



2011 Integrated Resource Plan

Portfolio Development Results

System Optimizer Core Case Studies 1-19

January 28, 2011

Case Summary by Present Value Revenue Requirement

20-year resource totals (MW capacity)

Case	Core 1	Core 2	Core 3	Core 4	Core 5	Core 6	Core 7	Core 8	Core 9	Core 10	Core 11	Core 12	Core 13	Core 14	Core 15	Core 16	Core 17	Core 18	Core 19	Avg	Min	Max		
CO₂ cost	None	None	Medium	High	Low to very high	Low to very high	Medium	High	Low to very high	Low to very high	Medium	High	Low to very high	Low to very high	Medium	Medium	Medium	Medium	Business Plan (BP)					
Natural gas cost	Medium	Medium	Low	Low	Low	Low	Medium	Medium	Medium	Medium	High	High	High	High	Low	Medium	High	Medium	BP					
Transmission scenario¹	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	BP					
Resource																								
East																								
Coal																								
Coal Plant Turbine Upgrades	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53		
CCS																								
CCS Hunter3	0	0	0	280	280	280	0	280	280	280	0	280	280	280	280	280	280	280	280	0	192	0	280	
CHP																								
CHP - Biomass	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	10	19	10	20	
CHP - Reciprocating Engine	4	6	5	2	5	2	2	2	2	8	3	2	3	7	6	2	2	2	0	3	0	8		
DSM, Class 1	95	102	97	102	97	102	102	99	99	102	102	99	102	102	97	92	99	86	102	99	86	102		
DSM, Class 2	1,300	1,361	1,384	1,441	1,431	1,395	1,401	1,457	1,461	1,570	1,553	1,527	1,562	1,579	1,404	1,446	1,568	1,463	1,532	1,465	1,300	1,579		
Gas																								
CCCT F 2x1	1,222	1,222	1,222	1,222	1,819	1,819	1,222	1,222	1,819	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,222	1,819	1,348	1,222	1,819	
CCCT H 2x1	475	475	475	1,425	2,375	2,375	475	475	1,425	1,425	0	0	0	1,900	1,425	1,900	0	2,375	0	1,000	0	2,375		
SCCT Aero UT	0	0	0	0	0	0	0	0	0	118	0	0	0	118	0	0	0	0	0	12	0	118		
Geothermal																								
Geothermal, Blundell 3	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80		
Geothermal, Greenfield	35	0	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	0	31	0	35	
Nuclear																								
Nuclear	0	0	0	0	0	0	0	0	0	0	0	0	3,200	0	0	0	1,600	0	0	253	0	3,200		
Solar																								
Micro Solar - Water Heater	28	24	37	39	36	21	37	34	37	26	37	42	42	40	37	34	45	34	0	33	0	45		
Wind																								
Wind, WYNE 35% CF	0	0	0	0	0	160	0	0	0	160	0	160	0	160	0	0	160	0	160	51	0	160		
Wind, WY 35% CF	143	0	139	136	227	237	137	50	500	600	0	1,800	1,600	940	139	50	2,370	308	1,100	551	0	2,370		
FOT (20yr Average)																								
FOT Mead 3rd Qtr HLH	40	37	36	36	36	40	36	36	36	45	40	40	40	45	38	38	40	36	40	39	36	45		
FOT Mona-3 3rd Qtr HLH	255	255	255	255	210	210	255	255	240	240	255	255	240	240	255	246	255	195	255	244	195	255		
FOT Utah 3rd Qtr HLH	57	54	54	52	54	60	52	52	53	71	50	50	50	71	53	53	50	52	60	55	50	71		
FOT Mona-4 3rd Qtr HLH	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
Growth Resource (10yr Average)																								
Growth Resource Goshen	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100		
Growth Resource Utah North	100	100	100	100	100	100	100	100	100	100	100	100	100	100	21	46	10	100	0	100	83	0		
Growth Resource Wyoming	100	100	100	100	100	100	100	100	100	100	100	100	100	0	100	97	100	100	21	100	90	0		
West																								
Coal																								
Coal Plant Turbine Upgrades	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
CCS																								
CCS Bridger1	0	0	0	227	227	227	0	227	227	227	0	227	227	227	227	227	227	227	227	0	155	0	227	
CCS Bridger2	0	0	0	216	216	216	0	216	216	216	0	216	216	216	216	216	216	216	216	0	148	0	216	
CHP																								
CHP - Biomass	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	84	42	82	42	84	
CHP - Reciprocating Engine	2	3	1	1	1	1	1	1	1	3	1	1	1	3	2	1	0	1	0	1	0	3		
DSM, Class 1	60	60	60	60	60	60	60	60	60	60	60	60	60	60	60	56	60	56	60	59	56	60		
DSM, Class 2	1,226	1,239	1,239	1,257	1,253	1,247	1,253	1,260	1,260	1,264	1,266	1,269	1,270	1,268	1,251	1,259	1,274	1,261	1,272	1,257	1,226	1,274		
Geothermal																								
Geothermal, Greenfield	70	0	105	105	70	70	105	140	245	490	420	420	420	560	105	140	420	105	0	210	0	560		
Other																								
Utility Biomass	50	50	0	0	0	0	0	0	0	50	50	50	50	0	0	0	50	0	0	21	0	50		
Solar																								
OR Solar Cap Standard	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
OR Solar Pilot	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
Micro Solar - Water Heater	15	16	18	21	20	14	22	20	21	18	24	29	29	29	16	19	31	20	0	20	0	31		
Wind																								
Wind, Yakima, 29% CF	0	0	0	0	0	0	0	0	0	0	100	100	100	200	0	0	100	100	0	37	0	200		
Wind, Walla Walla, 29% CF	0	0	0	0	0	0	0	0	0	0	0	100	0	0	0	0	100	0	0	11	0	100		
FOT (20yr Average)																								
FOT COB 3rd Qtr HLH	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33		
FOT MidColumbia 3rd Qtr HLH	372	370	337	231	243	249	369	279	275	274	355	333	310	316	315	280	342	197	368	306	197	372		
FOT MidColumbia 3rd Qtr HLH - 2	22	22	23	23	23	23	23	23	23	22	22	22	22	22	23	23	22	22	22	22	22	23		
FOT S.Central/OR/N.CA 3rd Qtr HLH	39	40	18	18	18	18	18	18	18	18	17	12	16	18	33	37	35	30	20	23	13	40		
Growth Resource (10yr Average)																								
Growth Resource Walla Walla	100	78	100	100	0	0	97	100	23	41	20	73	6	55	0	0	0	0	7	42	0	100		
Growth Resource OR / CA	4	68	100	100	50	46	26	100	45	82	29	56	0	0	0	0	0	0	0	37	0	100		
Growth Resource Yakima	119	100	100	200	120	136	100	200	200	200	200	200	200	200	100	100	100	100	166	150	100	200		

1. Transmission Scenario is referencing the scenario as described in the Portfolio Case Development paper.

Resource List	Region	Detail Description
CCCT F 2x1	East	Combine Cycle Combustion Turbine F-Machine 2x1 with Duct Firing
CCCT H 2x1	East	Combine Cycle Combustion Turbine H-Machine 2x1 with Duct Firing
CCS Hunter3	East	IRP Carbon Capture & Sequestration Hunter 3
CHP - Biomass	East	Combined Heat and Power - Biomass
CHP - Reciprocating Engine	East	Combined Heat and Power - Reciprocating Engine
Coal Plant Turbine Upgrades	East	Coal Plant Turbine Upgrades
DSM, Class 1, GO-DLC-Irrigation	East	IRP DSM Class 1 [Bubble] Direct Load Control-Irrigation
DSM, Class 1, UT-Coolkeeper	East	DSM - Class 1 - Utah Coolkeeper
DSM, Class 1, UT-Curtailment	East	IRP DSM Class 1 [Bubble] Curtailment
DSM, Class 1, UT-DLC-Irrigation	East	IRP DSM Class 1 [Bubble] Direct Load Control-Irrigation
DSM, Class 1, UT-DLC-RES	East	IRP DSM Class 1 [Bubble] Direct Load Control-Residential
DSM, Class 1, UT-Sch-TES	East	IRP DSM Class 1 [Bubble] Scheduled-Thermal Energy Storage
DSM, Class 1, WY-Curtailment	East	IRP DSM Class 1 [Bubble] Curtailment
DSM, Class 2, Goshen	East	DSM, Class 2, - Goshen
DSM, Class 2, Utah	East	DSM, Class 2, - Utah
DSM, Class 2, Wyoming	East	DSM, Class 2, - Wyoming
FOT Mead 3rd Qtr HLH	East	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT Mona-3 3rd Qtr HLH	East	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT Mona-4 3rd Qtr HLH	East	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT Utah 3rd Qtr HLH	East	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
Geothermal, Blundell 3	East	Geothermal (East-Blundell,East-Greenfield, West-Greenfield)
Geothermal, Greenfield	East	Geothermal (East-Blundell,East-Greenfield, West-Greenfield)
Growth Resource Goshen 1/	East	Growth Resource (Goshen)
Growth Resource Utah North 1/	East	Growth Resource (Utah North)
Growth Resource Wyoming 1/	East	Growth Resource (Wyoming)
Micro Solar - Water Heater	East	Micro Solar - Solar Water Heating
Nuclear	East	Nuclear
SCCT Aero UT	East	Simple Cycle Combustion Turbine Aero
Wind, WY, 35% CF	East	[Bubble] Wind 35% Capacity Factor
Wind, WYNE 35% CF	East	Wind, Wyoming NE 35% Capacity Factor
CCS Bridger1	West	IRP Carbon Capture & Sequestration Bridger 1
CCS Bridger2	West	IRP Carbon Capture & Sequestration Bridger 2
CHP - Biomass	West	Combined Heat and Power - Biomass
CHP - Reciprocating Engine	West	Combined Heat and Power - Reciprocating Engine
Coal Plant Turbine Upgrades	West	Coal Plant Turbine Upgrades
DSM, Class 1, OR/CA-Curtailment	West	IRP DSM Class 1 [Bubble] Curtailment
DSM, Class 1, OR/CA-DLC-Irrigation	West	IRP DSM Class 1 [Bubble] Direct Load Control-Irrigation
DSM, Class 1, OR/CA-DLC-RES	West	IRP DSM Class 1 [Bubble] Direct Load Control-Residential
DSM, Class 1, OR/CA-DLC-WtrHtr	West	IRP DSM Class 1 [Bubble] Direct Load Control-Water Heater
DSM, Class 1, WA/OR-DLC-Irrigation	West	IRP DSM Class 1 [Bubble] Direct Load Control-Irrigation
DSM, Class 1, WA/OR-DLC-RES	West	IRP DSM Class 1 [Bubble] Direct Load Control-Residential
DSM, Class 1, YA-DLC-Irrigation	West	IRP DSM Class 1 [Bubble] Direct Load Control-Irrigation
DSM, Class 1, YA-DLC-RES	West	IRP DSM Class 1 [Bubble] Direct Load Control-Residential
DSM, Class 2, Washington	West	DSM, Class 2, - Washington
DSM, Class 2, Oregon/California	West	DSM, Class 2, Oregon/California
DSM, Class 2, Yakima	West	DSM, Class 2, - Yakima
FOT COB 3rd Qtr HLH	West	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT MidColumbia 3rd Qtr HLH	West	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT MidColumbia 3rd Qtr HLH - 2	West	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
FOT S.CentralOR/N.CA 3rd Qtr HLH	West	Front Office Transaction - [Bubble] 3rd Quarter HLH Product
Growth Resource Walla Walla 1/	West	Growth Resource (Walla Walla)
Growth Resource OR / CA 1/	West	Growth Resource (OR / CA)
Growth Resource Yakima 1/	West	Growth Resource (Yakima)
OR Solar Cap Standard	West	Oregon Solar Capacity Standard
OR Solar Pilot	West	Oregon Solar Pilot program
Utility Biomass	West	Utility Biomass
Wind, Walla Walla, 29% CF	West	Wind-Walla Walla, 29% Capacity Factor
Wind, Yakima, 29% CF	West	Wind-Yakima, 29% Capacity Factor

Case 1

Resource	Capacity (MW)																				Resource Totals 2/	
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
East																						
CCCT F 2x1	-	-	-	625	-	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	35
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	23	12	23	6	35	-	143
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	44	23	12	23	6	35	-	143
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	8	10
DSM, Class 1, UT-Curtailment	-	21	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25
DSM, Class 1, UT-DLC-RES	11	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	32
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	11	14
DSM, Class 1, UT-Sch-TES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1 Total	17	50	-	23	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	90	95
DSM, Class 2, Goshen	1	1	1	1	1	1	2	2	1	2	1	2	2	3	3	3	3	3	3	2	13	36
DSM, Class 2, Utah	46	55	59	44	64	41	44	44	45	48	51	55	52	55	55	60	56	59	59	62	489	1,053
DSM, Class 2, Wyoming	3	4	4	5	5	5	6	6	6	7	8	9	10	12	13	17	18	21	26	28	51	211
DSM, Class 2 Total	49	59	64	50	70	47	51	52	53	56	61	65	64	69	71	79	76	82	88	92	552	1,300
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	2.37	-	-	-	2.37	2.37	-	-	-	-	-	23	28
FOT Mead 3rd Qtr HLH	-	168	264	264	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
FOT Utah 3rd Qtr HLH	200	200	200	0	200	-	4	154	-	191	-	-	-	-	-	-	-	-	-	-	115	57
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	8	22	116	103	107	131	123	123	127	140	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	87	182	347	376	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	64	8	130	156	178	202	263	N/A	100
West																						
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	70
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	0.3	0.3	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	4	5	5	5	5	4	4	4	5	5	5	5	5	4	4	3	3	3	44	85
DSM, Class 2, Oregon/California	51	51	54	59	60	59	59	51	51	51	51	51	52	52	52	52	44	36	36	36	547	1,009
DSM, Class 2, Yakima	10	11	6	6	6	6	6	6	6	6	7	7	7	8	8	6	5	6	6	6	68	133
DSM, Class 2 Total	65	66	65	70	71	69	69	61	61	61	62	63	63	64	64	62	53	45	45	45	659	1,226
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	0.97	1.29	0.97	0.97	0.97	-	-	0.97	0.97	0.97	-	-	-	-	-	12	15
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	400	400	400	337	400	309	400	400	400	400	400	400	400	400	400	354	372
FOT MidColumbia 3rd Qtr HLH - 2	-	244	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	50	2	50	50	-	50	-	33	50	50	50	50	50	50	50	50	35	39
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	183	140	110	174	204	188	N/A	100
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	-	N/A	4
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	138	200	284	182	177	210	N/A	119
Annual Additions, Long Term Resources	153	210	199	792	310	740	129	130	597	171	131	133	133	142	223	170	146	160	144	177		
Annual Additions, Short Term Resources	350	1,213	1,419	1,164	1,099	702	754	904	637	941	617	756	866	917	1,185	1,359	1,510	1,626	1,807	1,928		
Total Annual Additions	503	1,422	1,618	1,956	1,409	1,443	883	1,034	1,234	1,112	748	889	999	1,059	1,408	1,529	1,656	1,786	1,951	2,105		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 2

Resource	Capacity (MW)																				Resource Totals 2/	
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
East																						
CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	80	80
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	0.8	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	8	10
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
DSM, Class 1, UT-DLC-RES	11	20	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	11	14
DSM, Class 1, UT-Sch-TES	-	2	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1 Total	17	48	-	20	-	-	10	-	-	2	-	-	-	-	-	-	-	5	-	-	97	102
DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	2	14	38
DSM, Class 2, Utah	46	57	59	43	44	47	52	55	56	74	51	55	53	55	55	60	56	59	63	66	535	1,109
DSM, Class 2, Wyoming	3	4	4	4	5	6	6	7	7	8	8	9	10	12	13	17	18	21	26	28	55	214
DSM, Class 2 Total	49	62	64	48	51	55	60	64	65	84	61	66	65	70	71	79	76	82	92	95	603	1,361
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	-	-	-	-	-	24	24
FOT Mead 3rd Qtr HLH	-	168	264	264	-	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	73	37
FOT Utah 3rd Qtr HLH	200	200	200	16	-	-	62	200	-	200	-	-	-	-	-	-	-	-	-	-	108	54
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	20	70	125	149	148	109	111	125	138	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	109	150	377	344	-	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	50	116	193	150	273	219	-	N/A	100
West																						
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	0.3	0.3	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	5	5	5	5	5	4	5	5	4	5	5	5	5	4	4	3	3	4	45	87
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	51	51	52	52	52	52	44	36	36	36	550	1,011
DSM, Class 2, Yakima	10	11	6	6	6	6	7	7	7	7	7	7	8	8	8	6	5	6	6	7	73	141
DSM, Class 2 Total	65	66	65	70	71	70	71	63	63	64	63	63	63	64	64	62	53	46	46	46	669	1,239
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	-	-	-	-	-	-	-	-	-	-	16	16
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	315	400	400	400	371	400	400	400	400	400	400	400	400	400	400	400	349	370
FOT MidColumbia 3rd Qtr HLH - 2	-	244	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22
FOT S Central/OR/N CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	43	50	50	50	50	50	50	50	50	35	40
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	90	-	146	107	203	236	N/A	78
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	685	N/A	68
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	53	-	99	199	245	48	203	153	N/A	100
Annual Additions, Long Term Resources	153	210	200	776	817	154	162	146	614	205	131	135	134	139	140	147	134	138	142	147		
Annual Additions, Short Term Resources	350	1,213	1,419	1,180	665	789	812	950	671	950	626	763	872	925	1,225	1,398	1,550	1,666	1,844	1,961		
Total Annual Additions	503	1,423	1,619	1,956	1,482	943	974	1,096	1,285	1,155	757	897	1,006	1,064	1,365	1,545	1,684	1,804	1,986	2,108		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 3

Resource	Capacity (MW)																				Resource Totals 2/	
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
East																						
CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	51	53	
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	80	80	
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	35	35	
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	13	49	21	8	9	4	34	-	139	
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	13	49	21	8	9	4	34	-	139	
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20	
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	5	5	
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	26	26	
DSM, Class 1, UT-DLC-RES	11	20	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	37	37	
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
DSM, Class 1, UT-Sch-TEES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
DSM, Class 1 Total	17	50	-	20	-	-	5	-	-	5	-	-	-	-	-	-	-	-	-	97	97	
DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	2	14	38	
DSM, Class 2, Utah	46	55	59	43	44	47	50	53	55	64	52	60	57	59	60	65	60	63	64	517	1,125	
DSM, Class 2, Wyoming	3	4	4	4	5	6	6	7	7	8	8	9	10	12	13	17	20	23	29	55	221	
DSM, Class 2 Total	49	59	64	48	51	55	58	62	64	74	62	70	69	74	75	84	82	89	95	586	1,384	
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	24	37	
FOT Mead 3rd Qtr HLH	-	168	264	264	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36	
FOT Utah 3rd Qtr HLH	200	200	200	17	-	-	57	198	-	200	-	-	-	-	-	-	-	-	-	107	54	
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255	
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	20	32	68	90	179	109	196	161	N/A	100	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	168	352	353	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	334	-	329	336	N/A	100	
West																						
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	12	12	
Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	35	-	-	-	-	70	105	
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84	
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	1	1	
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4	4	
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
DSM, Class 1 Total	-	-	50	-	-	-	6	-	-	4	-	-	-	-	-	-	-	-	-	60	60	
DSM, Class 2, Washington	4	4	4	5	5	5	5	4	5	5	5	5	5	5	5	4	4	3	4	45	87	
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	51	51	52	52	52	52	44	36	36	36	550	1,014	
DSM, Class 2, Yakima	8	11	6	6	6	6	6	7	7	7	7	7	8	8	6	5	6	6	7	70	138	
DSM, Class 2 Total	63	66	65	70	71	70	70	63	64	63	63	64	65	65	63	53	46	46	46	665	1,239	
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	-	-	0.97	0.97	-	-	-	-	-	16	18	
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	299	400	400	400	370	400	-	69	400	400	400	400	400	400	400	347	337	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	
FOT S.CentralOR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	35	18	
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	52	131	209	-	205	-	203	N/A	100	
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	279	-	-	N/A	100	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	318	369	78	11	142	82	-	-	-	N/A	100	
Annual Additions, Long Term Resources	151	210	200	776	837	153	150	144	613	202	135	141	142	161	267	173	149	149	150	184	184	
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	649	774	807	948	670	950	624	758	862	910	1,144	1,314	1,461	1,577	1,752	1,867	1,867	
Total Annual Additions	501	1,422	1,620	1,957	1,486	927	958	1,092	1,283	1,152	759	899	1,004	1,071	1,411	1,487	1,610	1,726	1,902	2,051	2,051	

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 4

		Capacity (MW)																		Resource Totals 2/			
Resource	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East																							
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	475	475	475	1,425
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53	
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	80	80	
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	35	
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	49	20	8	9	4	34	-	136
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	49	20	8	9	4	34	-	136
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20	
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	0.0	-	-	-	-	-	-	-	-	-	-	2	2	
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	8	10	
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	
DSM, Class 1, UT-DLC-RES	11	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	11	14	
DSM, Class 1, UT-Sch-TES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
DSM, Class 1 Total	16	51	-	20	-	-	10	-	-	-	-	-	-	-	-	5	-	-	-	-	97	102	
DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	14	41	
DSM, Class 2, Utah	47	54	59	43	44	51	52	54	57	60	56	63	61	63	64	68	63	67	68	74	520	1,166	
DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	9	11	14	15	19	20	24	29	28	56	233	
DSM, Class 2 Total	50	58	64	49	51	58	60	63	66	69	67	74	74	80	82	90	86	94	100	104	590	1,441	
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	24	39	
FOT Mead 3rd Qtr HLH	-	168	264	264	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36	
FOT Utah 3rd Qtr HLH	200	200	200	17	-	44	185	-	-	200	-	-	-	-	-	-	-	-	-	-	105	52	
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255	
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	20	32	137	97	185	97	167	123	136	N/A	100	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	105	242	287	366	-	-	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	144	177	204	173	302	-	-	N/A	100	
West																							
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12	
Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	70	105	
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84	
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
DSM, Class 1 Total	-	-	50	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60	
DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	46	91	
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	36	551	1,018	
DSM, Class 2, Yakima	8	11	6	6	6	6	7	7	7	7	8	8	8	8	9	7	6	7	6	7	71	147	
DSM, Class 2 Total	63	66	65	70	72	71	71	63	63	64	64	65	66	67	67	64	55	47	47	47	668	1,257	
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.48	0.97	0.97	-	-	-	-	-	-	16	21	
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	298	400	400	400	357	400	-	-	107	312	400	350	-	-	-	-	345	231	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	35	18	
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	3	150	-	43	-	204	200	202	199	N/A	100	
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	214	-	221	565	N/A	100	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	313	426	261	-	-	-	151	204	443	202	N/A	200	
Annual Additions, Long Term Resources	152	210	200	777	837	156	161	144	614	188	143	149	148	168	276	187	154	155	631	1,388			
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	648	771	794	935	657	950	619	748	850	893	1,121	1,282	1,426	1,538	1,290	1,402			
Total Annual Additions	502	1,422	1,620	1,957	1,485	927	955	1,079	1,271	1,138	762	897	998	1,060	1,397	1,468	1,580	1,693	1,920	2,790			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 5

		Capacity (MW)																			Resource Totals 2/		
Resource	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East																							
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	597	1,222	1,819
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	475	475	475	475	475	475	2,375
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	80	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	35	35
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	13	139	21	8	9	4	34	-	227	227
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	13	139	21	8	9	4	34	-	227	227
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20	20
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	5	5	5
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8	8
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	26
DSM, Class 1, UT-DLC-RES	11	20	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	37	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	11
DSM, Class 1, UT-Sch-TES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3
DSM, Class 1 Total	17	50	-	20	-	-	5	-	-	5	-	-	-	-	-	-	-	-	-	-	97	97	97
DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	14	41	41
DSM, Class 2, Utah	46	54	59	43	44	47	52	53	56	61	56	60	57	63	64	68	64	67	68	74	517	1,158	1,158
DSM, Class 2, Wyoming	3	4	4	4	4	5	6	6	7	8	9	9	11	13	15	19	20	24	29	28	55	232	232
DSM, Class 2 Total	49	59	64	48	51	55	60	62	66	71	67	71	70	80	82	90	87	94	100	105	586	1,431	1,431
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	2.64	2.64	2.64	2.37	-	-	-	-	-	24	36	36
FOT Mead 3rd Qtr HLH	-	168	264	264	-	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36	36
FOT Utah 3rd Qtr HLH	200	200	200	17	-	56	196	-	-	200	-	-	-	-	-	-	-	-	-	-	107	54	54
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	-	-	-	210	210	210
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	6	20	32	45	110	161	144	171	173	139	-	N/A	100	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	346	494	160	-	-	-	N/A	100	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	224	218	412	132	-	N/A	100	100
West																							
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12	12
Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70	70	70
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84	84
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	1	1	1
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6
DSM, Class 1, OR/CA-DLC-WrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	4	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	6
DSM, Class 1 Total	-	-	50	-	-	-	6	-	-	4	-	-	-	-	-	-	-	-	-	-	60	60	60
DSM, Class 2, Washington	4	4	4	5	5	5	5	4	5	5	5	5	5	5	5	5	4	4	4	4	45	90	90
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	36	550	1,017	1,017
DSM, Class 2, Yakima	8	11	6	6	6	6	6	7	7	7	8	8	8	9	9	7	6	7	6	7	70	145	145
DSM, Class 2 Total	63	66	65	70	71	70	70	63	63	64	64	65	65	66	67	64	55	47	47	47	666	1,253	1,253
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.97	0.97	0.97	0.97	-	-	-	-	-	-	16	20	20
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	299	400	400	400	368	400	314	400	400	284	-	-	-	-	-	-	347	243	243
FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	23
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	35	18	18
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	31	122	269	-	-	74	-	-	-	N/A	50	50
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	388	145	151	157	186	170	N/A	120	120
Annual Additions, Long Term Resources	152	209	200	776	837	153	152	144	614	199	142	145	144	167	330	181	630	630	631	1,985			
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	649	774	806	946	668	950	620	751	855	898	1,158	1,324	1,047	739	491	308			
Total Annual Additions	502	1,422	1,620	1,957	1,486	927	958	1,091	1,282	1,149	762	896	999	1,066	1,488	1,505	1,677	1,369	1,121	2,294			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 6

		Capacity (MW)																			Resource Totals 2/			
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280	
	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,819	
	CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	475	475	475	475	475	2,375
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Greenfield	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	35	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	162	-	-	-	-	-	-	21	8	9	4	34	162	237
	Wind, WYNE 35% CF	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	160
	Total Wind	-	-	-	-	-	-	160	-	-	162	-	-	-	-	-	-	21	8	9	4	34	322	397
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	8	8
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
	DSM, Class 1, UT-DLC-RES	10	21	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	35	35
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, UT-Sch-TES	-	0	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, WY-Curtailment	-	5	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	7	7
	DSM, Class 1 Total	16	53	3	-	-	-	-	29	-	-	-	-	-	-	-	-	-	-	-	-	-	102	102
	DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	14	41
	DSM, Class 2, Utah	46	50	56	38	44	47	49	50	52	54	56	60	57	63	64	68	64	67	68	74	486	1,127	
	DSM, Class 2, Wyoming	3	4	4	4	5	5	6	7	6	7	9	9	11	13	15	19	20	24	29	28	51	228	
	DSM, Class 2 Total	49	55	61	43	50	54	56	59	60	63	67	71	70	80	82	90	87	94	100	105	550	1,395	
	Micro Solar - Water Heater	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	-	-	-	-	-	-	-	-	21	21
	FOT Mead 3rd Qtr HLH	-	168	264	264	-	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
	FOT Utah 3rd Qtr HLH	200	200	200	41	-	12	158	200	-	198	-	-	-	-	-	-	-	-	-	-	-	121	60
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	-	-	-	210	210
	FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
	Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	20	33	46	60	160	172	192	173	139	N/A	100	
	Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	330	467	202	-	-	-	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	253	422	164	-	N/A	100		
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
	Geothermal, Greenfield	-	-	-	-	-	-	-	35	-	35	-	-	-	-	-	-	-	-	-	-	-	70	70
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WuHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
	DSM, Class 2, Washington	4	4	4	5	5	5	5	4	4	4	5	5	5	5	5	5	5	4	4	4	4	44	89
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	51	52	52	52	52	52	53	52	44	37	37	36	549	1,016	
	DSM, Class 2, Yakima	8	11	6	6	6	6	6	7	6	6	8	8	8	9	9	7	6	7	6	7	67	142	
	DSM, Class 2 Total	63	66	65	69	71	70	70	62	61	62	64	65	65	66	67	64	55	47	47	47	660	1,247	
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
	Micro Solar - Water Heater	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	-	-	-	-	-	-	-	-	-	-	-	-	-	14	14
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
	FOT MidColumbia 3rd Qtr HLH	-	400	400	400	385	400	400	400	339	400	313	400	400	345	-	-	-	-	-	-	-	352	249
	FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23
	FOT S Central/OR/CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	35	18
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	32	124	211	90	-	-	-	-	-	-	-	N/A	46	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	413	271	155	161	189	173	N/A	136		
Annual Additions, Long Term Resources	155	208	199	751	766	152	296	249	646	327	138	141	151	154	181	630	630	631	1,985					
Annual Additions, Short Term Resources	350	1,213	1,420	1,205	735	861	908	950	639	948	619	752	857	902	1,193	1,359	1,082	774	526	312				
Total Annual Additions	505	1,421	1,619	1,955	1,501	1,012	1,203	1,199	1,285	1,275	758	893	997	1,053	1,347	1,540	1,712	1,404	1,157	2,298				

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 7

		Capacity (MW)																			Resource Totals 2/		
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
East	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
	CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	12	49	21	8	9	4	34	-	137
	Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	12	49	21	8	9	4	34	-	137
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	8	10
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
	DSM, Class 1, UT-DLC-RES	21	11	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	37	37
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	11	14
	DSM, Class 1, UT-Sch-TEES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1 Total	26	41	-	20	-	-	5	-	-	5	-	-	-	-	-	-	-	-	5	-	97	102
	DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	14	38
	DSM, Class 2, Utah	47	54	59	43	44	51	52	53	56	60	56	60	57	60	60	65	60	63	64	69	519	1,132
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	9	11	13	14	18	20	23	29	28	56	230
	DSM, Class 2 Total	50	58	64	49	51	58	60	63	66	69	67	71	70	76	77	86	82	89	95	99	589	1,401
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	-	24	37
	FOT Mead 3rd Qtr HLH	-	168	264	264	264	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36
	FOT Utah 3rd Qtr HLH	190	200	200	17	-	-	50	190	-	200	-	-	-	-	-	-	-	-	-	-	105	52
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
	FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	51	152	147	77	96	100	111	124	137	N/A	100	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	52	-	285	370	293	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	2	53	7	68	-	355	187	328	-	N/A	100	
West	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	12	12	
	Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	35	-	-	-	-	70	105	
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
	DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	46	91
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	52	52	44	36	36	36	551	1,016
	DSM, Class 2, Yakima	8	11	6	6	6	7	7	7	7	7	8	8	8	9	9	7	6	6	6	7	72	146
	DSM, Class 2 Total	63	66	66	70	72	71	71	63	64	64	65	65	66	66	66	64	54	46	47	47	669	1,253
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
	Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	1.29	1.29	1.29	0.97	-	-	-	-	-	16	22
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
	FOT MidColumbia 3rd Qtr HLH	-	400	400	400	298	400	400	400	362	400	314	400	400	400	400	400	400	400	400	400	346	369
	FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23
	FOT S.CentralOR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	35	18
	Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	208	177	202	5	175	199	N/A	97
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	261	-	-	-	N/A	26	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	140	208	184	102	176	191	N/A	100	
Annual Additions, Long Term Resources	162	200	200	777	837	157	156	144	614	193	142	145	145	163	270	176	150	154	150	185			
Annual Additions, Short Term Resources	340	1,213	1,420	1,181	648	770	800	940	662	950	620	751	854	900	1,132	1,300	1,447	1,558	1,733	1,848			
Total Annual Additions	502	1,412	1,620	1,957	1,485	927	955	1,084	1,276	1,143	762	896	999	1,063	1,402	1,476	1,596	1,712	1,883	2,032			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 8

		Capacity (MW)																		Resource Totals 2/					
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year		
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280	
	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222	
	CCCT H 2x1	-	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475	
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53	
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80	
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	35	
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	9	4	34	-	50	
	Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	9	4	34	-	50	
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20	
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	8	10	
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	
	DSM, Class 1, UT-DLC-RES	10	21	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	11	14	
	DSM, Class 1 Total	16	48	-	20	-	-	10	-	-	-	-	-	-	-	2	-	3	-	-	-	-	94	99	
	DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	15	42	
	DSM, Class 2, Utah	47	57	59	43	46	50	52	54	55	60	59	63	61	63	65	69	64	67	68	77	524	1,181		
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	10	11	14	15	19	20	24	29	28	56	234		
	DSM, Class 2 Total	51	62	64	49	53	57	61	63	65	69	70	75	74	80	83	91	87	94	100	108	594	1,457		
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	2.37	-	-	-	-	-	-	-	24	34	
	FOT Mead 3rd Qtr HLH	-	168	264	264	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36	
	FOT Utah 3rd Qtr HLH	200	200	200	17	-	-	43	184	-	200	-	-	-	-	-	-	-	-	-	-	-	104	52	
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255	
	FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	19	32	44	58	195	144	195	171	136	N/A	100			
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	117	205	308	370	N/A	100		
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	222	185	365	228	-	N/A	100			
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227	
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	
	Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	70	-	-	-	-	-	-	70	140	
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84	
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	
	DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1 Total	-	-	50	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60	
	DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	46	92	
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	36	551	1,019		
	DSM, Class 2, Yakima	8	11	6	6	6	7	7	7	7	7	8	9	9	9	9	7	6	7	6	7	72	149		
	DSM, Class 2 Total	63	66	66	70	72	71	71	63	63	64	65	66	66	67	67	64	55	47	47	47	670	1,260		
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
	Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.97	0.97	0.97	0.97	-	-	-	-	-	-	-	16	20	
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
	FOT MidColumbia 3rd Qtr HLH	-	400	400	400	297	400	400	400	317	400	-	99	400	371	400	400	400	400	103	-	-	341	279	
	FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	
FOT S.CentralOR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	-	35	18		
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	0	47	142	206	-	204	-	201	-	199	N/A	100			
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	N/A	100		
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	312	328	68	-	121	131	41	334	466	200	N/A	200			
Annual Additions, Long Term Resources	153	210	200	777	839	156	161	144	658	143	146	150	149	193	225	163	150	155	156	916	-	-			
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	647	770	793	934	617	950	617	746	847	857	1,085	1,247	1,390	1,503	1,674	2,205	-	-			
Total Annual Additions	503	1,423	1,620	1,957	1,486	926	955	1,078	1,275	1,093	764	896	996	1,049	1,311	1,411	1,541	1,658	1,830	3,121	-	-			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 9

		Capacity (MW)																		Resource Totals 2/					
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year		
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280	
	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,819	
	CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475	475	1,425
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53	
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80	
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	35	
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	49	21	8	9	200	200	-	500	
	Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	49	21	8	9	200	200	-	500	
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	8	10	
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	
	DSM, Class 1, UT-DLC-RES	10	21	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	37	37	
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	11	14	
	DSM, Class 1 Total	16	48	-	20	-	-	5	-	-	5	-	-	-	-	-	5	-	-	-	-	-	94	99	
	DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	14	42	
	DSM, Class 2, Utah	47	57	59	43	44	50	52	54	57	60	56	63	61	63	65	69	64	70	70	70	77	523	1,183	
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	9	11	14	15	19	20	24	30	29	-	56	236	
	DSM, Class 2 Total	51	62	64	49	51	58	60	63	66	69	67	75	74	80	83	91	88	97	103	109	-	594	1,461	
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	-	24	37	
	FOT Mead 3rd Qtr HLH	-	168	264	264	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	72	36	
	FOT Utah 3rd Qtr HLH	200	200	200	17	-	-	53	194	-	200	-	-	-	-	-	-	-	-	-	-	-	106	53	
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	-	210	240	
	FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
	Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	48	48	69	59	82	97	169	196	227	-	N/A	100	
	Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	33	114	172	82	164	344	92	-	-	N/A	100	
	Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	10	9	20	83	17	287	260	314	-	N/A	100	
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227	
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12	
	Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	35	-	-	-	-	70	70	70	245	
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84	
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	
	DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1 Total	-	-	50	-	-	-	6	-	-	4	-	-	-	-	-	-	-	-	-	-	-	60	60	
	DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	46	92	
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	37	-	551	1,019	
	DSM, Class 2, Yakima	8	11	6	6	6	7	7	7	7	7	8	9	9	9	9	7	6	7	6	7	-	72	149	
	DSM, Class 2 Total	63	66	66	70	72	71	71	63	63	64	65	66	66	67	67	64	55	47	47	48	-	669	1,260	
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
	Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.97	1.29	0.97	0.97	0.97	-	-	-	-	-	-	16	21	
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
	FOT MidColumbia 3rd Qtr HLH	-	400	400	400	298	400	400	400	366	400	313	400	400	400	400	119	-	-	-	-	-	346	275	
	FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	
	FOT S.CentralOR/N.CA 3rd Qtr HLH	-	50	50	50	-	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	-	35	18	
	Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	205	-	-	-	-	-	N/A	23	
	Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	452	-	-	-	-	N/A	45	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	57	-	143	408	392	433	371	196	-	N/A	200		
Annual Additions, Long Term Resources	152	210	200	777	837	156	152	144	614	197	143	150	149	168	278	187	156	158	901	2,227	-	-	-		
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	648	771	803	944	666	950	619	748	849	892	1,119	1,279	1,421	1,532	1,218	737	-	-	-		
Total Annual Additions	502	1,423	1,620	1,957	1,485	927	955	1,088	1,280	1,147	762	898	998	1,060	1,397	1,466	1,577	1,690	2,119	2,964	-	-	-		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 10

Resource	Capacity (MW)																				Resource Totals 2/	
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	625	1,222
CCCT H 2x1	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	-	475	475	1,425
SCCT Aero UT	-	-	-	-	-	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118	118
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51
Geothermal, Blandell 3	-	-	-	-	35	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	80
Geothermal, Greenfield	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	200	-	-	-	-	-	-	-	-	-	200	200	600
Wind, WYNE 35% CF	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160
Total Wind	-	-	-	-	-	-	160	-	-	200	-	-	-	-	-	-	-	-	-	200	200	760
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10
CHP - Reciprocating Engine	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	8
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	8
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
DSM, Class 1, UT-DLC-RES	9	22	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	11
DSM, Class 1, UT-Sch-TES	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
DSM, Class 1 Total	15	49	-	-	20	-	14	-	-	-	-	-	-	-	5	-	-	-	-	-	-	97
DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	15
DSM, Class 2, Utah	47	56	60	53	68	71	71	59	71	74	56	63	61	63	65	69	64	70	70	77	630	
DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	9	11	14	15	19	20	24	31	29	57	
DSM, Class 2 Total	51	60	65	59	75	79	79	69	81	85	67	75	74	80	83	91	88	97	104	109	701	
Micro Solar - Water Heater	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	-	-	-	-	-	-	26
FOT Mead 3rd Qtr HLH	-	168	264	264	99	99	-	2.64	-	-	-	-	-	-	-	-	-	-	-	-	-	89
FOT Utah 3rd Qtr HLH	200	200	200	26	200	188	200	-	-	200	-	-	-	-	-	-	-	-	-	-	-	141
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	-	210
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	42	34	45	59	110	97	197	199	211	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	9	76	147	46	259	-	334	129	-	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	343	394	263	N/A	100
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12
Geothermal, Greenfield	-	-	-	-	70	70	70	-	70	70	-	-	-	-	-	-	-	-	70	70	350	490
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42
CHP - Reciprocating Engine	0.3	0.3	0.3	0.3	0.3	0.3	0.3	-	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	3
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	2	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
DSM, Class 1 Total	-	-	49	-	2	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60
DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	47
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	53	52	44	37	37	37	37	551	
DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	8	9	9	9	9	9	7	6	7	6	7	75	
DSM, Class 2 Total	65	66	66	71	72	71	71	63	63	64	66	66	67	67	64	55	47	47	48	48	673	
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
Micro Solar - Water Heater	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	-	-	-	-	-	-	-	-	-	-	-	18
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	400	400	365	392	400	315	400	400	400	400	-	-	-	-	-	-	356
FOT MidColumbia 3rd Qtr HLH - 2	-	244	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45
FOT S.Central/OR/CA 3rd Qtr HLH	-	50	50	50	50	50	50	-	-	50	-	-	-	-	-	-	-	-	-	-	-	35
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	43	6	151	205	-	-	-	-	-	N/A
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	781	-	40	-	-	N/A
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	232	473	313	426	225	331	-	200
Annual Additions, Long Term Resources	158	210	200	768	337	367	448	626	270	429	139	146	146	152	155	166	148	149	902	2,227		
Annual Additions, Short Term Resources	350	1,213	1,418	1,190	1,099	1,037	950	665	692	950	621	751	853	898	1,188	1,348	1,490	1,601	1,287	805		
Total Annual Additions	508	1,422	1,619	1,958	1,436	1,404	1,398	1,290	962	1,379	760	897	999	1,050	1,343	1,513	1,638	1,749	2,189	3,032		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 11

Resource	Capacity (MW)																			Resource Totals 2/		
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year
East																						
CCCT F 2x1	-	-	-	625	-	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	35	35
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	0.0	0.8	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	8	10
DSM, Class 1, UT-Curtailment	-	21	-	2	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	26	26
DSM, Class 1, UT-DLC-RES	10	22	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	11	14
DSM, Class 1, UT-Sch-TES	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1 Total	16	48	-	22	1	-	-	-	-	10	-	-	-	-	-	-	5	-	-	-	97	102
DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	15	44
DSM, Class 2, Utah	47	57	59	47	58	52	54	71	72	74	61	65	62	67	68	72	66	70	70	77	591	1,269
DSM, Class 2, Wyoming	3	4	4	5	5	6	7	8	8	8	9	10	11	14	15	19	20	24	31	29	57	240
DSM, Class 2 Total	51	62	64	53	65	60	62	80	81	85	72	77	76	84	86	94	90	97	104	109	664	1,553
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	-	24	37
FOT Mead 3rd Qtr HLH	-	168	264	264	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
FOT Utah 3rd Qtr HLH	200	200	200	-	200	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	100	50
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	5	50	72	77	132	139	96	149	145	135	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	170	-	246	259	325	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	68	174	-	178	254	326	N/A	100
West																						
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Geothermal, Greenfield	-	-	-	-	70	35	70	70	70	70	-	-	-	-	-	-	-	35	-	-	385	420
Wind, Yakima, 29% CF	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Total Wind	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	47	93
DSM, Class 2, Oregon/California	51	51	54	59	61	60	59	52	52	52	52	52	53	53	52	44	37	37	37	37	552	1,021
DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	7	8	9	9	9	9	7	6	7	6	7	75	152
DSM, Class 2 Total	65	66	66	71	72	71	71	64	64	64	65	66	66	67	67	64	55	47	47	48	674	1,266
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	0.97	-	-	-	-	-	16	24
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	311	342	400	400	400	81	393	400	400	400	400	400	400	400	365	345	355
FOT MidColumbia 3rd Qtr HLH - 2	-	244	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22
FOT S.Central/OR.N.CA 3rd Qtr HLH	-	50	50	50	50	50	-	6	34	50	-	-	-	-	-	-	-	-	-	-	34	17
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	174	-	-	-	N/A	20
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	292	-	-	-	N/A	29
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	229	-	70	104	268	124	205	273	356	371	N/A	200
Annual Additions, Long Term Resources	155	310	201	790	310	791	213	232	269	275	149	153	152	160	162	164	155	184	157	162		
Annual Additions, Short Term Resources	350	1,213	1,415	1,164	1,099	661	642	706	734	950	616	743	842	881	1,168	1,330	1,467	1,546	1,714	1,822		
Total Annual Additions	505	1,523	1,616	1,954	1,409	1,452	854	938	1,003	1,225	765	895	994	1,042	1,330	1,494	1,621	1,730	1,871	1,983		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 12

		Capacity (MW)																			Resource Totals 2/			
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
	CCCT F 2x1	-	-	-	625	-	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	35	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	200	200	200	200	200	200	200	200	200	-	1,800
	Wind, WYNE 35% CF	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	160
	Total Wind	-	-	-	-	-	-	160	-	-	-	-	-	200	200	200	200	200	200	200	200	200	160	1,960
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	8	10
	DSM, Class 1, UT-Curtailment	-	21	-	2	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	26	26
	DSM, Class 1, UT-DLC-RES	10	22	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	37	37
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	11	14
	DSM, Class 1 Total	16	48	-	22	1	-	-	-	-	7	-	-	2	-	-	-	3	-	-	-	-	94	99
	DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	15	45
	DSM, Class 2, Utah	47	57	59	47	54	52	54	55	57	73	62	67	64	68	68	72	66	70	70	70	77	554	1,240
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	8	8	9	10	11	14	15	20	21	25	31	29	-	57	242
	DSM, Class 2 Total	51	62	64	53	61	60	62	65	67	83	74	79	78	85	87	95	91	98	104	109	-	627	1,527
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	24	42
	FOT Mead 3rd Qtr HLH	-	168	264	264	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
	FOT Utah 3rd Qtr HLH	200	200	200	-	200	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	100	50
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	59	79	88	63	120	125	95	115	121	134	-	N/A	100	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	3	-	184	304	459	-	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	91	21	59	-	-	115	-	190	202	321	-	N/A	100	
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	227	
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
	Geothermal, Greenfield	-	-	-	-	70	70	70	70	70	70	-	-	-	-	-	-	-	-	-	-	-	420	420
	Wind, Yakima, 29% CF	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
	Wind, Walla Walla, 29% CF	-	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
	Total Wind	-	100	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	200
	Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-RES	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
	DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	47	93
	DSM, Class 2, Oregon/California	51	51	54	59	61	60	59	52	52	52	52	52	52	53	53	53	45	37	37	37	-	552	1,023
	DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	7	8	9	9	9	10	7	6	7	7	7	-	75	154
	DSM, Class 2 Total	65	66	66	71	72	71	71	63	64	64	65	66	66	68	68	65	55	48	47	48	-	674	1,269
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	0.97	0.97	-	-	-	16	29	
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	313	311	388	397	400	134	339	387	400	400	400	400	400	400	400	-	341	333	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22	
FOT S.Central/OR/NCA 3rd Qtr HLH	-	50	50	50	50	17	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	27	13	
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	111	189	59	187	184	-	N/A	73	
Growth Resource OR / CA 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	286	-	-	271	-	N/A	56	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	30	-	-	110	288	262	185	316	218	592	-	N/A	200	
Annual Additions, Long Term Resources	155	310	201	790	405	825	373	216	290	234	151	355	356	362	365	372	355	351	357	1,085	-	-		
Annual Additions, Short Term Resources	350	1,213	1,415	1,164	1,099	630	611	688	697	950	614	739	834	873	1,158	1,316	1,455	1,564	1,732	2,261	-	-		
Total Annual Additions	505	1,523	1,616	1,954	1,504	1,456	983	904	987	1,184	765	1,094	1,191	1,235	1,523	1,688	1,809	1,915	2,089	3,346	-	-		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 13

Resource	Capacity (MW)																				Resource Totals 2/		
	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East																							
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	-	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	35	35
Nuclear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3,200	-	3,200
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	200	200	200	200	200	200	200	200	200	-	1,600
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	200	200	200	200	200	200	200	200	200	-	1,600
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	0.8	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	8	10
DSM, Class 1, UT-Curtailment	-	21	-	2	1	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	26	26
DSM, Class 1, UT-DLC-RES	10	22	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	1	-	2	-	-	-	-	-	11	14
DSM, Class 1, UT-Sch-TES	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1 Total	16	48	-	22	1	-	-	-	-	10	-	-	-	2	-	3	-	-	-	-	-	97	102
DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	15	45
DSM, Class 2, Utah	47	57	59	47	58	52	54	71	72	74	61	67	64	67	68	72	66	70	70	77	77	591	1,275
DSM, Class 2, Wyoming	3	4	4	5	5	6	7	8	8	8	9	10	11	14	15	20	21	25	31	29	29	57	242
DSM, Class 2 Total	51	62	64	53	65	60	62	80	81	85	72	79	78	85	86	95	91	98	104	109	109	664	1,562
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	24	42
FOT Mead 3rd Qtr HLH	-	168	264	264	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
FOT Utah 3rd Qtr HLH	200	200	200	-	200	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	100	50
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	240
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	5	41	67	83	120	125	116	160	150	134	134	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	81	163	9	343	404	-	-	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	71	92	70	138	224	193	212	-	-	N/A	100
West																							
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Geothermal, Greenfield	-	-	-	-	70	35	70	70	70	70	-	-	-	-	-	35	-	-	-	-	-	385	420
Wind, Yakima, 29% CF	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Total Wind	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	0.3	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	47	93
DSM, Class 2, Oregon/California	51	51	54	59	61	60	59	52	52	52	52	52	53	53	53	45	37	37	37	37	37	552	1,022
DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	8	8	9	9	9	10	7	6	7	7	7	7	75	154
DSM, Class 2 Total	65	66	66	71	72	71	71	64	64	64	65	66	66	67	68	65	55	48	47	48	48	674	1,270
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	1.29	0.97	0.97	0.97	0.97	0.97	16	29
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	341	342	400	400	400	310	400	400	400	400	400	400	400	400	400	400	348	310
FOT MidColumbia 3rd Qtr HLH - 2	-	244	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22
FOT S.Central/OR/CA 3rd Qtr HLH	-	50	50	50	50	20	-	6	34	50	-	-	-	-	-	-	-	-	-	-	-	31	16
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	-	-	-	-	N/A	6
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	190	162	313	539	636	160	160	N/A	200
Annual Additions, Long Term Resources	155	310	201	790	310	791	213	232	269	275	149	155	354	364	364	407	355	351	358	4,285			
Annual Additions, Short Term Resources	350	1,213	1,415	1,164	1,099	661	642	706	734	950	616	741	838	875	1,161	1,287	1,426	1,535	1,703	294			
Total Annual Additions	505	1,523	1,616	1,954	1,409	1,452	854	938	1,003	1,225	765	896	1,192	1,238	1,524	1,694	1,781	1,886	2,061	4,579			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 14

		Capacity (MW)																			Resource Totals 2/			
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280	
	CCCT F 2x1	-	-	-	625	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	625	1,222	597
	CCCT H 2x1	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	-	-	475	475	475	1,900	118
	SCCT Aero UT	-	-	-	-	-	118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	118	53
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Blandell 3	-	-	-	-	35	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	51	35
	Geothermal, Greenfield	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	200	200	140	-	-	-	-	-	-	-	-	-	200	200	940	160
	Wind, WYNE 35% CF	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	200
	Total Wind	-	-	-	-	-	-	160	200	200	140	-	-	-	-	-	-	-	-	-	200	200	1,100	700
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	20	10
	CHP - Reciprocating Engine	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	7	7
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	-	8	-	-	-	-	-	-	-	1	-	-	-	-	1	-	-	-	10	8
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
	DSM, Class 1, UT-DLC-RES	9	22	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	-	11	-	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	14	11
	DSM, Class 1, UT-Sch-TES	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1 Total	15	49	-	-	20	-	14	-	-	-	-	1	1	-	-	-	3	-	-	-	-	102	97
	DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	44	15
	DSM, Class 2, Utah	47	56	59	47	68	71	71	57	71	74	59	65	62	65	68	72	66	70	70	77	77	1,296	622
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	7	8	9	10	11	14	15	19	20	25	31	29	239	57
	DSM, Class 2 Total	51	60	64	53	75	79	79	66	81	85	71	77	76	82	86	94	90	98	104	109	109	1,579	694
Micro Solar - Water Heater	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	40	26	
FOT Mead 3rd Qtr HLH	-	168	264	264	99	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	89	
FOT Utah 3rd Qtr HLH	200	200	200	30	200	188	200	-	-	-	200	-	-	-	-	-	-	-	-	-	-	71	142	
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	9	240	210	
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	15	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	-	5	18	31	43	97	212	229	109	122	135	100	N/A	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	167	-	-	-	21	N/A	
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227	
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
	Geothermal, Greenfield	-	-	-	-	70	70	70	-	70	70	-	-	-	-	-	-	-	-	70	70	70	560	350
	Wind, Yakima, 29% CF	-	-	-	-	100	-	40	-	-	60	-	-	-	-	-	-	-	-	-	-	-	200	200
	Total Wind	-	-	-	-	100	-	40	-	-	60	-	-	-	-	-	-	-	-	-	-	-	200	200
	Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	84	42
	CHP - Reciprocating Engine	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	-	3	-	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
	DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	93	47
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	37	37	1,021	552
	DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	7	8	9	9	10	7	6	7	7	7	7	7	154	75
	DSM, Class 2 Total	65	66	66	71	72	71	71	63	63	64	65	66	66	67	68	65	55	48	47	48	48	1,268	673
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
Micro Solar - Water Heater	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	1.29	1.29	1.29	1.29	0.97	0.97	0.97	0.97	-	29	18	
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	33	65	
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	400	400	367	394	400	311	400	400	400	400	400	400	400	49	-	-	316	356	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	204	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	45	
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	50	50	50	-	-	50	-	-	-	-	-	115	204	203	-	-	-	18	35	
Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-	55	N/A	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	111	140	257	168	170	638	360	157	200	N/A	
Annual Additions, Long Term Resources	158	210	201	763	438	367	486	823	470	429	148	153	152	158	163	168	151	696	903	2,227				
Annual Additions, Short Term Resources	350	1,213	1,418	1,194	1,099	1,037	950	667	694	950	617	743	841	883	1,169	1,329	1,469	1,096	781	300				
Total Annual Additions	508	1,422	1,619	1,957	1,538	1,404	1,436	1,490	1,164	1,379	764	896	994	1,041	1,332	1,497	1,620	1,792	1,684	2,527				

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 15

		Capacity (MW)																		Resource Totals 2/			
Resource	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East																							
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	475	475	-	-	-	475	1,425
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	35
Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	14	49	21	8	9	4	34	-	-	139
Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	14	49	21	8	9	4	34	-	-	139
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	0.8	0.8	0.8	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8
DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26
DSM, Class 1, UT-DLC-RES	11	20	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, UT-Sch-TES	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1 Total	17	50	-	20	-	-	5	-	-	5	-	-	-	-	-	-	-	-	-	-	-	97	97
DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	14	40
DSM, Class 2, Utah	46	55	59	43	44	47	50	53	56	60	56	60	57	60	60	65	63	66	67	69	69	515	1,136
DSM, Class 2, Wyoming	3	4	4	4	5	6	6	7	7	8	8	9	11	13	14	18	20	23	29	28	28	54	228
DSM, Class 2 Total	49	59	64	48	50	55	58	62	66	70	66	71	70	76	77	86	85	92	99	99	99	583	1,404
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	-	-	24	37
FOT Mead 3rd Qtr HLH	-	168	264	264	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	38
FOT Utah 3rd Qtr HLH	200	200	200	17	-	53	193	-	-	200	-	-	-	-	-	-	-	-	-	-	-	106	53
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	6	20	32	45	59	180	202	155	161	139	-	-	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	58	384	16	-	-	-	-	-	N/A	46
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	243	307	57	196	197	-	-	N/A	100
West																							
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	70	105
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	0.3	0.3	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	2	2
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	4	5	5	5	5	4	5	5	5	5	5	5	5	5	4	4	4	4	4	45	89
DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	52	44	37	37	36	-	36	550	1,016
DSM, Class 2, Yakima	8	11	6	6	6	6	7	7	7	7	8	8	8	9	9	7	6	6	6	7	7	71	145
DSM, Class 2 Total	63	66	65	70	71	70	71	63	63	64	64	65	65	66	66	64	54	47	47	47	47	667	1,251
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	-	-	-	-	-	-	-	-	-	-	-	16	16
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	299	400	400	400	364	400	193	400	400	400	400	147	153	159	187	400	400	346	315
FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	-	-	50	50	-	50	-	-	-	50	50	50	50	50	50	50	50	30	33
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	122	33	124	108	268	-	-	-	-	-	-	-	N/A	100
Annual Additions, Long Term Resources	152	210	200	776	836	154	154	145	615	195	140	144	143	164	270	177	628	628	154	907	-	-	907
Annual Additions, Short Term Resources	350	1,213	1,420	1,181	649	773	803	943	664	950	621	753	857	903	1,135	1,303	1,028	722	894	1,431	-	-	1,431
Total Annual Additions	502	1,422	1,620	1,957	1,486	927	957	1,087	1,278	1,145	761	897	1,000	1,067	1,405	1,480	1,656	1,349	1,048	2,338	-	-	2,338

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 16

		Capacity (MW)																		Resource Totals 2/				
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
	CCCT H 2x1	-	-	-	-	-	-	-	-	475	-	-	-	-	-	-	-	-	475	475	475	-	475	1,900
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	35	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	4	34	-	50
	Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	9	4	34	-	50
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	10
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	25
	DSM, Class 1, UT-DLC-RES	21	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	32
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	11	14
	DSM, Class 1 Total	26	37	-	20	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	5	87	92
	DSM, Class 2, Goshen	1	1	1	1	1	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	14	42
	DSM, Class 2, Utah	47	57	59	43	44	47	51	52	54	57	59	63	62	65	65	69	64	67	68	74	74	513	1,170
	DSM, Class 2, Wyoming	3	4	4	5	5	6	6	7	7	8	9	10	11	14	15	19	20	24	29	28	28	56	233
	DSM, Class 2 Total	51	62	64	49	51	55	59	62	63	67	71	75	76	82	83	91	87	94	100	104	104	583	1,446
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.37	-	-	-	-	-	-	-	24	34
	FOT Mead 3rd Qtr HLH	-	168	264	264	-	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	77	38
FOT Utah 3rd Qtr HLH	189	200	200	17	-	-	58	200	-	188	-	-	-	-	-	-	-	-	-	-	-	105	53	
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	122	300	210	246	
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	6	20	32	116	110	223	99	133	125	136	136	N/A	100	
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	96	-	-	-	-	-	N/A	10	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	107	256	453	114	41	-	-	-	N/A	97	
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
	Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	70	-	-	-	-	-	-	70	140
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56
	DSM, Class 2, Washington	4	4	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	4	4	4	4	46	92
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	52	44	37	37	36	36	551	1,018
	DSM, Class 2, Yakima	8	11	6	6	6	6	7	7	7	7	8	9	9	9	9	7	6	7	6	7	7	72	149
	DSM, Class 2 Total	63	66	66	70	72	71	71	63	63	64	65	66	66	67	67	64	55	47	47	47	47	669	1,259
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
	Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.97	0.97	0.97	-	-	-	-	-	-	-	-	16	19
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	298	400	400	400	334	400	-	305	163	9	389	148	400	160	188	400	400	343	280	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	206	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	23	
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	-	-	50	50	-	50	50	50	50	50	50	50	50	50	-	-	48	30	37	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	250	60	289	294	-	-	29	-	-	-	79	N/A	100	
Annual Additions, Long Term Resources	163	200	200	777	837	153	149	143	656	175	147	150	151	156	225	161	626	630	631	918	918			
Annual Additions, Short Term Resources	339	1,213	1,420	1,181	648	773	808	950	634	938	606	734	834	876	1,104	1,269	992	684	436	964	964			
Total Annual Additions	503	1,412	1,620	1,957	1,485	926	957	1,093	1,290	1,114	752	884	985	1,032	1,330	1,430	1,618	1,315	1,066	1,882	1,882			

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 17

		Capacity (MW)																			Resource Totals 2/		
Resource	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East																							
CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
CCCT F 2x1	-	-	-	625	-	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
Geothermal, Greenfield	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	-	35	35
Nuclear	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,600	-	1,600
Wind, WY, 35% CF	-	-	-	-	-	-	-	200	200	200	200	200	200	200	200	200	200	200	200	170	-	600	2,370
Wind, WYNE 35% CF	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	160	160
Total Wind	-	-	-	-	-	-	160	200	200	200	200	200	200	200	200	200	200	200	200	170	-	760	2,530
CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
CHP - Reciprocating Engine	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	1	-	-	-	-	-	1	-	-	-	-	8	10
DSM, Class 1, UT-Curtailment	-	21	-	2	1	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	26	26
DSM, Class 1, UT-DLC-RES	10	22	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	37	37
DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	1	-	-	-	-	2	-	-	-	-	-	11	14
DSM, Class 1 Total	16	48	-	22	1	-	-	-	-	7	2	-	-	-	-	3	-	-	-	-	-	94	99
DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	16	46
DSM, Class 2, Utah	47	57	60	47	54	52	58	71	72	74	63	67	64	68	68	72	66	70	70	77	77	593	1,279
DSM, Class 2, Wyoming	3	4	4	5	5	6	7	8	8	8	9	10	12	14	15	20	21	25	31	29	29	58	243
DSM, Class 2 Total	51	62	66	53	61	60	67	80	81	85	74	80	79	85	87	95	91	98	104	109	109	666	1,568
Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	24	45
FOT Mead 3rd Qtr HLH	-	168	264	264	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80	40
FOT Utah 3rd Qtr HLH	200	200	200	-	200	-	-	-	-	200	-	-	-	-	-	-	-	-	-	-	-	100	50
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	4	18	30	43	158	165	114	165	170	134	-	N/A	100
Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	23	167	344	431	-	-	N/A	100
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	293	101	270	336	-	-	N/A	100
West																							
CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
Geothermal, Greenfield	-	-	-	-	70	35	70	70	70	70	35	-	-	-	-	-	-	-	-	-	-	385	420
Wind, Yakima, 29% CF	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Wind, Walla Walla, 29% CF	-	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
Total Wind	-	100	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	200	200
Utility Biomass	-	-	-	-	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	50	50
CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
CHP - Reciprocating Engine	-	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	0
DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
DSM, Class 1, YA-DLC-RES	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
DSM, Class 1, YA-DLC-Irrigation	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
DSM, Class 1 Total	-	-	50	6	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60
DSM, Class 2, Washington	4	4	5	5	5	5	5	5	5	5	5	5	5	5	6	5	4	4	4	4	4	47	94
DSM, Class 2, Oregon/California	51	51	54	59	61	60	60	52	52	52	52	52	53	53	53	53	45	37	37	37	37	552	1,024
DSM, Class 2, Yakima	10	11	7	7	7	7	7	7	7	8	8	9	9	10	7	6	7	7	7	7	7	76	156
DSM, Class 2 Total	65	66	66	71	72	71	71	64	64	66	67	67	68	68	65	55	48	47	48	48	48	675	1,274
OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.29	0.97	-	-	16	31
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	361	338	400	398	400	104	59	400	400	400	400	400	400	400	400	376	350	342
FOT MidColumbia 3rd Qtr HLH - 2	-	244	201	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22
FOT S.Central/OR/N.CA 3rd Qtr HLH	-	50	50	50	50	-	-	2	-	50	50	50	50	50	50	50	50	50	50	50	-	25	35
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	122	278	21	47	183	51	288	0	10	-	-	N/A	100
Annual Additions, Long Term Resources	154	311	201	790	405	791	378	432	505	436	389	356	356	363	365	372	356	354	328	2,485	-		
Annual Additions, Short Term Resources	350	1,213	1,415	1,164	1,099	661	638	702	698	950	580	705	801	840	1,125	1,282	1,421	1,529	1,696	810	-		
Total Annual Additions	504	1,523	1,616	1,954	1,504	1,452	1,015	1,134	1,203	1,386	970	1,061	1,157	1,202	1,490	1,655	1,776	1,883	2,024	3,294	-		

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.

2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 18

		Capacity (MW)																		Resource Totals 2/				
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCS Hunter3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	280	-	280
	CCCT F 2x1	-	-	-	625	597	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1,222	1,222
	CCCT H 2x1	-	-	-	-	-	-	-	-	-	475	-	-	-	-	475	475	-	475	475	-	-	475	2,375
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	-	51	53
	Geothermal, Blundell 3	-	-	-	-	35	-	-	-	-	45	-	-	-	-	-	-	-	-	-	-	-	80	80
	Geothermal, Greenfield	-	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-	-	-	-	-	35	35
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	28	21	8	9	200	-	-	308
	Total Wind	-	-	-	-	-	-	-	-	-	-	-	-	-	-	42	28	21	8	9	200	-	-	308
	CHP - Biomass	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	10	20
	CHP - Reciprocating Engine	0.8	0.8	0.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	8	10
	DSM, Class 1, UT-Curtailment	-	21	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	21
	DSM, Class 1, UT-DLC-RES	21	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	32	32
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11
	DSM, Class 1 Total	26	37	-	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	83	86
	DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	15	43
	DSM, Class 2, Utah	47	57	59	43	46	50	51	52	54	58	61	65	62	65	66	70	64	68	70	74	74	518	1,183
	DSM, Class 2, Wyoming	3	4	4	5	5	6	7	7	7	8	9	10	11	14	15	19	20	24	30	28	28	56	237
	DSM, Class 2 Total	51	62	64	49	53	57	60	62	64	68	72	77	76	82	84	92	88	95	103	105	105	589	1,463
	Micro Solar - Water Heater	-	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	2.64	-	-	-	-	-	-	-	24	34
	FOT Mead 3rd Qtr HLH	-	168	264	264	-	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	36
	FOT Utah 3rd Qtr HLH	189	200	200	13	-	-	55	196	-	184	-	-	-	-	-	-	-	-	-	-	-	104	52
FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	272	120	249	-	-	-	-	-	210	195	
FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	-	6	168	171	44	58	83	98	111	124	135	N/A	100	
Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	59	152	-	-	-	-	-	-	-	N/A	21	
West	CCS Bridger1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	227	-	227
	CCS Bridger2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	216	-	216
	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	-	12	12
	Geothermal, Greenfield	-	-	-	-	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	70	105
	Wind, Yakima, 29% CF	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
	Total Wind	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100
	CHP - Biomass	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	42	84
	CHP - Reciprocating Engine	0.3	0.3	0.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17
	DSM, Class 1, OR/CA-DLC-RES	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1, OR/CA-DLC-WuHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6
	DSM, Class 1 Total	-	-	50	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	56	56
	DSM, Class 2, Washington	4	4	5	5	5	5	5	4	5	5	5	5	5	5	5	5	5	4	4	4	4	46	92
	DSM, Class 2, Oregon/California	51	51	54	59	60	60	59	52	52	52	52	52	52	52	53	53	52	44	37	37	36	551	1,019
	DSM, Class 2, Yakima	8	11	6	6	7	7	7	7	7	7	8	9	9	9	9	7	6	7	6	7	7	72	149
	DSM, Class 2 Total	63	66	66	70	72	71	71	63	63	64	65	66	66	67	67	64	55	47	47	47	47	670	1,261
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10
	Micro Solar - Water Heater	-	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	1.81	0.97	0.97	-	-	-	-	-	-	-	16	20
FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
FOT MidColumbia 3rd Qtr HLH	-	400	400	400	243	400	400	400	280	400	-	-	-	-	-	-	-	150	156	145	169	332	197	
FOT MidColumbia 3rd Qtr HLH - 2	-	244	203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22	
FOT S,Central/OR/N,CA 3rd Qtr HLH	-	50	50	50	50	50	50	50	50	50	50	50	50	50	-	5	-	-	-	-	-	45	30	
Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	244	150	153	132	139	144	-	-	-	39	N/A	100	
Annual Additions, Long Term Resources	163	300	200	777	840	156	146	143	656	176	149	152	151	673	659	183	631	631	390	882				
Annual Additions, Short Term Resources	339	1,213	1,417	1,177	643	766	805	946	630	934	599	727	826	448	317	482	248	267	309	564				
Total Annual Additions	503	1,512	1,617	1,954	1,483	922	951	1,089	1,287	1,110	748	878	977	1,121	977	664	879	898	699	1,446				

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

Case 19

		Capacity (MW)																			Resource Totals 2/			
Resource		2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	10-year	20-year	
East	CCCT F 2x1	-	-	-	625	-	597	-	-	597	-	-	-	-	-	-	-	-	-	-	-	1,819	1,819	
	Coal Plant Turbine Upgrades	12.1	18.9	1.8	-	-	18.0	-	-	-	-	2.4	-	-	-	-	-	-	-	-	-	51	53	
	Geothermal, Blundell 3	-	-	-	-	-	-	-	-	-	-	-	-	80	-	-	-	-	-	-	-	-	80	
	Wind, WY, 35% CF	-	-	-	-	-	-	-	-	200	300	200	200	200	-	-	-	-	-	-	-	500	1,100	
	Wind, WYNE 35% CF	-	-	-	-	-	-	-	-	160	-	-	-	-	-	-	-	-	-	-	-	160	160	
	Total Wind	-	-	-	-	-	-	-	-	360	300	200	200	200	-	-	-	-	-	-	-	660	1,260	
	CHP - Biomass	-	-	-	-	-	-	-	-	-	-	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	-	10	
	DSM, Class 1, UT-Coolkeeper	5.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	11	
	DSM, Class 1, GO-DLC-Irrigation	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	8	10	
	DSM, Class 1, UT-Curtailment	-	21	-	-	3	-	2	-	-	-	-	-	-	-	-	-	-	-	-	-	26	26	
	DSM, Class 1, UT-DLC-RES	21	11	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	37	37	
	DSM, Class 1, UT-DLC-Irrigation	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	11	14	
	DSM, Class 1, UT-Sch-TES	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
	DSM, Class 1 Total	26	37	-	-	26	-	7	-	-	-	-	-	-	-	-	-	-	-	5	-	97	102	
	DSM, Class 2, Goshen	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	2	15	39
	DSM, Class 2, Utah	58	65	70	98	104	47	49	50	52	54	56	60	57	60	60	65	60	63	64	69	648	1,261	
	DSM, Class 2, Wyoming	3	4	4	6	6	6	6	7	7	8	9	9	11	13	14	18	20	23	29	28	58	232	
	DSM, Class 2 Total	61	70	75	105	112	55	57	59	61	64	67	71	70	76	77	86	82	89	95	99	720	1,532	
	FOT Mead 3rd Qtr HLH	-	168	264	255	99	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	79	40	
	FOT Utah 3rd Qtr HLH	183	196	200	-	200	-	50	200	-	168	-	-	-	-	-	-	-	-	-	-	120	60	
	FOT Mona-3 3rd Qtr HLH	-	-	-	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	300	210	255	
	FOT Mona-4 3rd Qtr HLH	-	-	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	8	
	Growth Resource Goshen 1/	-	-	-	-	-	-	-	-	-	-	7	21	33	46	60	194	123	253	125	138	N/A	100	
	Growth Resource Utah North 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	353	338	309	N/A	100	
	Growth Resource Wyoming 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	339	171	194	264	N/A	100	
West	Coal Plant Turbine Upgrades	-	-	3.7	-	-	-	-	8.3	-	-	-	-	-	-	-	-	-	-	-	-	12	12	
	CHP - Biomass	-	-	-	-	-	-	-	-	-	-	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	-	42	
	DSM, Class 1, WA/OR-DLC-RES	-	-	1	-	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
	DSM, Class 1, WA/OR-DLC-Irrigation	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
	DSM, Class 1, OR/CA-Curtailment	-	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	17	
	DSM, Class 1, OR/CA-DLC-RES	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1, OR/CA-DLC-WtrHtr	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, OR/CA-DLC-Irrigation	-	-	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	18	
	DSM, Class 1, YA-DLC-RES	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
	DSM, Class 1, YA-DLC-Irrigation	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	6	
	DSM, Class 1 Total	-	-	43	-	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	60	
	DSM, Class 2, Washington	4	5	6	7	7	5	5	4	4	4	5	5	5	5	5	5	5	4	4	4	51	95	
	DSM, Class 2, Oregon/California	51	51	55	59	61	60	59	52	52	52	52	52	52	52	52	52	44	36	36	36	551	1,016	
	DSM, Class 2, Yakima	10	11	9	12	12	6	6	7	7	7	8	8	8	9	9	7	6	6	6	7	87	161	
	DSM, Class 2 Total	65	67	70	78	80	71	70	63	63	63	64	65	65	66	66	64	54	46	47	47	689	1,272	
	OR Solar Cap Standard	-	2	2	2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	9	
	OR Solar Pilot	4	2	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	10	
	FOT COB 3rd Qtr HLH	150	150	150	150	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	65	33	
	FOT MidColumbia 3rd Qtr HLH	-	400	400	400	400	400	400	400	274	400	282	400	400	400	400	400	400	400	400	400	347	368	
	FOT MidColumbia 3rd Qtr HLH - 2	-	244	205	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	45	22	
	FOT S.Central/OR/CA 3rd Qtr HLH	-	50	50	50	50	50	50	50	-	50	-	-	-	-	-	-	-	-	-	-	40	20	
	Growth Resource Walla Walla 1/	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	19	-	-	-	-	N/A	7	
	Growth Resource Yakima 1/	-	-	-	-	-	-	-	-	-	-	-	1	22	57	330	317	241	31	323	340	N/A	166	
	Annual Additions, Long Term Resources	169	197	198	811	238	741	134	130	1,080	427	338	341	421	147	148	155	142	145	147	151			
	Annual Additions, Short Term Resources	333	1,209	1,419	1,155	1,099	755	800	950	574	918	589	721	755	803	1,097	1,261	1,403	1,510	1,680	1,790			
Total Annual Additions	502	1,406	1,617	1,967	1,337	1,495	935	1,080	1,654	1,344	927	1,063	1,176	949	1,246	1,416	1,545	1,655	1,827	1,941				

1/ Front office transaction and growth resource amounts reflect one-year transaction periods, and are not additive.
 2/ Front office transactions are reported as a 20-year annual average. Growth resources are reported as a 10-year average.

**2011 Integrated Resource Plan - Portfolio Development Case Results
Present Value Revenue Requirement (PVRR)**

Core Case	CO₂ cost	Natural gas cost	PVRR (\$ Millions)
1	None	Medium	\$30,950
2	None	Medium	\$30,899
3	Medium	Low	\$39,595
4	High	Low	\$44,361
5	Low to Very High	Low	\$40,074
6	Low to Very High	Low	\$39,648
7	Medium	Medium	\$40,979
8	High	Medium	\$46,029
9	Low to Very High	Medium	\$41,614
10	Low to Very High	Medium	\$41,078
11	Medium	High	\$42,103
12	High	High	\$46,992
13	Low to Very High	High	\$42,711
14	Low to Very High	High	\$40,915
15	Medium	Low	\$31,065
16	Medium	Medium	\$32,861
17	Medium	High	\$34,998
18	Medium	Medium	\$34,945
19	Business Plan	Business Plan	\$42,571