

Fiscal Year 2016 Columbia Generating Station Long Range Plan



BPA Fiscal Year	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026
Item Description (Draft FY 16)	FY16	FY17	FY18	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	
	BPA Rate	BPA Rate Period		BPA Rate Period		BPA Rate Period		BPA Rate Period		BPA Rate Period		
Direct and Indirect O&M Costs												
Baseline Costs	\$ 119,590	\$ 121,134	\$ 125,240	\$ 127,190	\$ 128,788	\$ 125,390	\$ 128,290	\$ 125,313	\$ 125,274	\$ 123,617	\$ 125,274	
Outage Costs (Incremental)	-	28,188	-	28,188	-	28,188	-	28,188	-	28,188	-	
Admin / General (A&G)	68,460	64,061	62,308	64,856	72,129	74,036	75,674	76,424	75,412	77,932	75,412	
O&M Projects	8,465	29,847	6,061	42,741	10,204	42,583	13,024	42,956	9,052	46,462	9,052	
Facilities O&M Projects	913	935	935	935	935	935	935	935	935	935	935	
O&M Risk Reserve	2,960	3,330	1,280	5,125	5,125	5,125	5,125	5,125	5,125	5,125	5,125	
Subtotal Direct & Indirect O&M Costs	\$ 200,388	\$ 247,495	\$ 195,823	\$ 269,035	\$ 217,181	\$ 276,255	\$ 223,047	\$ 278,940	\$ 215,798	\$ 282,259	\$ 215,798	
Escalation on Direct & Indirect (2.5%)	-	5,381	6,503	15,371	15,192	26,768	23,760	38,296	30,163	50,910	38,682	
Total Direct & Indirect O&M Costs (includes escalation)	\$ 200,388	\$ 252,876	\$ 202,326	\$ 284,406	\$ 232,373	\$ 303,023	\$ 246,807	\$ 317,236	\$ 245,961	\$ 333,168	\$ 254,480	
Capital Costs												
PRC Capital Projects	\$ 73,865	\$ 91,367	\$ 49,269	\$ 54,603	\$ 25,427	\$ 28,316	\$ 16,861	\$ 28,001	\$ 34,736	\$ 39,053	\$ 40,488	
Moveable Capital & Downtown Capital Projects	1,707	1,584	1,584	1,584	1,545	1,545	1,545	1,545	1,545	1,545	1,545	
Facilities Capital Projects	643	593	593	593	579	579	579	579	579	579	579	
Information Technology Capital Projects	10,238	8,824	10,880	9,919	11,256	10,544	10,213	10,354	11,073	11,073	11,173	
Admin / General (A&G)	17,339	17,819	17,019	16,565	8,832	9,526	7,030	9,269	9,651	10,250	10,250	
Capital Risk Reserve	2,500	6,667	1,595	1,896	10,137	9,315	6,772	10,455	11,663	11,275	11,275	
Fukushima Impacts	11,820	11,962	12,413	11,993	-	-	-	-	-	-	-	
Management Discretion-Special Projects**	-	1,281	1,281	1,025	1,025	2,871	4,409	2,769	5,946	-	-	
Subtotal Capital Costs	\$ 118,112	\$ 140,097	\$ 94,634	\$ 98,178	\$ 58,801	\$ 62,696	\$ 47,409	\$ 62,971	\$ 75,194	\$ 73,774	\$ 75,309	
Escalation on Capital (2.5%)	-	3,502	4,791	7,549	6,104	8,239	7,571	11,882	16,423	18,360	21,093	
Total Capital Costs (includes escalation)	\$ 118,112	\$ 143,599	\$ 99,425	\$ 105,727	\$ 64,905	\$ 70,935	\$ 54,980	\$ 74,853	\$ 91,617	\$ 92,134	\$ 96,402	
Fuel Related Costs												
Nuclear Fuel Amortization	53,482	47,650	62,104	54,986	63,678	56,625	63,670	56,787	65,636	58,433	66,013	
Subtotal Fuel Related Costs	\$ 53,482	\$ 47,650	\$ 62,104	\$ 54,986	\$ 63,678	\$ 56,625	\$ 63,670	\$ 56,787	\$ 65,636	\$ 58,433	\$ 66,013	
Total Unescalated Budget	\$ 371,982	\$ 435,242	\$ 352,561	\$ 422,198	\$ 339,660	\$ 395,576	\$ 334,127	\$ 398,698	\$ 356,628	\$ 414,466	\$ 357,120	
Total Escalation	-	8,883	11,294	22,920	21,296	35,007	31,331	50,178	46,586	69,269	59,775	
Total Cost - Industry Basis	\$ 371,982	\$ 444,125	\$ 363,855	\$ 445,118	\$ 360,957	\$ 430,583	\$ 365,457	\$ 448,875	\$ 403,213	\$ 483,735	\$ 416,894	
Total Net Generation (Gwh)	9,586	8,511	9,601	8,686	9,601	8,686	9,601	8,686	9,601	8,686	9,601	
Outage Days		40		40		40		40		40		
Cost of Power (Cents per kWh, constant FY16\$)	\$ 3.88	\$ 5.11	\$ 3.67	\$ 4.86	\$ 3.54	\$ 4.55	\$ 3.48	\$ 4.59	\$ 3.71	\$ 4.77	\$ 3.72	
Cost of Power (Cents per kWh, escalated)	\$ 3.88	\$ 5.22	\$ 3.79	\$ 5.12	\$ 3.76	\$ 4.96	\$ 3.81	\$ 5.17	\$ 4.20	\$ 5.57	\$ 4.34	

Key Assumption/Qualifications (Revision - 3/11/15)

Escalation Rate = Labor 2.75% and Non-labor 2.5%. Generation assumes 1% unplanned/ 2% planned loss.

* Recover 5 MWe from Instrument Fouling in FY 16, 18 MWe from Appendix K in FY 18 (FY 16 Net 1125, FY 17 Net 1125, FY 18 Net 1143)

** Includes Fukushima Filter Requirement Risk