions for each existing and proxy resource modeled in the IRP, developed in partnership with DEQ

UM 2225 Order Summary/Rubric references: J.3(a)

GHG Emissions Rate (metric tons/MWh)

For a complete list of individual resource emission rates please refer to DEQ emissions factors at <https://www.oregon.gov/deq/ghgp/Documents/HB2021-EmissionFactors.xlsx>.

Note - For coal-to-gas converted units, a conversion multiplier, approved by Oregon Department of Environmental Quality, is applied to the unit's coal emission factor to obtain its natural gas converted factor.

### GHG emissions by resource

Provide the cumulative forecasted GHG emissions from each existing and proxy resource in the Preferred Portfolio under the Reference Case over the

UM 2225 Order Summary/Rubric references: J.3(b)

Individual resource characteristics are considered commercially sensitive confidential information. This section aggregates the information by technology type. Data reported in this section is Oregon-allocated.

	2025 CEP Preferred Portfolio		
	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	7,763,176	1,400,745	29,317,521
Location (lat, long)			

	Hourly Clean Portfolio		
	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	7,281,708	1,435,607	29,339,966
Location (lat, long)			

	No HB2021 Counterfactual		
	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	13,784,235	2,060,398	29,341,901
Location (lat, long)			

No HB2021-SSR Counterfactual

	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	14,062,704	2,139,598	29,341,831
Location (lat, long)			

CBRE Valuation Study

	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	7,734,741	1,409,236	29,309,063
Location (lat, long)			

Max. Customer Benefit

	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	7,813,764	1,450,970	29,262,836
Location (lat, long)			

In-State Resources

	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	6,729,024	1,385,118	29,196,143
Location (lat, long)			

Accelerated Resources

	Natural Gas (metric ton)	Gas Conv (metric ton)	Coal (metric ton)
Cumulative GHG Emissions (metric tons)	7,625,547	1,376,448	29,131,684
Location (lat, long)			

**Portfolio GHG emissions**

For each of the portfolios listed on the "Portfolios" tab, list the annual GHG emissions based on the DEQ methodology over the study period under Re Provide at least three years of historical GHG emissions based on the DEQ methodology in column B UM 2225 Order Summary/Rubric references: J.3(c)

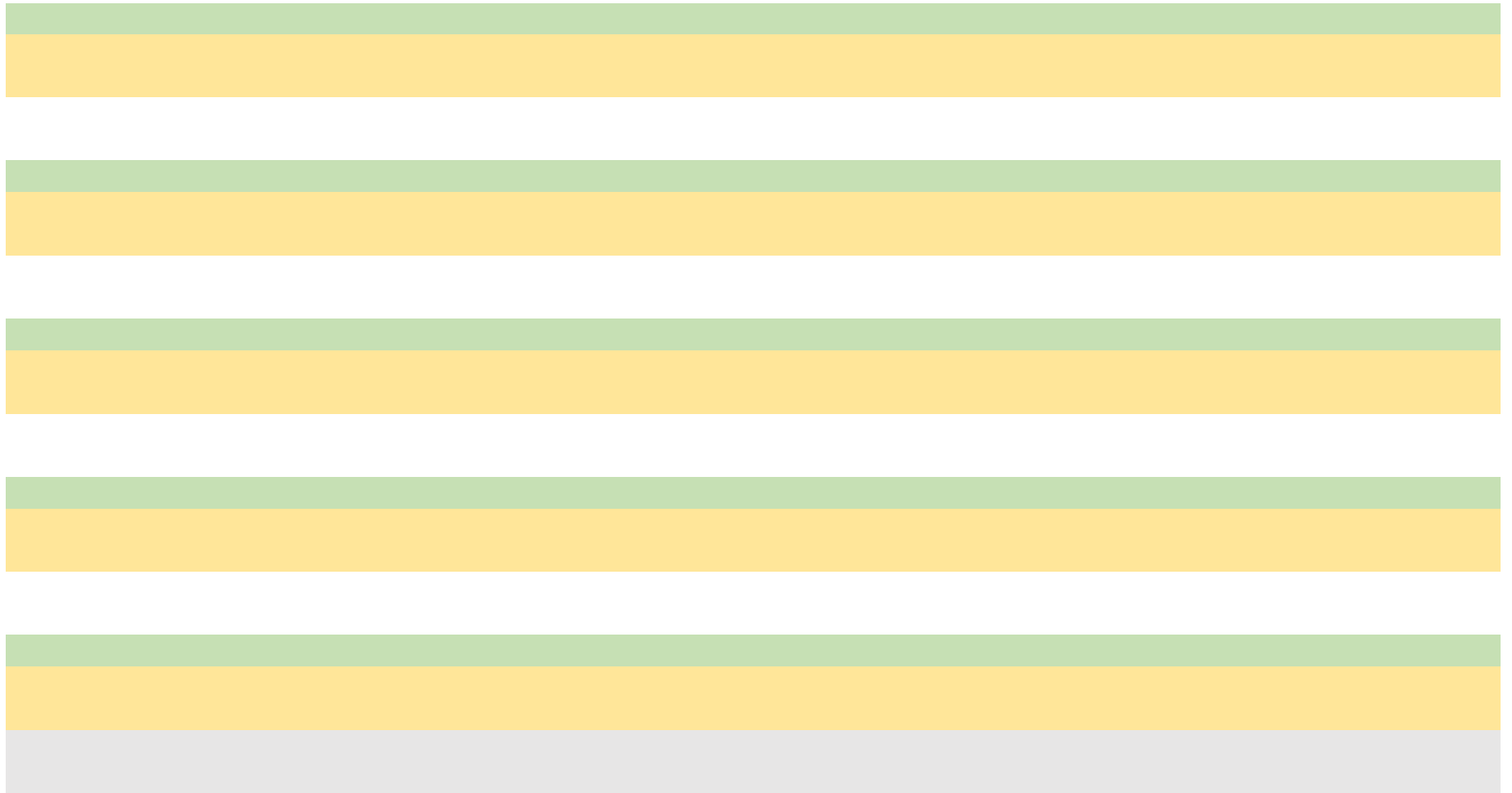
Year	1 2025 CEP Preferred Portfolio	2 Hourly Clean Portfolio	3 No HB2021 Counterfactual
2021	8,257,701	8,257,701	8,257,701
2022	7,953,132	7,953,132	7,953,132
2023	7,653,943	7,653,943	7,653,943
2024	2024 data is unavailable as of 6/30/2025. Third Party Verification of the Company's GHG re		

2025	6,385,278	6,384,979	6,385,661
2026	6,457,194	6,457,394	6,436,312
2027	6,269,548	6,269,436	6,234,428
2028	6,430,636	6,434,670	6,409,386
2029	6,308,955	6,486,902	6,471,265
2030	1,383,402	1,400,338	2,401,731
2031	1,282,431	1,289,648	2,492,201
2032	1,098,594	1,108,423	2,395,467
2033	1,103,987	1,143,828	2,200,477
2034	1,026,654	1,048,363	2,085,236
2035	884,184	148,240	1,983,719
2036	257,313	24,944	1,886,399
2037	167,286	18,363	1,695,350
2038	137,228	19,138	1,551,049
2039	76,882	11,132	1,535,105
2040	-	-	1,565,193
2041	-	-	1,646,560
2042	-	-	1,783,181
2043	-	-	1,923,663
2044	-	-	2,037,579
2045	-	-	1,984,965

for guidance:

ment of Environmental Quality, was applied to the

ation. PacifiCorp has  
ated.



reference Case assumptions

4	5	6	7	8
No HB2021-SSR Counterfactual	CBRE Valuation Study	Max. Customer Benefit	In-State Resources	Accelerated Resources
8,257,701	8,257,701	8,257,701	8,257,701	8,257,701
7,953,132	7,953,132	7,953,132	7,953,132	7,953,132
7,653,943	7,653,943	7,653,943	7,653,943	7,653,943

Report will conclude in August 2025.

6,385,797	6,385,278	6,462,251	6,462,251	6,385,341
6,436,089	6,457,163	6,534,515	6,534,821	6,456,773
6,232,777	6,268,087	6,243,341	6,257,349	6,269,825
6,409,015	6,401,003	6,276,880	6,335,503	6,039,991
6,473,420	6,280,454	6,211,295	5,753,967	5,541,169
2,578,483	1,369,602	1,388,996	923,813	1,383,170
2,673,511	1,270,446	1,360,336	681,902	1,280,801
2,585,667	1,088,695	1,248,863	520,140	1,097,223
2,408,275	1,099,562	1,162,661	501,149	1,108,438
2,307,280	1,023,539	1,107,104	436,297	1,029,099
2,224,298	876,019	977,788	362,199	882,248
2,146,066	226,146	957,451	81,716	258,092
1,976,745	165,509	886,831	69,505	167,267
1,844,065	136,136	808,579	61,971	137,625
1,767,177	76,222	752,625	38,291	77,258
1,851,700	-	665,689	-	-
2,053,474	-	737,881	-	-
2,133,758	-	658,179	-	-
2,301,513	-	629,780	-	-
2,402,382	-	627,162	-	-
2,380,406	-	553,426	-	-

**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.

2021-2023 Actuals Emissions reflect emissions as reported in O  
Environmental Quality's website including emissions associated  
Net Metering resources.  
<https://www.oregon.gov/deq/ghgp/Pages/GHG-Emissions.aspx>  
(OAR 340-215)

1 2025 CEP Preferred Portfolio

Fuel	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Year	Total GHG emissions (metric tons)	GHG emissions to serve Oregon customers (metric tons)	Total generation (GWh)	Generation serving Oregon customers (GWh)
2021	N/A	986,394	N/A	2,472
2022	N/A	1,052,725	N/A	2,638
2023	N/A	1,240,261	N/A	3,050
2024	<i>2024 data is unavailable as of 6/30/2025. Third Party Verification of the Company's GHG report will conclude in August 2025.</i>			
2025	1,044,419	858,198	4,453	3,659
2026	1,042,476	887,997	4,543	3,870
2027	1,018,557	859,648	4,550	3,840
2028	793,528	694,129	3,619	3,165
2029	583,440	521,853	2,715	2,428
2030	582,716	562,545	1,488	1,436
2031	566,059	552,582	1,445	1,410
2032	487,121	479,814	1,242	1,224
2033	432,179	404,689	1,103	1,033
2034	410,355	378,405	1,048	966
2035	206,250	189,798	527	485
2036	197,343	197,343	504	504
2037	171,721	167,286	438	427

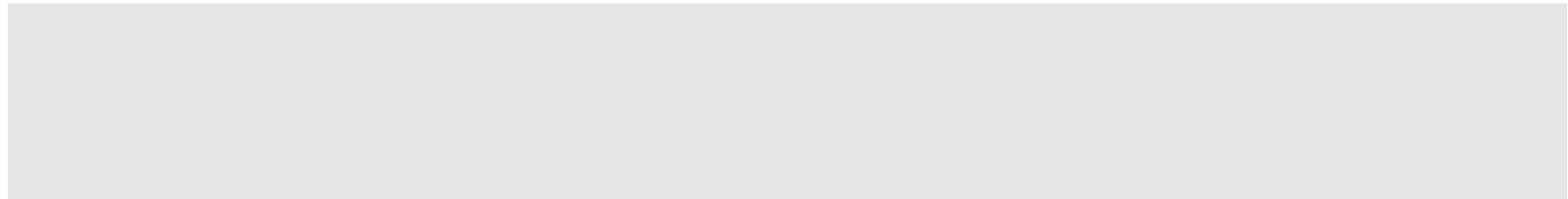
2038	144,636	137,228	369	350
2039	82,377	76,882	209	195
2040	-	-	-	-
2041	-	-	-	-
2042	-	-	-	-
2043	-	-	-	-
2044	-	-	-	-
2045	-	-	-	-

Oregon Department of  
Energy with Qualifying Facilities and

x

Natural Gas Weighted average heat rate (MMBTu/MWh)	Gas Conv Total GHG emissions (metric tons)	Gas Conv GHG emissions to serve Oregon customers (metric tons)	Gas Conv Total generation (GWh)
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
	398,567	327,503	1,121
	199,602	170,024	514
	250,719	211,603	618
	154,813	135,421	379
	96,312	86,145	229
	63,936	61,722	100
	77,129	75,293	121
	60,101	59,199	94
	49,530	46,379	78
	50,037	46,142	78
	-	-	-
	-	-	-
	-	-	-

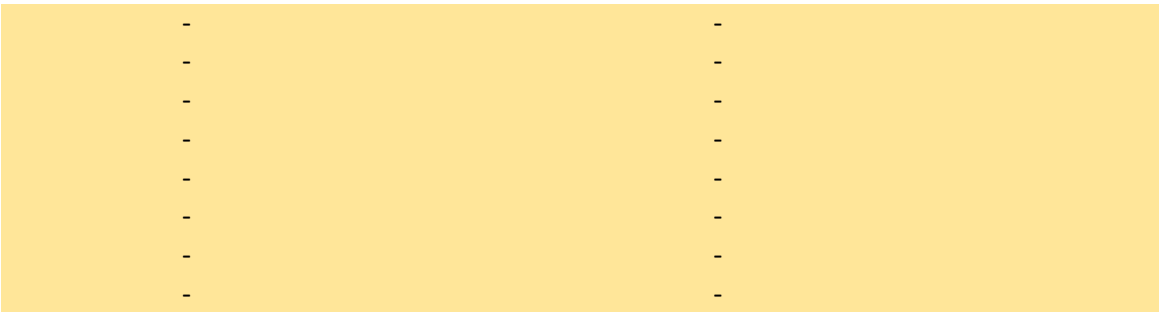




Gas Conv Generation serving Oregon customers (GWh)	Gas Conv Weighted average heat rate (MMBTu/MWh)	Coal Total GHG emissions (metric tons)	Coal GHG emissions to serve Oregon customers (metric tons)
N/A	N/A	N/A	6,750,232
N/A	N/A	N/A	6,332,524
N/A	N/A	N/A	5,695,775
	921	5,871,205	4,824,364
	438	6,028,615	5,135,269
	522	5,857,536	4,943,680
	332	5,865,692	5,130,943
	205	5,694,474	5,093,379
	97	-	-
	118	-	-
	93	-	-
	73	-	-
	72	-	-
	-	-	-
	-	-	-
	-	-	-







**Instructions**

For each of the portfolios listed in the "Portfolios" tab, provide the following information under the Reference Case

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

Data reported in this section is Oregon-allocated.

Reported revenue requirement for years 2026 on requirement value.

1 2025 CEP Preferred Portfolio			
Year	Total revenue requirement to serve Oregon customers (\$ million - nominal)	Total Oregon retail sales (MWh)	
2021	1,253,128	13,705,078	
2022	1,253,128	13,715,836	
2023	1,298,701	13,988,996	
2024	1,298,701	14,385,025	
2025	1,775,786	14,316,773	
2026	1,775,773	14,420,803	
2027	1,775,811	14,401,692	
2028	1,775,889	14,397,746	
2029	1,775,977	14,342,388	
2030	1,776,385	14,331,390	
2031	1,776,880	14,323,935	
2032	1,777,402	14,346,805	
2033	1,777,980	14,345,226	
2034	1,778,613	14,408,725	
2035	1,779,360	14,533,394	
2036	1,780,188	14,740,167	
2037	1,781,071	14,899,354	
2038	1,782,032	15,094,727	
2039	1,783,079	15,322,815	
2040	1,784,136	15,598,298	
2041	1,785,280	15,842,264	
2042	1,786,506	16,143,082	
2043	1,787,789	16,382,076	

2044	1,789,098	16,697,286
------	-----------	------------

2 Hourly Clean Portfolio

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836
2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.855	14,420,803
2027	1775811.563	14,401,692
2028	1775893.494	14,397,746
2029	1775974.681	14,342,388
2030	1776408.238	14,331,390
2031	1776927.138	14,323,935
2032	1777471.628	14,346,805
2033	1778059.822	14,345,226
2034	1778704.523	14,408,725
2035	1781962.025	14,533,394
2036	1785617.71	14,740,167
2037	1789472.546	14,899,354
2038	1793482.534	15,094,727
2039	1797553.146	15,322,815
2040	1801578.927	15,598,298
2041	1805649.022	15,842,264
2042	1809757.38	16,143,082
2043	1813839.584	16,382,076
2044	1817894.424	16,697,286

3 No HB2021 Counterfactual

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836

2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.858	14,420,803
2027	1775811.597	14,401,692
2028	1775888.461	14,397,746
2029	1775959.39	14,342,388
2030	1776256.956	14,331,390
2031	1776625.377	14,323,935
2032	1777010.268	14,346,805
2033	1777422.623	14,345,226
2034	1777876.978	14,408,725
2035	1778441.42	14,533,394
2036	1779075.829	14,740,167
2037	1779752.597	14,899,354
2038	1780488.079	15,094,727
2039	1781251.58	15,322,815
2040	1782121.297	15,598,298
2041	1783076.398	15,842,264
2042	1784105.66	16,143,082
2043	1785179.862	16,382,076
2044	1786384.184	16,697,286

#### 4 No HB2021-SSR Counterfactual

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836
2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.879	14,420,803
2027	1775811.481	14,401,692
2028	1775892.485	14,397,746
2029	1775968.81	14,342,388

2030	1776245.473	14,331,390
2031	1776592.211	14,323,935
2032	1776952.514	14,346,805
2033	1777342.281	14,345,226
2034	1777770.262	14,408,725
2035	1778303.407	14,533,394
2036	1778902.402	14,740,167
2037	1779537.544	14,899,354
2038	1780226.981	15,094,727
2039	1780938.118	15,322,815
2040	1781710.421	15,598,298
2041	1782515.953	15,842,264
2042	1783370.426	16,143,082
2043	1784263.937	16,382,076
2044	1785285.204	16,697,286

5 CBRE Valuation Study

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836
2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.778	14,420,803
2027	1775811.368	14,401,692
2028	1775897.247	14,397,746
2029	1775995.151	14,342,388
2030	1776430.444	14,331,390
2031	1776953.039	14,323,935
2032	1777502.931	14,346,805
2033	1778108.029	14,345,226
2034	1778772.344	14,408,725
2035	1779549.015	14,533,394
2036	1780405.914	14,740,167

2037	1781319.287	14,899,354
2038	1782308.938	15,094,727
2039	1783386.762	15,322,815
2040	1784473.721	15,598,298
2041	1785647.943	15,842,264
2042	1786905.136	16,143,082
2043	1788218.764	16,382,076
2044	1789557.49	16,697,286

6 Max. Customer Benefit

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836
2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.788	14,420,803
2027	1775836.119	14,401,692
2028	1775935.218	14,397,746
2029	1776064.221	14,342,388
2030	1776774.72	14,331,390
2031	1777572.512	14,323,935
2032	1778416.133	14,346,805
2033	1779312.833	14,345,226
2034	1780271.929	14,408,725
2035	1781347.293	14,533,394
2036	1782498.545	14,740,167
2037	1783715.879	14,899,354
2038	1785002.127	15,094,727
2039	1786335.068	15,322,815
2040	1787621.312	15,598,298
2041	1788971.173	15,842,264
2042	1790403.596	16,143,082
2043	1791959.413	16,382,076

2044	1793592.878	16,697,286
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7 In-State Resources

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836
2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14,316,773
2026	1775772.773	14,420,803
2027	1775821.056	14,401,692
2028	1775887.167	14,397,746
2029	1776026.595	14,342,388
2030	1776651.224	14,331,390
2031	1777500.735	14,323,935
2032	1778476.217	14,346,805
2033	1779586.373	14,345,226
2034	1780851.56	14,408,725
2035	1782258.489	14,533,394
2036	1783714.478	14,740,167
2037	1785263.075	14,899,354
2038	1786842.681	15,094,727
2039	1788380.89	15,322,815
2040	1789801.334	15,598,298
2041	1791198.17	15,842,264
2042	1792578.793	16,143,082
2043	1793991.81	16,382,076
2044	1795403.984	16,697,286

8 Accelerated Resources

Year	Total revenue requirement to serve Oregon customers (million nominal \$)	Total Oregon retail sales (MWh)
2021	1,253,128	13,705,078
2022	1,253,128	13,715,836

2023	1,298,701	13,988,996
2024	1,298,701	14,385,025
2025	1,775,786	14316773.26
2026	1775772.795	14420803.35
2027	1775811.429	14401691.87
2028	1775922.169	14397746.18
2029	1776099.846	14342387.77
2030	1776508.466	14331389.82
2031	1777004.052	14323935.13
2032	1777526.172	14346804.54
2033	1778103.645	14345225.83
2034	1778740.471	14408724.75
2035	1779488.588	14533394.19
2036	1780317.063	14740167.41
2037	1781201.698	14899353.88
2038	1782156.608	15094727.07
2039	1783180.908	15322814.63
2040	1784238.763	15598298.38
2041	1785383.273	15842263.98
2042	1786611.049	16143081.72
2043	1787894.796	16382076.34
2044	1789204.035	16697285.91

over the study period and for at least three historical years

sales in Oregon

Costs for years 2021-2025 are provided consistent with OAR 860-083-0200(1)(b). Revenue requirements are calculated by adding annual nominal portfolio costs to the previous year's revenue

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon (\$/MWh)

- 91.44
- 91.36
- 92.84
- 90.28
- 124.04
- 123.14
- 123.31
- 123.34
- 123.83
- 123.95
- 124.05
- 123.89
- 123.94
- 123.44
- 122.43
- 120.77
- 119.54
- 118.06
- 116.37
- 114.38
- 112.69
- 110.67
- 109.13

107.15

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44

91.36

92.84

90.28

124.04

123.14

123.31

123.35

123.83

123.95

124.05

123.89

123.95

123.45

122.61

121.14

120.10

118.82

117.31

115.50

113.98

112.11

110.72

108.87

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44

91.36

92.84  
90.28  
124.04  
123.14  
123.31  
123.34  
123.83  
123.94  
124.03  
123.86  
123.90  
123.39  
122.37  
120.70  
119.45  
117.95  
116.25  
114.25  
112.55  
110.52  
108.97  
106.99

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44  
91.36  
92.84  
90.28  
124.04  
123.14  
123.31  
123.35  
123.83

123.94  
124.03  
123.86  
123.90  
123.38  
122.36  
120.68  
119.44  
117.94  
116.23  
114.22  
112.52  
110.47  
108.92  
106.92

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44  
91.36  
92.84  
90.28  
124.04  
123.14  
123.31  
123.35  
123.83  
123.95  
124.05  
123.90  
123.95  
123.45  
122.45  
120.79

119.56  
118.07  
116.39  
114.40  
112.71  
110.69  
109.16  
107.18

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44  
91.36  
92.84  
90.28  
124.04  
123.14  
123.31  
123.35  
123.83  
123.98  
124.10  
123.96  
124.04  
123.56  
122.57  
120.93  
119.72  
118.25  
116.58  
114.60  
112.92  
110.91  
109.39

107.42

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44

91.36

92.84

90.28

124.04

123.14

123.31

123.34

123.83

123.97

124.09

123.96

124.05

123.60

122.63

121.01

119.82

118.38

116.71

114.74

113.06

111.04

109.51

107.53

Total revenue requirement to serve Oregon customers, divided by the total retail sales in Oregon  
(nominal \$/MWh)

91.44

91.36

92.84

90.28

124.04

123.14

123.31

123.35

123.84

123.96

124.06

123.90

123.95

123.45

122.44

120.78

119.55

118.06

116.37

114.39

112.70

110.67

109.14

107.16

## Instructions

Provide, for renewable energy generated by or contracted to the utility in the Preferred Portfolio under the Reference Case over the entire ana

- 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 c
- 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

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

Data reported in this section is Oregon specific.

1 CEP Preferred Portfolio			
Year	Renewable Energy Credits (MWh) Retired for Oregon RPS compliance	Renewable Energy Credits (MWh) Retired for Oregon customer voluntary sales	Renewable Energy Credits (MWh) Retired in another state
2025	3,847,402	2,277,550	NA
2026	3,875,588	2,608,199	NA
2027	3,870,512	2,621,887	NA
2028	3,869,524	2,622,764	NA
2029	3,854,661	2,613,417	NA
2030	4,993,038	2,583,238	NA
2031	4,990,566	2,450,243	NA
2032	4,998,695	2,392,546	NA
2033	4,998,236	2,386,286	NA
2034	5,020,578	2,349,934	NA
2035	6,511,253	2,406,803	NA
2036	6,604,437	2,285,506	NA
2037	6,676,248	2,329,232	NA
2038	6,764,298	2,312,030	NA
2039	6,867,060	2,317,615	NA
2040	7,767,973	2,398,315	NA
2041	7,890,080	2,286,682	NA
2042	8,040,736	2,369,473	NA
2043	8,162,463	2,355,545	NA
2044	8,326,057	2,349,848	NA

2045	8,450,168	2,357,924 NA
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2 Hourly Clean Portfolio

Year	Renewable Energy Credits (MWh) Retired for Oregon RPS compliance	Renewable Energy Credits (MWh) Retired for Oregon customer voluntary sales	Renewable Energy Credits (MWh) Retired in another state
2025	3,847,402	2,277,546 NA	
2026	3,875,588	2,608,224 NA	
2027	3,870,512	2,623,096 NA	
2028	3,869,524	2,632,788 NA	
2029	3,854,661	2,619,125 NA	
2030	4,993,038	2,600,048 NA	
2031	4,990,566	2,469,185 NA	
2032	4,998,695	2,419,295 NA	
2033	4,998,236	2,423,494 NA	
2034	5,020,578	2,395,946 NA	
2035	6,511,253	1,494,019 NA	
2036	6,604,437	1,277,365 NA	
2037	6,676,248	1,256,800 NA	
2038	6,764,298	1,275,245 NA	
2039	6,867,060	1,336,194 NA	
2040	7,767,973	1,368,418 NA	
2041	7,890,080	1,584,403 NA	
2042	8,040,736	1,980,213 NA	
2043	8,162,463	1,996,172 NA	
2044	8,326,057	2,067,683 NA	
2045	8,450,168	2,131,540 NA	

3 No HB2021 Counterfactual

Year	Renewable Energy Credits (MWh) Retired for Oregon RPS compliance	Renewable Energy Credits (MWh) Retired for Oregon customer voluntary sales	Renewable Energy Credits (MWh) Retired in another state
2025	3,847,402	2,279,542 NA	
2026	3,875,588	2,610,224 NA	
2027	3,870,512	2,624,143 NA	
2028	3,869,524	2,624,483 NA	

2029	3,854,661	2,618,681	NA
2030	4,993,038	2,614,684	NA
2031	4,990,566	2,493,304	NA
2032	4,998,695	2,446,750	NA
2033	4,998,236	2,449,929	NA
2034	5,020,578	2,436,428	NA
2035	6,511,253	2,485,110	NA
2036	6,604,437	2,393,237	NA
2037	6,676,248	2,447,951	NA
2038	6,764,298	2,403,983	NA
2039	6,867,060	2,407,028	NA
2040	7,767,973	2,478,517	NA
2041	7,890,080	2,359,990	NA
2042	8,040,736	2,401,793	NA
2043	8,162,463	2,383,605	NA
2044	8,326,057	2,368,988	NA
2045	8,450,168	2,379,441	NA

4 No HB2021-SSR Counterfactual

Year	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)
	Retired for Oregon RPS compliance	Retired for Oregon customer voluntary sales	Retired in another state
2025	3,847,402	2,277,517	NA
2026	3,875,588	2,608,196	NA
2027	3,870,512	2,621,536	NA
2028	3,869,524	2,621,720	NA
2029	3,854,661	2,613,095	NA
2030	4,993,038	2,614,121	NA
2031	4,990,566	2,496,594	NA
2032	4,998,695	2,449,791	NA
2033	4,998,236	2,457,204	NA
2034	5,020,578	2,443,972	NA
2035	6,511,253	2,489,635	NA
2036	6,604,437	2,401,251	NA
2037	6,676,248	2,458,660	NA

2038	6,764,298	2,419,586 NA
2039	6,867,060	2,423,416 NA
2040	7,767,973	2,486,464 NA
2041	7,890,080	2,366,296 NA
2042	8,040,736	2,401,982 NA
2043	8,162,463	2,383,353 NA
2044	8,326,057	2,371,220 NA
2045	8,450,168	2,377,755 NA

5 CBRE Valuation Study

Year	Renewable Energy Credits (MWh) Retired for Oregon RPS compliance	Renewable Energy Credits (MWh) Retired for Oregon customer voluntary sales	Renewable Energy Credits (MWh) Retired in another state
2025	3,847,402	2,277,550 NA	
2026	3,875,588	2,608,199 NA	
2027	3,870,512	2,621,800 NA	
2028	3,869,524	2,623,627 NA	
2029	3,854,661	2,612,378 NA	
2030	4,993,038	2,580,791 NA	
2031	4,990,566	2,449,410 NA	
2032	4,998,695	2,390,445 NA	
2033	4,998,236	2,384,838 NA	
2034	5,020,578	2,349,362 NA	
2035	6,511,253	2,406,734 NA	
2036	6,604,437	2,286,466 NA	
2037	6,676,248	2,323,984 NA	
2038	6,764,298	2,308,661 NA	
2039	6,867,060	2,316,552 NA	
2040	7,767,973	2,394,950 NA	
2041	7,890,080	2,284,539 NA	
2042	8,040,736	2,370,695 NA	
2043	8,162,463	2,354,330 NA	
2044	8,326,057	2,349,319 NA	
2045	8,450,168	2,358,925 NA	

6 Max Customer Benefit

Year	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)
	Retired for Oregon RPS compliance	Retired for Oregon customer voluntary sales	Retired in another state
2025	3,894,007	2,277,550	NA
2026	3,922,331	2,608,246	NA
2027	3,852,447	2,620,003	NA
2028	3,786,112	2,619,684	NA
2029	3,704,663	2,603,256	NA
2030	4,713,819	2,539,001	NA
2031	4,625,480	2,417,604	NA
2032	4,537,131	2,345,930	NA
2033	4,460,305	2,350,774	NA
2034	4,398,511	2,308,478	NA
2035	5,625,568	2,376,428	NA
2036	5,643,106	2,244,934	NA
2037	5,629,841	2,283,178	NA
2038	5,616,229	2,258,146	NA
2039	5,622,632	2,224,591	NA
2040	6,295,827	2,432,457	NA
2041	6,370,648	2,331,791	NA
2042	6,446,678	2,383,192	NA
2043	6,468,069	2,365,301	NA
2044	6,539,211	2,353,990	NA
2045	6,581,561	2,362,201	NA

7 In-State Resources

Year	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)	Renewable Energy Credits (MWh)
	Retired for Oregon RPS compliance	Retired for Oregon customer voluntary sales	Retired in another state
2025	3,894,007	2,277,550	NA
2026	3,922,331	2,608,245	NA
2027	3,861,486	2,620,088	NA
2028	3,804,407	2,624,966	NA
2029	3,732,792	2,591,144	NA
2030	4,762,474	2,489,900	NA

2031	4,692,270	2,237,786 NA
2032	4,628,616	2,100,020 NA
2033	4,565,896	2,038,641 NA
2034	4,523,213	2,004,768 NA
2035	5,797,461	2,110,887 NA
2036	5,821,339	1,973,803 NA
2037	5,825,824	2,029,751 NA
2038	5,837,312	2,012,604 NA
2039	5,868,668	2,060,406 NA
2040	6,590,446	2,240,726 NA
2041	6,662,296	2,176,425 NA
2042	6,759,466	2,300,043 NA
2043	6,810,782	2,291,212 NA
2044	6,909,080	2,295,155 NA
2045	6,978,415	2,333,304 NA

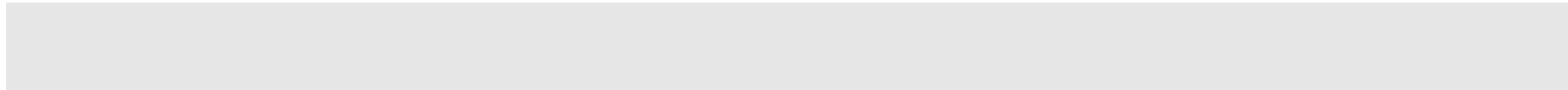
8 Accelerated Resources

Year	Renewable Energy Credits (MWh) Retired for Oregon RPS compliance	Renewable Energy Credits (MWh) Retired for Oregon customer voluntary sales	Renewable Energy Credits (MWh) Retired in another state
2025	3,847,402	2,277,550 NA	
2026	3,875,588	2,608,246 NA	
2027	3,870,512	2,623,108 NA	
2028	3,869,524	2,616,399 NA	
2029	3,854,661	2,584,148 NA	
2030	4,993,038	2,581,324 NA	
2031	4,990,566	2,452,059 NA	
2032	4,998,695	2,391,583 NA	
2033	4,998,236	2,384,564 NA	
2034	5,020,578	2,348,690 NA	
2035	6,511,253	2,409,668 NA	
2036	6,604,437	2,288,820 NA	
2037	6,676,248	2,329,117 NA	
2038	6,764,298	2,321,078 NA	
2039	6,867,060	2,331,593 NA	

2040	7,767,973	2,398,382 NA
2041	7,890,080	2,287,509 NA
2042	8,040,736	2,371,502 NA
2043	8,162,463	2,355,409 NA
2044	8,326,057	2,349,306 NA
2045	8,450,168	2,357,933 NA

lysis horizon (at least 20 years), the following information:.

or voluntary sales)



Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
846,232	N/A	N/A
1,128,207	N/A	N/A
1,476,897	N/A	N/A
1,501,276	N/A	N/A
1,930,249	N/A	N/A
5,598,206	N/A	N/A
5,784,990	N/A	N/A
6,087,075	N/A	N/A
6,676,755	N/A	N/A
7,108,612	N/A	N/A
6,148,680	N/A	N/A
6,446,817	N/A	N/A
6,853,187	N/A	N/A
7,451,075	N/A	N/A
7,962,740	N/A	N/A
7,898,144	N/A	N/A
8,242,363	N/A	N/A
8,690,651	N/A	N/A
8,752,889	N/A	N/A
8,895,046	N/A	N/A

9,283,925 N/A

N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
845,294	N/A	N/A
1,127,221	N/A	N/A
1,475,559	N/A	N/A
1,496,700	N/A	N/A
1,479,327	N/A	N/A
5,597,331	N/A	N/A
5,823,269	N/A	N/A
6,145,936	N/A	N/A
6,729,932	N/A	N/A
7,162,528	N/A	N/A
35,616,219	N/A	N/A
38,408,194	N/A	N/A
38,914,047	N/A	N/A
38,850,025	N/A	N/A
38,726,432	N/A	N/A
37,715,902	N/A	N/A
37,330,312	N/A	N/A
37,294,411	N/A	N/A
37,106,817	N/A	N/A
37,111,768	N/A	N/A
37,085,636	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
845,969	N/A	N/A
1,126,628	N/A	N/A
1,476,172	N/A	N/A
1,673,394	N/A	N/A

2,246,079	N/A	N/A
3,995,228	N/A	N/A
1,970,693	N/A	N/A
2,946,554	N/A	N/A
2,899,941	N/A	N/A
2,976,765	N/A	N/A
2,255,233	N/A	N/A
2,350,199	N/A	N/A
2,260,334	N/A	N/A
2,750,601	N/A	N/A
3,402,424	N/A	N/A
4,788,541	N/A	N/A
2,584,830	N/A	N/A
3,808,522	N/A	N/A
3,277,949	N/A	N/A
3,095,110	N/A	N/A
3,727,817	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
845,033	N/A	N/A
1,125,729	N/A	N/A
1,475,094	N/A	N/A
1,495,335	N/A	N/A
1,478,430	N/A	N/A
2,388,631	N/A	N/A
2,247,357	N/A	N/A
2,417,349	N/A	N/A
2,792,547	N/A	N/A
3,062,477	N/A	N/A
1,903,643	N/A	N/A
2,026,210	N/A	N/A
2,205,849	N/A	N/A

2,608,394	N/A	N/A
2,845,076	N/A	N/A
1,910,207	N/A	N/A
1,561,493	N/A	N/A
1,598,861	N/A	N/A
1,520,801	N/A	N/A
1,493,577	N/A	N/A
1,702,571	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
846,232	N/A	N/A
1,128,207	N/A	N/A
1,476,856	N/A	N/A
1,502,107	N/A	N/A
1,929,845	N/A	N/A
5,596,922	N/A	N/A
5,782,700	N/A	N/A
6,085,489	N/A	N/A
6,675,223	N/A	N/A
7,105,252	N/A	N/A
6,146,006	N/A	N/A
6,441,088	N/A	N/A
6,849,513	N/A	N/A
7,447,349	N/A	N/A
7,959,944	N/A	N/A
7,895,978	N/A	N/A
8,242,807	N/A	N/A
8,689,754	N/A	N/A
8,748,592	N/A	N/A
8,893,779	N/A	N/A
9,282,068	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
799,627	N/A	N/A
1,081,501	N/A	N/A
1,494,431	N/A	N/A
1,577,981	N/A	N/A
1,627,941	N/A	N/A
4,709,728	N/A	N/A
4,549,068	N/A	N/A
4,599,836	N/A	N/A
4,761,763	N/A	N/A
4,865,891	N/A	N/A
3,668,434	N/A	N/A
3,514,383	N/A	N/A
3,373,803	N/A	N/A
3,527,747	N/A	N/A
3,610,615	N/A	N/A
3,155,879	N/A	N/A
3,071,099	N/A	N/A
3,372,874	N/A	N/A
3,400,778	N/A	N/A
3,470,088	N/A	N/A
3,679,024	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
799,627	N/A	N/A
1,081,507	N/A	N/A
1,486,279	N/A	N/A
1,559,776	N/A	N/A
3,019,099	N/A	N/A
8,835,349	N/A	N/A

11,121,958	N/A	N/A
12,243,286	N/A	N/A
13,078,933	N/A	N/A
14,573,466	N/A	N/A
13,973,351	N/A	N/A
13,726,749	N/A	N/A
14,565,961	N/A	N/A
14,619,245	N/A	N/A
14,452,369	N/A	N/A
15,731,025	N/A	N/A
15,987,529	N/A	N/A
16,307,645	N/A	N/A
16,390,556	N/A	N/A
16,397,673	N/A	N/A
16,443,648	N/A	N/A

Renewable Energy Credits (MWh) Banked for future Oregon RPS compliance	Renewable Energy Credits (MWh) Banked for future compliance in another state	Additional renewable generation (MWh)
845,296	N/A	N/A
1,127,218	N/A	N/A
1,475,510	N/A	N/A
2,585,494	N/A	N/A
4,068,257	N/A	N/A
5,597,727	N/A	N/A
5,783,656	N/A	N/A
6,086,424	N/A	N/A
6,678,267	N/A	N/A
7,106,085	N/A	N/A
6,146,974	N/A	N/A
6,444,008	N/A	N/A
6,850,546	N/A	N/A
7,387,204	N/A	N/A
7,856,700	N/A	N/A

7,896,815	N/A	N/A
8,242,018	N/A	N/A
8,688,865	N/A	N/A
8,748,611	N/A	N/A
8,893,213	N/A	N/A
9,282,778	N/A	N/A