

SCC Portfolios

Portfolio: 0 - Reference Case Plan (SCC)										<u>Emissions</u>							
Year	Capital +															Native Load	
	Other		O&M		TOTAL		Cost of		Methane		TOTAL				Forecast		
	Costs	Fuel Costs	Costs	PVRR	CO2 Tons	Tons	PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy (GW/h)	
2023	\$ 760	\$ 481	\$ 735	\$ 1,975	\$ 1,177	\$ 4	\$ 3,156	15,213,138	2,085	6,574	6,025	0.06	402	39,011,962	850	33,906	
2024	\$ 831	\$ 440	\$ 745	\$ 2,016	\$ 1,212	\$ 4	\$ 3,232	15,120,256	1,961	6,487	6,018	0.06	400	36,693,923	745	34,410	
2025	\$ 863	\$ 435	\$ 764	\$ 2,062	\$ 1,235	\$ 5	\$ 3,303	14,866,944	2,419	6,483	5,709	0.05	416	45,273,481	552	35,028	
2026	\$ 886	\$ 336	\$ 754	\$ 1,976	\$ 929	\$ 4	\$ 2,909	10,796,275	1,558	3,671	4,493	0.05	331	29,160,709	3,269	34,760	
2027	\$ 940	\$ 256	\$ 1,160	\$ 2,356	\$ 754	\$ 2	\$ 3,111	8,452,879	747	3,080	3,800	0.04	253	13,978,872	4,781	35,507	
2028	\$ 955	\$ 236	\$ 1,257	\$ 2,448	\$ 743	\$ 2	\$ 3,193	8,050,791	761	3,723	3,549	0.04	341	14,246,479	5,217	36,409	
2029	\$ 1,049	\$ 225	\$ 1,240	\$ 2,514	\$ 621	\$ 2	\$ 3,137	6,497,132	778	3,282	2,732	0.03	331	14,553,730	6,119	37,260	
2030	\$ 1,085	\$ 237	\$ 1,186	\$ 2,508	\$ 680	\$ 2	\$ 3,190	6,867,508	817	3,839	2,875	0.04	392	15,280,304	5,745	38,334	
2031	\$ 1,154	\$ 232	\$ 1,197	\$ 2,582	\$ 667	\$ 2	\$ 3,252	6,513,388	780	4,116	2,761	0.03	417	14,604,371	6,678	39,475	
2032	\$ 1,187	\$ 240	\$ 1,140	\$ 2,567	\$ 721	\$ 2	\$ 3,290	6,797,862	786	2,266	2,775	0.04	230	14,700,487	6,371	40,880	
2033	\$ 1,233	\$ 237	\$ 1,101	\$ 2,571	\$ 701	\$ 2	\$ 3,275	6,386,449	758	4,168	2,710	0.03	425	14,182,359	7,711	42,045	
2034	\$ 1,298	\$ 246	\$ 1,063	\$ 2,607	\$ 752	\$ 2	\$ 3,361	6,617,270	739	3,339	2,759	0.03	340	13,824,398	7,710	43,121	
2035	\$ 1,351	\$ 246	\$ 1,072	\$ 2,670	\$ 742	\$ 3	\$ 3,414	6,308,735	756	3,269	2,611	0.03	333	14,139,734	8,146	44,105	
2036	\$ 1,349	\$ 259	\$ 1,245	\$ 2,853	\$ 811	\$ 3	\$ 3,667	6,668,238	758	4,337	2,788	0.03	446	14,186,035	7,374	45,106	
2037	\$ 1,646	\$ 195	\$ 1,532	\$ 3,374	\$ 618	\$ 1	\$ 3,993	4,909,992	285	2,399	2,183	0.03	230	5,329,791	21,018	46,080	
2038	\$ 1,613	\$ 213	\$ 1,613	\$ 3,438	\$ 693	\$ 1	\$ 4,133	5,326,336	335	2,032	2,313	0.03	195	6,263,650	19,139	47,142	
2039	\$ 1,644	\$ 225	\$ 1,618	\$ 3,487	\$ 718	\$ 2	\$ 4,207	5,342,148	435	3,770	2,362	0.03	376	8,139,046	18,360	48,169	
2040	\$ 1,690	\$ 248	\$ 1,595	\$ 3,533	\$ 792	\$ 2	\$ 4,326	5,695,075	524	2,700	2,406	0.03	273	9,797,782	16,963	49,134	
2041	\$ 1,786	\$ 254	\$ 1,576	\$ 3,617	\$ 792	\$ 2	\$ 4,410	5,511,786	376	2,731	2,375	0.03	269	7,827,934	15,445	49,982	
2042	\$ 2,041	\$ 251	\$ 1,448	\$ 3,740	\$ 524	\$ 2	\$ 4,266	3,534,758	406	3,373	1,158	0.02	419	9,502,709	13,240	50,856	
2043	\$ 2,100	\$ 259	\$ 1,393	\$ 3,751	\$ 486	\$ 1	\$ 4,238	3,169,721	298	3,945	1,088	0.01	474	7,977,428	13,501	50,342	
2044	\$ 2,155	\$ 314	\$ 1,385	\$ 3,855	\$ 555	\$ 1	\$ 4,412	3,508,056	262	4,691	1,239	0.02	563	8,177,932	11,662	51,177	
2045	\$ 2,290	\$ 411	\$ 1,292	\$ 3,994	\$ 150	\$ 2	\$ 4,146	918,817	339	13,337	570	-	1,462	12,703,174	8,819	51,941	
2046	\$ 2,384	\$ 531	\$ 1,204	\$ 4,120	\$ 148	\$ 1	\$ 4,269	876,682	266	15,334	656	-	1,677	12,433,455	7,080	52,777	
2047	\$ 2,523	\$ 568	\$ 1,178	\$ 4,269	\$ 114	\$ 1	\$ 4,383	652,096	148	15,736	673	-	1,717	9,221,263	6,928	53,637	
2048	\$ 2,600	\$ 635	\$ 1,167	\$ 4,402	\$ 82	\$ 0	\$ 4,485	457,377	69	16,724	715	-	1,826	6,458,703	6,682	54,542	
2049	\$ 2,691	\$ 736	\$ 1,161	\$ 4,588	\$ 46	\$ 0	\$ 4,634	248,560	19	14,942	639	-	1,651	3,546,556	5,890	55,268	
2050	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
2051	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
2052	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
2053	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
2054	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
2055	\$ 2,937	\$ 959	\$ 1,085	\$ 4,981	\$ -	\$ -	\$ 4,981	-	-	16,188	692	-	1,766	0	5,816	56,532	
			A	B	C	A + B + C											
NPV (\$M)	\$ 20,377	\$ 5,216	\$ 16,314	\$ 41,907	\$ 10,370	\$ 35	\$ 52,311	85,864,922	11,126	37,139	35,201	0.36	2,866	<< 2023-2030 sum			
2023-2055								165,308,267	19,465	257,477	74,133	0.76	26,788	<< 2023-2055 sum			

*Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.*
*PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost*

Portfolio: 1 - Preferred Plan (SCC)										Emissions						Native Load		
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Native Load Forecast Energy (GW/h)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		Cost of CO2 (\$/Tons)	Methane Tons (\$/Tons)	Cost of Methane Tons (\$/Tons)											
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906		
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,770	1,961	6,487	6,018	0.06	400	36,693,931	764	34,410		
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,644	2,508	6,395	5,562	0.05	394	46,931,579	624	35,028		
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,649	2,346	2,440	2,240	0.02	310	43,903,651	3,678	34,760		
2027	\$ 989	\$ 250	\$ 1,211	\$ 2,450	\$ 482	\$ 3	\$ 2,935	5,409,038	1,278	2,973	1,929	0.02	395	23,913,218	5,164	35,507		
2028	\$ 953	\$ 231	\$ 1,339	\$ 2,523	\$ 452	\$ 3	\$ 2,978	4,891,454	1,370	6,504	1,783	0.01	1,031	25,643,876	5,433	36,409		
2029	\$ 1,012	\$ 231	\$ 1,336	\$ 2,579	\$ 312	\$ 4	\$ 2,895	3,262,359	1,632	8,940	1,048	0.01	1,714	30,535,897	5,444	37,260		
2030	\$ 1,048	\$ 244	\$ 1,281	\$ 2,573	\$ 341	\$ 5	\$ 2,919	3,441,987	1,785	12,139	1,222	0.01	2,318	33,402,583	5,036	38,334		
2031	\$ 1,193	\$ 212	\$ 1,218	\$ 2,623	\$ 201	\$ 5	\$ 2,828	1,957,538	1,679	7,919	448	-	1,355	31,426,243	6,488	39,475		
2032	\$ 1,204	\$ 229	\$ 1,159	\$ 2,592	\$ 226	\$ 6	\$ 2,824	2,132,131	1,848	11,120	639	-	2,027	34,576,706	6,033	40,880		
2033	\$ 1,266	\$ 219	\$ 1,117	\$ 2,602	\$ 213	\$ 5	\$ 2,821	1,943,640	1,688	9,741	583	-	1,842	31,585,138	7,572	42,045		
2034	\$ 1,346	\$ 217	\$ 1,075	\$ 2,638	\$ 214	\$ 5	\$ 2,857	1,881,511	1,614	7,708	418	-	1,199	30,193,901	7,838	43,121		
2035	\$ 1,403	\$ 220	\$ 1,081	\$ 2,704	\$ 216	\$ 5	\$ 2,925	1,837,420	1,582	9,226	527	-	1,637	29,600,537	8,103	44,105		
2036	\$ 1,397	\$ 229	\$ 1,251	\$ 2,878	\$ 234	\$ 6	\$ 3,117	1,922,835	1,629	10,250	611	-	1,824	30,477,545	7,519	45,106		
2037	\$ 1,654	\$ 156	\$ 1,541	\$ 3,350	\$ 119	\$ 3	\$ 3,472	945,682	853	4,767	292	-	849	15,961,463	18,944	46,080		
2038	\$ 1,631	\$ 173	\$ 1,621	\$ 3,424	\$ 146	\$ 4	\$ 3,574	1,120,111	990	6,868	384	-	1,073	18,528,956	17,046	47,142		
2039	\$ 1,657	\$ 192	\$ 1,626	\$ 3,475	\$ 174	\$ 5	\$ 3,654	1,290,554	1,127	8,498	529	-	1,681	21,094,959	16,384	48,169		
2040	\$ 1,710	\$ 193	\$ 1,600	\$ 3,503	\$ 188	\$ 5	\$ 3,697	1,355,889	1,119	10,209	629	-	1,948	20,931,095	14,784	49,134		
2041	\$ 1,809	\$ 217	\$ 1,555	\$ 3,582	\$ 176	\$ 4	\$ 3,762	1,227,760	856	7,913	457	-	1,456	17,789,411	13,596	49,982		
2042	\$ 2,054	\$ 242	\$ 1,421	\$ 3,718	\$ 165	\$ 3	\$ 3,885	1,109,754	657	4,766	299	-	954	15,373,605	12,444	50,856		
2043	\$ 2,112	\$ 259	\$ 1,401	\$ 3,772	\$ 142	\$ 2	\$ 3,916	928,930	475	4,238	258	-	754	12,685,263	12,871	50,342		
2044	\$ 2,175	\$ 330	\$ 1,337	\$ 3,841	\$ 149	\$ 2	\$ 3,992	943,219	417	7,291	413	-	1,268	13,017,125	10,923	51,177		
2045	\$ 2,250	\$ 404	\$ 1,307	\$ 3,961	\$ 146	\$ 2	\$ 4,108	893,307	332	9,621	524	-	1,608	12,438,388	9,707	51,941		
2046	\$ 2,340	\$ 513	\$ 1,217	\$ 4,071	\$ 144	\$ 1	\$ 4,216	851,558	255	12,107	662	-	2,111	11,951,289	7,213	52,777		
2047	\$ 2,451	\$ 568	\$ 1,190	\$ 4,209	\$ 115	\$ 1	\$ 4,324	657,852	148	16,476	910	-	3,009	9,225,236	6,556	53,637		
2048	\$ 2,499	\$ 672	\$ 1,179	\$ 4,350	\$ 88	\$ 0	\$ 4,438	487,598	73	18,362	1,023	-	3,450	6,876,146	5,947	54,542		
2049	\$ 2,611	\$ 749	\$ 1,173	\$ 4,533	\$ 47	\$ 0	\$ 4,580	254,328	19	16,377	868	-	2,744	3,616,922	5,551	55,268		
2050	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
2051	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
2052	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
2053	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
2054	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
2055	\$ 2,986	\$ 760	\$ 1,093	\$ 4,839	\$ -	\$ -	\$ 4,839	-	-	26,877	1,454	-	4,836	0	5,138	56,532		
				A	B	C	A + B + C											
NPV (\$M)	\$ 20,555	\$ 4,893	\$ 16,639	\$ 42,087	\$ 6,288	\$ 57	\$ 48,432	69,322,272	15,012	52,479	25,843	0.23	6,966	<< 2023-2030 sum				
2023-2055								93,063,889	32,373	397,196	45,043	0.23	68,772	<< 2023-2055 sum				

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 2 - Inverse 1324 Plan (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons (\$/Tons)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,770	1,961	6,487	6,018	0.06	400	36,693,931	764	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,644	2,508	6,395	5,562	0.05	394	46,931,579	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,653	2,346	2,440	2,240	0.02	310	43,903,685	3,677	34,760	
2027	\$ 989	\$ 250	\$ 1,211	\$ 2,450	\$ 482	\$ 3	\$ 2,935	5,409,031	1,278	2,970	1,929	0.02	395	23,913,250	5,165	35,507	
2028	\$ 959	\$ 229	\$ 1,322	\$ 2,511	\$ 449	\$ 3	\$ 2,963	4,858,159	1,349	5,956	1,743	0.01	1,046	25,246,819	5,558	36,409	
2029	\$ 1,021	\$ 230	\$ 1,305	\$ 2,555	\$ 310	\$ 4	\$ 2,870	3,243,608	1,619	9,075	1,022	0.01	1,779	30,296,126	5,575	37,260	
2030	\$ 1,057	\$ 243	\$ 1,250	\$ 2,550	\$ 339	\$ 5	\$ 2,893	3,421,489	1,770	12,066	1,180	0.01	2,312	33,115,010	5,169	38,334	
2031	\$ 1,202	\$ 210	\$ 1,184	\$ 2,596	\$ 198	\$ 5	\$ 2,800	1,936,446	1,664	8,226	417	-	1,352	31,135,019	6,608	39,475	
2032	\$ 1,212	\$ 227	\$ 1,126	\$ 2,566	\$ 224	\$ 6	\$ 2,795	2,107,255	1,828	11,389	584	-	1,875	34,205,826	6,151	40,880	
2033	\$ 1,274	\$ 218	\$ 1,085	\$ 2,577	\$ 211	\$ 5	\$ 2,793	1,919,340	1,667	9,959	559	-	1,898	31,203,447	7,711	42,045	
2034	\$ 1,354	\$ 216	\$ 1,043	\$ 2,613	\$ 211	\$ 5	\$ 2,829	1,858,787	1,596	7,028	382	-	1,363	29,864,233	7,951	43,121	
2035	\$ 1,412	\$ 218	\$ 1,050	\$ 2,680	\$ 213	\$ 5	\$ 2,899	1,814,918	1,565	10,088	492	-	1,489	29,291,622	8,245	44,105	
2036	\$ 1,405	\$ 227	\$ 1,221	\$ 2,854	\$ 231	\$ 6	\$ 3,091	1,900,718	1,612	10,461	572	-	1,792	30,173,540	7,641	45,106	
2037	\$ 1,663	\$ 155	\$ 1,507	\$ 3,325	\$ 118	\$ 3	\$ 3,446	934,278	845	4,635	249	-	854	15,814,852	19,100	46,080	
2038	\$ 1,640	\$ 172	\$ 1,584	\$ 3,396	\$ 144	\$ 4	\$ 3,544	1,106,244	979	5,957	340	-	1,236	18,323,406	17,186	47,142	
2039	\$ 1,665	\$ 191	\$ 1,588	\$ 3,444	\$ 172	\$ 5	\$ 3,620	1,275,949	1,117	8,708	503	-	1,742	20,893,376	16,540	48,169	
2040	\$ 1,718	\$ 192	\$ 1,561	\$ 3,471	\$ 186	\$ 5	\$ 3,662	1,340,123	1,107	10,792	594	-	1,841	20,715,491	14,920	49,134	
2041	\$ 1,817	\$ 216	\$ 1,518	\$ 3,550	\$ 174	\$ 4	\$ 3,728	1,213,480	846	7,853	411	-	1,421	17,594,623	13,723	49,982	
2042	\$ 2,062	\$ 239	\$ 1,384	\$ 3,685	\$ 162	\$ 3	\$ 3,851	1,094,741	647	4,370	242	-	911	15,139,524	12,570	50,856	
2043	\$ 2,120	\$ 256	\$ 1,363	\$ 3,739	\$ 140	\$ 2	\$ 3,882	916,508	468	4,081	222	-	822	12,508,218	12,987	50,342	
2044	\$ 2,182	\$ 326	\$ 1,300	\$ 3,808	\$ 148	\$ 2	\$ 3,958	932,064	412	7,111	359	-	1,198	12,855,814	11,043	51,177	
2045	\$ 2,257	\$ 400	\$ 1,270	\$ 3,927	\$ 144	\$ 2	\$ 4,073	883,048	328	9,174	480	-	1,666	12,287,990	9,820	51,941	
2046	\$ 2,348	\$ 508	\$ 1,181	\$ 4,037	\$ 142	\$ 1	\$ 4,180	842,056	252	12,184	627	-	2,124	11,811,570	7,312	52,777	
2047	\$ 2,459	\$ 562	\$ 1,154	\$ 4,174	\$ 113	\$ 1	\$ 4,288	650,532	146	16,551	864	-	2,945	9,113,359	6,655	53,637	
2048	\$ 2,506	\$ 664	\$ 1,142	\$ 4,313	\$ 87	\$ 0	\$ 4,400	481,989	73	18,805	973	-	3,282	6,787,568	6,030	54,542	
2049	\$ 2,619	\$ 741	\$ 1,137	\$ 4,496	\$ 47	\$ 0	\$ 4,543	251,588	19	15,703	815	-	2,782	3,572,872	5,645	55,268	
2050	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
2051	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
2052	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
2053	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
2054	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
2055	\$ 2,993	\$ 750	\$ 1,056	\$ 4,800	\$ -	\$ -	\$ 4,800	-	-	26,606	1,385	-	4,675	0	5,220	56,532	
			A	B	C	A + B + C											
NPV (\$M)	\$ 20,636	\$ 4,865	\$ 16,307	\$ 41,808	\$ 6,269	\$ 56	\$ 48,132	69,249,725	14,962	51,991	25,735	0.23	7,041	<< 2023-2030 sum			
2023-2055								92,709,788	32,135	394,702	43,733	0.23	67,684	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 3 - Least Cost Plan (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of			TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Forecast Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)											
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,145	2,132	6,601	6,041	0.06	405	39,888,431	556	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,367	1,961	6,487	6,018	0.06	400	36,693,920	763	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,326	2,508	6,395	5,562	0.05	394	46,931,527	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,589	2,346	2,440	2,240	0.02	310	43,902,678	3,673	34,760	
2027	\$ 1,005	\$ 250	\$ 1,178	\$ 2,433	\$ 482	\$ 3	\$ 2,918	5,408,830	1,278	2,523	1,900	0.02	278	23,914,107	5,163	35,507	
2028	\$ 1,014	\$ 222	\$ 1,267	\$ 2,504	\$ 439	\$ 3	\$ 2,946	4,758,494	1,270	3,848	1,595	0.01	435	23,760,268	5,595	36,409	
2029	\$ 1,092	\$ 218	\$ 1,249	\$ 2,560	\$ 295	\$ 4	\$ 2,859	3,086,637	1,482	5,558	757	0.01	652	27,724,641	5,640	37,260	
2030	\$ 1,129	\$ 231	\$ 1,194	\$ 2,554	\$ 322	\$ 4	\$ 2,880	3,250,737	1,619	6,618	795	0.01	768	30,288,201	5,230	38,334	
2031	\$ 1,274	\$ 201	\$ 1,128	\$ 2,602	\$ 185	\$ 4	\$ 2,791	1,803,645	1,549	5,783	246	-	662	28,988,397	6,753	39,475	
2032	\$ 1,285	\$ 216	\$ 1,071	\$ 2,572	\$ 209	\$ 5	\$ 2,786	1,970,011	1,704	7,316	320	-	831	31,894,143	6,285	40,880	
2033	\$ 1,346	\$ 208	\$ 1,031	\$ 2,585	\$ 197	\$ 5	\$ 2,788	1,795,261	1,560	6,557	287	-	744	29,192,885	7,856	42,045	
2034	\$ 1,426	\$ 207	\$ 991	\$ 2,623	\$ 198	\$ 5	\$ 2,826	1,741,974	1,498	3,286	140	-	400	28,036,705	8,098	43,121	
2035	\$ 1,483	\$ 208	\$ 1,000	\$ 2,691	\$ 199	\$ 5	\$ 2,896	1,696,798	1,460	7,213	314	-	807	27,313,660	8,385	44,105	
2036	\$ 1,477	\$ 217	\$ 1,171	\$ 2,865	\$ 217	\$ 5	\$ 3,088	1,782,040	1,509	7,109	335	-	798	28,234,618	7,778	45,106	
2037	\$ 1,735	\$ 148	\$ 1,458	\$ 3,341	\$ 108	\$ 3	\$ 3,452	857,627	775	3,327	145	-	370	14,507,979	19,291	46,080	
2038	\$ 1,707	\$ 165	\$ 1,537	\$ 3,409	\$ 133	\$ 4	\$ 3,545	1,020,407	908	4,079	185	-	454	17,000,087	17,429	47,142	
2039	\$ 1,732	\$ 183	\$ 1,542	\$ 3,457	\$ 159	\$ 4	\$ 3,621	1,186,026	1,041	6,302	279	-	692	19,487,068	16,783	48,169	
2040	\$ 1,783	\$ 183	\$ 1,517	\$ 3,482	\$ 173	\$ 4	\$ 3,659	1,244,190	1,026	7,990	370	-	880	19,199,926	15,124	49,134	
2041	\$ 1,887	\$ 203	\$ 1,476	\$ 3,566	\$ 162	\$ 3	\$ 3,731	1,126,124	776	5,604	239	-	630	16,125,510	13,900	49,982	
2042	\$ 2,132	\$ 226	\$ 1,346	\$ 3,705	\$ 151	\$ 3	\$ 3,859	1,019,854	597	2,877	123	-	350	13,954,810	12,763	50,856	
2043	\$ 2,190	\$ 241	\$ 1,326	\$ 3,757	\$ 130	\$ 2	\$ 3,889	851,563	429	3,209	137	-	381	11,475,941	13,174	50,342	
2044	\$ 2,252	\$ 308	\$ 1,263	\$ 3,822	\$ 138	\$ 2	\$ 3,962	873,499	382	5,106	218	-	589	11,928,251	11,211	51,177	
2045	\$ 2,326	\$ 377	\$ 1,234	\$ 3,937	\$ 136	\$ 2	\$ 4,075	830,724	306	6,886	294	-	783	11,458,629	9,962	51,941	
2046	\$ 2,422	\$ 481	\$ 1,146	\$ 4,049	\$ 134	\$ 1	\$ 4,184	796,360	237	9,422	403	-	1,061	11,086,831	7,437	52,777	
2047	\$ 2,542	\$ 532	\$ 1,119	\$ 4,193	\$ 107	\$ 1	\$ 4,301	615,866	137	12,679	542	-	1,402	8,558,975	6,777	53,637	
2048	\$ 2,600	\$ 631	\$ 1,109	\$ 4,339	\$ 82	\$ 0	\$ 4,422	458,269	68	13,677	584	-	1,518	6,404,692	6,159	54,542	
2049	\$ 2,713	\$ 704	\$ 1,103	\$ 4,520	\$ 44	\$ 0	\$ 4,564	239,533	18	12,191	521	-	1,369	3,374,908	5,764	55,268	
2050	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2051	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2052	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2053	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2054	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2055	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
				A	B	C	A + B + C										
NPV (\$M) \$ 21,353 \$ 4,717 \$ 15,810 \$ 41,880 \$ 6,160 \$ 54 \$ 48,094								68,822,125	14,594	40,470	24,909	0.23	3,642	<< 2023-2030 sum			
2023-2055								90,731,893	30,576	295,030	35,882	0.23	31,828	<< 2023-2055 sum			
Notes: Costs do not include transmission network upgrades for delivery. Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.																	
															PVRR = Present Value Revenue Requirement		
															PVSC = Present Value Societal Cost		

Portfolio: 4 - 40% Ownership Test Plan (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons (\$/Tons)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,145	2,132	6,601	6,041	0.06	405	39,888,431	556	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,367	1,961	6,487	6,018	0.06	400	36,693,920	763	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,326	2,508	6,395	5,562	0.05	394	46,931,527	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,589	2,346	2,440	2,240	0.02	310	43,902,678	3,673	34,760	
2027	\$ 1,005	\$ 250	\$ 1,178	\$ 2,433	\$ 482	\$ 3	\$ 2,918	5,408,830	1,278	2,523	1,900	0.02	278	23,914,107	5,163	35,507	
2028	\$ 1,014	\$ 222	\$ 1,267	\$ 2,504	\$ 439	\$ 3	\$ 2,946	4,758,494	1,270	3,848	1,595	0.01	435	23,760,268	5,595	36,409	
2029	\$ 1,092	\$ 218	\$ 1,249	\$ 2,560	\$ 295	\$ 4	\$ 2,859	3,086,637	1,482	5,558	757	0.01	652	27,724,641	5,640	37,260	
2030	\$ 1,129	\$ 231	\$ 1,194	\$ 2,554	\$ 322	\$ 4	\$ 2,880	3,250,737	1,619	6,618	795	0.01	768	30,288,201	5,230	38,334	
2031	\$ 1,274	\$ 201	\$ 1,128	\$ 2,602	\$ 185	\$ 4	\$ 2,791	1,803,645	1,549	5,783	246	-	662	28,988,397	6,753	39,475	
2032	\$ 1,285	\$ 216	\$ 1,071	\$ 2,572	\$ 209	\$ 5	\$ 2,786	1,970,011	1,704	7,316	320	-	831	31,894,143	6,285	40,880	
2033	\$ 1,346	\$ 208	\$ 1,031	\$ 2,585	\$ 197	\$ 5	\$ 2,788	1,795,261	1,560	6,557	287	-	744	29,192,885	7,856	42,045	
2034	\$ 1,426	\$ 207	\$ 991	\$ 2,623	\$ 198	\$ 5	\$ 2,826	1,741,974	1,498	3,286	140	-	400	28,036,705	8,098	43,121	
2035	\$ 1,483	\$ 208	\$ 1,000	\$ 2,691	\$ 199	\$ 5	\$ 2,896	1,696,798	1,460	7,213	314	-	807	27,313,660	8,385	44,105	
2036	\$ 1,477	\$ 217	\$ 1,171	\$ 2,865	\$ 217	\$ 5	\$ 3,088	1,782,040	1,509	7,109	335	-	798	28,234,618	7,778	45,106	
2037	\$ 1,735	\$ 148	\$ 1,458	\$ 3,341	\$ 108	\$ 3	\$ 3,452	857,627	775	3,327	145	-	370	14,507,979	19,291	46,080	
2038	\$ 1,707	\$ 165	\$ 1,537	\$ 3,409	\$ 133	\$ 4	\$ 3,545	1,020,407	908	4,079	185	-	454	17,000,087	17,429	47,142	
2039	\$ 1,732	\$ 183	\$ 1,542	\$ 3,457	\$ 159	\$ 4	\$ 3,621	1,186,026	1,041	6,302	279	-	692	19,487,068	16,783	48,169	
2040	\$ 1,783	\$ 183	\$ 1,517	\$ 3,482	\$ 173	\$ 4	\$ 3,659	1,244,190	1,026	7,990	370	-	880	19,199,926	15,124	49,134	
2041	\$ 1,887	\$ 203	\$ 1,476	\$ 3,566	\$ 162	\$ 3	\$ 3,731	1,126,124	776	5,604	239	-	630	16,125,510	13,900	49,982	
2042	\$ 2,132	\$ 226	\$ 1,346	\$ 3,705	\$ 151	\$ 3	\$ 3,859	1,019,854	597	2,877	123	-	350	13,954,810	12,763	50,856	
2043	\$ 2,190	\$ 241	\$ 1,326	\$ 3,757	\$ 130	\$ 2	\$ 3,889	851,563	429	3,209	137	-	381	11,475,941	13,174	50,342	
2044	\$ 2,252	\$ 308	\$ 1,263	\$ 3,822	\$ 138	\$ 2	\$ 3,962	873,499	382	5,106	218	-	589	11,928,251	11,211	51,177	
2045	\$ 2,326	\$ 377	\$ 1,234	\$ 3,937	\$ 136	\$ 2	\$ 4,075	830,724	306	6,886	294	-	783	11,458,629	9,962	51,941	
2046	\$ 2,422	\$ 481	\$ 1,146	\$ 4,049	\$ 134	\$ 1	\$ 4,184	796,360	237	9,422	403	-	1,061	11,086,831	7,437	52,777	
2047	\$ 2,542	\$ 532	\$ 1,119	\$ 4,193	\$ 107	\$ 1	\$ 4,301	615,866	137	12,679	542	-	1,402	8,558,975	6,777	53,637	
2048	\$ 2,600	\$ 631	\$ 1,109	\$ 4,339	\$ 82	\$ 0	\$ 4,422	458,269	68	13,677	584	-	1,518	6,404,692	6,159	54,542	
2049	\$ 2,713	\$ 704	\$ 1,103	\$ 4,520	\$ 44	\$ 0	\$ 4,564	239,533	18	12,191	521	-	1,369	3,374,908	5,764	55,268	
2050	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2051	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2052	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2053	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2054	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
2055	\$ 3,059	\$ 715	\$ 1,023	\$ 4,797	\$ -	\$ -	\$ 4,797	-	-	20,658	882	-	2,244	0	5,344	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,353	\$ 4,717	\$ 15,810	\$ 41,880	\$ 6,160	\$ 54	\$ 48,094	68,822,125	14,594	40,470	24,909	0.23	3,642	<< 2023-2030 sum			
								90,731,893	30,576	295,030	35,882	0.23	31,828	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 6 - Lower Dispatchable Plan (SCC)										Emissions						Native Load		
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Emissions					Natural Gas		Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 (\$M)	Methane Tons (\$M)	TOTAL (\$M)			Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Burn (MMBtu)	Curtailement (GWh)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906		
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,807	1,961	6,487	6,018	0.06	400	36,693,942	762	34,410		
2025	\$ 871	\$ 434	\$ 775	\$ 2,080	\$ 1,208	\$ 6	\$ 3,293	14,536,042	2,504	6,394	5,556	0.05	394	46,860,211	624	35,028		
2026	\$ 956	\$ 341	\$ 772	\$ 2,069	\$ 633	\$ 5	\$ 2,707	7,348,020	2,346	2,444	2,248	0.02	310	43,906,556	3,683	34,760		
2027	\$ 1,012	\$ 244	\$ 1,202	\$ 2,458	\$ 471	\$ 3	\$ 2,932	5,283,025	1,211	2,630	1,898	0.02	395	22,656,079	5,552	35,507		
2028	\$ 989	\$ 223	\$ 1,318	\$ 2,529	\$ 434	\$ 3	\$ 2,967	4,698,552	1,296	5,130	1,710	0.01	1,019	24,251,050	6,091	36,409		
2029	\$ 1,045	\$ 225	\$ 1,315	\$ 2,584	\$ 301	\$ 4	\$ 2,889	3,151,680	1,552	6,936	979	0.01	1,523	29,047,274	6,021	37,260		
2030	\$ 1,082	\$ 237	\$ 1,259	\$ 2,577	\$ 329	\$ 5	\$ 2,911	3,323,776	1,694	8,690	1,113	0.01	2,127	31,697,703	5,597	38,334		
2031	\$ 1,225	\$ 204	\$ 1,191	\$ 2,620	\$ 188	\$ 5	\$ 2,814	1,839,524	1,589	5,544	359	-	1,146	29,729,542	7,054	39,475		
2032	\$ 1,236	\$ 219	\$ 1,133	\$ 2,588	\$ 212	\$ 5	\$ 2,805	1,997,929	1,735	7,263	494	-	1,775	32,460,566	6,574	40,880		
2033	\$ 1,298	\$ 211	\$ 1,092	\$ 2,601	\$ 200	\$ 5	\$ 2,806	1,822,882	1,591	6,973	476	-	1,537	29,773,892	8,133	42,045		
2034	\$ 1,377	\$ 209	\$ 1,050	\$ 2,636	\$ 201	\$ 5	\$ 2,842	1,764,892	1,524	5,129	340	-	1,107	28,523,564	8,370	43,121		
2035	\$ 1,436	\$ 212	\$ 1,057	\$ 2,705	\$ 203	\$ 5	\$ 2,913	1,724,972	1,497	7,213	478	-	1,643	28,009,203	8,605	44,105		
2036	\$ 1,430	\$ 220	\$ 1,227	\$ 2,877	\$ 219	\$ 6	\$ 3,102	1,804,100	1,539	6,933	507	-	1,630	28,807,284	8,069	45,106		
2037	\$ 1,692	\$ 151	\$ 1,516	\$ 3,359	\$ 112	\$ 3	\$ 3,473	887,242	807	3,428	247	-	747	15,098,418	19,748	46,080		
2038	\$ 1,664	\$ 168	\$ 1,596	\$ 3,428	\$ 137	\$ 4	\$ 3,569	1,051,547	936	4,483	304	-	889	17,517,236	17,736	47,142		
2039	\$ 1,691	\$ 186	\$ 1,603	\$ 3,480	\$ 164	\$ 4	\$ 3,648	1,219,140	1,073	6,296	439	-	1,455	20,081,673	17,112	48,169		
2040	\$ 1,743	\$ 186	\$ 1,577	\$ 3,507	\$ 177	\$ 4	\$ 3,689	1,274,900	1,058	6,705	497	-	1,628	19,800,737	15,455	49,134		
2041	\$ 1,843	\$ 208	\$ 1,533	\$ 3,584	\$ 165	\$ 4	\$ 3,753	1,151,829	805	5,188	340	-	1,161	16,735,432	14,231	49,982		
2042	\$ 2,087	\$ 229	\$ 1,399	\$ 3,715	\$ 153	\$ 3	\$ 3,871	1,033,518	610	3,137	215	-	676	14,265,317	13,044	50,856		
2043	\$ 2,147	\$ 245	\$ 1,378	\$ 3,769	\$ 132	\$ 2	\$ 3,903	864,366	439	3,106	233	-	802	11,748,389	13,477	50,342		
2044	\$ 2,207	\$ 312	\$ 1,314	\$ 3,832	\$ 140	\$ 2	\$ 3,974	882,130	389	4,070	286	-	1,004	12,130,101	11,500	51,177		
2045	\$ 2,286	\$ 382	\$ 1,284	\$ 3,953	\$ 137	\$ 2	\$ 4,091	838,125	311	6,253	393	-	1,346	11,630,650	10,224	51,941		
2046	\$ 2,377	\$ 484	\$ 1,195	\$ 4,056	\$ 135	\$ 1	\$ 4,192	798,894	239	7,603	493	-	1,802	11,166,111	7,682	52,777		
2047	\$ 2,492	\$ 533	\$ 1,168	\$ 4,194	\$ 107	\$ 1	\$ 4,302	616,767	138	9,824	638	-	2,399	8,587,051	7,014	53,637		
2048	\$ 2,540	\$ 629	\$ 1,157	\$ 4,326	\$ 82	\$ 0	\$ 4,408	456,990	68	11,831	747	-	2,785	6,390,927	6,401	54,542		
2049	\$ 2,649	\$ 703	\$ 1,150	\$ 4,503	\$ 44	\$ 0	\$ 4,547	239,104	18	9,920	621	-	2,275	3,373,837	5,987	55,268		
2050	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
2051	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
2052	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
2053	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
2054	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
2055	\$ 3,052	\$ 709	\$ 1,070	\$ 4,831	\$ -	\$ -	\$ 4,831	-	-	15,712	970	-	3,611	0	5,550	56,532		
				A	B	C	A + B + C											
NPV (\$M) 2023-2055	\$ 20,957	\$ 4,736	\$ 16,395	\$ 42,088	\$ 6,175	\$ 54	\$ 48,317	68,775,275	14,696	45,313	25,563	0.23	6,573	<< 2023-2030 sum				
								91,044,125	31,061	260,480	39,489	0.23	56,047	<< 2023-2055 sum				

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 7 - High Project Labor Agreement (PLA) (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of		TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Native Load Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)											
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,145	2,132	6,601	6,041	0.06	405	39,888,431	556	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,346	1,961	6,487	6,018	0.06	400	36,693,915	765	34,410	
2025	\$ 866	\$ 435	\$ 773	\$ 2,074	\$ 1,208	\$ 6	\$ 3,287	14,539,704	2,509	6,395	5,562	0.05	394	46,956,131	624	35,028	
2026	\$ 882	\$ 366	\$ 824	\$ 2,072	\$ 670	\$ 6	\$ 2,748	7,780,741	2,659	2,538	2,306	0.02	331	49,753,589	1,755	34,760	
2027	\$ 923	\$ 277	\$ 1,235	\$ 2,435	\$ 524	\$ 4	\$ 2,963	5,881,263	1,600	3,296	2,017	0.02	511	29,939,054	4,384	35,507	
2028	\$ 973	\$ 224	\$ 1,375	\$ 2,573	\$ 440	\$ 3	\$ 3,017	4,769,789	1,298	4,154	1,668	0.01	759	24,287,792	6,000	36,409	
2029	\$ 1,032	\$ 224	\$ 1,361	\$ 2,617	\$ 302	\$ 4	\$ 2,923	3,160,302	1,549	5,606	874	0.01	1,110	28,988,726	5,970	37,260	
2030	\$ 1,064	\$ 236	\$ 1,291	\$ 2,592	\$ 329	\$ 5	\$ 2,925	3,326,199	1,688	6,730	962	0.01	1,551	31,585,660	5,574	38,334	
2031	\$ 1,209	\$ 206	\$ 1,217	\$ 2,632	\$ 191	\$ 5	\$ 2,828	1,867,596	1,607	4,951	324	-	1,001	30,062,867	7,072	39,475	
2032	\$ 1,220	\$ 221	\$ 1,155	\$ 2,596	\$ 216	\$ 5	\$ 2,816	2,031,630	1,763	6,797	460	-	1,611	32,982,769	6,590	40,880	
2033	\$ 1,281	\$ 213	\$ 1,103	\$ 2,597	\$ 204	\$ 5	\$ 2,806	1,855,169	1,615	5,935	412	-	1,403	30,218,641	8,108	42,045	
2034	\$ 1,361	\$ 211	\$ 1,054	\$ 2,627	\$ 204	\$ 5	\$ 2,836	1,797,747	1,546	4,833	309	-	1,005	28,934,750	8,332	43,121	
2035	\$ 1,418	\$ 213	\$ 1,079	\$ 2,710	\$ 206	\$ 5	\$ 2,922	1,755,892	1,516	6,729	449	-	1,574	28,362,630	8,648	44,105	
2036	\$ 1,411	\$ 222	\$ 1,263	\$ 2,897	\$ 223	\$ 6	\$ 3,126	1,836,013	1,558	6,406	453	-	1,489	29,160,306	8,097	45,106	
2037	\$ 1,684	\$ 152	\$ 1,562	\$ 3,398	\$ 114	\$ 3	\$ 3,515	907,595	820	3,289	226	-	680	15,338,877	19,702	46,080	
2038	\$ 1,640	\$ 169	\$ 1,709	\$ 3,518	\$ 140	\$ 4	\$ 3,661	1,075,784	955	4,626	304	-	933	17,867,777	17,791	47,142	
2039	\$ 1,666	\$ 188	\$ 1,724	\$ 3,578	\$ 167	\$ 4	\$ 3,749	1,240,018	1,088	5,541	388	-	1,305	20,355,875	17,127	48,169	
2040	\$ 1,717	\$ 188	\$ 1,695	\$ 3,601	\$ 181	\$ 5	\$ 3,786	1,300,095	1,074	7,313	502	-	1,573	20,100,187	15,462	49,134	
2041	\$ 1,819	\$ 211	\$ 1,649	\$ 3,678	\$ 169	\$ 4	\$ 3,851	1,177,262	818	4,977	328	-	1,122	17,016,041	14,266	49,982	
2042	\$ 2,058	\$ 235	\$ 1,518	\$ 3,811	\$ 159	\$ 3	\$ 3,973	1,070,006	633	3,065	220	-	727	14,801,219	13,075	50,856	
2043	\$ 2,115	\$ 251	\$ 1,491	\$ 3,858	\$ 137	\$ 2	\$ 3,997	894,927	456	3,200	214	-	646	12,200,464	13,490	50,342	
2044	\$ 2,179	\$ 320	\$ 1,426	\$ 3,924	\$ 144	\$ 2	\$ 4,070	910,196	402	4,716	304	-	1,004	12,522,914	11,508	51,177	
2045	\$ 2,253	\$ 391	\$ 1,398	\$ 4,042	\$ 141	\$ 2	\$ 4,184	861,501	320	5,997	396	-	1,418	11,968,046	10,242	51,941	
2046	\$ 2,325	\$ 496	\$ 1,303	\$ 4,124	\$ 139	\$ 1	\$ 4,264	821,030	246	7,403	472	-	1,697	11,497,446	7,714	52,777	
2047	\$ 2,432	\$ 549	\$ 1,276	\$ 4,257	\$ 111	\$ 1	\$ 4,368	634,811	142	10,832	655	-	2,317	8,874,762	7,049	53,637	
2048	\$ 2,496	\$ 651	\$ 1,262	\$ 4,409	\$ 85	\$ 0	\$ 4,494	471,448	71	11,964	761	-	2,860	6,631,368	6,391	54,542	
2049	\$ 2,606	\$ 725	\$ 1,253	\$ 4,584	\$ 46	\$ 0	\$ 4,630	246,136	19	10,291	643	-	2,357	3,490,394	6,025	55,268	
2050	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
2051	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
2052	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
2053	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
2054	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
2055	\$ 2,983	\$ 733	\$ 1,168	\$ 4,884	\$ -	\$ -	\$ 4,884	-	-	16,783	1,015	-	3,722	0	5,584	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 20,554	\$ 4,840	\$ 17,123	\$ 42,517	\$ 6,278	\$ 56	\$ 48,851	69,892,489	15,395	41,808	25,447	0.23	5,460	<< 2023-2030 sum			
2023-2055								92,647,344	32,042	261,373	39,359	0.23	54,515	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 8 - No New Gas Plan (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of			TOTAL PVSC (\$M)	Carbon (tons)	Emissions					Native Load Forecast		
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		Cost of CO2 (\$M)	Methane Tons (\$M)	TOTAL (\$M)			Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy (GW/h)
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,291	2,132	6,601	6,041	0.06	405	39,888,422	562	33,906	
2024	\$ 833	\$ 438	\$ 754	\$ 2,025	\$ 1,210	\$ 4	\$ 3,239	15,089,413	1,951	6,477	6,010	0.06	399	36,506,789	781	34,410	
2025	\$ 872	\$ 433	\$ 772	\$ 2,077	\$ 1,205	\$ 6	\$ 3,288	14,505,828	2,484	6,387	5,553	0.05	392	46,483,670	630	35,028	
2026	\$ 980	\$ 317	\$ 686	\$ 1,983	\$ 607	\$ 5	\$ 2,594	7,046,063	2,040	2,379	2,220	0.02	295	38,169,838	4,104	34,760	
2027	\$ 1,129	\$ 212	\$ 1,267	\$ 2,607	\$ 420	\$ 2	\$ 3,029	4,705,431	873	1,761	1,765	0.01	183	16,337,796	6,171	35,507	
2028	\$ 1,240	\$ 165	\$ 1,327	\$ 2,732	\$ 319	\$ 2	\$ 3,053	3,457,034	729	1,283	1,237	0.01	141	13,639,928	6,871	36,409	
2029	\$ 1,350	\$ 160	\$ 1,392	\$ 2,902	\$ 213	\$ 2	\$ 3,117	2,225,604	785	623	519	0.01	108	14,696,026	6,943	37,260	
2030	\$ 1,379	\$ 168	\$ 1,321	\$ 2,868	\$ 233	\$ 2	\$ 3,104	2,356,358	862	649	534	0.01	115	16,137,242	6,519	38,334	
2031	\$ 1,526	\$ 149	\$ 1,242	\$ 2,916	\$ 109	\$ 3	\$ 3,029	1,068,026	936	179	8	-	53	17,510,539	8,412	39,475	
2032	\$ 1,536	\$ 163	\$ 1,173	\$ 2,872	\$ 130	\$ 3	\$ 3,006	1,228,766	1,083	206	9	-	63	20,274,884	7,944	40,880	
2033	\$ 1,597	\$ 159	\$ 1,123	\$ 2,879	\$ 124	\$ 3	\$ 3,006	1,125,317	1,006	191	9	-	58	18,824,982	9,512	42,045	
2034	\$ 1,678	\$ 158	\$ 1,075	\$ 2,911	\$ 125	\$ 3	\$ 3,040	1,100,470	970	186	8	-	55	18,149,366	9,767	43,121	
2035	\$ 1,737	\$ 159	\$ 1,098	\$ 2,993	\$ 126	\$ 3	\$ 3,123	1,072,702	940	185	8	-	53	17,589,830	10,033	44,105	
2036	\$ 1,733	\$ 164	\$ 1,327	\$ 3,224	\$ 136	\$ 3	\$ 3,363	1,116,042	961	188	16	-	55	17,978,834	9,636	45,106	
2037	\$ 1,986	\$ 118	\$ 1,652	\$ 3,755	\$ 62	\$ 2	\$ 3,819	492,238	477	106	5	-	22	8,919,309	21,837	46,080	
2038	\$ 1,959	\$ 129	\$ 1,737	\$ 3,825	\$ 79	\$ 2	\$ 3,906	606,858	565	124	11	-	28	10,565,241	19,975	47,142	
2039	\$ 1,986	\$ 142	\$ 1,736	\$ 3,864	\$ 97	\$ 3	\$ 3,964	723,681	662	139	7	-	34	12,392,317	19,218	48,169	
2040	\$ 2,039	\$ 133	\$ 1,707	\$ 3,879	\$ 103	\$ 3	\$ 3,985	740,559	592	102	24	-	40	11,075,036	17,515	49,134	
2041	\$ 2,143	\$ 139	\$ 1,662	\$ 3,944	\$ 93	\$ 2	\$ 4,039	647,553	414	81	3	-	34	8,599,819	16,247	49,982	
2042	\$ 2,396	\$ 152	\$ 1,527	\$ 4,074	\$ 89	\$ 1	\$ 4,165	598,392	319	66	3	-	35	7,463,494	15,032	50,856	
2043	\$ 2,458	\$ 156	\$ 1,502	\$ 4,115	\$ 75	\$ 1	\$ 4,191	489,706	221	60	3	-	32	5,895,702	15,478	50,342	
2044	\$ 2,521	\$ 202	\$ 1,437	\$ 4,160	\$ 84	\$ 1	\$ 4,245	532,040	215	83	4	-	42	6,714,407	13,295	51,177	
2045	\$ 2,607	\$ 248	\$ 1,400	\$ 4,255	\$ 85	\$ 1	\$ 4,341	520,703	179	100	4	-	50	6,692,212	11,972	51,941	
2046	\$ 2,732	\$ 316	\$ 1,306	\$ 4,354	\$ 87	\$ 1	\$ 4,441	513,536	143	129	6	-	63	6,666,527	9,218	52,777	
2047	\$ 2,849	\$ 347	\$ 1,261	\$ 4,457	\$ 70	\$ 0	\$ 4,527	399,427	83	139	6	-	65	5,170,102	8,536	53,637	
2048	\$ 2,907	\$ 424	\$ 1,255	\$ 4,585	\$ 55	\$ 0	\$ 4,641	308,247	43	167	7	-	77	4,054,550	7,805	54,542	
2049	\$ 3,013	\$ 472	\$ 1,245	\$ 4,729	\$ 30	\$ 0	\$ 4,759	161,957	11	173	7	-	82	2,146,036	7,383	55,268	
2050	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
2051	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
2052	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
2053	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
2054	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
2055	\$ 3,343	\$ 491	\$ 1,160	\$ 4,994	\$ -	\$ -	\$ 4,994	-	-	190	7	-	82	0	6,966	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 24,095	\$ 3,806	\$ 17,181	\$ 45,082	\$ 5,444	\$ 39	\$ 50,565	64,700,021	11,856	26,160	23,880	0.22	2,039	<< 2023-2030 sum			
								78,146,241	21,675	29,903	24,070	0.22	3,468	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 9 - Accelerated CO2 (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/MWh)	Methane Tons (\$/MWh)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy Forecast (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,770	1,961	6,487	6,018	0.06	400	36,693,931	764	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,324	2,508	6,395	5,562	0.05	394	46,931,586	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,619	2,346	2,440	2,240	0.02	310	43,903,636	3,678	34,760	
2027	\$ 989	\$ 250	\$ 1,211	\$ 2,450	\$ 482	\$ 3	\$ 2,935	5,408,979	1,278	2,979	1,929	0.02	393	23,913,242	5,163	35,507	
2028	\$ 953	\$ 231	\$ 1,339	\$ 2,523	\$ 452	\$ 3	\$ 2,978	4,891,432	1,370	6,325	1,783	0.01	1,067	25,643,853	5,437	36,409	
2029	\$ 1,009	\$ 232	\$ 1,336	\$ 2,577	\$ 313	\$ 4	\$ 2,894	3,278,061	1,643	9,154	1,048	0.01	1,674	30,752,165	5,373	37,260	
2030	\$ 1,045	\$ 245	\$ 1,280	\$ 2,571	\$ 342	\$ 5	\$ 2,918	3,459,147	1,799	12,305	1,227	0.01	2,318	33,658,949	4,981	38,334	
2031	\$ 1,190	\$ 213	\$ 1,218	\$ 2,621	\$ 202	\$ 5	\$ 2,828	1,973,922	1,692	8,241	449	-	1,303	31,661,990	6,421	39,475	
2032	\$ 1,201	\$ 230	\$ 1,159	\$ 2,590	\$ 228	\$ 6	\$ 2,824	2,150,001	1,863	11,081	640	-	2,039	34,853,847	5,966	40,880	
2033	\$ 1,263	\$ 220	\$ 1,118	\$ 2,601	\$ 215	\$ 5	\$ 2,821	1,959,628	1,700	10,057	584	-	1,783	31,817,281	7,524	42,045	
2034	\$ 1,343	\$ 218	\$ 1,075	\$ 2,636	\$ 216	\$ 5	\$ 2,857	1,896,757	1,625	7,198	426	-	1,364	30,401,035	7,767	43,121	
2035	\$ 1,400	\$ 221	\$ 1,081	\$ 2,702	\$ 218	\$ 6	\$ 2,926	1,853,124	1,594	8,872	535	-	1,767	29,832,286	8,065	44,105	
2036	\$ 1,395	\$ 230	\$ 1,251	\$ 2,876	\$ 236	\$ 6	\$ 3,118	1,938,906	1,641	9,900	611	-	1,893	30,701,237	7,456	45,106	
2037	\$ 1,650	\$ 156	\$ 1,541	\$ 3,347	\$ 120	\$ 3	\$ 3,471	954,028	859	4,898	296	-	855	16,082,892	18,853	46,080	
2038	\$ 1,628	\$ 174	\$ 1,621	\$ 3,422	\$ 147	\$ 4	\$ 3,573	1,129,915	998	6,457	386	-	1,173	18,673,611	16,959	47,142	
2039	\$ 1,654	\$ 193	\$ 1,626	\$ 3,473	\$ 175	\$ 5	\$ 3,653	1,300,965	1,135	8,764	530	-	1,631	21,248,357	16,312	48,169	
2040	\$ 1,707	\$ 194	\$ 1,600	\$ 3,501	\$ 190	\$ 5	\$ 3,696	1,367,081	1,127	10,878	637	-	1,855	21,097,378	14,704	49,134	
2041	\$ 1,806	\$ 218	\$ 1,555	\$ 3,580	\$ 178	\$ 4	\$ 3,762	1,238,019	863	8,197	462	-	1,431	17,941,328	13,516	49,982	
2042	\$ 2,051	\$ 244	\$ 1,422	\$ 3,717	\$ 166	\$ 3	\$ 3,886	1,120,255	664	4,716	288	-	888	15,534,520	12,370	50,856	
2043	\$ 2,110	\$ 261	\$ 1,401	\$ 3,771	\$ 144	\$ 2	\$ 3,917	937,756	480	4,093	260	-	799	12,819,151	12,801	50,342	
2044	\$ 2,172	\$ 332	\$ 1,337	\$ 3,841	\$ 151	\$ 2	\$ 3,993	951,167	421	7,118	417	-	1,327	13,132,261	10,855	51,177	
2045	\$ 2,247	\$ 407	\$ 1,307	\$ 3,961	\$ 147	\$ 2	\$ 4,110	900,575	335	9,856	532	-	1,616	12,540,896	9,643	51,941	
2046	\$ 2,338	\$ 517	\$ 1,218	\$ 4,072	\$ 145	\$ 1	\$ 4,218	858,295	258	12,183	666	-	2,121	12,051,986	7,156	52,777	
2047	\$ 2,449	\$ 572	\$ 1,190	\$ 4,211	\$ 115	\$ 1	\$ 4,328	663,169	149	17,147	921	-	2,951	9,306,820	6,500	53,637	
2048	\$ 2,498	\$ 678	\$ 1,179	\$ 4,354	\$ 88	\$ 0	\$ 4,443	491,591	74	18,665	1,031	-	3,448	6,937,426	5,890	54,542	
2049	\$ 2,608	\$ 755	\$ 1,173	\$ 4,537	\$ 48	\$ 0	\$ 4,584	256,314	19	16,007	893	-	2,999	3,648,020	5,502	55,268	
2050	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
2051	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
2052	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
2053	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
2054	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
2055	\$ 2,988	\$ 766	\$ 1,093	\$ 4,847	\$ -	\$ -	\$ 4,847	-	-	26,993	1,466	-	4,900	0	5,089	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 20,534	\$ 4,912	\$ 16,638	\$ 42,084	\$ 6,300	\$ 57	\$ 48,441	69,354,704	15,037	52,685	25,848	0.23	6,961	<< 2023-2030 sum			
								93,296,174	32,534	398,971	45,208	0.23	69,606	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 11 - Without May Valley Plan (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of			TOTAL PVSC (\$M)	Carbon (tons)	Emissions					Native Load Forecast		
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 (\$M)	Methane Tons (\$M)	TOTAL (\$M)			Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GWh)	Energy (GWh)
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,096	2,132	6,601	6,041	0.06	405	39,888,424	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,977	1,961	6,487	6,018	0.06	400	36,693,940	764	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,663	2,508	6,395	5,562	0.05	394	46,931,599	624	35,028	
2026	\$ 955	\$ 328	\$ 806	\$ 2,089	\$ 614	\$ 5	\$ 2,708	7,128,043	2,193	2,392	2,211	0.02	299	41,035,676	3,106	34,760	
2027	\$ 1,012	\$ 259	\$ 1,176	\$ 2,447	\$ 497	\$ 3	\$ 2,947	5,569,770	1,384	2,689	1,936	0.02	381	25,906,326	5,119	35,507	
2028	\$ 1,041	\$ 236	\$ 1,244	\$ 2,521	\$ 460	\$ 4	\$ 2,985	4,980,682	1,425	3,557	1,659	0.01	703	26,662,418	4,995	36,409	
2029	\$ 1,135	\$ 230	\$ 1,259	\$ 2,624	\$ 312	\$ 4	\$ 2,940	3,261,860	1,623	5,300	863	0.01	1,172	30,378,794	5,571	37,260	
2030	\$ 1,172	\$ 243	\$ 1,213	\$ 2,628	\$ 340	\$ 5	\$ 2,972	3,432,079	1,767	5,817	885	0.01	1,288	33,059,807	5,141	38,334	
2031	\$ 1,315	\$ 213	\$ 1,156	\$ 2,685	\$ 202	\$ 5	\$ 2,892	1,973,994	1,693	4,115	283	-	989	31,677,483	6,627	39,475	
2032	\$ 1,327	\$ 228	\$ 1,108	\$ 2,663	\$ 227	\$ 6	\$ 2,895	2,136,512	1,842	6,891	445	-	1,509	34,462,090	6,161	40,880	
2033	\$ 1,389	\$ 218	\$ 1,076	\$ 2,683	\$ 212	\$ 5	\$ 2,901	1,934,529	1,671	5,513	381	-	1,280	31,271,403	7,694	42,045	
2034	\$ 1,468	\$ 216	\$ 1,043	\$ 2,727	\$ 213	\$ 5	\$ 2,945	1,871,376	1,601	5,251	333	-	1,106	29,957,032	7,908	43,121	
2035	\$ 1,524	\$ 219	\$ 1,072	\$ 2,815	\$ 215	\$ 5	\$ 3,036	1,829,735	1,573	6,793	420	-	1,373	29,438,370	8,179	44,105	
2036	\$ 1,519	\$ 228	\$ 1,274	\$ 3,021	\$ 234	\$ 6	\$ 3,261	1,924,105	1,623	7,735	506	-	1,625	30,363,637	7,600	45,106	
2037	\$ 1,771	\$ 154	\$ 1,474	\$ 3,400	\$ 117	\$ 3	\$ 3,520	933,537	837	2,514	188	-	530	15,654,334	18,965	46,080	
2038	\$ 1,749	\$ 171	\$ 1,483	\$ 3,404	\$ 143	\$ 4	\$ 3,551	1,100,925	972	4,301	289	-	914	18,188,992	17,044	47,142	
2039	\$ 1,775	\$ 190	\$ 1,461	\$ 3,425	\$ 170	\$ 5	\$ 3,600	1,267,146	1,105	5,618	386	-	1,260	20,683,138	16,457	48,169	
2040	\$ 1,826	\$ 191	\$ 1,440	\$ 3,456	\$ 185	\$ 5	\$ 3,646	1,333,855	1,098	7,076	461	-	1,438	20,547,850	14,829	49,134	
2041	\$ 1,929	\$ 215	\$ 1,399	\$ 3,543	\$ 175	\$ 4	\$ 3,721	1,215,383	844	4,631	303	-	1,014	17,538,732	13,642	49,982	
2042	\$ 2,175	\$ 241	\$ 1,269	\$ 3,685	\$ 164	\$ 3	\$ 3,852	1,103,413	652	2,462	205	-	746	15,260,257	12,525	50,856	
2043	\$ 2,243	\$ 258	\$ 1,250	\$ 3,751	\$ 141	\$ 2	\$ 3,894	922,800	472	2,608	187	-	575	12,615,902	12,938	50,342	
2044	\$ 2,295	\$ 326	\$ 1,188	\$ 3,809	\$ 148	\$ 2	\$ 3,959	934,097	412	3,628	256	-	880	12,838,902	10,965	51,177	
2045	\$ 2,371	\$ 399	\$ 1,161	\$ 3,930	\$ 144	\$ 2	\$ 4,076	884,092	327	6,028	388	-	1,358	12,246,151	9,770	51,941	
2046	\$ 2,466	\$ 508	\$ 1,074	\$ 4,048	\$ 142	\$ 1	\$ 4,191	843,868	252	7,534	491	-	1,810	11,811,957	7,235	52,777	
2047	\$ 2,588	\$ 565	\$ 1,050	\$ 4,203	\$ 114	\$ 1	\$ 4,318	654,853	147	10,934	677	-	2,457	9,179,855	6,596	53,637	
2048	\$ 2,647	\$ 670	\$ 1,039	\$ 4,357	\$ 87	\$ 0	\$ 4,445	486,403	73	11,454	719	-	2,666	6,856,734	6,003	54,542	
2049	\$ 2,747	\$ 749	\$ 1,034	\$ 4,531	\$ 47	\$ 0	\$ 4,578	253,857	19	10,930	666	-	2,397	3,614,936	5,599	55,268	
2050	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
2051	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
2052	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
2053	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
2054	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
2055	\$ 3,111	\$ 758	\$ 953	\$ 4,822	\$ -	\$ -	\$ 4,822	-	-	17,834	1,092	-	4,070	0	5,163	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 21,790	\$ 4,881	\$ 15,698	\$ 42,369	\$ 6,283	\$ 56	\$ 48,708	69,345,169	14,993	39,237	25,175	0.23	5,042	<< 2023-2030 sum			
2023-2055								92,949,651	32,206	262,260	39,314	0.23	55,389	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Year	Portfolio: [REDACTED]							Emissions								Native Load	
	Capital +			Cost of												Forecast	
	Other	O&M	TOTAL	Cost of	Methane	TOTAL									Natural Gas	Energy	
	Costs	Costs	PVRR	CO2 Tons	Tons	PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Burn (MMBtu)	Curtailment (GWh)			
(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,806	1,961	6,487	6,018	0.06	400	36,693,937	761	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,227	2,508	6,395	5,562	0.05	394	46,931,426	624	35,028	
2026	\$ 946	\$ 340	\$ 759	\$ 2,044	\$ 632	\$ 5	\$ 2,681	7,339,870	2,334	2,439	2,242	0.02	309	43,679,122	3,669	34,760	
2027	\$ 989	\$ 249	\$ 1,215	\$ 2,454	\$ 482	\$ 3	\$ 2,939	5,404,862	1,272	2,929	1,927	0.02	390	23,798,794	5,159	35,507	
2028	\$ 966	\$ 226	\$ 1,332	\$ 2,524	\$ 443	\$ 3	\$ 2,971	4,800,375	1,311	5,823	1,718	0.01	931	24,530,151	5,720	36,409	
2029	\$ 1,033	\$ 226	\$ 1,314	\$ 2,574	\$ 304	\$ 4	\$ 2,881	3,177,321	1,568	8,757	996	0.01	1,672	29,341,093	5,881	37,260	
2030	\$ 1,070	\$ 238	\$ 1,258	\$ 2,566	\$ 331	\$ 5	\$ 2,902	3,348,799	1,711	11,510	1,151	0.01	2,228	32,012,163	5,474	38,334	
2031	\$ 1,214	\$ 206	\$ 1,190	\$ 2,610	\$ 191	\$ 5	\$ 2,806	1,866,737	1,608	7,584	405	-	1,405	30,090,602	6,912	39,475	
2032	\$ 1,225	\$ 222	\$ 1,132	\$ 2,579	\$ 215	\$ 5	\$ 2,799	2,030,818	1,764	11,215	566	-	1,826	33,009,969	6,433	40,880	
2033	\$ 1,287	\$ 212	\$ 1,090	\$ 2,590	\$ 203	\$ 5	\$ 2,798	1,848,254	1,608	9,687	521	-	1,702	30,091,708	7,994	42,045	
2034	\$ 1,366	\$ 211	\$ 1,048	\$ 2,625	\$ 203	\$ 5	\$ 2,834	1,790,677	1,543	6,408	324	-	1,085	28,872,358	8,228	43,121	
2035	\$ 1,424	\$ 213	\$ 1,055	\$ 2,693	\$ 206	\$ 5	\$ 2,904	1,748,785	1,513	9,111	450	-	1,385	28,314,396	8,527	44,105	
2036	\$ 1,417	\$ 222	\$ 1,225	\$ 2,865	\$ 223	\$ 6	\$ 3,093	1,831,112	1,557	9,659	530	-	1,711	29,135,991	7,928	45,106	
2037	\$ 1,678	\$ 152	\$ 1,511	\$ 3,341	\$ 113	\$ 3	\$ 3,457	899,615	818	4,557	234	-	760	15,300,331	19,485	46,080	
2038	\$ 1,653	\$ 169	\$ 1,589	\$ 3,411	\$ 138	\$ 4	\$ 3,553	1,063,910	946	5,657	299	-	997	17,697,256	17,553	47,142	
2039	\$ 1,677	\$ 187	\$ 1,592	\$ 3,457	\$ 166	\$ 4	\$ 3,627	1,233,086	1,083	8,323	467	-	1,583	20,267,531	16,913	48,169	
2040	\$ 1,730	\$ 187	\$ 1,566	\$ 3,483	\$ 179	\$ 5	\$ 3,667	1,291,065	1,068	9,864	571	-	1,857	19,985,675	15,266	49,134	
2041	\$ 1,829	\$ 210	\$ 1,522	\$ 3,561	\$ 168	\$ 4	\$ 3,732	1,167,118	812	7,185	380	-	1,331	16,882,436	14,056	49,982	
2042	\$ 2,074	\$ 232	\$ 1,389	\$ 3,694	\$ 156	\$ 3	\$ 3,853	1,050,881	619	4,373	227	-	793	14,480,396	12,885	50,856	
2043	\$ 2,131	\$ 248	\$ 1,368	\$ 3,747	\$ 135	\$ 2	\$ 3,884	879,102	447	3,890	209	-	760	11,956,829	13,306	50,342	
2044	\$ 2,193	\$ 316	\$ 1,304	\$ 3,813	\$ 142	\$ 2	\$ 3,957	896,928	395	6,229	307	-	1,003	12,333,606	11,339	51,177	
2045	\$ 2,267	\$ 387	\$ 1,274	\$ 3,929	\$ 139	\$ 2	\$ 4,070	851,599	316	8,357	432	-	1,482	11,819,941	10,101	51,941	
2046	\$ 2,359	\$ 491	\$ 1,193	\$ 4,043	\$ 137	\$ 1	\$ 4,181	812,421	243	10,750	569	-	1,992	11,363,937	7,555	52,777	
2047	\$ 2,467	\$ 543	\$ 1,169	\$ 4,178	\$ 109	\$ 1	\$ 4,288	627,533	140	14,666	767	-	2,626	8,759,564	6,892	53,637	
2048	\$ 2,514	\$ 641	\$ 1,158	\$ 4,313	\$ 84	\$ 0	\$ 4,397	464,929	70	16,415	876	-	3,067	6,519,177	6,267	54,542	
2049	\$ 2,628	\$ 715	\$ 1,153	\$ 4,496	\$ 45	\$ 0	\$ 4,542	243,079	18	13,523	694	-	2,352	3,437,038	5,872	55,268	
2050	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
2051	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
2052	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
2053	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
2054	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
2055	\$ 2,984	\$ 724	\$ 1,073	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,443	1,274	-	4,304	0	5,428	56,532	
			A	B	C	A + B + C											
NPV (\$M) 2023-2055	\$ 20,732	\$ 4,779	\$ 16,377	\$ 41,888	\$ 6,210	\$ 55	\$ 48,153	69,043,631	14,796	50,940	25,656	0.23	6,728	<< 2023-2030 sum			
								91,641,280	31,364	365,049	42,124	0.23	62,272	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 B Hydrogen Fuel Cell (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy Forecast (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,311	2,132	6,601	6,041	0.06	405	39,888,430	559	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,847	1,961	6,487	6,018	0.06	400	36,693,943	765	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,253	2,508	6,395	5,562	0.05	394	46,931,771	624	35,028	
2026	\$ 947	\$ 340	\$ 772	\$ 2,059	\$ 632	\$ 5	\$ 2,696	7,340,303	2,341	2,439	2,240	0.02	310	43,809,829	3,659	34,760	
2027	\$ 994	\$ 248	\$ 1,210	\$ 2,452	\$ 480	\$ 3	\$ 2,936	5,386,051	1,256	2,553	1,914	0.02	378	23,510,015	5,113	35,507	
2028	\$ 971	\$ 224	\$ 1,325	\$ 2,520	\$ 441	\$ 3	\$ 2,965	4,780,730	1,293	5,354	1,696	0.01	866	24,199,751	5,646	36,409	
2029	\$ 1,038	\$ 224	\$ 1,307	\$ 2,569	\$ 302	\$ 4	\$ 2,875	3,155,936	1,548	7,813	950	0.01	1,542	28,970,252	5,809	37,260	
2030	\$ 1,074	\$ 237	\$ 1,251	\$ 2,562	\$ 329	\$ 5	\$ 2,896	3,326,599	1,691	10,593	1,106	0.01	2,112	31,634,635	5,393	38,334	
2031	\$ 1,219	\$ 204	\$ 1,183	\$ 2,607	\$ 189	\$ 5	\$ 2,800	1,847,245	1,590	7,086	379	-	1,326	29,750,692	6,856	39,475	
2032	\$ 1,230	\$ 220	\$ 1,125	\$ 2,575	\$ 213	\$ 5	\$ 2,794	2,011,096	1,746	10,707	558	-	1,868	32,665,086	6,372	40,880	
2033	\$ 1,292	\$ 211	\$ 1,084	\$ 2,587	\$ 201	\$ 5	\$ 2,793	1,829,542	1,591	9,653	508	-	1,626	29,778,634	7,935	42,045	
2034	\$ 1,371	\$ 210	\$ 1,042	\$ 2,623	\$ 202	\$ 5	\$ 2,830	1,774,375	1,528	5,506	296	-	1,065	28,597,864	8,175	43,121	
2035	\$ 1,430	\$ 212	\$ 1,049	\$ 2,691	\$ 204	\$ 5	\$ 2,899	1,731,710	1,497	7,680	420	-	1,464	28,017,535	8,465	44,105	
2036	\$ 1,423	\$ 220	\$ 1,220	\$ 2,863	\$ 221	\$ 6	\$ 3,089	1,813,903	1,541	9,134	509	-	1,657	28,828,252	7,856	45,106	
2037	\$ 1,683	\$ 151	\$ 1,506	\$ 3,340	\$ 111	\$ 3	\$ 3,454	885,214	804	3,970	210	-	712	15,049,013	19,413	46,080	
2038	\$ 1,659	\$ 167	\$ 1,583	\$ 3,409	\$ 136	\$ 4	\$ 3,549	1,048,118	932	5,313	286	-	971	17,444,362	17,505	47,142	
2039	\$ 1,683	\$ 186	\$ 1,587	\$ 3,455	\$ 164	\$ 4	\$ 3,623	1,217,142	1,069	7,934	446	-	1,520	20,007,985	16,872	48,169	
2040	\$ 1,735	\$ 186	\$ 1,560	\$ 3,481	\$ 177	\$ 4	\$ 3,663	1,275,162	1,053	9,882	556	-	1,748	19,713,805	15,210	49,134	
2041	\$ 1,835	\$ 208	\$ 1,517	\$ 3,560	\$ 166	\$ 4	\$ 3,729	1,153,127	801	7,115	370	-	1,270	16,644,997	13,986	49,982	
2042	\$ 2,080	\$ 230	\$ 1,384	\$ 3,693	\$ 154	\$ 3	\$ 3,850	1,039,292	611	3,985	209	-	746	14,284,171	12,833	50,856	
2043	\$ 2,138	\$ 245	\$ 1,363	\$ 3,746	\$ 133	\$ 2	\$ 3,881	868,502	440	3,739	202	-	744	11,774,468	13,249	50,342	
2044	\$ 2,199	\$ 313	\$ 1,299	\$ 3,812	\$ 141	\$ 2	\$ 3,954	888,050	391	6,196	314	-	1,060	12,181,281	11,281	51,177	
2045	\$ 2,273	\$ 384	\$ 1,270	\$ 3,926	\$ 138	\$ 2	\$ 4,066	843,925	312	8,523	432	-	1,444	11,685,471	10,036	51,941	
2046	\$ 2,364	\$ 487	\$ 1,180	\$ 4,031	\$ 136	\$ 1	\$ 4,169	806,525	241	11,202	574	-	1,935	11,260,483	7,496	52,777	
2047	\$ 2,473	\$ 538	\$ 1,153	\$ 4,165	\$ 109	\$ 1	\$ 4,274	623,260	139	14,793	786	-	2,735	8,684,408	6,834	53,637	
2048	\$ 2,521	\$ 637	\$ 1,142	\$ 4,300	\$ 83	\$ 0	\$ 4,384	462,642	69	17,156	889	-	3,013	6,478,635	6,261	54,542	
2049	\$ 2,636	\$ 711	\$ 1,136	\$ 4,483	\$ 45	\$ 0	\$ 4,528	241,801	18	14,107	726	-	2,459	3,414,454	5,813	55,268	
2050	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
2051	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
2052	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
2053	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
2054	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
2055	\$ 2,992	\$ 721	\$ 1,056	\$ 4,769	\$ -	\$ -	\$ 4,769	-	-	24,647	1,289	-	4,375	0	5,388	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 20,793	\$ 4,757	\$ 16,304	\$ 41,854	\$ 6,193	\$ 54	\$ 48,101	68,962,029	14,730	48,235	25,528	0.23	6,406	<< 2023-2030 sum			
								91,322,663	31,103	359,798	41,931	0.23	62,021	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Year	Portfolio: [REDACTED]								Emissions							Native Load	
	Capital +				Cost of											Forecast	
	Other		O&M		TOTAL	Cost of		Methane									
	Costs	Fuel Costs	Costs	PVRR	CO2	Tons	Tons	Tons	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Energy (GWh)
(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)										
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,087	2,132	6,601	6,041	0.06	405	39,888,453	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,130	1,961	6,487	6,018	0.06	400	36,693,949	763	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,272	2,508	6,395	5,562	0.05	394	46,931,582	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,631	2,346	2,440	2,240	0.02	310	43,903,495	3,676	34,760	
2027	\$ 1,008	\$ 243	\$ 1,210	\$ 2,462	\$ 475	\$ 3	\$ 2,940	5,327,941	1,204	2,338	1,894	0.02	292	22,537,522	4,840	35,507	
2028	\$ 978	\$ 223	\$ 1,322	\$ 2,522	\$ 442	\$ 3	\$ 2,967	4,783,731	1,275	4,522	1,674	0.01	808	23,856,352	5,242	36,409	
2029	\$ 1,039	\$ 223	\$ 1,304	\$ 2,566	\$ 301	\$ 4	\$ 2,871	3,150,499	1,533	7,041	888	0.01	1,287	28,689,067	5,203	37,260	
2030	\$ 1,076	\$ 236	\$ 1,249	\$ 2,560	\$ 329	\$ 5	\$ 2,894	3,323,432	1,679	8,790	993	0.01	1,714	31,420,297	4,834	38,334	
2031	\$ 1,221	\$ 204	\$ 1,184	\$ 2,609	\$ 190	\$ 5	\$ 2,804	1,858,092	1,591	6,184	321	-	1,114	29,779,918	6,342	39,475	
2032	\$ 1,232	\$ 221	\$ 1,126	\$ 2,578	\$ 216	\$ 5	\$ 2,799	2,031,374	1,755	8,780	463	-	1,583	32,837,907	5,896	40,880	
2033	\$ 1,293	\$ 212	\$ 1,085	\$ 2,590	\$ 203	\$ 5	\$ 2,798	1,851,454	1,607	7,892	397	-	1,252	30,080,027	7,457	42,045	
2034	\$ 1,373	\$ 210	\$ 1,043	\$ 2,626	\$ 204	\$ 5	\$ 2,835	1,794,582	1,539	4,464	216	-	710	28,790,776	7,706	43,121	
2035	\$ 1,430	\$ 212	\$ 1,050	\$ 2,692	\$ 206	\$ 5	\$ 2,903	1,749,658	1,502	7,282	356	-	1,093	28,112,825	7,941	44,105	
2036	\$ 1,425	\$ 221	\$ 1,220	\$ 2,866	\$ 223	\$ 6	\$ 3,095	1,834,331	1,550	7,424	422	-	1,406	29,001,342	7,396	45,106	
2037	\$ 1,680	\$ 150	\$ 1,506	\$ 3,336	\$ 111	\$ 3	\$ 3,450	880,085	794	2,958	172	-	639	14,855,291	18,891	46,080	
2038	\$ 1,655	\$ 167	\$ 1,584	\$ 3,406	\$ 137	\$ 4	\$ 3,546	1,049,932	931	4,677	248	-	824	17,424,561	16,951	47,142	
2039	\$ 1,681	\$ 185	\$ 1,587	\$ 3,453	\$ 164	\$ 4	\$ 3,621	1,217,484	1,065	6,092	352	-	1,273	19,934,233	16,308	48,169	
2040	\$ 1,733	\$ 186	\$ 1,561	\$ 3,479	\$ 178	\$ 4	\$ 3,662	1,280,750	1,055	9,815	539	-	1,748	19,738,480	14,678	49,134	
2041	\$ 1,836	\$ 207	\$ 1,517	\$ 3,560	\$ 166	\$ 4	\$ 3,730	1,157,449	799	6,112	331	-	1,193	16,613,729	13,472	49,982	
2042	\$ 2,081	\$ 230	\$ 1,384	\$ 3,696	\$ 156	\$ 3	\$ 3,854	1,048,940	614	3,329	166	-	569	14,370,715	12,351	50,856	
2043	\$ 2,139	\$ 246	\$ 1,363	\$ 3,748	\$ 134	\$ 2	\$ 3,884	875,774	442	3,259	168	-	595	11,822,310	12,763	50,342	
2044	\$ 2,202	\$ 314	\$ 1,299	\$ 3,815	\$ 142	\$ 2	\$ 3,959	896,662	393	6,068	302	-	995	12,245,557	10,827	51,177	
2045	\$ 2,272	\$ 385	\$ 1,270	\$ 3,928	\$ 139	\$ 2	\$ 4,068	852,059	314	7,553	403	-	1,438	11,757,005	9,600	51,941	
2046	\$ 2,366	\$ 492	\$ 1,180	\$ 4,038	\$ 138	\$ 1	\$ 4,177	817,801	243	10,068	534	-	1,884	11,387,348	7,104	52,777	
2047	\$ 2,471	\$ 545	\$ 1,153	\$ 4,169	\$ 110	\$ 1	\$ 4,280	632,739	141	14,739	764	-	2,594	8,805,703	6,449	53,637	
2048	\$ 2,520	\$ 648	\$ 1,142	\$ 4,311	\$ 85	\$ 0	\$ 4,396	471,199	71	16,683	875	-	3,008	6,603,891	5,846	54,542	
2049	\$ 2,634	\$ 722	\$ 1,136	\$ 4,492	\$ 46	\$ 0	\$ 4,538	245,943	19	14,651	732	-	2,393	3,473,346	5,460	55,268	
2050	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
2051	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
2052	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
2053	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
2054	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
2055	\$ 2,989	\$ 736	\$ 1,056	\$ 4,781	\$ -	\$ -	\$ 4,781	-	-	24,223	1,284	-	4,429	0	5,060	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 20,810	\$ 4,775	\$ 16,301	\$ 41,886	\$ 6,198	\$ 54	\$ 48,138	68,902,722	14,638	44,615	25,309	0.23	5,610	<< 2023-2030 sum			
2023-2055								91,449,029	31,063	337,986	40,774	0.23	58,492	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 D Geothermal (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 Tons (\$M)	Methane Tons (\$M)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GWh)	Native Load Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,372	2,132	6,601	6,041	0.06	405	39,888,444	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,770	1,961	6,487	6,018	0.06	400	36,693,931	764	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,652	2,508	6,395	5,562	0.05	394	46,931,609	624	35,028	
2026	\$ 945	\$ 342	\$ 772	\$ 2,059	\$ 633	\$ 6	\$ 2,698	7,359,247	2,370	2,452	2,246	0.02	310	44,356,915	3,729	34,760	
2027	\$ 978	\$ 253	\$ 1,212	\$ 2,443	\$ 485	\$ 3	\$ 2,931	5,442,248	1,322	4,134	1,994	0.02	603	24,745,902	5,292	35,507	
2028	\$ 966	\$ 228	\$ 1,322	\$ 2,516	\$ 448	\$ 3	\$ 2,967	4,847,345	1,342	7,057	1,791	0.01	1,163	25,118,266	5,551	36,409	
2029	\$ 1,039	\$ 226	\$ 1,303	\$ 2,568	\$ 305	\$ 4	\$ 2,877	3,186,534	1,568	7,918	949	0.01	1,522	29,336,219	5,482	37,260	
2030	\$ 1,076	\$ 239	\$ 1,248	\$ 2,563	\$ 333	\$ 5	\$ 2,900	3,362,578	1,717	10,615	1,093	0.01	2,016	32,127,882	5,084	38,334	
2031	\$ 1,221	\$ 207	\$ 1,183	\$ 2,611	\$ 194	\$ 5	\$ 2,809	1,890,800	1,623	6,774	371	-	1,332	30,368,295	6,566	39,475	
2032	\$ 1,232	\$ 223	\$ 1,125	\$ 2,580	\$ 219	\$ 5	\$ 2,805	2,063,693	1,787	10,002	535	-	1,850	33,445,276	6,101	40,880	
2033	\$ 1,293	\$ 214	\$ 1,084	\$ 2,592	\$ 206	\$ 5	\$ 2,803	1,878,671	1,631	8,474	479	-	1,669	30,526,316	7,675	42,045	
2034	\$ 1,373	\$ 213	\$ 1,042	\$ 2,628	\$ 207	\$ 5	\$ 2,840	1,821,135	1,563	5,832	301	-	1,038	29,255,939	7,917	43,121	
2035	\$ 1,431	\$ 215	\$ 1,049	\$ 2,695	\$ 209	\$ 5	\$ 2,909	1,776,575	1,530	7,584	415	-	1,454	28,623,866	8,195	44,105	
2036	\$ 1,425	\$ 224	\$ 1,220	\$ 2,868	\$ 227	\$ 6	\$ 3,100	1,862,359	1,577	8,849	501	-	1,653	29,513,969	7,597	45,106	
2037	\$ 1,682	\$ 152	\$ 1,506	\$ 3,340	\$ 114	\$ 3	\$ 3,456	905,327	818	3,726	206	-	729	15,307,420	19,117	46,080	
2038	\$ 1,658	\$ 169	\$ 1,583	\$ 3,410	\$ 140	\$ 4	\$ 3,554	1,075,754	953	5,717	295	-	955	17,836,864	17,179	47,142	
2039	\$ 1,683	\$ 188	\$ 1,587	\$ 3,457	\$ 167	\$ 4	\$ 3,629	1,244,650	1,090	8,183	442	-	1,448	20,392,777	16,529	48,169	
2040	\$ 1,735	\$ 188	\$ 1,560	\$ 3,484	\$ 182	\$ 5	\$ 3,670	1,307,280	1,078	9,426	551	-	1,828	20,173,691	14,886	49,134	
2041	\$ 1,836	\$ 211	\$ 1,516	\$ 3,563	\$ 170	\$ 4	\$ 3,737	1,182,792	821	6,787	370	-	1,341	17,060,875	13,692	49,982	
2042	\$ 2,081	\$ 234	\$ 1,384	\$ 3,700	\$ 159	\$ 3	\$ 3,861	1,069,347	629	4,084	212	-	749	14,722,857	12,544	50,856	
2043	\$ 2,139	\$ 250	\$ 1,363	\$ 3,753	\$ 137	\$ 2	\$ 3,892	893,803	454	4,007	203	-	694	12,128,535	12,960	50,342	
2044	\$ 2,201	\$ 320	\$ 1,300	\$ 3,821	\$ 144	\$ 2	\$ 3,967	912,106	402	6,232	336	-	1,210	12,523,689	11,008	51,177	
2045	\$ 2,274	\$ 392	\$ 1,270	\$ 3,936	\$ 141	\$ 2	\$ 4,079	865,318	321	8,335	441	-	1,553	11,996,565	9,787	51,941	
2046	\$ 2,369	\$ 499	\$ 1,180	\$ 4,048	\$ 140	\$ 1	\$ 4,189	827,537	247	11,094	574	-	1,961	11,570,327	7,277	52,777	
2047	\$ 2,478	\$ 552	\$ 1,153	\$ 4,184	\$ 111	\$ 1	\$ 4,296	639,785	143	15,717	821	-	2,804	8,935,330	6,621	53,637	
2048	\$ 2,527	\$ 654	\$ 1,142	\$ 4,324	\$ 85	\$ 0	\$ 4,409	475,225	71	17,546	925	-	3,193	6,675,659	5,995	54,542	
2049	\$ 2,640	\$ 730	\$ 1,136	\$ 4,506	\$ 46	\$ 0	\$ 4,552	248,098	19	14,939	774	-	2,638	3,513,718	5,605	55,268	
2050	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
2051	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
2052	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
2053	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
2054	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
2055	\$ 3,006	\$ 741	\$ 1,056	\$ 4,803	\$ -	\$ -	\$ 4,803	-	-	25,286	1,326	-	4,516	0	5,193	56,532	
			A	B	C	A + B + C											
NPV (\$M) 2023-2055	\$ 20,800	\$ 4,822	\$ 16,298	\$ 41,921	\$ 6,237	\$ 55	\$ 48,213	69,170,745	14,920	51,659	25,695	0.23	6,814	<< 2023-2030 sum			
								92,111,001	31,677	366,683	42,402	0.23	64,010	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 E Biomass (SCC)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)	Burn (MMBtu)								Curtailment (GWh)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,368	2,132	6,601	6,041	0.06	405	39,888,450	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,767	1,961	6,487	6,018	0.06	400	36,693,925	765	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,360	2,508	6,395	5,562	0.05	394	46,931,396	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,630	2,346	2,440	2,240	0.02	310	43,903,244	3,675	34,760	
2027	\$ 1,005	\$ 250	\$ 1,193	\$ 2,448	\$ 482	\$ 3	\$ 2,933	5,408,668	1,278	2,400	1,899	0.02	298	23,918,314	5,164	35,507	
2028	\$ 992	\$ 228	\$ 1,290	\$ 2,510	\$ 448	\$ 3	\$ 2,961	4,851,394	1,344	3,972	1,644	0.01	739	25,144,997	5,556	36,409	
2029	\$ 1,053	\$ 229	\$ 1,272	\$ 2,555	\$ 309	\$ 4	\$ 2,868	3,232,403	1,610	5,653	848	0.01	1,213	30,119,317	5,573	37,260	
2030	\$ 1,089	\$ 242	\$ 1,217	\$ 2,548	\$ 337	\$ 5	\$ 2,890	3,406,883	1,756	6,955	939	0.01	1,609	32,867,912	5,166	38,334	
2031	\$ 1,234	\$ 210	\$ 1,152	\$ 2,596	\$ 197	\$ 5	\$ 2,798	1,927,276	1,656	5,011	301	-	1,164	30,982,391	6,606	39,475	
2032	\$ 1,245	\$ 226	\$ 1,094	\$ 2,565	\$ 222	\$ 6	\$ 2,793	2,095,637	1,815	7,029	431	-	1,675	33,959,231	6,153	40,880	
2033	\$ 1,306	\$ 217	\$ 1,054	\$ 2,577	\$ 210	\$ 5	\$ 2,792	1,909,599	1,659	6,391	394	-	1,450	31,041,318	7,716	42,045	
2034	\$ 1,386	\$ 215	\$ 1,013	\$ 2,614	\$ 210	\$ 5	\$ 2,829	1,850,810	1,589	5,181	287	-	1,057	29,742,357	7,950	43,121	
2035	\$ 1,443	\$ 217	\$ 1,021	\$ 2,681	\$ 212	\$ 5	\$ 2,899	1,804,207	1,553	6,825	415	-	1,595	29,060,641	8,247	44,105	
2036	\$ 1,437	\$ 226	\$ 1,192	\$ 2,855	\$ 230	\$ 6	\$ 3,091	1,891,490	1,603	6,690	430	-	1,545	30,000,334	7,643	45,106	
2037	\$ 1,695	\$ 154	\$ 1,478	\$ 3,327	\$ 117	\$ 3	\$ 3,446	926,431	835	3,388	202	-	774	15,622,347	19,174	46,080	
2038	\$ 1,669	\$ 171	\$ 1,555	\$ 3,396	\$ 143	\$ 4	\$ 3,542	1,098,628	973	4,166	263	-	1,002	18,209,665	17,111	47,142	
2039	\$ 1,695	\$ 190	\$ 1,559	\$ 3,444	\$ 171	\$ 5	\$ 3,619	1,268,026	1,110	6,186	378	-	1,375	20,768,567	16,551	48,169	
2040	\$ 1,746	\$ 191	\$ 1,534	\$ 3,471	\$ 185	\$ 5	\$ 3,661	1,331,395	1,100	7,232	472	-	1,639	20,577,818	14,932	49,134	
2041	\$ 1,849	\$ 214	\$ 1,491	\$ 3,554	\$ 173	\$ 4	\$ 3,731	1,207,904	839	4,480	268	-	1,078	17,454,921	13,740	49,982	
2042	\$ 2,094	\$ 239	\$ 1,360	\$ 3,692	\$ 162	\$ 3	\$ 3,857	1,091,796	645	3,283	180	-	685	15,093,153	12,585	50,856	
2043	\$ 2,152	\$ 256	\$ 1,339	\$ 3,746	\$ 140	\$ 2	\$ 3,889	913,821	466	2,724	153	-	599	12,466,995	13,006	50,342	
2044	\$ 2,213	\$ 326	\$ 1,275	\$ 3,814	\$ 147	\$ 2	\$ 3,963	929,614	411	4,234	253	-	1,026	12,816,395	11,062	51,177	
2045	\$ 2,290	\$ 399	\$ 1,246	\$ 3,935	\$ 144	\$ 2	\$ 4,080	880,841	327	6,354	375	-	1,481	12,253,302	9,816	51,941	
2046	\$ 2,379	\$ 507	\$ 1,157	\$ 4,042	\$ 142	\$ 1	\$ 4,185	839,849	252	7,886	470	-	1,869	11,778,345	7,322	52,777	
2047	\$ 2,496	\$ 560	\$ 1,130	\$ 4,186	\$ 113	\$ 1	\$ 4,300	648,765	146	10,643	613	-	2,341	9,087,864	6,662	53,637	
2048	\$ 2,552	\$ 663	\$ 1,119	\$ 4,333	\$ 86	\$ 0	\$ 4,420	480,818	72	11,186	682	-	2,741	6,770,595	6,061	54,542	
2049	\$ 2,664	\$ 739	\$ 1,112	\$ 4,515	\$ 47	\$ 0	\$ 4,562	251,009	19	10,403	606	-	2,355	3,563,969	5,652	55,268	
2050	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
2051	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
2052	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
2053	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
2054	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
2055	\$ 3,023	\$ 749	\$ 1,032	\$ 4,804	\$ -	\$ -	\$ 4,804	-	-	16,841	984	-	3,771	0	5,225	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 20,971	\$ 4,856	\$ 16,004	\$ 41,831	\$ 6,261	\$ 56	\$ 48,147	69,216,473	14,934	40,903	25,192	0.23	5,367	<< 2023-2030 sum			
2023-2055								92,564,388	32,005	261,240	38,269	0.23	55,443	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 0 - Reference Case Plan (SCC) - with Prospective New Load										Emissions						Native Load	
Year	Capital +			Cost of			Methane Tons	TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	Cost of CO2 (\$M)	Cost of Methane (\$M)											
2023	\$ 760	\$ 481	\$ 735	\$ 1,975	\$ 1,177	\$ 4	\$ 3,156	15,212,799	2,085	6,574	6,025	0.06	402	39,011,966	850	33,906	
2024	\$ 831	\$ 440	\$ 745	\$ 2,016	\$ 1,212	\$ 4	\$ 3,232	15,120,305	1,961	6,487	6,018	0.06	400	36,693,916	744	34,410	
2025	\$ 863	\$ 435	\$ 764	\$ 2,062	\$ 1,235	\$ 5	\$ 3,303	14,866,242	2,419	6,483	5,709	0.05	416	45,258,744	554	35,028	
2026	\$ 931	\$ 336	\$ 762	\$ 2,028	\$ 922	\$ 4	\$ 2,954	10,706,053	1,576	3,646	4,470	0.05	330	29,497,126	4,050	35,826	
2027	\$ 1,010	\$ 261	\$ 1,188	\$ 2,458	\$ 764	\$ 2	\$ 3,224	8,566,025	788	3,075	3,820	0.04	253	14,739,859	5,423	37,056	
2028	\$ 1,011	\$ 237	\$ 1,239	\$ 2,487	\$ 753	\$ 2	\$ 3,242	8,155,034	766	2,994	3,560	0.04	284	14,334,313	5,455	37,959	
2029	\$ 1,075	\$ 236	\$ 1,316	\$ 2,627	\$ 655	\$ 2	\$ 3,285	6,852,384	879	3,402	2,845	0.04	401	16,443,595	5,404	38,810	
2030	\$ 1,111	\$ 249	\$ 1,259	\$ 2,619	\$ 713	\$ 3	\$ 3,335	7,207,754	927	3,604	2,963	0.04	453	17,343,618	5,048	39,883	
2031	\$ 1,181	\$ 243	\$ 1,269	\$ 2,692	\$ 701	\$ 3	\$ 3,396	6,840,812	883	3,127	2,815	0.03	421	16,519,680	5,968	41,025	
2032	\$ 1,213	\$ 254	\$ 1,212	\$ 2,679	\$ 757	\$ 3	\$ 3,439	7,137,634	927	2,382	2,855	0.04	263	17,346,255	5,693	42,430	
2033	\$ 1,259	\$ 250	\$ 1,169	\$ 2,678	\$ 737	\$ 3	\$ 3,418	6,712,126	876	2,843	2,749	0.03	409	16,397,695	6,991	43,595	
2034	\$ 1,325	\$ 259	\$ 1,129	\$ 2,713	\$ 792	\$ 3	\$ 3,508	6,970,435	848	2,834	2,843	0.04	369	15,873,556	7,012	44,671	
2035	\$ 1,378	\$ 260	\$ 1,136	\$ 2,775	\$ 781	\$ 3	\$ 3,559	6,645,811	873	3,518	2,734	0.03	592	16,341,795	7,461	45,654	
2036	\$ 1,377	\$ 274	\$ 1,308	\$ 2,959	\$ 853	\$ 3	\$ 3,816	7,016,079	877	4,862	2,923	0.04	697	16,411,568	6,694	46,656	
2037	\$ 1,654	\$ 201	\$ 1,594	\$ 3,449	\$ 640	\$ 1	\$ 4,090	5,088,858	320	1,856	2,225	0.03	220	5,993,696	19,993	47,630	
2038	\$ 1,636	\$ 219	\$ 1,673	\$ 3,528	\$ 717	\$ 1	\$ 4,246	5,508,982	378	2,084	2,371	0.03	217	7,079,749	18,222	48,691	
2039	\$ 1,667	\$ 234	\$ 1,676	\$ 3,577	\$ 748	\$ 2	\$ 4,326	5,559,142	487	2,963	2,416	0.03	444	9,113,552	17,347	49,719	
2040	\$ 1,716	\$ 258	\$ 1,652	\$ 3,625	\$ 822	\$ 3	\$ 4,449	5,910,929	590	2,461	2,463	0.03	318	11,032,124	15,984	50,684	
2041	\$ 1,814	\$ 265	\$ 1,631	\$ 3,710	\$ 823	\$ 2	\$ 4,535	5,731,600	423	2,306	2,432	0.03	306	8,791,765	14,520	51,532	
2042	\$ 2,077	\$ 270	\$ 1,501	\$ 3,848	\$ 548	\$ 2	\$ 4,398	3,692,104	475	3,485	1,201	0.02	624	11,114,188	12,419	52,405	
2043	\$ 2,137	\$ 281	\$ 1,446	\$ 3,864	\$ 510	\$ 2	\$ 4,376	3,328,148	350	4,571	1,173	0.01	824	9,353,190	12,699	51,891	
2044	\$ 2,194	\$ 344	\$ 1,437	\$ 3,975	\$ 578	\$ 2	\$ 4,555	3,655,274	308	5,669	1,339	0.02	985	9,598,396	10,904	52,727	
2045	\$ 2,329	\$ 462	\$ 1,343	\$ 4,134	\$ 170	\$ 2	\$ 4,306	1,040,541	389	16,226	841	-	2,839	14,576,712	8,172	53,491	
2046	\$ 2,416	\$ 534	\$ 1,252	\$ 4,203	\$ 149	\$ 1	\$ 4,353	885,610	268	15,099	787	-	2,672	12,524,036	6,937	53,261	
2047	\$ 2,539	\$ 554	\$ 1,224	\$ 4,317	\$ 111	\$ 1	\$ 4,429	636,214	144	15,386	807	-	2,755	8,968,521	7,043	53,637	
2048	\$ 2,627	\$ 619	\$ 1,225	\$ 4,472	\$ 80	\$ 0	\$ 4,552	446,565	67	15,440	812	-	2,788	6,274,051	6,802	54,542	
2049	\$ 2,710	\$ 716	\$ 1,220	\$ 4,646	\$ 45	\$ 0	\$ 4,691	242,136	18	14,589	774	-	2,701	3,440,849	5,995	55,268	
2050	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
2051	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
2052	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
2053	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
2054	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
2055	\$ 2,947	\$ 947	\$ 1,144	\$ 5,038	\$ -	\$ -	\$ 5,038	-	-	15,036	799	-	2,780	0	5,968	56,532	
			A	B	C		A + B + C										
NPV (\$M) 2023-2055	\$ 20,740	\$ 5,303	\$ 16,912	\$ 42,955	\$ 10,616	\$ 37	\$ 53,608	86,686,596	11,400	36,265	35,409	0.36	2,938	<< 2023-2030 sum			
								169,735,597	20,902	248,185	76,765	0.77	40,062	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 1 - Preferred Plan (SCC) - with Prospective New Load										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of		TOTAL PVSC (\$M)	Carbon (tons)	Emissions					Native Load Forecast			
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)			Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Energy (GW/h)	
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,958	2,132	6,601	6,041	0.06	405	39,888,419	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,942	1,961	6,487	6,018	0.06	400	36,693,949	758	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,444	2,508	6,395	5,562	0.05	394	46,931,743	624	35,028	
2026	\$ 953	\$ 364	\$ 774	\$ 2,090	\$ 667	\$ 6	\$ 2,763	7,744,509	2,632	2,565	2,335	0.02	328	49,245,311	3,480	35,826	
2027	\$ 1,014	\$ 272	\$ 1,211	\$ 2,497	\$ 517	\$ 4	\$ 3,018	5,803,121	1,530	3,350	2,004	0.02	515	28,622,667	4,548	37,056	
2028	\$ 1,014	\$ 239	\$ 1,280	\$ 2,533	\$ 469	\$ 4	\$ 3,006	5,077,570	1,466	3,658	1,664	0.01	633	27,431,763	4,627	37,959	
2029	\$ 1,088	\$ 237	\$ 1,373	\$ 2,698	\$ 323	\$ 5	\$ 3,026	3,380,818	1,706	6,453	887	0.01	1,175	31,916,240	4,621	38,810	
2030	\$ 1,123	\$ 251	\$ 1,316	\$ 2,690	\$ 353	\$ 5	\$ 3,048	3,563,991	1,867	7,248	941	0.01	1,459	34,938,493	4,226	39,883	
2031	\$ 1,268	\$ 220	\$ 1,249	\$ 2,738	\$ 215	\$ 5	\$ 2,958	2,095,047	1,782	6,009	342	-	1,028	33,338,026	5,680	41,025	
2032	\$ 1,279	\$ 238	\$ 1,191	\$ 2,708	\$ 242	\$ 6	\$ 2,956	2,285,245	1,963	7,595	456	-	1,451	36,740,858	5,275	42,430	
2033	\$ 1,340	\$ 229	\$ 1,146	\$ 2,715	\$ 229	\$ 6	\$ 2,950	2,086,306	1,797	8,030	503	-	1,781	33,625,172	6,807	43,595	
2034	\$ 1,421	\$ 228	\$ 1,103	\$ 2,752	\$ 231	\$ 6	\$ 2,988	2,029,021	1,728	7,003	422	-	1,369	32,327,932	7,059	44,671	
2035	\$ 1,477	\$ 230	\$ 1,109	\$ 2,815	\$ 233	\$ 6	\$ 3,054	1,980,427	1,689	9,721	528	-	1,509	31,599,721	7,353	45,654	
2036	\$ 1,473	\$ 239	\$ 1,278	\$ 2,990	\$ 252	\$ 6	\$ 3,249	2,073,532	1,736	9,224	580	-	1,746	32,492,077	6,733	46,656	
2037	\$ 1,720	\$ 159	\$ 1,567	\$ 3,446	\$ 126	\$ 3	\$ 3,576	1,002,334	891	4,155	258	-	739	16,665,053	17,907	47,630	
2038	\$ 1,698	\$ 179	\$ 1,646	\$ 3,524	\$ 155	\$ 4	\$ 3,683	1,195,241	1,050	6,385	366	-	1,034	19,647,036	16,051	48,691	
2039	\$ 1,724	\$ 199	\$ 1,651	\$ 3,574	\$ 185	\$ 5	\$ 3,764	1,373,028	1,193	8,136	497	-	1,648	22,328,199	15,409	49,719	
2040	\$ 1,775	\$ 200	\$ 1,625	\$ 3,600	\$ 201	\$ 5	\$ 3,806	1,443,706	1,185	10,320	625	-	1,951	22,174,064	13,830	50,684	
2041	\$ 1,882	\$ 226	\$ 1,580	\$ 3,689	\$ 188	\$ 4	\$ 3,882	1,311,319	909	7,274	421	-	1,330	18,903,967	12,634	51,532	
2042	\$ 2,129	\$ 257	\$ 1,449	\$ 3,835	\$ 178	\$ 3	\$ 4,016	1,201,658	715	4,457	275	-	848	16,726,674	11,553	52,405	
2043	\$ 2,187	\$ 276	\$ 1,427	\$ 3,890	\$ 154	\$ 2	\$ 4,047	1,005,563	517	4,851	294	-	894	13,824,303	11,960	51,891	
2044	\$ 2,250	\$ 352	\$ 1,363	\$ 3,965	\$ 162	\$ 2	\$ 4,129	1,020,794	453	7,714	423	-	1,254	14,122,974	10,078	52,727	
2045	\$ 2,322	\$ 432	\$ 1,333	\$ 4,086	\$ 158	\$ 2	\$ 4,246	965,085	360	10,022	580	-	1,934	13,480,860	8,862	53,491	
2046	\$ 2,414	\$ 500	\$ 1,241	\$ 4,156	\$ 140	\$ 1	\$ 4,298	832,603	248	10,911	615	-	2,013	11,614,162	6,917	53,261	
2047	\$ 2,518	\$ 536	\$ 1,213	\$ 4,267	\$ 108	\$ 1	\$ 4,376	621,108	138	13,425	743	-	2,424	8,635,879	6,540	53,637	
2048	\$ 2,585	\$ 635	\$ 1,215	\$ 4,434	\$ 83	\$ 0	\$ 4,517	461,583	69	15,240	833	-	2,711	6,451,627	5,930	54,542	
2049	\$ 2,689	\$ 708	\$ 1,209	\$ 4,606	\$ 45	\$ 0	\$ 4,651	241,098	18	11,310	644	-	2,156	3,398,776	5,531	55,268	
2050	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
2051	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
2052	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
2053	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
2054	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
2055	\$ 2,981	\$ 726	\$ 1,129	\$ 4,836	\$ -	\$ -	\$ 4,836	-	-	21,733	1,207	-	4,094	0	5,141	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,232	\$ 4,952	\$ 16,873	\$ 43,056	\$ 6,452	\$ 60	\$ 49,568	70,542,352	15,800	42,756	25,451	0.23	5,308	<< 2023-2030 sum			
								95,767,052	34,241	334,935	42,099	0.23	59,695	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 3 - Least Cost Plan (SCC) - with Prospective New Load										Emissions					Native Load		
Year	Capital +			TOTAL PVRR (\$M)	Cost of			TOTAL PVSC (\$M)	Carbon (tons)	Emissions				Natural Gas		Native Load Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)	Methane (tons)			NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Burn (MMBtu)	Curtailement (GWh)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,958	2,132	6,601	6,041	0.06	405	39,888,419	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,921	1,961	6,487	6,018	0.06	400	36,693,932	758	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,159	2,508	6,395	5,562	0.05	394	46,931,577	624	35,028	
2026	\$ 953	\$ 364	\$ 774	\$ 2,090	\$ 667	\$ 6	\$ 2,763	7,744,534	2,632	2,565	2,335	0.02	328	49,245,581	3,478	35,826	
2027	\$ 1,040	\$ 261	\$ 1,211	\$ 2,512	\$ 501	\$ 3	\$ 3,016	5,618,950	1,403	2,660	1,938	0.02	348	26,259,693	4,774	37,056	
2028	\$ 1,083	\$ 226	\$ 1,308	\$ 2,617	\$ 442	\$ 3	\$ 3,063	4,792,272	1,315	4,078	1,633	0.01	723	24,609,044	5,934	37,959	
2029	\$ 1,158	\$ 220	\$ 1,288	\$ 2,667	\$ 297	\$ 4	\$ 2,968	3,110,252	1,504	6,325	841	0.01	1,145	28,139,291	5,990	38,810	
2030	\$ 1,195	\$ 233	\$ 1,231	\$ 2,658	\$ 324	\$ 5	\$ 2,987	3,273,271	1,641	7,748	918	0.01	1,463	30,709,977	5,558	39,883	
2031	\$ 1,339	\$ 202	\$ 1,165	\$ 2,707	\$ 186	\$ 5	\$ 2,897	1,817,259	1,565	6,619	335	-	1,134	29,277,423	7,062	41,025	
2032	\$ 1,349	\$ 218	\$ 1,108	\$ 2,675	\$ 210	\$ 5	\$ 2,891	1,983,937	1,721	8,056	399	-	1,288	32,208,814	6,598	42,430	
2033	\$ 1,411	\$ 210	\$ 1,067	\$ 2,688	\$ 198	\$ 5	\$ 2,891	1,806,744	1,574	8,954	463	-	1,578	29,460,934	8,177	43,595	
2034	\$ 1,490	\$ 210	\$ 1,026	\$ 2,726	\$ 201	\$ 5	\$ 2,932	1,765,171	1,528	5,748	308	-	1,082	28,593,965	8,429	44,671	
2035	\$ 1,547	\$ 211	\$ 1,034	\$ 2,791	\$ 202	\$ 5	\$ 2,998	1,713,881	1,483	8,528	441	-	1,452	27,748,069	8,709	45,654	
2036	\$ 1,541	\$ 219	\$ 1,205	\$ 2,965	\$ 218	\$ 5	\$ 3,188	1,793,024	1,521	9,572	524	-	1,692	28,467,642	8,079	46,656	
2037	\$ 1,798	\$ 149	\$ 1,492	\$ 3,439	\$ 109	\$ 3	\$ 3,551	870,264	787	3,122	168	-	574	14,724,031	19,672	47,630	
2038	\$ 1,772	\$ 166	\$ 1,570	\$ 3,508	\$ 135	\$ 4	\$ 3,646	1,036,395	923	4,921	266	-	896	17,265,181	17,809	48,691	
2039	\$ 1,796	\$ 185	\$ 1,573	\$ 3,555	\$ 162	\$ 4	\$ 3,720	1,201,277	1,059	7,581	390	-	1,284	19,810,208	17,140	49,719	
2040	\$ 1,846	\$ 184	\$ 1,548	\$ 3,578	\$ 175	\$ 4	\$ 3,757	1,257,495	1,039	10,161	534	-	1,705	19,435,738	15,471	50,684	
2041	\$ 1,952	\$ 205	\$ 1,504	\$ 3,660	\$ 163	\$ 3	\$ 3,826	1,133,812	784	6,672	343	-	1,169	16,299,899	14,221	51,532	
2042	\$ 2,201	\$ 228	\$ 1,374	\$ 3,803	\$ 152	\$ 3	\$ 3,959	1,027,022	605	3,713	198	-	725	14,158,053	13,046	52,405	
2043	\$ 2,261	\$ 244	\$ 1,354	\$ 3,858	\$ 132	\$ 2	\$ 3,992	859,825	438	3,879	204	-	729	11,702,639	13,492	51,891	
2044	\$ 2,322	\$ 311	\$ 1,290	\$ 3,923	\$ 139	\$ 2	\$ 4,064	879,799	388	5,728	284	-	938	12,090,440	11,488	52,727	
2045	\$ 2,393	\$ 382	\$ 1,261	\$ 4,035	\$ 137	\$ 2	\$ 4,174	836,445	311	9,111	454	-	1,484	11,626,442	10,223	53,491	
2046	\$ 2,484	\$ 438	\$ 1,171	\$ 4,093	\$ 121	\$ 1	\$ 4,216	718,517	213	9,931	522	-	1,812	9,947,715	8,156	53,261	
2047	\$ 2,588	\$ 465	\$ 1,144	\$ 4,196	\$ 93	\$ 1	\$ 4,290	533,970	118	10,493	555	-	1,935	7,329,967	7,772	53,637	
2048	\$ 2,654	\$ 549	\$ 1,133	\$ 4,336	\$ 72	\$ 0	\$ 4,408	397,997	59	12,170	628	-	2,127	5,479,168	7,133	54,542	
2049	\$ 2,759	\$ 614	\$ 1,127	\$ 4,500	\$ 39	\$ 0	\$ 4,539	208,683	15	8,767	449	-	1,535	2,900,188	6,684	55,268	
2050	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
2051	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
2052	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
2053	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
2054	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
2055	\$ 3,048	\$ 627	\$ 1,048	\$ 4,723	\$ -	\$ -	\$ 4,723	-	-	17,185	917	-	3,200	0	6,236	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,958	\$ 4,618	\$ 16,164	\$ 42,739	\$ 6,208	\$ 55	\$ 49,002	69,511,317	15,095	42,860	25,286	0.23	5,206	<< 2023-2030 sum			
								91,352,834	31,224	289,696	38,257	0.23	49,545	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 3 - Least Cost Plan (SCC) - Extreme Weather										Emissions					Native Load		
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons (\$/Tons)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GWh)	Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,958	2,132	6,601	6,041	0.06	405	39,888,419	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,921	1,961	6,487	6,018	0.06	400	36,693,932	758	34,410	
2025	\$ 866	\$ 435	\$ 775	\$ 2,075	\$ 1,208	\$ 6	\$ 3,289	14,538,424	2,508	6,395	5,562	0.05	394	46,931,774	624	35,028	
2026	\$ 946	\$ 341	\$ 772	\$ 2,058	\$ 632	\$ 5	\$ 2,696	7,344,698	2,346	2,440	2,240	0.02	310	43,904,092	3,672	34,760	
2027	\$ 1,005	\$ 250	\$ 1,199	\$ 2,454	\$ 482	\$ 3	\$ 2,939	5,408,412	1,277	2,529	1,909	0.02	339	23,903,356	5,164	35,507	
2028	\$ 1,013	\$ 218	\$ 1,245	\$ 2,475	\$ 434	\$ 3	\$ 2,912	4,697,331	1,216	2,493	1,549	0.01	398	22,754,301	5,364	36,409	
2029	\$ 1,092	\$ 213	\$ 1,324	\$ 2,629	\$ 289	\$ 4	\$ 2,921	3,021,940	1,419	3,786	710	0.01	756	26,559,168	5,487	37,260	
2030	\$ 1,129	\$ 225	\$ 1,266	\$ 2,620	\$ 315	\$ 4	\$ 2,939	3,179,702	1,552	4,816	752	0.01	868	29,044,858	5,055	38,334	
2031	\$ 1,273	\$ 197	\$ 1,198	\$ 2,668	\$ 180	\$ 4	\$ 2,853	1,756,406	1,505	3,208	184	-	734	28,162,863	6,636	39,475	
2032	\$ 1,284	\$ 213	\$ 1,140	\$ 2,638	\$ 204	\$ 5	\$ 2,847	1,927,118	1,664	4,845	263	-	942	31,142,621	6,181	40,880	
2033	\$ 1,345	\$ 205	\$ 1,097	\$ 2,647	\$ 193	\$ 5	\$ 2,845	1,755,454	1,526	4,605	254	-	956	28,549,525	7,759	42,045	
2034	\$ 1,425	\$ 204	\$ 1,055	\$ 2,684	\$ 194	\$ 5	\$ 2,883	1,708,193	1,468	2,681	143	-	543	27,465,720	8,012	43,121	
2035	\$ 1,483	\$ 205	\$ 1,062	\$ 2,749	\$ 195	\$ 5	\$ 2,949	1,661,010	1,424	4,310	248	-	936	26,644,137	8,290	44,105	
2036	\$ 1,477	\$ 214	\$ 1,232	\$ 2,922	\$ 212	\$ 5	\$ 3,140	1,745,542	1,473	5,756	315	-	986	27,557,178	7,692	45,106	
2037	\$ 1,733	\$ 145	\$ 1,518	\$ 3,397	\$ 104	\$ 3	\$ 3,504	828,972	748	2,307	108	-	311	13,990,104	19,231	46,080	
2038	\$ 1,704	\$ 162	\$ 1,596	\$ 3,461	\$ 129	\$ 3	\$ 3,594	991,194	883	3,443	187	-	638	16,530,306	17,348	47,142	
2039	\$ 1,730	\$ 180	\$ 1,599	\$ 3,508	\$ 155	\$ 4	\$ 3,668	1,153,298	1,012	4,216	224	-	771	18,937,783	16,717	48,169	
2040	\$ 1,781	\$ 179	\$ 1,572	\$ 3,532	\$ 169	\$ 4	\$ 3,705	1,213,048	997	8,763	445	-	1,440	18,662,116	15,044	49,134	
2041	\$ 1,887	\$ 199	\$ 1,529	\$ 3,615	\$ 158	\$ 3	\$ 3,776	1,097,877	752	5,494	283	-	974	15,628,122	13,828	49,982	
2042	\$ 2,132	\$ 222	\$ 1,399	\$ 3,752	\$ 148	\$ 3	\$ 3,903	997,937	581	2,374	128	-	489	13,585,757	12,692	50,856	
2043	\$ 2,190	\$ 235	\$ 1,378	\$ 3,803	\$ 128	\$ 2	\$ 3,933	832,058	417	2,821	147	-	531	11,143,983	13,103	50,342	
2044	\$ 2,251	\$ 302	\$ 1,314	\$ 3,867	\$ 136	\$ 2	\$ 4,004	856,752	373	4,660	229	-	755	11,640,118	11,196	51,177	
2045	\$ 2,321	\$ 371	\$ 1,284	\$ 3,976	\$ 133	\$ 2	\$ 4,111	815,773	299	6,442	352	-	1,292	11,208,561	9,891	51,941	
2046	\$ 2,422	\$ 473	\$ 1,193	\$ 4,088	\$ 132	\$ 1	\$ 4,222	784,836	233	9,218	497	-	1,785	10,883,049	7,366	52,777	
2047	\$ 2,530	\$ 525	\$ 1,166	\$ 4,221	\$ 106	\$ 1	\$ 4,327	607,840	135	12,673	668	-	2,314	8,431,310	6,709	53,637	
2048	\$ 2,595	\$ 621	\$ 1,168	\$ 4,383	\$ 81	\$ 0	\$ 4,465	451,507	67	15,046	769	-	2,573	6,292,804	6,087	54,542	
2049	\$ 2,701	\$ 693	\$ 1,162	\$ 4,557	\$ 44	\$ 0	\$ 4,600	236,118	18	10,797	557	-	1,915	3,318,777	5,688	55,268	
2050	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
2051	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
2052	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
2053	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
2054	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
2055	\$ 2,993	\$ 710	\$ 1,082	\$ 4,786	\$ -	\$ -	\$ 4,786	-	-	21,856	1,131	-	3,802	0	5,290	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 21,275	\$ 4,671	\$ 16,381	\$ 42,327	\$ 6,121	\$ 53	\$ 48,501	68,624,386	14,411	35,547	24,780	0.23	3,869	<< 2023-2030 sum			
2023-2055								90,045,317	29,985	280,347	37,570	0.23	47,567	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 8 - No Gas Plan (SCC)									Emissions						Native Load		
Year	Capital +			TOTAL PVRR (\$M)	Cost of		TOTAL PVSC (\$M)	Carbon (tons)	Emissions					Native Load			
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 (\$M)	Methane Tons (\$M)			Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Forecast Energy (GW/h)	
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,404	2,132	6,601	6,041	0.06	405	39,888,427	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,926	1,961	6,487	6,018	0.06	400	36,693,933	761	34,410	
2025	\$ 866	\$ 434	\$ 773	\$ 2,073	\$ 1,208	\$ 6	\$ 3,287	14,540,763	2,503	6,399	5,566	0.05	394	46,834,193	619	35,028	
2026	\$ 933	\$ 312	\$ 724	\$ 1,969	\$ 595	\$ 5	\$ 2,569	6,912,729	1,991	2,329	2,177	0.02	290	37,248,571	3,031	34,760	
2027	\$ 1,111	\$ 220	\$ 1,286	\$ 2,617	\$ 432	\$ 2	\$ 3,051	4,840,610	967	1,787	1,784	0.01	190	18,100,690	7,534	35,507	
2028	\$ 1,514	\$ 133	\$ 1,411	\$ 3,058	\$ 220	\$ 1	\$ 3,279	2,385,515	509	944	923	0.01	91	9,532,590	14,709	36,409	
2029	\$ 1,593	\$ 136	\$ 1,468	\$ 3,197	\$ 148	\$ 2	\$ 3,347	1,543,493	609	439	349	0.01	74	11,393,308	13,832	37,260	
2030	\$ 1,576	\$ 142	\$ 1,382	\$ 3,100	\$ 161	\$ 2	\$ 3,263	1,624,981	664	454	356	0.01	79	12,429,752	13,214	38,334	
2031	\$ 1,727	\$ 128	\$ 1,296	\$ 3,150	\$ 77	\$ 2	\$ 3,230	756,292	695	138	7	-	37	12,997,153	15,291	39,475	
2032	\$ 1,739	\$ 136	\$ 1,224	\$ 3,099	\$ 90	\$ 2	\$ 3,192	851,286	775	153	7	-	42	14,498,565	14,658	40,880	
2033	\$ 1,825	\$ 135	\$ 1,168	\$ 3,128	\$ 89	\$ 2	\$ 3,219	808,163	746	149	7	-	40	13,958,372	16,403	42,045	
2034	\$ 1,909	\$ 137	\$ 1,112	\$ 3,158	\$ 92	\$ 2	\$ 3,252	805,726	738	147	7	-	39	13,801,302	16,710	43,121	
2035	\$ 1,977	\$ 138	\$ 1,149	\$ 3,263	\$ 93	\$ 2	\$ 3,358	787,666	720	148	7	-	38	13,479,947	17,073	44,105	
2036	\$ 1,910	\$ 140	\$ 1,391	\$ 3,441	\$ 99	\$ 3	\$ 3,542	810,164	726	148	7	-	38	13,582,263	16,616	45,106	
2037	\$ 2,231	\$ 112	\$ 1,680	\$ 4,022	\$ 52	\$ 2	\$ 4,076	415,763	420	97	5	-	18	7,864,146	29,492	46,080	
2038	\$ 2,122	\$ 120	\$ 1,831	\$ 4,073	\$ 64	\$ 2	\$ 4,139	495,096	483	111	10	-	22	9,034,968	27,985	47,142	
2039	\$ 2,150	\$ 130	\$ 1,855	\$ 4,135	\$ 79	\$ 2	\$ 4,216	587,854	557	120	6	-	27	10,426,565	27,175	48,169	
2040	\$ 2,202	\$ 117	\$ 1,824	\$ 4,143	\$ 79	\$ 2	\$ 4,224	569,815	453	79	24	-	30	8,470,488	25,374	49,134	
2041	\$ 2,298	\$ 124	\$ 1,775	\$ 4,197	\$ 72	\$ 1	\$ 4,270	501,457	326	66	2	-	27	6,778,096	24,061	49,982	
2042	\$ 2,548	\$ 132	\$ 1,642	\$ 4,322	\$ 67	\$ 1	\$ 4,390	453,809	246	50	2	-	27	5,754,681	22,726	50,856	
2043	\$ 2,645	\$ 134	\$ 1,614	\$ 4,393	\$ 56	\$ 1	\$ 4,449	366,170	168	46	2	-	24	4,491,412	23,242	50,342	
2044	\$ 2,695	\$ 167	\$ 1,545	\$ 4,407	\$ 63	\$ 1	\$ 4,471	397,194	160	61	3	-	20	4,994,526	20,922	51,177	
2045	\$ 2,769	\$ 200	\$ 1,510	\$ 4,479	\$ 64	\$ 1	\$ 4,543	388,745	132	74	3	-	36	4,950,916	19,613	51,941	
2046	\$ 2,882	\$ 247	\$ 1,410	\$ 4,538	\$ 63	\$ 1	\$ 4,602	373,486	103	92	4	-	45	4,829,644	16,384	52,777	
2047	\$ 3,024	\$ 263	\$ 1,362	\$ 4,650	\$ 50	\$ 0	\$ 4,700	286,821	58	96	4	-	44	3,630,602	15,636	53,637	
2048	\$ 3,081	\$ 313	\$ 1,355	\$ 4,749	\$ 39	\$ 0	\$ 4,789	218,934	30	114	5	-	52	2,801,934	14,759	54,542	
2049	\$ 3,161	\$ 351	\$ 1,343	\$ 4,855	\$ 21	\$ 0	\$ 4,876	115,657	8	120	5	-	56	1,510,046	14,205	55,268	
2050	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
2051	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
2052	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
2053	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
2054	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
2055	\$ 3,536	\$ 358	\$ 1,254	\$ 5,147	\$ -	\$ -	\$ 5,147	-	-	124	5	-	55	0	13,798	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 26,051	\$ 3,417	\$ 18,011	\$ 47,479	\$ 5,104	\$ 34	\$ 52,617	62,282,423	11,335	25,439	23,215	0.21	1,924	<< 2023-2030 sum			
								72,272,523	18,879	28,189	23,360	0.21	2,925	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

\$0CO2 Portfolios

Portfolio: 0 - Reference Case Plan (\$0CO2)										Emissions							
Year	Capital +				Cost of			Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Native Load Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	Cost of CO2 (\$M)	Methane Tons	TOTAL PVSC (\$M)							Burn (MMBtu)	Curtailment (GWh)		
2023	\$ 760	\$ 481	\$ 735	\$ 1,975	\$ 1,177	\$ 4	\$ 3,156	15,213,030	2,085	6,574	6,025	0.06	402	39,011,946	849	33,906	
2024	\$ 831	\$ 440	\$ 745	\$ 2,016	\$ 1,212	\$ 4	\$ 3,232	15,120,063	1,961	6,487	6,018	0.06	400	36,693,919	744	34,410	
2025	\$ 862	\$ 433	\$ 762	\$ 2,057	\$ 1,235	\$ 5	\$ 3,297	14,860,212	2,388	6,496	5,733	0.05	416	44,683,052	542	35,028	
2026	\$ 887	\$ 350	\$ 781	\$ 2,018	\$ 944	\$ 4	\$ 2,967	10,971,478	1,787	3,620	4,396	0.05	343	33,446,350	1,402	34,760	
2027	\$ 923	\$ 311	\$ 1,041	\$ 2,275	\$ 885	\$ 3	\$ 3,163	9,928,203	1,256	4,527	4,273	0.04	412	23,499,355	2,414	35,507	
2028	\$ 925	\$ 309	\$ 1,042	\$ 2,276	\$ 933	\$ 4	\$ 3,214	10,109,884	1,452	7,987	4,281	0.04	800	27,178,538	1,602	36,409	
2029	\$ 1,035	\$ 279	\$ 1,181	\$ 2,495	\$ 764	\$ 3	\$ 3,263	7,996,211	1,297	6,266	3,252	0.04	656	24,279,386	2,654	37,260	
2030	\$ 1,071	\$ 296	\$ 1,148	\$ 2,515	\$ 836	\$ 4	\$ 3,355	8,445,475	1,375	6,231	3,386	0.04	657	25,738,242	2,403	38,334	
2031	\$ 1,139	\$ 293	\$ 1,181	\$ 2,613	\$ 835	\$ 4	\$ 3,452	8,146,603	1,360	6,134	3,259	0.04	644	25,458,326	2,612	39,475	
2032	\$ 1,187	\$ 290	\$ 1,154	\$ 2,631	\$ 850	\$ 4	\$ 3,485	8,013,475	1,266	2,823	3,085	0.04	305	23,699,898	3,061	40,880	
2033	\$ 1,229	\$ 298	\$ 1,137	\$ 2,664	\$ 868	\$ 4	\$ 3,536	7,906,859	1,304	3,386	3,062	0.04	359	24,398,425	2,989	42,045	
2034	\$ 1,290	\$ 303	\$ 1,118	\$ 2,712	\$ 917	\$ 4	\$ 3,633	8,067,706	1,227	3,015	3,123	0.04	320	22,960,666	3,455	43,121	
2035	\$ 1,343	\$ 308	\$ 1,138	\$ 2,788	\$ 913	\$ 4	\$ 3,706	7,764,637	1,271	5,342	3,064	0.04	565	23,780,505	3,597	44,105	
2036	\$ 1,359	\$ 314	\$ 1,268	\$ 2,941	\$ 970	\$ 4	\$ 3,915	7,972,049	1,188	7,247	3,264	0.04	761	22,229,373	3,546	45,106	
2037	\$ 1,704	\$ 202	\$ 1,395	\$ 3,301	\$ 648	\$ 1	\$ 3,950	5,149,550	318	2,793	2,288	0.03	270	5,958,099	17,996	46,080	
2038	\$ 1,674	\$ 220	\$ 1,386	\$ 3,280	\$ 725	\$ 1	\$ 4,007	5,575,105	373	2,098	2,399	0.03	202	6,979,904	16,018	47,142	
2039	\$ 1,685	\$ 234	\$ 1,366	\$ 3,285	\$ 757	\$ 2	\$ 4,044	5,627,687	480	3,232	2,436	0.03	320	8,981,120	15,344	48,169	
2040	\$ 1,690	\$ 259	\$ 1,350	\$ 3,298	\$ 836	\$ 2	\$ 4,137	6,014,067	586	3,834	2,556	0.03	391	10,958,992	14,078	49,134	
2041	\$ 1,779	\$ 269	\$ 1,330	\$ 3,379	\$ 840	\$ 2	\$ 4,220	5,846,887	435	3,496	2,512	0.03	349	9,051,832	12,800	49,982	
2042	\$ 2,051	\$ 284	\$ 1,207	\$ 3,542	\$ 567	\$ 2	\$ 4,111	3,819,842	523	4,779	1,249	0.02	576	12,228,655	10,859	50,856	
2043	\$ 2,111	\$ 295	\$ 1,156	\$ 3,561	\$ 527	\$ 2	\$ 4,090	3,438,776	381	7,075	1,259	0.02	811	10,192,763	11,132	50,342	
2044	\$ 2,167	\$ 360	\$ 1,150	\$ 3,677	\$ 596	\$ 2	\$ 4,275	3,767,184	331	10,262	1,511	0.02	1,154	10,329,344	9,397	51,177	
2045	\$ 2,299	\$ 503	\$ 1,065	\$ 3,867	\$ 187	\$ 2	\$ 4,056	1,143,058	430	20,644	883	-	2,238	16,082,884	6,955	51,941	
2046	\$ 2,368	\$ 673	\$ 994	\$ 4,035	\$ 191	\$ 2	\$ 4,228	1,132,986	347	23,952	1,025	-	2,599	16,235,554	4,876	52,777	
2047	\$ 2,511	\$ 702	\$ 983	\$ 4,196	\$ 142	\$ 1	\$ 4,339	817,006	187	30,306	1,296	-	3,258	11,691,336	4,910	53,637	
2048	\$ 2,604	\$ 778	\$ 991	\$ 4,373	\$ 101	\$ 0	\$ 4,475	564,135	86	27,866	1,192	-	3,011	8,081,435	4,886	54,542	
2049	\$ 2,712	\$ 882	\$ 990	\$ 4,584	\$ 55	\$ 0	\$ 4,639	299,103	23	22,740	972	-	2,484	4,317,703	4,203	55,268	
2050	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
2051	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
2052	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
2053	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
2054	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
2055	\$ 2,927	\$ 1,125	\$ 921	\$ 4,974	\$ -	\$ -	\$ 4,974	-	-	33,833	1,445	-	3,628	0	4,118	56,532	
			A	B	C	A + B + C											
NPV (\$M)	\$ 20,371	\$ 5,936	\$ 15,113	\$ 41,421	\$ 11,462	\$ 46	\$ 52,928	92,644,556	13,602	48,190	37,364	0.38	4,086	<< 2023-2030 sum			
2023-2055								183,711,272	25,719	442,208	86,471	0.81	46,473	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 1 - Preferred Plan (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$M)	Methane Tons (\$M)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)											Burn (MMBtu)	Curtailment (GWh)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,945	2,132	6,601	6,041	0.06	405	39,888,446	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,169	1,961	6,487	6,018	0.06	400	36,693,920	765	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,256	2,477	6,408	5,583	0.05	394	46,357,121	613	35,028	
2026	\$ 899	\$ 389	\$ 790	\$ 2,078	\$ 703	\$ 7	\$ 2,787	8,161,299	2,943	2,642	2,375	0.02	349	55,067,621	988	34,760	
2027	\$ 973	\$ 315	\$ 1,100	\$ 2,388	\$ 589	\$ 5	\$ 2,983	6,608,295	2,019	2,985	2,086	0.02	472	37,788,637	1,912	35,507	
2028	\$ 1,044	\$ 284	\$ 1,073	\$ 2,401	\$ 543	\$ 5	\$ 2,949	5,883,335	1,999	4,049	1,751	0.02	821	37,407,260	1,646	36,409	
2029	\$ 1,163	\$ 266	\$ 1,199	\$ 2,628	\$ 366	\$ 5	\$ 2,999	3,831,893	2,061	2,777	692	0.01	575	38,565,895	2,470	37,260	
2030	\$ 1,201	\$ 283	\$ 1,163	\$ 2,646	\$ 402	\$ 6	\$ 3,055	4,066,959	2,259	3,616	741	0.01	788	42,264,031	2,226	38,334	
2031	\$ 1,323	\$ 257	\$ 1,127	\$ 2,707	\$ 269	\$ 6	\$ 2,983	2,629,812	2,217	5,105	331	-	1,124	41,480,343	3,234	39,475	
2032	\$ 1,371	\$ 256	\$ 1,095	\$ 2,722	\$ 271	\$ 7	\$ 3,000	2,556,637	2,175	4,359	326	-	1,092	40,698,634	3,436	40,880	
2033	\$ 1,414	\$ 264	\$ 1,075	\$ 2,753	\$ 284	\$ 7	\$ 3,043	2,582,987	2,190	4,698	340	-	1,195	40,978,795	3,667	42,045	
2034	\$ 1,464	\$ 280	\$ 1,048	\$ 2,792	\$ 312	\$ 8	\$ 3,112	2,746,985	2,304	6,994	483	-	1,590	43,108,790	3,418	43,121	
2035	\$ 1,508	\$ 292	\$ 1,064	\$ 2,864	\$ 328	\$ 8	\$ 3,200	2,793,608	2,344	8,205	604	-	1,955	43,871,047	3,419	44,105	
2036	\$ 1,533	\$ 282	\$ 1,201	\$ 3,015	\$ 318	\$ 8	\$ 3,342	2,618,538	2,172	8,828	595	-	1,886	40,640,508	3,728	45,106	
2037	\$ 1,821	\$ 161	\$ 1,351	\$ 3,332	\$ 131	\$ 3	\$ 3,466	1,038,085	906	1,849	163	-	426	16,955,884	15,423	46,080	
2038	\$ 1,788	\$ 183	\$ 1,348	\$ 3,319	\$ 162	\$ 4	\$ 3,484	1,242,704	1,081	3,345	263	-	836	20,231,397	13,513	47,142	
2039	\$ 1,815	\$ 203	\$ 1,329	\$ 3,347	\$ 193	\$ 5	\$ 3,545	1,433,204	1,231	4,353	286	-	903	23,041,996	13,134	48,169	
2040	\$ 1,828	\$ 208	\$ 1,311	\$ 3,348	\$ 215	\$ 5	\$ 3,568	1,544,817	1,256	9,077	627	-	2,030	23,504,640	11,609	49,134	
2041	\$ 1,940	\$ 236	\$ 1,270	\$ 3,447	\$ 201	\$ 4	\$ 3,652	1,400,280	965	7,073	438	-	1,497	20,058,718	10,554	49,982	
2042	\$ 2,208	\$ 269	\$ 1,142	\$ 3,619	\$ 190	\$ 3	\$ 3,813	1,281,966	759	3,005	217	-	728	17,749,488	9,483	50,856	
2043	\$ 2,279	\$ 287	\$ 1,125	\$ 3,690	\$ 164	\$ 3	\$ 3,857	1,067,581	544	3,564	242	-	782	14,553,519	9,878	50,342	
2044	\$ 2,332	\$ 371	\$ 1,061	\$ 3,764	\$ 173	\$ 2	\$ 3,939	1,096,112	482	5,733	380	-	1,358	15,043,445	8,109	51,177	
2045	\$ 2,404	\$ 459	\$ 1,039	\$ 3,902	\$ 170	\$ 2	\$ 4,073	1,038,221	386	8,368	537	-	1,966	14,451,661	6,999	51,941	
2046	\$ 2,522	\$ 595	\$ 975	\$ 4,093	\$ 170	\$ 2	\$ 4,264	1,005,564	302	9,983	620	-	2,259	14,149,734	4,771	52,777	
2047	\$ 2,661	\$ 654	\$ 968	\$ 4,283	\$ 134	\$ 1	\$ 4,418	767,820	173	14,245	901	-	3,420	10,810,865	4,473	53,637	
2048	\$ 2,771	\$ 724	\$ 977	\$ 4,472	\$ 95	\$ 0	\$ 4,568	529,695	80	12,949	785	-	2,847	7,463,465	4,381	54,542	
2049	\$ 2,841	\$ 830	\$ 975	\$ 4,647	\$ 52	\$ 0	\$ 4,700	283,034	22	12,253	750	-	2,746	4,045,158	3,848	55,268	
2050	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
2051	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
2052	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
2053	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
2054	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
2055	\$ 3,205	\$ 833	\$ 899	\$ 4,937	\$ -	\$ -	\$ 4,937	-	-	19,044	1,156	-	4,295	0	3,905	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 22,051	\$ 5,428	\$ 14,866	\$ 42,344	\$ 6,895	\$ 69	\$ 49,308	73,516,151	17,850	35,565	25,288	0.23	4,203	<< 2023-2030 sum			
2023-2055								103,173,800	39,440	283,815	41,114	0.23	60,615	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 2 - Inverse 1324 Plan (\$0CO2)										Emissions						Native Load	
Year	Capital +				Cost of			Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	Cost of CO2 (\$M)	Methane Tons (\$M)	TOTAL PVSC (\$M)							Burn (MMBtu)	Curtailment (GWh)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,945	2,132	6,601	6,041	0.06	405	39,888,446	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,169	1,961	6,487	6,018	0.06	400	36,693,920	765	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,256	2,477	6,408	5,583	0.05	394	46,357,121	613	35,028	
2026	\$ 899	\$ 389	\$ 790	\$ 2,078	\$ 703	\$ 7	\$ 2,787	8,161,299	2,943	2,642	2,375	0.02	349	55,067,621	988	34,760	
2027	\$ 973	\$ 315	\$ 1,100	\$ 2,388	\$ 589	\$ 5	\$ 2,983	6,608,295	2,019	2,985	2,086	0.02	472	37,788,637	1,912	35,507	
2028	\$ 1,045	\$ 286	\$ 1,053	\$ 2,384	\$ 546	\$ 5	\$ 2,935	5,908,918	2,018	4,449	1,733	0.02	773	37,758,510	1,629	36,409	
2029	\$ 1,182	\$ 255	\$ 1,168	\$ 2,605	\$ 351	\$ 5	\$ 2,960	3,667,803	1,929	2,403	636	0.01	536	36,097,477	2,949	37,260	
2030	\$ 1,219	\$ 270	\$ 1,133	\$ 2,622	\$ 384	\$ 6	\$ 3,011	3,877,368	2,104	3,331	687	0.01	739	39,377,379	2,633	38,334	
2031	\$ 1,341	\$ 247	\$ 1,098	\$ 2,686	\$ 254	\$ 6	\$ 2,946	2,480,011	2,098	4,147	249	-	1,026	39,252,541	3,749	39,475	
2032	\$ 1,390	\$ 246	\$ 1,066	\$ 2,703	\$ 256	\$ 6	\$ 2,965	2,414,321	2,059	3,983	257	-	985	38,522,893	3,985	40,880	
2033	\$ 1,433	\$ 254	\$ 1,043	\$ 2,730	\$ 269	\$ 7	\$ 3,005	2,448,546	2,083	3,956	269	-	1,133	38,986,550	4,234	42,045	
2034	\$ 1,483	\$ 269	\$ 1,016	\$ 2,769	\$ 295	\$ 7	\$ 3,071	2,598,862	2,183	6,312	397	-	1,489	40,855,433	3,963	43,121	
2035	\$ 1,528	\$ 280	\$ 1,033	\$ 2,840	\$ 311	\$ 8	\$ 3,159	2,642,443	2,220	7,678	515	-	1,815	41,552,056	3,947	44,105	
2036	\$ 1,552	\$ 270	\$ 1,171	\$ 2,992	\$ 301	\$ 7	\$ 3,301	2,474,168	2,056	7,593	492	-	1,726	38,475,437	4,267	45,106	
2037	\$ 1,851	\$ 157	\$ 1,317	\$ 3,326	\$ 125	\$ 3	\$ 3,454	994,546	871	1,718	114	-	388	16,296,914	16,237	46,080	
2038	\$ 1,814	\$ 178	\$ 1,312	\$ 3,303	\$ 155	\$ 4	\$ 3,462	1,189,251	1,038	3,309	213	-	785	19,424,752	14,196	47,142	
2039	\$ 1,835	\$ 198	\$ 1,291	\$ 3,324	\$ 184	\$ 5	\$ 3,514	1,371,972	1,183	4,034	221	-	789	22,131,541	13,924	48,169	
2040	\$ 1,849	\$ 202	\$ 1,273	\$ 3,324	\$ 205	\$ 5	\$ 3,534	1,476,494	1,200	8,481	559	-	1,967	22,455,321	12,367	49,134	
2041	\$ 1,960	\$ 229	\$ 1,232	\$ 3,421	\$ 192	\$ 4	\$ 3,617	1,339,676	923	6,240	369	-	1,450	19,196,329	11,292	49,982	
2042	\$ 2,227	\$ 260	\$ 1,105	\$ 3,591	\$ 182	\$ 3	\$ 3,776	1,224,080	724	2,785	155	-	612	16,935,346	10,201	50,856	
2043	\$ 2,297	\$ 277	\$ 1,087	\$ 3,661	\$ 156	\$ 2	\$ 3,819	1,017,872	518	3,433	195	-	761	13,856,857	10,601	50,342	
2044	\$ 2,350	\$ 355	\$ 1,024	\$ 3,729	\$ 165	\$ 2	\$ 3,897	1,044,109	458	5,280	308	-	1,211	14,290,196	8,791	51,177	
2045	\$ 2,422	\$ 438	\$ 1,002	\$ 3,862	\$ 161	\$ 2	\$ 4,025	987,995	366	7,844	458	-	1,786	13,692,933	7,671	51,941	
2046	\$ 2,536	\$ 567	\$ 938	\$ 4,042	\$ 161	\$ 2	\$ 4,204	955,770	287	9,041	548	-	2,212	13,406,110	5,342	52,777	
2047	\$ 2,675	\$ 624	\$ 931	\$ 4,231	\$ 127	\$ 1	\$ 4,359	730,443	165	13,655	808	-	3,143	10,262,991	5,045	53,637	
2048	\$ 2,784	\$ 690	\$ 940	\$ 4,415	\$ 91	\$ 0	\$ 4,506	503,661	76	11,906	707	-	2,777	7,077,023	4,950	54,542	
2049	\$ 2,857	\$ 791	\$ 938	\$ 4,586	\$ 50	\$ 0	\$ 4,636	269,254	20	11,503	684	-	2,705	3,834,862	4,393	55,268	
2050	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
2051	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
2052	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
2053	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
2054	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
2055	\$ 3,210	\$ 791	\$ 862	\$ 4,864	\$ -	\$ -	\$ 4,864	-	-	17,177	1,005	-	3,860	0	4,452	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 22,218	\$ 5,286	\$ 14,537	\$ 42,041	\$ 6,795	\$ 67	\$ 48,903	73,188,053	17,583	35,307	25,160	0.23	4,068	<< 2023-2030 sum			
2023-2055								101,351,525	38,111	261,267	38,708	0.23	55,983	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Market Purchases/Sales, less Fuel.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 3 - Least Cost Plan (\$0CO2)										Emissions					Native Load		
Year	Capital +			TOTAL PVRR (\$M)	Cost of			Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GWh)	Energy Forecast (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		Cost of CO2 (\$M)	Methane Tons (\$M)	TOTAL PVSC (\$M)										
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,329	2,132	6,601	6,041	0.06	405	39,888,442	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,743	1,961	6,487	6,018	0.06	400	36,693,941	763	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,529,323	2,477	6,408	5,583	0.05	394	46,346,686	613	35,028	
2026	\$ 920	\$ 374	\$ 807	\$ 2,101	\$ 679	\$ 6	\$ 2,787	7,893,193	2,769	2,578	2,325	0.02	336	51,822,566	1,513	34,760	
2027	\$ 966	\$ 306	\$ 1,087	\$ 2,359	\$ 572	\$ 5	\$ 2,936	6,417,691	1,917	5,684	2,164	0.02	630	35,881,943	2,629	35,507	
2028	\$ 988	\$ 284	\$ 1,066	\$ 2,338	\$ 537	\$ 5	\$ 2,881	5,818,299	1,994	8,944	1,881	0.01	994	37,307,008	2,290	36,409	
2029	\$ 1,101	\$ 264	\$ 1,211	\$ 2,575	\$ 361	\$ 5	\$ 2,942	3,776,607	2,035	13,667	1,096	0.01	1,523	38,081,247	3,452	37,260	
2030	\$ 1,138	\$ 279	\$ 1,175	\$ 2,593	\$ 395	\$ 6	\$ 2,993	3,987,425	2,216	15,378	1,165	0.01	1,708	41,461,524	3,116	38,334	
2031	\$ 1,261	\$ 255	\$ 1,140	\$ 2,656	\$ 264	\$ 6	\$ 2,926	2,576,447	2,188	13,432	586	-	1,484	40,946,491	4,248	39,475	
2032	\$ 1,311	\$ 253	\$ 1,109	\$ 2,672	\$ 265	\$ 6	\$ 2,944	2,496,855	2,135	11,108	493	-	1,245	39,944,847	4,467	40,880	
2033	\$ 1,353	\$ 261	\$ 1,086	\$ 2,700	\$ 278	\$ 7	\$ 2,984	2,527,892	2,155	14,471	619	-	1,595	40,335,469	4,710	42,045	
2034	\$ 1,404	\$ 275	\$ 1,059	\$ 2,738	\$ 304	\$ 7	\$ 3,049	2,675,184	2,253	18,034	798	-	1,970	42,161,273	4,430	43,121	
2035	\$ 1,448	\$ 287	\$ 1,074	\$ 2,809	\$ 320	\$ 8	\$ 3,137	2,721,170	2,300	20,307	922	-	2,207	43,040,518	4,412	44,105	
2036	\$ 1,472	\$ 277	\$ 1,211	\$ 2,960	\$ 311	\$ 8	\$ 3,279	2,554,844	2,132	20,219	922	-	2,193	39,887,438	4,749	45,106	
2037	\$ 1,772	\$ 165	\$ 1,357	\$ 3,294	\$ 136	\$ 4	\$ 3,434	1,077,916	951	5,676	245	-	623	17,794,089	16,904	46,080	
2038	\$ 1,741	\$ 186	\$ 1,353	\$ 3,280	\$ 166	\$ 4	\$ 3,450	1,274,708	1,112	8,095	353	-	882	20,806,777	14,829	47,142	
2039	\$ 1,761	\$ 206	\$ 1,332	\$ 3,299	\$ 196	\$ 5	\$ 3,501	1,460,112	1,260	11,069	476	-	1,199	23,571,459	14,471	48,169	
2040	\$ 1,778	\$ 212	\$ 1,313	\$ 3,303	\$ 219	\$ 5	\$ 3,527	1,573,326	1,286	22,869	1,033	-	2,440	24,057,164	12,941	49,134	
2041	\$ 1,882	\$ 242	\$ 1,270	\$ 3,394	\$ 205	\$ 4	\$ 3,603	1,424,838	998	16,732	714	-	1,802	20,752,444	11,843	49,982	
2042	\$ 2,144	\$ 272	\$ 1,145	\$ 3,561	\$ 191	\$ 4	\$ 3,756	1,289,867	771	7,969	340	-	893	18,045,605	10,739	50,856	
2043	\$ 2,212	\$ 292	\$ 1,128	\$ 3,632	\$ 165	\$ 3	\$ 3,799	1,076,885	556	7,303	312	-	821	14,865,915	11,159	50,342	
2044	\$ 2,265	\$ 372	\$ 1,065	\$ 3,703	\$ 173	\$ 2	\$ 3,878	1,091,454	485	13,812	590	-	1,510	15,133,961	9,299	51,177	
2045	\$ 2,335	\$ 457	\$ 1,044	\$ 3,836	\$ 168	\$ 2	\$ 4,006	1,026,648	385	19,458	831	-	2,108	14,391,807	8,211	51,941	
2046	\$ 2,438	\$ 587	\$ 972	\$ 3,997	\$ 166	\$ 2	\$ 4,165	984,484	298	23,689	1,012	-	2,567	13,931,457	5,827	52,777	
2047	\$ 2,559	\$ 647	\$ 961	\$ 4,167	\$ 131	\$ 1	\$ 4,299	751,564	171	32,495	1,388	-	3,487	10,673,528	5,521	53,637	
2048	\$ 2,658	\$ 710	\$ 969	\$ 4,337	\$ 93	\$ 0	\$ 4,431	515,600	78	28,869	1,233	-	3,113	7,307,845	5,420	54,542	
2049	\$ 2,740	\$ 813	\$ 967	\$ 4,520	\$ 51	\$ 0	\$ 4,571	275,332	21	26,916	1,150	-	2,919	3,951,393	4,841	55,268	
2050	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
2051	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
2052	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
2053	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
2054	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
2055	\$ 3,074	\$ 811	\$ 893	\$ 4,778	\$ -	\$ -	\$ 4,778	-	-	43,067	1,839	-	4,592	0	4,889	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,365	\$ 5,371	\$ 14,916	\$ 41,652	\$ 6,833	\$ 68	\$ 48,553	72,856,611	17,500	65,748	26,274	0.23	6,390	<< 2023-2030 sum			
								102,231,738	39,035	646,672	51,324	0.23	68,999	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 6 - Lower Dispatchable Plan (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of CO2	Methane Tons	TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,416	2,132	6,601	6,041	0.06	405	39,888,437	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,416	1,961	6,487	6,018	0.06	400	36,693,933	761	34,410	
2025	\$ 870	\$ 433	\$ 772	\$ 2,074	\$ 1,207	\$ 6	\$ 3,287	14,529,871	2,475	6,409	5,584	0.05	393	46,310,025	613	35,028	
2026	\$ 896	\$ 366	\$ 782	\$ 2,045	\$ 670	\$ 6	\$ 2,721	7,784,953	2,649	2,553	2,350	0.02	331	49,562,763	1,604	34,760	
2027	\$ 985	\$ 285	\$ 1,141	\$ 2,411	\$ 545	\$ 4	\$ 2,960	6,112,458	1,666	2,146	1,982	0.02	257	31,169,907	2,737	35,507	
2028	\$ 1,083	\$ 245	\$ 1,158	\$ 2,487	\$ 486	\$ 4	\$ 2,977	5,268,563	1,540	1,997	1,597	0.01	298	28,824,658	2,434	36,409	
2029	\$ 1,229	\$ 225	\$ 1,276	\$ 2,730	\$ 309	\$ 4	\$ 3,043	3,235,340	1,563	1,260	608	0.01	266	29,250,919	3,533	37,260	
2030	\$ 1,268	\$ 237	\$ 1,231	\$ 2,736	\$ 337	\$ 5	\$ 3,077	3,406,188	1,704	1,260	608	0.01	275	31,881,430	3,132	38,334	
2031	\$ 1,391	\$ 218	\$ 1,188	\$ 2,797	\$ 213	\$ 5	\$ 3,015	2,082,712	1,758	1,149	103	-	294	32,891,560	4,462	39,475	
2032	\$ 1,439	\$ 220	\$ 1,140	\$ 2,800	\$ 218	\$ 5	\$ 3,023	2,054,770	1,757	3,016	217	-	685	32,876,069	4,773	40,880	
2033	\$ 1,482	\$ 227	\$ 1,109	\$ 2,818	\$ 229	\$ 6	\$ 3,053	2,089,546	1,782	2,078	167	-	571	33,343,961	5,040	42,045	
2034	\$ 1,532	\$ 241	\$ 1,077	\$ 2,849	\$ 253	\$ 6	\$ 3,108	2,228,179	1,876	2,918	231	-	780	35,111,283	4,740	43,121	
2035	\$ 1,577	\$ 250	\$ 1,104	\$ 2,931	\$ 266	\$ 7	\$ 3,204	2,265,590	1,901	4,722	355	-	1,142	35,574,105	4,707	44,105	
2036	\$ 1,601	\$ 241	\$ 1,294	\$ 3,137	\$ 258	\$ 6	\$ 3,401	2,120,334	1,762	3,670	301	-	869	32,964,996	5,067	45,106	
2037	\$ 1,892	\$ 142	\$ 1,471	\$ 3,506	\$ 103	\$ 3	\$ 3,612	819,950	724	1,219	110	-	266	13,556,701	17,325	46,080	
2038	\$ 1,861	\$ 160	\$ 1,473	\$ 3,494	\$ 129	\$ 3	\$ 3,626	990,068	865	1,901	166	-	510	16,183,653	15,423	47,142	
2039	\$ 1,888	\$ 178	\$ 1,450	\$ 3,516	\$ 155	\$ 4	\$ 3,675	1,151,645	997	1,415	128	-	378	18,665,426	15,068	48,169	
2040	\$ 1,893	\$ 179	\$ 1,430	\$ 3,502	\$ 172	\$ 4	\$ 3,678	1,236,478	998	5,949	421	-	1,278	18,676,306	13,460	49,134	
2041	\$ 2,010	\$ 200	\$ 1,388	\$ 3,598	\$ 160	\$ 3	\$ 3,761	1,117,017	756	4,740	316	-	1,075	15,714,656	12,373	49,982	
2042	\$ 2,283	\$ 225	\$ 1,257	\$ 3,765	\$ 153	\$ 3	\$ 3,920	1,028,410	595	1,229	106	-	279	13,927,696	11,275	50,856	
2043	\$ 2,356	\$ 237	\$ 1,237	\$ 3,830	\$ 130	\$ 2	\$ 3,962	849,637	421	1,741	144	-	434	11,265,904	11,705	50,342	
2044	\$ 2,408	\$ 304	\$ 1,175	\$ 3,887	\$ 139	\$ 2	\$ 4,028	878,632	376	4,570	298	-	987	11,735,956	9,782	51,177	
2045	\$ 2,485	\$ 373	\$ 1,148	\$ 4,006	\$ 137	\$ 2	\$ 4,144	835,776	301	5,538	366	-	1,294	11,280,940	8,645	51,941	
2046	\$ 2,608	\$ 485	\$ 1,061	\$ 4,154	\$ 138	\$ 1	\$ 4,293	817,280	240	7,042	455	-	1,647	11,213,608	6,159	52,777	
2047	\$ 2,747	\$ 535	\$ 1,036	\$ 4,318	\$ 109	\$ 1	\$ 4,428	626,425	138	9,591	608	-	2,233	8,617,632	5,874	53,637	
2048	\$ 2,851	\$ 593	\$ 1,039	\$ 4,484	\$ 78	\$ 0	\$ 4,562	434,435	64	9,089	563	-	2,008	5,979,138	5,795	54,542	
2049	\$ 2,917	\$ 680	\$ 1,035	\$ 4,631	\$ 43	\$ 0	\$ 4,675	232,953	17	8,790	558	-	2,048	3,249,777	5,207	55,268	
2050	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
2051	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
2052	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
2053	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
2054	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
2055	\$ 3,262	\$ 680	\$ 954	\$ 4,896	\$ -	\$ -	\$ 4,896	-	-	13,711	822	-	2,947	0	5,305	56,532	
			A	B	C	A + B + C											
NPV (\$M)	\$ 22,739	\$ 4,802	\$ 15,670	\$ 43,212	\$ 6,406	\$ 58	\$ 49,676	70,772,205	15,689	28,713	24,788	0.23	2,626	<< 2023-2030 sum			
2023-2055								94,632,043	33,018	191,348	35,330	0.23	39,088	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 7 - High Project Labor Agreement (PLA) (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GWh)	Native Load Forecast Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		Cost of CO2 (\$M)	Methane Tons (\$M)	TOTAL (\$M)										
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,456	2,132	6,601	6,041	0.06	405	39,888,437	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,574	1,961	6,487	6,018	0.06	400	36,693,920	762	34,410	
2025	\$ 865	\$ 432	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,531,479	2,471	6,412	5,587	0.05	393	46,245,415	609	35,028	
2026	\$ 901	\$ 399	\$ 674	\$ 1,973	\$ 727	\$ 7	\$ 2,707	8,440,601	3,042	2,680	2,381	0.02	363	56,923,727	408	34,760	
2027	\$ 964	\$ 321	\$ 1,098	\$ 2,383	\$ 604	\$ 5	\$ 2,992	6,775,285	2,087	2,646	2,085	0.02	362	39,047,973	1,361	35,507	
2028	\$ 1,048	\$ 240	\$ 1,329	\$ 2,617	\$ 475	\$ 4	\$ 3,096	5,144,023	1,470	2,174	1,598	0.01	331	27,515,302	2,833	36,409	
2029	\$ 1,133	\$ 234	\$ 1,390	\$ 2,757	\$ 319	\$ 4	\$ 3,080	3,338,270	1,666	3,783	749	0.01	766	31,169,435	3,396	37,260	
2030	\$ 1,171	\$ 248	\$ 1,337	\$ 2,755	\$ 350	\$ 5	\$ 3,110	3,536,113	1,829	3,196	730	0.01	766	34,225,124	3,050	38,334	
2031	\$ 1,293	\$ 224	\$ 1,284	\$ 2,801	\$ 219	\$ 5	\$ 3,025	2,140,682	1,816	4,058	275	-	943	33,991,991	4,211	39,475	
2032	\$ 1,341	\$ 225	\$ 1,233	\$ 2,798	\$ 222	\$ 5	\$ 3,026	2,095,677	1,801	3,869	272	-	880	33,704,145	4,482	40,880	
2033	\$ 1,383	\$ 232	\$ 1,189	\$ 2,804	\$ 234	\$ 6	\$ 3,044	2,133,528	1,829	3,102	223	-	764	34,230,883	4,739	42,045	
2034	\$ 1,434	\$ 246	\$ 1,148	\$ 2,827	\$ 259	\$ 6	\$ 3,092	2,277,044	1,921	3,837	283	-	985	35,941,907	4,452	43,121	
2035	\$ 1,478	\$ 254	\$ 1,147	\$ 2,880	\$ 271	\$ 7	\$ 3,158	2,307,732	1,946	6,661	463	-	1,485	36,411,104	4,406	44,105	
2036	\$ 1,501	\$ 246	\$ 1,230	\$ 2,977	\$ 262	\$ 6	\$ 3,246	2,153,849	1,796	5,996	437	-	1,425	33,605,392	4,766	45,106	
2037	\$ 1,820	\$ 145	\$ 1,451	\$ 3,416	\$ 105	\$ 3	\$ 3,523	836,081	746	1,204	120	-	335	13,965,239	17,130	46,080	
2038	\$ 1,759	\$ 163	\$ 1,583	\$ 3,505	\$ 132	\$ 4	\$ 3,640	1,011,548	895	2,970	223	-	706	16,754,453	15,342	47,142	
2039	\$ 1,783	\$ 182	\$ 1,607	\$ 3,572	\$ 159	\$ 4	\$ 3,735	1,181,949	1,032	2,718	205	-	659	19,316,201	14,734	48,169	
2040	\$ 1,795	\$ 184	\$ 1,580	\$ 3,559	\$ 176	\$ 4	\$ 3,740	1,268,740	1,033	7,917	557	-	1,766	19,323,008	13,158	49,134	
2041	\$ 1,905	\$ 204	\$ 1,532	\$ 3,641	\$ 164	\$ 3	\$ 3,808	1,139,986	780	4,886	341	-	1,231	16,215,137	11,986	49,982	
2042	\$ 2,160	\$ 228	\$ 1,403	\$ 3,791	\$ 154	\$ 3	\$ 3,948	1,040,070	604	2,071	155	-	463	14,136,715	10,822	50,856	
2043	\$ 2,216	\$ 242	\$ 1,379	\$ 3,837	\$ 132	\$ 2	\$ 3,971	864,618	431	2,976	206	-	631	11,532,626	11,229	50,342	
2044	\$ 2,284	\$ 314	\$ 1,314	\$ 3,911	\$ 143	\$ 2	\$ 4,056	903,086	392	4,660	319	-	1,123	12,224,519	9,343	51,177	
2045	\$ 2,357	\$ 386	\$ 1,288	\$ 4,031	\$ 141	\$ 2	\$ 4,174	860,636	314	6,345	443	-	1,690	11,762,325	8,104	51,941	
2046	\$ 2,440	\$ 501	\$ 1,208	\$ 4,149	\$ 142	\$ 1	\$ 4,292	840,544	248	8,702	579	-	2,205	11,613,945	5,728	52,777	
2047	\$ 2,549	\$ 552	\$ 1,171	\$ 4,272	\$ 112	\$ 1	\$ 4,385	644,798	143	10,498	699	-	2,709	8,936,175	5,421	53,637	
2048	\$ 2,666	\$ 611	\$ 1,151	\$ 4,428	\$ 80	\$ 0	\$ 4,508	445,832	66	10,193	658	-	2,474	6,175,862	5,315	54,542	
2049	\$ 2,769	\$ 699	\$ 1,144	\$ 4,612	\$ 44	\$ 0	\$ 4,657	239,639	18	8,400	586	-	2,332	3,351,306	4,790	55,268	
2050	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
2051	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
2052	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
2053	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
2054	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
2055	\$ 3,091	\$ 704	\$ 1,069	\$ 4,863	\$ -	\$ -	\$ 4,863	-	-	16,088	1,017	-	3,874	0	4,872	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,618	\$ 4,935	\$ 16,574	\$ 43,127	\$ 6,533	\$ 61	\$ 49,721	72,199,803	16,657	33,978	25,189	0.23	3,787	<< 2023-2030 sum			
								96,585,844	34,470	231,567	38,337	0.23	51,832	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 8 - No New Gas Plan (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of CO2 Tons	Methane Tons	TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Native Load Forecast Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,009	2,132	6,601	6,041	0.06	405	39,888,440	560	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,056	1,961	6,487	6,018	0.06	400	36,693,932	762	34,410	
2025	\$ 870	\$ 432	\$ 772	\$ 2,074	\$ 1,207	\$ 6	\$ 3,286	14,530,120	2,468	6,412	5,587	0.05	393	46,183,410	609	35,028	
2026	\$ 978	\$ 319	\$ 685	\$ 1,983	\$ 609	\$ 5	\$ 2,596	7,071,314	2,060	2,385	2,231	0.02	297	38,552,061	4,087	34,760	
2027	\$ 1,116	\$ 216	\$ 1,265	\$ 2,597	\$ 429	\$ 2	\$ 3,029	4,816,965	907	1,794	1,796	0.02	188	16,972,417	5,973	35,507	
2028	\$ 1,218	\$ 169	\$ 1,326	\$ 2,713	\$ 332	\$ 2	\$ 3,047	3,598,169	762	1,328	1,275	0.01	147	14,255,622	6,536	36,409	
2029	\$ 1,328	\$ 164	\$ 1,391	\$ 2,882	\$ 222	\$ 2	\$ 3,106	2,318,119	827	643	534	0.01	113	15,472,853	6,586	37,260	
2030	\$ 1,359	\$ 172	\$ 1,320	\$ 2,851	\$ 240	\$ 3	\$ 3,093	2,423,695	914	658	535	0.01	119	17,102,610	6,151	38,334	
2031	\$ 1,485	\$ 157	\$ 1,241	\$ 2,883	\$ 122	\$ 3	\$ 3,008	1,191,646	1,033	195	9	-	60	19,325,807	7,798	39,475	
2032	\$ 1,534	\$ 161	\$ 1,171	\$ 2,866	\$ 128	\$ 3	\$ 2,998	1,208,028	1,065	203	9	-	62	19,925,259	8,140	40,880	
2033	\$ 1,575	\$ 168	\$ 1,121	\$ 2,864	\$ 138	\$ 4	\$ 3,006	1,258,293	1,112	212	9	-	65	20,807,261	8,393	42,045	
2034	\$ 1,624	\$ 177	\$ 1,074	\$ 2,875	\$ 154	\$ 4	\$ 3,033	1,355,923	1,171	222	10	-	69	21,910,377	8,036	43,121	
2035	\$ 1,670	\$ 181	\$ 1,096	\$ 2,948	\$ 162	\$ 4	\$ 3,114	1,376,594	1,176	228	10	-	68	21,999,046	7,903	44,105	
2036	\$ 1,698	\$ 175	\$ 1,326	\$ 3,199	\$ 154	\$ 4	\$ 3,357	1,268,811	1,077	212	35	-	63	20,158,487	8,456	45,106	
2037	\$ 1,990	\$ 117	\$ 1,650	\$ 3,757	\$ 61	\$ 2	\$ 3,820	483,554	471	104	5	-	22	8,806,727	22,235	46,080	
2038	\$ 1,962	\$ 127	\$ 1,735	\$ 3,824	\$ 77	\$ 2	\$ 3,903	593,353	552	121	10	-	27	10,336,975	20,353	47,142	
2039	\$ 1,988	\$ 140	\$ 1,734	\$ 3,863	\$ 95	\$ 3	\$ 3,960	707,735	648	137	6	-	33	12,128,848	19,622	48,169	
2040	\$ 1,993	\$ 132	\$ 1,706	\$ 3,830	\$ 102	\$ 2	\$ 3,934	730,951	580	109	36	-	38	10,847,556	17,869	49,134	
2041	\$ 2,108	\$ 137	\$ 1,660	\$ 3,906	\$ 91	\$ 2	\$ 3,999	635,245	402	80	3	-	33	8,361,859	16,705	49,982	
2042	\$ 2,375	\$ 149	\$ 1,525	\$ 4,050	\$ 87	\$ 1	\$ 4,138	583,469	310	66	3	-	34	7,250,127	15,469	50,856	
2043	\$ 2,436	\$ 154	\$ 1,500	\$ 4,090	\$ 73	\$ 1	\$ 4,164	477,749	215	61	3	-	31	5,751,782	15,927	50,342	
2044	\$ 2,498	\$ 198	\$ 1,436	\$ 4,132	\$ 82	\$ 1	\$ 4,215	519,366	210	83	4	-	40	6,537,303	13,729	51,177	
2045	\$ 2,581	\$ 242	\$ 1,398	\$ 4,221	\$ 83	\$ 1	\$ 4,305	505,150	173	100	4	-	48	6,461,878	12,420	51,941	
2046	\$ 2,709	\$ 309	\$ 1,304	\$ 4,322	\$ 85	\$ 1	\$ 4,407	501,508	139	130	5	-	61	6,496,670	9,612	52,777	
2047	\$ 2,837	\$ 336	\$ 1,259	\$ 4,432	\$ 67	\$ 0	\$ 4,500	383,906	80	138	5	-	61	4,967,165	9,281	53,637	
2048	\$ 2,934	\$ 375	\$ 1,252	\$ 4,561	\$ 48	\$ 0	\$ 4,610	268,993	37	147	6	-	65	3,501,639	9,139	54,542	
2049	\$ 3,025	\$ 430	\$ 1,243	\$ 4,698	\$ 27	\$ 0	\$ 4,725	146,298	10	157	6	-	73	1,926,171	8,440	55,268	
2050	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
2051	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
2052	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
2053	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
2054	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
2055	\$ 3,340	\$ 439	\$ 1,157	\$ 4,936	\$ -	\$ -	\$ 4,936	-	-	167	6	-	71	0	8,534	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 23,872	\$ 3,774	\$ 17,161	\$ 44,808	\$ 5,523	\$ 40	\$ 50,371	65,192,447	12,030	26,308	24,017	0.23	2,062	<< 2023-2030 sum			
2023-2055								79,389,018	22,490	30,013	24,233	0.23	3,438	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 11 - With May Valley Plan (\$0CO2)										Emissions					Native Load		
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons (\$/Tons)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GWh)	Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,090	2,132	6,601	6,041	0.06	405	39,888,435	560	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,860	1,961	6,487	6,018	0.06	400	36,693,939	760	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,120	2,477	6,408	5,583	0.05	394	46,357,049	612	35,028	
2026	\$ 899	\$ 391	\$ 808	\$ 2,097	\$ 703	\$ 7	\$ 2,807	8,170,786	2,964	2,644	2,374	0.02	349	55,470,632	2,536	34,760	
2027	\$ 929	\$ 283	\$ 1,195	\$ 2,408	\$ 536	\$ 4	\$ 2,948	6,014,956	1,658	4,017	2,069	0.02	644	31,019,307	3,314	35,507	
2028	\$ 928	\$ 251	\$ 1,208	\$ 2,386	\$ 488	\$ 4	\$ 2,878	5,282,177	1,606	7,134	1,862	0.01	1,261	30,047,889	3,436	36,409	
2029	\$ 1,004	\$ 248	\$ 1,306	\$ 2,558	\$ 340	\$ 5	\$ 2,903	3,552,314	1,846	7,851	972	0.01	1,468	34,546,832	3,620	37,260	
2030	\$ 1,041	\$ 263	\$ 1,252	\$ 2,556	\$ 371	\$ 6	\$ 2,933	3,748,062	2,015	9,182	1,038	0.01	1,712	37,698,094	3,269	38,334	
2031	\$ 1,165	\$ 239	\$ 1,202	\$ 2,605	\$ 241	\$ 6	\$ 2,852	2,355,068	1,998	9,390	547	-	1,816	37,395,173	4,435	39,475	
2032	\$ 1,213	\$ 238	\$ 1,148	\$ 2,599	\$ 243	\$ 6	\$ 2,848	2,287,075	1,959	7,099	416	-	1,269	36,658,987	4,667	40,880	
2033	\$ 1,257	\$ 246	\$ 1,108	\$ 2,610	\$ 256	\$ 6	\$ 2,872	2,331,897	1,989	7,218	443	-	1,455	37,217,744	4,954	42,045	
2034	\$ 1,307	\$ 260	\$ 1,067	\$ 2,634	\$ 282	\$ 7	\$ 2,923	2,479,768	2,089	9,445	570	-	1,928	39,082,885	4,673	43,121	
2035	\$ 1,351	\$ 271	\$ 1,071	\$ 2,694	\$ 296	\$ 7	\$ 2,997	2,519,724	2,129	12,684	757	-	2,322	39,831,235	4,637	44,105	
2036	\$ 1,376	\$ 261	\$ 1,227	\$ 2,863	\$ 287	\$ 7	\$ 3,157	2,359,239	1,964	12,293	757	-	2,326	36,744,168	5,006	45,106	
2037	\$ 1,670	\$ 157	\$ 1,504	\$ 3,332	\$ 123	\$ 3	\$ 3,458	977,496	868	3,066	211	-	620	16,242,099	17,330	46,080	
2038	\$ 1,639	\$ 176	\$ 1,582	\$ 3,397	\$ 152	\$ 4	\$ 3,552	1,167,360	1,022	4,950	315	-	973	19,132,335	15,455	47,142	
2039	\$ 1,663	\$ 197	\$ 1,588	\$ 3,448	\$ 181	\$ 5	\$ 3,634	1,348,741	1,170	6,070	373	-	1,146	21,900,932	14,899	48,169	
2040	\$ 1,679	\$ 200	\$ 1,564	\$ 3,444	\$ 201	\$ 5	\$ 3,650	1,448,013	1,185	15,184	873	-	2,574	22,167,748	13,333	49,134	
2041	\$ 1,784	\$ 227	\$ 1,519	\$ 3,530	\$ 188	\$ 4	\$ 3,722	1,307,124	910	9,856	552	-	1,746	18,931,080	12,205	49,982	
2042	\$ 2,045	\$ 253	\$ 1,385	\$ 3,684	\$ 176	\$ 3	\$ 3,863	1,184,163	701	4,964	313	-	1,022	16,399,765	11,090	50,856	
2043	\$ 2,104	\$ 270	\$ 1,364	\$ 3,738	\$ 151	\$ 2	\$ 3,891	986,113	503	5,851	339	-	1,012	13,446,725	11,495	50,342	
2044	\$ 2,166	\$ 346	\$ 1,297	\$ 3,810	\$ 159	\$ 2	\$ 3,971	1,007,639	444	9,172	525	-	1,693	13,838,130	9,629	51,177	
2045	\$ 2,240	\$ 425	\$ 1,271	\$ 3,935	\$ 156	\$ 2	\$ 4,092	951,823	353	13,202	698	-	2,134	13,206,597	8,427	51,941	
2046	\$ 2,352	\$ 547	\$ 1,194	\$ 4,093	\$ 155	\$ 1	\$ 4,250	917,581	275	15,901	843	-	2,652	12,866,633	6,089	52,777	
2047	\$ 2,472	\$ 602	\$ 1,179	\$ 4,253	\$ 122	\$ 1	\$ 4,376	701,253	158	20,276	1,093	-	3,562	9,859,092	5,779	53,637	
2048	\$ 2,564	\$ 660	\$ 1,185	\$ 4,409	\$ 86	\$ 0	\$ 4,496	480,158	72	19,256	1,066	-	3,575	6,739,087	5,642	54,542	
2049	\$ 2,655	\$ 755	\$ 1,180	\$ 4,589	\$ 48	\$ 0	\$ 4,637	256,908	19	17,584	964	-	3,188	3,645,496	5,075	55,268	
2050	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
2051	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
2052	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
2053	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
2054	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
2055	\$ 3,021	\$ 753	\$ 1,099	\$ 4,873	\$ -	\$ -	\$ 4,873	-	-	24,723	1,351	-	4,527	0	5,154	56,532	
			A	B	C	A + B + C											
NPV (\$M) 2023-2055	\$ 20,416	\$ 5,128	\$ 16,368	\$ 41,911	\$ 6,637	\$ 64	\$ 48,612	71,732,364	16,658	50,324	25,958	0.23	6,632	<< 2023-2030 sum			
								98,799,507	36,466	402,125	45,716	0.23	70,809	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Year	Portfolio: [REDACTED]							Emissions								Native Load	
	Capital +			Cost of				Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)	
	Other	Fuel	O&M	TOTAL	Cost of	Methane	TOTAL							Burn	Curtailment		
	Costs	Costs	Costs	PVRR	CO2 Tons	Tons	PVSC							(MMBtu)	(GWh)		
(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)											
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,945	2,132	6,601	6,041	0.06	405	39,888,446	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,206	1,961	6,487	6,018	0.06	400	36,693,931	763	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,155	2,477	6,408	5,583	0.05	394	46,356,944	613	35,028	
2026	\$ 899	\$ 391	\$ 804	\$ 2,093	\$ 703	\$ 7	\$ 2,803	8,170,763	2,964	2,644	2,374	0.02	349	55,470,666	998	34,760	
2027	\$ 973	\$ 316	\$ 1,099	\$ 2,388	\$ 590	\$ 5	\$ 2,983	6,613,973	2,027	3,098	2,090	0.02	459	37,936,016	1,916	35,507	
2028	\$ 1,045	\$ 286	\$ 1,052	\$ 2,383	\$ 546	\$ 5	\$ 2,934	5,912,974	2,022	4,454	1,742	0.02	833	37,841,926	1,633	36,409	
2029	\$ 1,167	\$ 266	\$ 1,165	\$ 2,598	\$ 366	\$ 5	\$ 2,970	3,829,822	2,061	2,698	662	0.01	661	38,576,310	2,531	37,260	
2030	\$ 1,205	\$ 283	\$ 1,130	\$ 2,617	\$ 402	\$ 6	\$ 3,025	4,062,466	2,256	3,788	712	0.01	834	42,222,954	2,282	38,334	
2031	\$ 1,327	\$ 257	\$ 1,095	\$ 2,679	\$ 269	\$ 6	\$ 2,955	2,628,670	2,217	5,389	307	-	1,169	41,487,954	3,299	39,475	
2032	\$ 1,376	\$ 256	\$ 1,063	\$ 2,695	\$ 271	\$ 7	\$ 2,973	2,555,331	2,174	5,528	316	-	1,062	40,688,555	3,501	40,880	
2033	\$ 1,419	\$ 264	\$ 1,043	\$ 2,725	\$ 284	\$ 7	\$ 3,016	2,583,318	2,191	5,285	334	-	1,283	40,999,470	3,738	42,045	
2034	\$ 1,469	\$ 280	\$ 1,017	\$ 2,766	\$ 312	\$ 8	\$ 3,085	2,746,672	2,304	7,379	461	-	1,637	43,115,696	3,483	43,121	
2035	\$ 1,513	\$ 292	\$ 1,033	\$ 2,838	\$ 328	\$ 8	\$ 3,174	2,792,258	2,345	9,126	610	-	2,061	43,881,449	3,485	44,105	
2036	\$ 1,537	\$ 282	\$ 1,171	\$ 2,990	\$ 318	\$ 8	\$ 3,316	2,617,396	2,172	9,111	607	-	2,189	40,651,297	3,794	45,106	
2037	\$ 1,827	\$ 161	\$ 1,318	\$ 3,306	\$ 131	\$ 3	\$ 3,441	1,042,926	911	2,026	132	-	447	17,056,032	15,511	46,080	
2038	\$ 1,794	\$ 183	\$ 1,313	\$ 3,290	\$ 162	\$ 4	\$ 3,457	1,247,937	1,087	3,332	229	-	859	20,333,644	13,629	47,142	
2039	\$ 1,819	\$ 204	\$ 1,293	\$ 3,316	\$ 193	\$ 5	\$ 3,514	1,438,147	1,236	4,569	269	-	1,011	23,132,087	13,224	48,169	
2040	\$ 1,834	\$ 209	\$ 1,275	\$ 3,318	\$ 215	\$ 5	\$ 3,538	1,550,075	1,261	9,415	618	-	2,160	23,596,647	11,699	49,134	
2041	\$ 1,945	\$ 237	\$ 1,234	\$ 3,416	\$ 202	\$ 4	\$ 3,622	1,405,670	971	7,457	432	-	1,660	20,181,053	10,638	49,982	
2042	\$ 2,213	\$ 270	\$ 1,106	\$ 3,589	\$ 191	\$ 3	\$ 3,783	1,285,670	762	3,503	211	-	873	17,825,324	9,567	50,856	
2043	\$ 2,283	\$ 288	\$ 1,089	\$ 3,660	\$ 164	\$ 3	\$ 3,827	1,070,927	547	3,902	235	-	963	14,617,619	9,966	50,342	
2044	\$ 2,336	\$ 372	\$ 1,025	\$ 3,733	\$ 174	\$ 2	\$ 3,909	1,098,304	484	6,468	405	-	1,676	15,091,367	8,185	51,177	
2045	\$ 2,409	\$ 460	\$ 1,004	\$ 3,872	\$ 170	\$ 2	\$ 4,044	1,039,587	387	9,437	577	-	2,324	14,483,366	7,074	51,941	
2046	\$ 2,527	\$ 596	\$ 932	\$ 4,055	\$ 170	\$ 2	\$ 4,226	1,006,121	303	10,883	693	-	2,888	14,168,767	4,818	52,777	
2047	\$ 2,667	\$ 655	\$ 922	\$ 4,244	\$ 134	\$ 1	\$ 4,379	768,217	173	16,180	961	-	3,737	10,822,276	4,544	53,637	
2048	\$ 2,779	\$ 725	\$ 930	\$ 4,433	\$ 95	\$ 0	\$ 4,529	529,711	80	14,278	854	-	3,362	7,467,241	4,457	54,542	
2049	\$ 2,847	\$ 831	\$ 928	\$ 4,606	\$ 52	\$ 0	\$ 4,659	283,013	22	13,364	852	-	3,544	4,046,954	3,917	55,268	
2050	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
2051	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
2052	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
2053	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
2054	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
2055	\$ 3,217	\$ 832	\$ 852	\$ 4,901	\$ -	\$ -	\$ 4,901	-	-	20,766	1,322	-	5,425	0	3,968	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 22,103	\$ 5,433	\$ 14,527	\$ 42,063	\$ 6,899	\$ 69	\$ 49,030	73,554,305	17,901	36,179	25,222	0.23	4,336	<< 2023-2030 sum			
2023-2055								103,244,257	39,528	307,406	42,257	0.23	71,789	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 B Hydrogen Fuel Cell (\$OCO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 (\$/Tons)	Methane Tons	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GWh)	Energy Forecast (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,190	2,132	6,601	6,041	0.06	405	39,888,443	560	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,934	1,961	6,487	6,018	0.06	400	36,693,938	764	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,204	2,477	6,408	5,583	0.05	394	46,357,064	613	35,028	
2026	\$ 900	\$ 389	\$ 790	\$ 2,078	\$ 702	\$ 7	\$ 2,787	8,157,128	2,937	2,642	2,376	0.02	348	54,962,009	977	34,760	
2027	\$ 979	\$ 313	\$ 1,100	\$ 2,392	\$ 587	\$ 5	\$ 2,984	6,581,707	1,993	2,906	2,072	0.02	411	37,302,835	1,841	35,507	
2028	\$ 1,050	\$ 284	\$ 1,053	\$ 2,388	\$ 544	\$ 5	\$ 2,936	5,888,338	1,995	3,659	1,701	0.02	690	37,341,158	1,576	36,409	
2029	\$ 1,173	\$ 263	\$ 1,166	\$ 2,603	\$ 363	\$ 5	\$ 2,971	3,802,061	2,035	2,312	632	0.01	532	38,082,223	2,469	37,260	
2030	\$ 1,211	\$ 280	\$ 1,130	\$ 2,622	\$ 399	\$ 6	\$ 3,027	4,033,092	2,229	3,100	677	0.01	720	41,702,337	2,215	38,334	
2031	\$ 1,333	\$ 255	\$ 1,095	\$ 2,683	\$ 267	\$ 6	\$ 2,957	2,603,479	2,194	4,077	260	-	1,125	41,054,542	3,241	39,475	
2032	\$ 1,382	\$ 255	\$ 1,063	\$ 2,700	\$ 269	\$ 7	\$ 2,975	2,532,381	2,154	3,833	261	-	1,020	40,300,054	3,449	40,880	
2033	\$ 1,425	\$ 262	\$ 1,043	\$ 2,730	\$ 281	\$ 7	\$ 3,018	2,560,075	2,170	4,444	274	-	1,076	40,614,573	3,684	42,045	
2034	\$ 1,475	\$ 278	\$ 1,017	\$ 2,770	\$ 310	\$ 8	\$ 3,088	2,724,074	2,284	6,729	422	-	1,501	42,736,350	3,438	43,121	
2035	\$ 1,519	\$ 290	\$ 1,034	\$ 2,842	\$ 326	\$ 8	\$ 3,176	2,769,720	2,323	7,926	533	-	1,812	43,466,601	3,436	44,105	
2036	\$ 1,544	\$ 280	\$ 1,171	\$ 2,995	\$ 316	\$ 8	\$ 3,318	2,595,269	2,151	8,052	527	-	1,846	40,255,833	3,748	45,106	
2037	\$ 1,833	\$ 160	\$ 1,317	\$ 3,310	\$ 129	\$ 3	\$ 3,443	1,025,128	894	1,758	112	-	365	16,734,289	15,455	46,080	
2038	\$ 1,800	\$ 181	\$ 1,312	\$ 3,294	\$ 160	\$ 4	\$ 3,458	1,228,135	1,068	3,289	206	-	723	19,977,472	13,585	47,142	
2039	\$ 1,826	\$ 202	\$ 1,291	\$ 3,319	\$ 191	\$ 5	\$ 3,515	1,418,697	1,219	3,477	218	-	876	22,811,506	13,197	48,169	
2040	\$ 1,839	\$ 207	\$ 1,273	\$ 3,318	\$ 212	\$ 5	\$ 3,536	1,527,969	1,242	8,229	557	-	1,998	23,239,767	11,653	49,134	
2041	\$ 1,952	\$ 234	\$ 1,232	\$ 3,418	\$ 199	\$ 4	\$ 3,621	1,384,745	952	6,713	385	-	1,473	19,793,988	10,598	49,982	
2042	\$ 2,220	\$ 267	\$ 1,105	\$ 3,591	\$ 188	\$ 3	\$ 3,783	1,268,878	750	3,082	158	-	574	17,551,782	9,521	50,856	
2043	\$ 2,290	\$ 284	\$ 1,087	\$ 3,662	\$ 162	\$ 3	\$ 3,827	1,056,423	538	3,202	192	-	790	14,372,765	9,920	50,342	
2044	\$ 2,344	\$ 367	\$ 1,024	\$ 3,735	\$ 172	\$ 2	\$ 3,909	1,085,844	477	5,764	322	-	1,220	14,875,705	8,144	51,177	
2045	\$ 2,414	\$ 455	\$ 1,002	\$ 3,871	\$ 168	\$ 2	\$ 4,041	1,029,099	382	8,246	485	-	1,897	14,308,322	7,032	51,941	
2046	\$ 2,534	\$ 590	\$ 939	\$ 4,063	\$ 168	\$ 2	\$ 4,233	997,473	300	9,097	562	-	2,301	14,016,047	4,800	52,777	
2047	\$ 2,674	\$ 649	\$ 932	\$ 4,254	\$ 133	\$ 1	\$ 4,387	761,641	172	14,257	842	-	3,272	10,711,107	4,501	53,637	
2048	\$ 2,785	\$ 718	\$ 940	\$ 4,443	\$ 94	\$ 0	\$ 4,538	525,537	79	12,487	725	-	2,792	7,396,645	4,414	54,542	
2049	\$ 2,853	\$ 824	\$ 939	\$ 4,616	\$ 52	\$ 0	\$ 4,668	280,910	21	12,186	707	-	2,730	4,011,219	3,873	55,268	
2050	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
2051	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
2052	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
2053	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
2054	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
2055	\$ 3,215	\$ 827	\$ 863	\$ 4,904	\$ -	\$ -	\$ 4,904	-	-	17,889	1,075	-	4,229	0	3,936	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 22,164	\$ 5,399	\$ 14,533	\$ 42,096	\$ 6,874	\$ 68	\$ 49,038	73,426,654	17,759	34,114	25,100	0.23	3,901	<< 2023-2030 sum			
								102,802,130	39,129	268,298	39,298	0.23	58,667	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Year	Portfolio: [REDACTED]								Emissions							Native Load	
	Capital +				Cost of											Forecast	
	Other		O&M		TOTAL	Cost of		Methane									
	Costs	Fuel Costs	Costs	PVRR	CO2	Tons	Tons	Tons	Methane	NOX	SOX	HG	PM_10	Natural Gas	Curtailement	Energy	
(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(\$M)	(tons)	(tons)	(tons)	(tons)	(tons)	(MMBtu)	(GW/h)	(GW/h)		
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,542	2,132	6,601	6,041	0.06	405	39,888,435	558	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,110	1,961	6,487	6,018	0.06	400	36,693,924	763	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,005	2,477	6,408	5,583	0.05	394	46,357,052	613	35,028	
2026	\$ 899	\$ 389	\$ 790	\$ 2,078	\$ 703	\$ 7	\$ 2,787	8,161,173	2,943	2,642	2,375	0.02	349	55,063,939	987	34,760	
2027	\$ 993	\$ 309	\$ 1,100	\$ 2,402	\$ 583	\$ 5	\$ 2,990	6,544,103	1,947	2,661	2,055	0.02	352	36,433,815	1,670	35,507	
2028	\$ 1,065	\$ 281	\$ 1,053	\$ 2,398	\$ 541	\$ 5	\$ 2,944	5,855,979	1,959	2,596	1,640	0.02	448	36,654,632	1,435	36,409	
2029	\$ 1,184	\$ 263	\$ 1,165	\$ 2,612	\$ 363	\$ 5	\$ 2,981	3,801,911	2,029	2,086	613	0.01	452	37,977,318	2,209	37,260	
2030	\$ 1,221	\$ 280	\$ 1,130	\$ 2,631	\$ 400	\$ 6	\$ 3,037	4,038,715	2,228	2,409	638	0.01	577	41,685,112	1,985	38,334	
2031	\$ 1,343	\$ 255	\$ 1,095	\$ 2,693	\$ 267	\$ 6	\$ 2,966	2,604,282	2,189	3,369	195	-	801	40,965,800	2,997	39,475	
2032	\$ 1,392	\$ 254	\$ 1,063	\$ 2,709	\$ 269	\$ 7	\$ 2,984	2,532,466	2,151	3,407	221	-	825	40,242,441	3,179	40,880	
2033	\$ 1,435	\$ 262	\$ 1,043	\$ 2,740	\$ 281	\$ 7	\$ 3,028	2,560,565	2,168	4,883	252	-	856	40,572,575	3,418	42,045	
2034	\$ 1,485	\$ 278	\$ 1,017	\$ 2,780	\$ 310	\$ 8	\$ 3,098	2,727,655	2,284	6,286	396	-	1,414	42,736,496	3,176	43,121	
2035	\$ 1,529	\$ 289	\$ 1,034	\$ 2,852	\$ 326	\$ 8	\$ 3,186	2,772,784	2,321	7,292	491	-	1,665	43,430,264	3,183	44,105	
2036	\$ 1,554	\$ 279	\$ 1,171	\$ 3,004	\$ 316	\$ 8	\$ 3,328	2,597,705	2,148	7,064	480	-	1,719	40,192,723	3,502	45,106	
2037	\$ 1,837	\$ 158	\$ 1,317	\$ 3,312	\$ 127	\$ 3	\$ 3,442	1,006,797	878	1,589	96	-	315	16,426,764	15,042	46,080	
2038	\$ 1,807	\$ 179	\$ 1,312	\$ 3,298	\$ 157	\$ 4	\$ 3,459	1,208,529	1,047	2,801	176	-	642	19,592,610	13,235	47,142	
2039	\$ 1,834	\$ 200	\$ 1,291	\$ 3,325	\$ 188	\$ 5	\$ 3,519	1,401,310	1,203	2,852	152	-	535	22,510,987	12,838	48,169	
2040	\$ 1,844	\$ 205	\$ 1,273	\$ 3,321	\$ 209	\$ 5	\$ 3,536	1,506,802	1,223	7,619	495	-	1,694	22,877,159	11,292	49,134	
2041	\$ 1,960	\$ 231	\$ 1,232	\$ 3,423	\$ 196	\$ 4	\$ 3,624	1,366,886	935	6,334	358	-	1,354	19,432,147	10,251	49,982	
2042	\$ 2,228	\$ 264	\$ 1,105	\$ 3,597	\$ 186	\$ 3	\$ 3,787	1,256,580	740	2,147	118	-	476	17,314,515	9,203	50,856	
2043	\$ 2,299	\$ 281	\$ 1,087	\$ 3,667	\$ 160	\$ 3	\$ 3,830	1,043,996	529	3,126	177	-	696	14,128,516	9,601	50,342	
2044	\$ 2,353	\$ 364	\$ 1,024	\$ 3,740	\$ 171	\$ 2	\$ 3,913	1,077,773	471	4,887	292	-	1,178	14,695,717	7,842	51,177	
2045	\$ 2,422	\$ 452	\$ 1,002	\$ 3,875	\$ 167	\$ 2	\$ 4,045	1,024,183	379	7,648	440	-	1,696	14,191,159	6,747	51,941	
2046	\$ 2,541	\$ 588	\$ 939	\$ 4,068	\$ 168	\$ 2	\$ 4,237	995,910	298	9,528	532	-	1,996	13,954,528	4,548	52,777	
2047	\$ 2,679	\$ 646	\$ 931	\$ 4,256	\$ 132	\$ 1	\$ 4,390	760,258	171	13,582	803	-	3,130	10,659,721	4,245	53,637	
2048	\$ 2,790	\$ 717	\$ 940	\$ 4,447	\$ 94	\$ 0	\$ 4,542	525,489	79	12,005	682	-	2,578	7,376,944	4,149	54,542	
2049	\$ 2,859	\$ 822	\$ 939	\$ 4,620	\$ 52	\$ 0	\$ 4,672	280,913	21	11,626	687	-	2,703	4,002,472	3,631	55,268	
2050	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
2051	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
2052	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
2053	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
2054	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
2055	\$ 3,213	\$ 827	\$ 863	\$ 4,903	\$ -	\$ -	\$ 4,903	-	-	17,971	1,047	-	4,006	0	3,711	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 22,254	\$ 5,384	\$ 14,530	\$ 42,168	\$ 6,864	\$ 68	\$ 49,100	73,366,537	17,675	31,891	24,964	0.23	3,376	<< 2023-2030 sum			
2023-2055								102,617,420	38,909	257,762	38,287	0.23	53,682	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 D Geothermal (\$0CO2)										Emissions					Native Load		
Year	Capital +				Cost of		Methane Tons	TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	CO2 (\$M)	Cost of Tons (\$M)									Burn (MMBtu)	Curtailement (GWh)	
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,945	2,132	6,601	6,041	0.06	405	39,888,446	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,169	1,961	6,487	6,018	0.06	400	36,693,920	765	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,252	2,477	6,408	5,583	0.05	394	46,357,074	613	35,028	
2026	\$ 905	\$ 388	\$ 790	\$ 2,083	\$ 702	\$ 7	\$ 2,792	8,149,989	2,934	2,639	2,373	0.02	348	54,906,904	992	34,760	
2027	\$ 979	\$ 315	\$ 1,100	\$ 2,394	\$ 588	\$ 5	\$ 2,987	6,598,920	2,013	3,020	2,084	0.02	460	37,661,518	1,911	35,507	
2028	\$ 1,051	\$ 285	\$ 1,053	\$ 2,389	\$ 545	\$ 5	\$ 2,939	5,900,140	2,011	4,548	1,732	0.02	744	37,639,820	1,637	36,409	
2029	\$ 1,174	\$ 265	\$ 1,166	\$ 2,604	\$ 365	\$ 5	\$ 2,975	3,818,335	2,051	2,567	647	0.01	585	38,374,227	2,536	37,260	
2030	\$ 1,211	\$ 282	\$ 1,130	\$ 2,623	\$ 401	\$ 6	\$ 3,030	4,050,341	2,245	3,620	700	0.01	782	42,012,735	2,194	38,334	
2031	\$ 1,333	\$ 256	\$ 1,095	\$ 2,685	\$ 268	\$ 6	\$ 2,959	2,617,866	2,208	4,785	287	-	1,150	41,316,871	3,313	39,475	
2032	\$ 1,382	\$ 256	\$ 1,064	\$ 2,701	\$ 270	\$ 7	\$ 2,977	2,545,325	2,166	4,584	285	-	1,036	40,532,344	3,514	40,880	
2033	\$ 1,425	\$ 263	\$ 1,043	\$ 2,731	\$ 283	\$ 7	\$ 3,021	2,573,139	2,183	4,839	301	-	1,174	40,845,339	3,747	42,045	
2034	\$ 1,475	\$ 279	\$ 1,017	\$ 2,771	\$ 311	\$ 8	\$ 3,090	2,735,904	2,295	7,113	441	-	1,557	42,946,043	3,494	43,121	
2035	\$ 1,519	\$ 291	\$ 1,034	\$ 2,843	\$ 327	\$ 8	\$ 3,178	2,781,617	2,335	8,359	561	-	1,901	43,693,741	3,494	44,105	
2036	\$ 1,543	\$ 281	\$ 1,171	\$ 2,995	\$ 317	\$ 8	\$ 3,320	2,607,732	2,164	8,486	554	-	1,948	40,496,072	3,802	45,106	
2037	\$ 1,833	\$ 161	\$ 1,318	\$ 3,312	\$ 131	\$ 3	\$ 3,446	1,037,597	906	1,572	121	-	459	16,953,455	15,528	46,080	
2038	\$ 1,800	\$ 183	\$ 1,312	\$ 3,294	\$ 162	\$ 4	\$ 3,460	1,241,791	1,081	3,208	222	-	849	20,226,699	13,643	47,142	
2039	\$ 1,825	\$ 203	\$ 1,291	\$ 3,320	\$ 193	\$ 5	\$ 3,517	1,431,571	1,230	4,025	247	-	973	23,024,655	13,246	48,169	
2040	\$ 1,839	\$ 208	\$ 1,273	\$ 3,320	\$ 214	\$ 5	\$ 3,540	1,542,627	1,255	9,074	588	-	2,029	23,482,250	11,716	49,134	
2041	\$ 1,951	\$ 236	\$ 1,232	\$ 3,420	\$ 201	\$ 4	\$ 3,625	1,398,440	964	6,776	395	-	1,533	20,047,299	10,654	49,982	
2042	\$ 2,219	\$ 269	\$ 1,105	\$ 3,592	\$ 190	\$ 3	\$ 3,786	1,279,570	758	2,712	176	-	784	17,729,919	9,587	50,856	
2043	\$ 2,289	\$ 287	\$ 1,088	\$ 3,664	\$ 163	\$ 3	\$ 3,830	1,066,100	544	3,253	197	-	820	14,540,693	9,979	50,342	
2044	\$ 2,342	\$ 370	\$ 1,024	\$ 3,737	\$ 173	\$ 2	\$ 3,912	1,093,806	481	6,135	340	-	1,270	15,016,323	8,203	51,177	
2045	\$ 2,414	\$ 458	\$ 1,002	\$ 3,874	\$ 169	\$ 2	\$ 4,045	1,035,322	385	8,302	496	-	1,967	14,415,493	7,098	51,941	
2046	\$ 2,533	\$ 594	\$ 939	\$ 4,066	\$ 169	\$ 2	\$ 4,236	1,002,329	302	9,576	579	-	2,329	14,105,959	4,853	52,777	
2047	\$ 2,672	\$ 652	\$ 932	\$ 4,256	\$ 133	\$ 1	\$ 4,390	765,363	173	14,577	862	-	3,351	10,778,270	4,556	53,637	
2048	\$ 2,782	\$ 722	\$ 940	\$ 4,445	\$ 95	\$ 0	\$ 4,540	527,792	79	12,548	746	-	2,933	7,437,641	4,457	54,542	
2049	\$ 2,852	\$ 828	\$ 939	\$ 4,618	\$ 52	\$ 0	\$ 4,671	282,018	22	12,018	710	-	2,793	4,031,598	3,926	55,268	
2050	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
2051	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
2052	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
2053	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
2054	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
2055	\$ 3,217	\$ 830	\$ 863	\$ 4,910	\$ -	\$ -	\$ 4,910	-	-	18,537	1,102	-	4,291	0	3,979	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 22,168	\$ 5,418	\$ 14,534	\$ 42,120	\$ 6,887	\$ 69	\$ 49,076	73,482,091	17,824	35,891	25,179	0.23	4,118	<< 2023-2030 sum			
								103,048,002	39,354	279,054	39,899	0.23	60,721	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 12 - Section 123 E Biomass (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailement (GW/h)	Forecast Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 Tons (\$M)	Methane Tons (\$M)	TOTAL (\$M)										
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,313,945	2,132	6,601	6,041	0.06	405	39,888,446	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,169	1,961	6,487	6,018	0.06	400	36,693,920	765	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,530,256	2,477	6,408	5,583	0.05	394	46,357,121	613	35,028	
2026	\$ 899	\$ 389	\$ 790	\$ 2,078	\$ 703	\$ 7	\$ 2,787	8,161,299	2,943	2,642	2,375	0.02	349	55,067,621	988	34,760	
2027	\$ 973	\$ 315	\$ 1,100	\$ 2,388	\$ 589	\$ 5	\$ 2,983	6,608,295	2,019	2,985	2,086	0.02	472	37,788,637	1,912	35,507	
2028	\$ 1,045	\$ 286	\$ 1,053	\$ 2,384	\$ 546	\$ 5	\$ 2,935	5,908,918	2,018	4,449	1,733	0.02	773	37,758,510	1,629	36,409	
2029	\$ 1,167	\$ 265	\$ 1,166	\$ 2,599	\$ 366	\$ 5	\$ 2,970	3,825,834	2,057	2,538	648	0.01	599	38,489,050	2,534	37,260	
2030	\$ 1,205	\$ 282	\$ 1,130	\$ 2,618	\$ 402	\$ 6	\$ 3,025	4,058,369	2,252	3,651	702	0.01	786	42,145,757	2,275	38,334	
2031	\$ 1,327	\$ 257	\$ 1,095	\$ 2,679	\$ 269	\$ 6	\$ 2,955	2,625,395	2,214	4,563	291	-	1,221	41,434,369	3,296	39,475	
2032	\$ 1,376	\$ 256	\$ 1,064	\$ 2,695	\$ 271	\$ 7	\$ 2,973	2,552,645	2,172	4,678	288	-	1,035	40,646,422	3,503	40,880	
2033	\$ 1,419	\$ 264	\$ 1,043	\$ 2,725	\$ 283	\$ 7	\$ 3,016	2,580,211	2,188	4,977	305	-	1,167	40,952,318	3,735	42,045	
2034	\$ 1,469	\$ 280	\$ 1,017	\$ 2,766	\$ 312	\$ 8	\$ 3,085	2,743,257	2,301	7,023	445	-	1,602	43,063,318	3,482	43,121	
2035	\$ 1,513	\$ 291	\$ 1,034	\$ 2,838	\$ 328	\$ 8	\$ 3,174	2,789,415	2,342	8,332	566	-	1,940	43,819,214	3,483	44,105	
2036	\$ 1,537	\$ 281	\$ 1,171	\$ 2,990	\$ 318	\$ 8	\$ 3,316	2,614,659	2,170	8,749	560	-	1,935	40,602,764	3,791	45,106	
2037	\$ 1,827	\$ 161	\$ 1,318	\$ 3,306	\$ 131	\$ 3	\$ 3,440	1,040,894	909	2,069	122	-	364	17,006,272	15,509	46,080	
2038	\$ 1,793	\$ 183	\$ 1,312	\$ 3,289	\$ 162	\$ 4	\$ 3,455	1,245,815	1,084	3,727	224	-	750	20,292,363	13,626	47,142	
2039	\$ 1,819	\$ 204	\$ 1,291	\$ 3,314	\$ 193	\$ 5	\$ 3,512	1,435,909	1,234	3,924	250	-	1,018	23,091,146	13,224	48,169	
2040	\$ 1,833	\$ 209	\$ 1,273	\$ 3,315	\$ 215	\$ 5	\$ 3,535	1,547,290	1,259	9,223	592	-	2,029	23,555,323	11,700	49,134	
2041	\$ 1,945	\$ 237	\$ 1,232	\$ 3,414	\$ 201	\$ 4	\$ 3,620	1,402,684	967	7,080	398	-	1,491	20,114,749	10,637	49,982	
2042	\$ 2,213	\$ 269	\$ 1,105	\$ 3,587	\$ 190	\$ 3	\$ 3,781	1,283,500	760	3,182	179	-	707	17,788,131	9,571	50,856	
2043	\$ 2,283	\$ 288	\$ 1,088	\$ 3,658	\$ 164	\$ 3	\$ 3,825	1,069,350	546	3,501	198	-	773	14,591,478	9,962	50,342	
2044	\$ 2,336	\$ 371	\$ 1,024	\$ 3,731	\$ 174	\$ 2	\$ 3,907	1,096,889	483	5,605	343	-	1,403	15,067,024	8,186	51,177	
2045	\$ 2,408	\$ 459	\$ 1,002	\$ 3,869	\$ 170	\$ 2	\$ 4,041	1,038,340	386	8,370	500	-	1,986	14,462,081	7,082	51,941	
2046	\$ 2,528	\$ 595	\$ 939	\$ 4,062	\$ 170	\$ 2	\$ 4,233	1,005,031	302	9,913	582	-	2,282	14,148,789	4,837	52,777	
2047	\$ 2,666	\$ 654	\$ 932	\$ 4,252	\$ 134	\$ 1	\$ 4,386	767,418	173	14,379	866	-	3,425	10,809,807	4,544	53,637	
2048	\$ 2,777	\$ 724	\$ 940	\$ 4,441	\$ 95	\$ 0	\$ 4,537	529,162	80	12,383	750	-	2,999	7,459,242	4,447	54,542	
2049	\$ 2,846	\$ 830	\$ 939	\$ 4,614	\$ 52	\$ 0	\$ 4,667	282,752	22	11,999	714	-	2,821	4,043,097	3,915	55,268	
2050	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
2051	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
2052	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
2053	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
2054	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
2055	\$ 3,213	\$ 832	\$ 863	\$ 4,907	\$ -	\$ -	\$ 4,907	-	-	19,145	1,111	-	4,230	0	3,967	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 22,098	\$ 5,427	\$ 14,535	\$ 42,060	\$ 6,895	\$ 69	\$ 49,023	73,527,085	17,859	35,761	25,187	0.23	4,178	<< 2023-2030 sum			
2023-2055								103,177,700	39,452	284,306	40,025	0.23	60,507	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 0 - Reference Case Plan (\$0CO2) - with Prospective New Load										Emissions					Native Load		
Year	Capital +			Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas		Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	Cost of CO2 (\$M)	Methane Tons (\$M)								Burn (MMBtu)	Curtailement (GW/h)		
2023	\$ 760	\$ 481	\$ 735	\$ 1,975	\$ 1,177	\$ 4	\$ 3,156	15,213,090	2,085	6,574	6,025	0.06	402	39,011,935	852	33,906	
2024	\$ 831	\$ 440	\$ 745	\$ 2,016	\$ 1,212	\$ 4	\$ 3,232	15,120,305	1,961	6,487	6,018	0.06	400	36,693,942	746	34,410	
2025	\$ 862	\$ 433	\$ 762	\$ 2,057	\$ 1,235	\$ 5	\$ 3,297	14,860,137	2,388	6,496	5,733	0.05	416	44,682,780	546	35,028	
2026	\$ 900	\$ 357	\$ 739	\$ 1,996	\$ 946	\$ 4	\$ 2,947	10,991,721	1,905	3,561	4,329	0.04	350	35,644,008	2,735	35,826	
2027	\$ 949	\$ 288	\$ 1,151	\$ 2,388	\$ 839	\$ 3	\$ 3,230	9,406,427	1,036	3,663	4,101	0.04	361	19,383,496	3,305	37,056	
2028	\$ 1,007	\$ 254	\$ 1,211	\$ 2,472	\$ 812	\$ 2	\$ 3,286	8,788,850	902	3,014	3,768	0.04	267	16,877,447	3,521	37,959	
2029	\$ 1,106	\$ 249	\$ 1,291	\$ 2,646	\$ 704	\$ 3	\$ 3,353	7,364,824	978	2,617	2,984	0.04	264	18,306,752	3,622	38,810	
2030	\$ 1,141	\$ 264	\$ 1,236	\$ 2,641	\$ 762	\$ 3	\$ 3,406	7,704,065	1,043	3,094	3,104	0.04	396	19,511,827	3,236	39,883	
2031	\$ 1,210	\$ 261	\$ 1,251	\$ 2,722	\$ 765	\$ 3	\$ 3,490	7,464,282	1,032	2,498	2,972	0.04	272	19,312,148	3,531	41,025	
2032	\$ 1,259	\$ 263	\$ 1,203	\$ 2,725	\$ 788	\$ 3	\$ 3,515	7,425,809	999	2,318	2,944	0.04	266	18,687,515	4,194	42,430	
2033	\$ 1,301	\$ 271	\$ 1,164	\$ 2,736	\$ 806	\$ 3	\$ 3,545	7,337,515	1,039	2,213	2,901	0.04	228	19,434,319	4,126	43,595	
2034	\$ 1,361	\$ 276	\$ 1,125	\$ 2,763	\$ 853	\$ 3	\$ 3,620	7,510,361	978	2,788	3,004	0.04	307	18,294,688	4,629	44,671	
2035	\$ 1,414	\$ 281	\$ 1,132	\$ 2,826	\$ 850	\$ 4	\$ 3,679	7,227,873	1,023	3,995	2,913	0.04	524	19,141,287	4,796	45,654	
2036	\$ 1,430	\$ 286	\$ 1,293	\$ 3,008	\$ 902	\$ 3	\$ 3,914	7,417,962	943	3,683	2,995	0.04	459	17,645,307	4,727	46,656	
2037	\$ 1,772	\$ 191	\$ 1,555	\$ 3,519	\$ 615	\$ 1	\$ 4,134	4,887,333	236	1,858	2,175	0.03	190	4,408,938	19,654	47,630	
2038	\$ 1,731	\$ 209	\$ 1,628	\$ 3,569	\$ 695	\$ 1	\$ 4,265	5,344,881	293	1,931	2,331	0.03	196	5,484,681	17,988	48,691	
2039	\$ 1,755	\$ 220	\$ 1,632	\$ 3,608	\$ 721	\$ 2	\$ 4,331	5,365,253	378	2,098	2,328	0.03	225	7,071,233	17,161	49,719	
2040	\$ 1,756	\$ 244	\$ 1,609	\$ 3,609	\$ 795	\$ 2	\$ 4,405	5,715,939	479	3,141	2,448	0.03	324	8,972,292	15,819	50,684	
2041	\$ 1,851	\$ 249	\$ 1,588	\$ 3,688	\$ 799	\$ 1	\$ 4,489	5,562,477	338	2,494	2,405	0.03	261	7,017,782	14,456	51,532	
2042	\$ 2,127	\$ 254	\$ 1,459	\$ 3,841	\$ 533	\$ 2	\$ 4,375	3,590,935	416	3,390	1,178	0.02	497	9,728,346	12,471	52,405	
2043	\$ 2,187	\$ 260	\$ 1,405	\$ 3,852	\$ 496	\$ 1	\$ 4,349	3,233,723	301	4,384	1,150	0.01	723	8,036,531	12,736	51,891	
2044	\$ 2,242	\$ 321	\$ 1,397	\$ 3,959	\$ 565	\$ 1	\$ 4,525	3,567,469	271	7,087	1,394	0.02	1,124	8,466,291	10,927	52,727	
2045	\$ 2,370	\$ 436	\$ 1,303	\$ 4,109	\$ 161	\$ 2	\$ 4,272	982,289	364	14,643	764	-	2,599	13,607,716	8,294	53,491	
2046	\$ 2,448	\$ 530	\$ 1,213	\$ 4,192	\$ 149	\$ 1	\$ 4,343	885,910	265	10,720	592	-	2,158	12,417,425	6,519	53,261	
2047	\$ 2,587	\$ 536	\$ 1,185	\$ 4,308	\$ 108	\$ 1	\$ 4,416	618,064	138	13,237	707	-	2,472	8,635,158	6,865	53,637	
2048	\$ 2,706	\$ 591	\$ 1,187	\$ 4,484	\$ 77	\$ 0	\$ 4,561	427,729	64	11,651	586	-	1,927	5,962,026	6,825	54,542	
2049	\$ 2,810	\$ 671	\$ 1,182	\$ 4,663	\$ 42	\$ 0	\$ 4,705	227,859	17	10,456	548	-	1,905	3,202,009	6,079	55,268	
2050	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
2051	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
2052	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
2053	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
2054	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
2055	\$ 3,023	\$ 921	\$ 1,107	\$ 5,051	\$ -	\$ -	\$ 5,051	-	-	11,945	644	-	2,287	0	6,053	56,532	
				A	B	C	A + B + C										
NPV (\$M) 2023-2055	\$ 21,155	\$ 5,332	\$ 16,586	\$ 43,073	\$ 10,918	\$ 39	\$ 54,031	89,449,419	12,297	35,507	36,062	0.37	2,855	<< 2023-2030 sum			
								174,243,082	21,869	211,762	76,261	0.79	33,237	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 1 - Preferred Plan (\$0CO2) - with Prospective New Load										Emissions						Native Load	
Year	Capital +			TOTAL PVRR	Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy (GWh)
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)		CO2 (\$M)	Methane Tons (\$M)	TOTAL (\$M)										
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,484	2,132	6,601	6,041	0.06	405	39,888,439	561	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,119,541	1,961	6,487	6,018	0.06	400	36,693,939	764	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,529,902	2,477	6,408	5,583	0.05	394	46,357,053	613	35,028	
2026	\$ 906	\$ 402	\$ 749	\$ 2,058	\$ 725	\$ 7	\$ 2,790	8,417,917	3,099	2,720	2,449	0.02	361	58,000,116	2,390	35,826	
2027	\$ 987	\$ 292	\$ 1,191	\$ 2,471	\$ 554	\$ 4	\$ 3,029	6,213,085	1,754	2,879	2,028	0.02	407	32,823,133	2,795	37,056	
2028	\$ 1,068	\$ 234	\$ 1,248	\$ 2,550	\$ 467	\$ 4	\$ 3,021	5,054,770	1,410	2,418	1,603	0.01	370	26,381,125	3,736	37,959	
2029	\$ 1,188	\$ 226	\$ 1,347	\$ 2,762	\$ 311	\$ 4	\$ 3,077	3,250,723	1,581	2,386	680	0.01	555	29,590,689	4,257	38,810	
2030	\$ 1,225	\$ 239	\$ 1,290	\$ 2,753	\$ 338	\$ 5	\$ 3,096	3,414,309	1,721	1,814	645	0.01	429	32,198,987	3,816	39,883	
2031	\$ 1,349	\$ 220	\$ 1,226	\$ 2,795	\$ 215	\$ 5	\$ 3,015	2,098,520	1,776	3,187	209	-	646	33,239,088	5,211	41,025	
2032	\$ 1,398	\$ 222	\$ 1,166	\$ 2,786	\$ 220	\$ 5	\$ 3,011	2,071,708	1,776	3,570	263	-	817	33,235,380	5,526	42,430	
2033	\$ 1,441	\$ 230	\$ 1,123	\$ 2,794	\$ 233	\$ 6	\$ 3,032	2,117,339	1,810	3,312	247	-	840	33,877,904	5,797	43,595	
2034	\$ 1,494	\$ 243	\$ 1,082	\$ 2,819	\$ 256	\$ 6	\$ 3,082	2,255,634	1,904	5,607	379	-	1,322	35,621,765	5,491	44,671	
2035	\$ 1,538	\$ 252	\$ 1,088	\$ 2,878	\$ 269	\$ 7	\$ 3,154	2,289,310	1,927	5,952	444	-	1,410	36,052,900	5,432	45,654	
2036	\$ 1,561	\$ 244	\$ 1,257	\$ 3,062	\$ 261	\$ 6	\$ 3,330	2,146,250	1,791	6,369	462	-	1,465	33,521,068	5,823	46,656	
2037	\$ 1,865	\$ 148	\$ 1,544	\$ 3,556	\$ 111	\$ 3	\$ 3,670	879,262	779	2,448	168	-	427	14,573,310	18,282	47,630	
2038	\$ 1,823	\$ 166	\$ 1,623	\$ 3,612	\$ 138	\$ 4	\$ 3,754	1,057,380	928	2,906	230	-	700	17,374,173	16,603	48,691	
2039	\$ 1,850	\$ 185	\$ 1,628	\$ 3,663	\$ 165	\$ 4	\$ 3,832	1,224,935	1,065	3,895	265	-	857	19,926,877	16,045	49,719	
2040	\$ 1,860	\$ 186	\$ 1,603	\$ 3,649	\$ 182	\$ 4	\$ 3,836	1,307,962	1,061	7,454	514	-	1,572	19,848,276	14,403	50,684	
2041	\$ 1,974	\$ 209	\$ 1,558	\$ 3,742	\$ 170	\$ 4	\$ 3,915	1,183,233	812	4,965	341	-	1,217	16,875,718	13,234	51,532	
2042	\$ 2,240	\$ 236	\$ 1,428	\$ 3,903	\$ 160	\$ 3	\$ 4,066	1,079,695	634	2,312	173	-	547	14,841,451	12,104	52,405	
2043	\$ 2,309	\$ 250	\$ 1,406	\$ 3,965	\$ 138	\$ 2	\$ 4,105	897,427	454	3,285	228	-	731	12,125,216	12,531	51,891	
2044	\$ 2,362	\$ 321	\$ 1,341	\$ 4,023	\$ 146	\$ 2	\$ 4,171	923,529	403	5,454	365	-	1,293	12,581,965	10,610	52,727	
2045	\$ 2,430	\$ 393	\$ 1,311	\$ 4,134	\$ 143	\$ 2	\$ 4,278	875,395	322	7,418	467	-	1,640	12,044,454	9,419	53,491	
2046	\$ 2,540	\$ 457	\$ 1,228	\$ 4,225	\$ 128	\$ 1	\$ 4,354	758,350	223	6,397	411	-	1,450	10,438,058	7,350	53,261	
2047	\$ 2,654	\$ 483	\$ 1,203	\$ 4,340	\$ 97	\$ 1	\$ 4,438	557,881	123	8,590	543	-	1,957	7,662,516	7,322	53,637	
2048	\$ 2,775	\$ 529	\$ 1,204	\$ 4,509	\$ 69	\$ 0	\$ 4,579	383,855	56	8,426	538	-	1,950	5,254,566	7,231	54,542	
2049	\$ 2,866	\$ 606	\$ 1,198	\$ 4,671	\$ 38	\$ 0	\$ 4,709	206,674	15	7,348	474	-	1,718	2,857,485	6,591	55,268	
2050	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
2051	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
2052	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
2053	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
2054	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
2055	\$ 3,173	\$ 608	\$ 1,118	\$ 4,899	\$ -	\$ -	\$ 4,899	-	-	10,995	687	-	2,513	0	6,692	56,532	
				A	B	C	A + B + C										
NPV (\$M)		\$ 22,284	\$ 4,754	\$ 16,620	\$ 43,659	\$ 6,470	\$ 60	\$ 50,189	71,314,730	16,135	31,714	25,047	0.23	3,321	<< 2023-2030 sum		
2023-2055									95,629,069	33,994	196,578	35,888	0.23	40,956	<< 2023-2055 sum		

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 3 - Least Cost Plan (\$0CO2) - with Prospective New Load										Emissions					Native Load		
Year	Capital +			Cost of			TOTAL PVSC	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)	TOTAL PVRR (\$M)	Cost of CO2 (\$/MWh)	Methane Tons (\$/MWh)											
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,078	2,132	6,601	6,041	0.06	405	39,888,433	562	33,906	
2024	\$ 831	\$ 440	\$ 754	\$ 2,025	\$ 1,212	\$ 4	\$ 3,241	15,120,170	1,961	6,487	6,018	0.06	400	36,693,932	759	34,410	
2025	\$ 865	\$ 433	\$ 772	\$ 2,070	\$ 1,207	\$ 6	\$ 3,283	14,529,944	2,477	6,408	5,583	0.05	394	46,357,045	613	35,028	
2026	\$ 905	\$ 404	\$ 763	\$ 2,071	\$ 725	\$ 7	\$ 2,804	8,427,905	3,118	2,725	2,449	0.02	361	58,351,547	2,400	35,826	
2027	\$ 965	\$ 293	\$ 1,188	\$ 2,446	\$ 554	\$ 4	\$ 3,005	6,217,373	1,760	3,180	2,044	0.02	457	32,927,391	2,799	37,056	
2028	\$ 1,010	\$ 254	\$ 1,234	\$ 2,497	\$ 497	\$ 4	\$ 2,998	5,378,660	1,645	3,580	1,646	0.01	534	30,779,636	2,934	37,959	
2029	\$ 1,101	\$ 252	\$ 1,313	\$ 2,665	\$ 347	\$ 5	\$ 3,017	3,628,017	1,896	3,911	706	0.01	740	35,474,714	3,048	38,810	
2030	\$ 1,138	\$ 267	\$ 1,256	\$ 2,661	\$ 379	\$ 6	\$ 3,045	3,827,278	2,061	3,878	726	0.01	905	38,559,502	2,707	39,883	
2031	\$ 1,262	\$ 243	\$ 1,200	\$ 2,705	\$ 249	\$ 6	\$ 2,960	2,431,712	2,050	6,350	314	-	1,063	38,353,645	3,843	41,025	
2032	\$ 1,310	\$ 244	\$ 1,142	\$ 2,696	\$ 253	\$ 6	\$ 2,954	2,381,677	2,030	5,819	315	-	1,083	37,989,341	4,088	42,430	
2033	\$ 1,353	\$ 252	\$ 1,099	\$ 2,705	\$ 267	\$ 7	\$ 2,978	2,426,998	2,063	5,856	311	-	1,113	38,613,075	4,374	43,595	
2034	\$ 1,402	\$ 270	\$ 1,058	\$ 2,731	\$ 295	\$ 7	\$ 3,033	2,599,900	2,191	9,321	504	-	1,564	41,007,168	4,118	44,671	
2035	\$ 1,447	\$ 280	\$ 1,065	\$ 2,792	\$ 310	\$ 8	\$ 3,109	2,634,265	2,216	10,549	625	-	1,989	41,465,394	4,096	45,654	
2036	\$ 1,471	\$ 269	\$ 1,235	\$ 2,975	\$ 299	\$ 7	\$ 3,282	2,461,212	2,045	9,493	565	-	1,852	38,270,067	4,422	46,656	
2037	\$ 1,755	\$ 157	\$ 1,518	\$ 3,430	\$ 124	\$ 3	\$ 3,558	988,141	870	2,780	154	-	554	16,272,350	16,463	47,630	
2038	\$ 1,726	\$ 178	\$ 1,596	\$ 3,500	\$ 154	\$ 4	\$ 3,658	1,186,707	1,038	4,962	259	-	821	19,416,731	14,726	48,691	
2039	\$ 1,754	\$ 199	\$ 1,599	\$ 3,552	\$ 185	\$ 5	\$ 3,742	1,374,521	1,190	5,646	299	-	1,038	22,268,455	14,111	49,719	
2040	\$ 1,767	\$ 202	\$ 1,573	\$ 3,542	\$ 204	\$ 5	\$ 3,751	1,469,694	1,196	12,529	707	-	2,221	22,388,278	12,548	50,684	
2041	\$ 1,879	\$ 227	\$ 1,529	\$ 3,634	\$ 190	\$ 4	\$ 3,829	1,326,013	910	8,660	451	-	1,546	18,927,467	11,435	51,532	
2042	\$ 2,146	\$ 258	\$ 1,398	\$ 3,802	\$ 180	\$ 3	\$ 3,986	1,216,482	719	4,223	235	-	898	16,810,067	10,341	52,405	
2043	\$ 2,206	\$ 275	\$ 1,377	\$ 3,858	\$ 155	\$ 2	\$ 4,016	1,012,586	515	5,575	285	-	978	13,772,550	10,711	51,891	
2044	\$ 2,269	\$ 356	\$ 1,313	\$ 3,938	\$ 165	\$ 2	\$ 4,105	1,042,378	459	9,169	485	-	1,700	14,306,566	8,919	52,727	
2045	\$ 2,338	\$ 438	\$ 1,283	\$ 4,060	\$ 161	\$ 2	\$ 4,223	987,432	366	12,209	642	-	2,220	13,709,492	7,761	53,491	
2046	\$ 2,444	\$ 513	\$ 1,192	\$ 4,148	\$ 145	\$ 1	\$ 4,295	860,265	255	11,938	620	-	2,123	11,938,734	5,883	53,261	
2047	\$ 2,555	\$ 545	\$ 1,164	\$ 4,264	\$ 110	\$ 1	\$ 4,375	634,339	141	15,280	792	-	2,682	8,800,731	5,824	53,637	
2048	\$ 2,671	\$ 599	\$ 1,166	\$ 4,435	\$ 79	\$ 0	\$ 4,514	436,801	65	14,355	764	-	2,674	6,042,811	5,726	54,542	
2049	\$ 2,762	\$ 686	\$ 1,161	\$ 4,608	\$ 43	\$ 0	\$ 4,652	234,440	18	11,341	607	-	2,159	3,278,996	5,135	55,268	
2050	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
2051	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
2052	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
2053	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
2054	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
2055	\$ 3,075	\$ 690	\$ 1,080	\$ 4,845	\$ -	\$ -	\$ 4,845	-	-	20,142	1,018	-	3,331	0	5,238	56,532	
				A	B	C	A + B + C										
NPV (\$M)	\$ 21,355	\$ 5,079	\$ 16,344	\$ 42,778	\$ 6,724	\$ 65	\$ 49,567	72,443,425	17,049	36,771	25,213	0.23	4,196	<< 2023-2030 sum			
2023-2055								100,148,988	37,385	323,678	40,254	0.23	54,461	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost

Portfolio: 8 - No Gas Plan (\$0CO2)										Emissions						Native Load	
Year	Capital +			TOTAL PVRR (\$M)	Cost of CO2 Tons (\$M)	Methane Tons (\$M)	TOTAL PVSC (\$M)	Carbon (tons)	Methane (tons)	NOX (tons)	SOX (tons)	HG (tons)	PM_10 (tons)	Natural Gas Burn (MMBtu)	Curtailment (GW/h)	Energy Forecast (GWh)	
	Other Costs (\$M)	Fuel Costs (\$M)	O&M Costs (\$M)														
2023	\$ 761	\$ 486	\$ 745	\$ 1,992	\$ 1,184	\$ 4	\$ 3,180	15,314,334	2,132	6,601	6,041	0.06	405	39,888,396	562	33,906	
2024	\$ 833	\$ 438	\$ 754	\$ 2,025	\$ 1,210	\$ 4	\$ 3,239	15,089,765	1,951	6,477	6,010	0.06	399	36,506,789	776	34,410	
2025	\$ 867	\$ 431	\$ 772	\$ 2,070	\$ 1,205	\$ 5	\$ 3,280	14,499,254	2,457	6,401	5,580	0.05	392	45,978,733	619	35,028	
2026	\$ 892	\$ 329	\$ 718	\$ 1,939	\$ 624	\$ 5	\$ 2,568	7,244,326	2,180	2,415	2,241	0.02	305	40,796,987	2,554	34,760	
2027	\$ 1,069	\$ 231	\$ 1,262	\$ 2,562	\$ 462	\$ 3	\$ 3,026	5,182,209	1,060	1,890	1,872	0.02	206	19,842,191	5,888	35,507	
2028	\$ 1,330	\$ 150	\$ 1,383	\$ 2,863	\$ 268	\$ 2	\$ 3,133	2,903,678	640	1,105	1,065	0.01	115	11,982,568	10,532	36,409	
2029	\$ 1,409	\$ 155	\$ 1,444	\$ 3,008	\$ 197	\$ 2	\$ 3,207	2,057,191	763	572	468	0.01	100	14,270,407	9,751	37,260	
2030	\$ 1,408	\$ 163	\$ 1,361	\$ 2,932	\$ 222	\$ 2	\$ 3,156	2,245,496	815	624	516	0.01	110	15,247,484	9,276	38,334	
2031	\$ 1,534	\$ 149	\$ 1,275	\$ 2,958	\$ 110	\$ 3	\$ 3,070	1,073,016	945	179	8	-	54	17,678,039	10,903	39,475	
2032	\$ 1,585	\$ 152	\$ 1,207	\$ 2,944	\$ 114	\$ 3	\$ 3,061	1,078,427	960	185	9	-	55	17,967,554	11,185	40,880	
2033	\$ 1,626	\$ 159	\$ 1,150	\$ 2,935	\$ 124	\$ 3	\$ 3,063	1,132,002	1,009	192	9	-	58	18,886,502	11,402	42,045	
2034	\$ 1,674	\$ 166	\$ 1,095	\$ 2,935	\$ 138	\$ 4	\$ 3,077	1,212,826	1,060	202	9	-	61	19,841,939	11,030	43,121	
2035	\$ 1,720	\$ 171	\$ 1,130	\$ 3,021	\$ 145	\$ 4	\$ 3,170	1,236,471	1,070	208	9	-	61	20,024,481	10,924	44,105	
2036	\$ 1,729	\$ 167	\$ 1,383	\$ 3,279	\$ 140	\$ 4	\$ 3,422	1,152,156	991	198	34	-	56	18,552,217	11,697	45,106	
2037	\$ 2,071	\$ 116	\$ 1,648	\$ 3,835	\$ 59	\$ 2	\$ 3,896	471,301	463	104	5	-	21	8,656,920	25,653	46,080	
2038	\$ 1,997	\$ 125	\$ 1,794	\$ 3,917	\$ 74	\$ 2	\$ 3,992	565,482	532	119	10	-	26	9,959,144	24,129	47,142	
2039	\$ 2,024	\$ 137	\$ 1,820	\$ 3,981	\$ 90	\$ 3	\$ 4,074	671,813	620	132	6	-	31	11,598,740	23,390	48,169	
2040	\$ 2,026	\$ 129	\$ 1,790	\$ 3,945	\$ 96	\$ 2	\$ 4,043	688,255	552	104	36	-	36	10,330,786	21,535	49,134	
2041	\$ 2,139	\$ 135	\$ 1,740	\$ 4,015	\$ 87	\$ 2	\$ 4,103	602,365	388	79	3	-	31	8,068,223	20,369	49,982	
2042	\$ 2,406	\$ 144	\$ 1,608	\$ 4,159	\$ 81	\$ 1	\$ 4,241	546,645	293	63	3	-	32	6,855,796	19,100	50,856	
2043	\$ 2,502	\$ 147	\$ 1,581	\$ 4,230	\$ 68	\$ 1	\$ 4,299	441,460	200	57	2	-	28	5,337,938	19,599	50,342	
2044	\$ 2,554	\$ 186	\$ 1,513	\$ 4,253	\$ 75	\$ 1	\$ 4,329	474,628	190	76	3	-	36	5,932,593	17,321	51,177	
2045	\$ 2,623	\$ 226	\$ 1,479	\$ 4,328	\$ 75	\$ 1	\$ 4,404	459,194	157	91	4	-	43	5,881,597	16,040	51,941	
2046	\$ 2,754	\$ 285	\$ 1,380	\$ 4,419	\$ 76	\$ 1	\$ 4,496	450,606	125	114	5	-	54	5,840,942	13,004	52,777	
2047	\$ 2,897	\$ 308	\$ 1,333	\$ 4,537	\$ 60	\$ 0	\$ 4,598	346,041	71	120	5	-	54	4,439,466	12,676	53,637	
2048	\$ 2,994	\$ 339	\$ 1,327	\$ 4,660	\$ 43	\$ 0	\$ 4,703	239,733	33	127	5	-	57	3,095,381	12,529	54,542	
2049	\$ 3,060	\$ 390	\$ 1,315	\$ 4,765	\$ 24	\$ 0	\$ 4,789	130,171	9	139	6	-	64	1,715,769	11,717	55,268	
2050	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
2051	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
2052	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
2053	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
2054	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
2055	\$ 3,426	\$ 393	\$ 1,226	\$ 5,045	\$ -	\$ -	\$ 5,045	-	-	140	5	-	61	0	11,877	56,532	
				A	B	C	A + B + C										
NPV (\$M)		\$ 24,345	\$ 3,651	\$ 17,732	\$ 45,728	\$ 5,416	\$ 39	\$ 51,182	64,536,253	11,998	26,084	23,794	0.22	2,032	<< 2023-2030 sum		
2023-2055								77,508,844	21,667	29,410	23,998	0.22	3,258	<< 2023-2055 sum			

Notes: Costs do not include transmission network upgrades for delivery.
 Other costs include PPA, Generics, Mkt Purch/Salesm, less Fuel Costs.

PVRR = Present Value Revenue Requirement
 PVSC = Present Value Societal Cost