

Sierra Club/NRDC Data Request
LKE 2014 BP - Power Generation & PE
\$000's

75% Share of Trimble County (STEAM) is reflected in Capital; 100% in Fixed O&M

	<i>Capital</i>									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
STEAM										
Ghent	249,594	127,733	65,269	162,744	188,247	118,222	24,757	52,840	49,499	37,600
Brown	90,492	87,976	24,651	35,013	62,991	27,810	207	3,176	1,950	-
Green River	711	5,630	6,890	11,427	5,000	-	-	-	-	-
Tyrone	520	2,273	840	250	2,520	2,100	-	-	-	-
Pineville	-	-	210	220	2,250	1,950	-	-	-	-
Mill Creek	295,833	249,437	151,584	87,926	143,862	126,652	65,210	57,401	24,110	7,100
Cane Run	4,443	8,882	7,767	1,228	-	-	-	-	-	-
Trimble County	55,007	126,302	147,798	117,693	71,434	71,690	13,049	16,738	56,924	11,179
SCCT/NGCC										
Trimble County	1,666	902	5,585	12,466	14,030	6,316	6,180	-	630	-
Cane Run	127,482	41,212	4,379	13,753	17,730	-	-	-	-	-
Paddys Run	500	8,250	7,250	-	6,120	-	-	-	-	-
Zorn	-	624	-	-	-	-	-	-	-	-
Canal	500	-	-	6,750	5,750	-	-	-	-	-
BR CTS	3,078	10,789	2,305	2,379	19,000	21,943	9,100	7,500	-	-
Green River 5	1,000	84,900	394,350	155,292	44,931	-	-	-	-	-
Haefling	147	78	-	-	-	-	-	-	-	-
HYDRO										
Ohio Falls	17,110	16,555	11,915	-	-	-	-	-	-	-
Dix Dam	262	54	-	2,850	-	-	-	-	-	-
LGE Common	379	40	45	39	41	-	-	-	-	-
KU Common	1,453	4,412	2,754	1,231	1,097	18,727	18,452	18,434	305	37
Total Capital	850,175	776,047	833,592	621,560	585,003	422,444	136,955	156,089	144,826	55,916

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75% Share of Trimble County (STEAM) is reflected in Capital; 100% in Fixed O&M

	<i>Fixed Costs</i>									
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
STEAM										
Ghent	65,478	67,203	62,397	58,951	74,272	74,272	68,928	74,683	76,155	74,413
Brown	25,293	30,259	28,032	32,693	28,696	33,965	30,068	30,346	36,913	31,763
Green River	11,020	336	332	113	115	117	119	122	124	127
Tyrone	112	112	112	115	117	119	122	124	127	129
Pineville	-	-	-	-	-	-	-	-	-	-
Mill Creek	55,230	58,188	66,559	63,679	64,096	68,335	69,150	70,903	73,418	71,74
Cane Run	29,533	20,335	329	336	342	349	356	363	370	5 378
Trimble County	36,843	37,008	40,692	46,866	47,233	45,923	45,106	48,957	46,556	52,002
SCCT/NGCC										
Trimble County	2,010	2,016	2,180	2,339	2,618	2,501	2,562	2,625	2,688	2,755
Cane Run	-	3,144	4,276	4,361	4,449	4,538	4,628	4,721	4,815	4,912
Paddys Run	418	517	545	645	575	676	603	709	633	743
Zorn	5	5	5	5	5	5	5	5	5	5
Canal	-	-	-	-	-	-	-	-	-	-
BR CTS	2,981	3,904	3,119	2,972	3,665	3,737	3,225	3,314	3,300	3,382
Green River 5	-	-	-	-	5,227	5,331	5,438	5,547	5,658	5,771
Haefling	108	110	113	115	117	120	122	124	127	129
HYDRO										
Ohio Falls	2,310	2,407	2,461	2,418	2,376	2,431	2,487	2,544	2,602	2,662
Dix Dam	676	568	538	547	558	675	587	602	617	632
LGE Common	5,212	4,814	5,231	6,991	12,758	16,858	17,296	17,744	18,204	18,675
KU Common	9,168	9,279	9,423	11,018	16,925	21,621	22,147	22,688	23,242	23,811
Total Fixed Costs	246,417	248,883	240,023	248,598	287,449	306,596	296,132	309,326	318,387	316,750

Variable O&M (\$000)
Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Brown 1	355	710	789	913	627	763	635	713	1,022	1,214	1,037	1,272	1,263	1,394	1,168	1,060	1,116	1,247
Brown 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 2	888	2,008	2,234	2,384	1,886	2,109	2,364	2,418	3,071	2,988	2,612	3,304	3,410	3,800	3,713	3,601	3,707	3,298
Brown 3	2,430	5,313	5,763	5,977	5,543	5,024	4,923	5,580	5,639	6,579	6,323	7,245	7,162	8,467	7,649	7,798	8,817	9,353
Brown 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown 9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Brown Solar	0	0	7	12	13	13	13	13	14	14	14	15	15	15	15	16	16	16
Cane Run 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 4	3,624	1,579	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	3,995	1,597	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	4,219	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	0	4,288	6,653	6,584	7,022	5,955	7,111	6,846	6,699	5,084	6,829	6,630	7,363	6,703	6,034	6,859	7,172	6,867
Dix Dam	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ghent 1	9,565	12,238	14,783	16,189	14,664	16,353	16,123	16,589	16,140	18,660	18,497	19,694	19,988	20,822	20,100	17,982	21,472	20,498
Ghent 2	7,500	7,344	12,128	12,600	11,726	11,236	12,941	13,315	14,819	15,547	16,280	16,400	15,127	17,678	17,567	17,988	18,242	18,767
Ghent 3	10,894	13,417	15,604	14,498	11,527	12,857	14,153	15,457	17,191	17,872	19,002	17,264	20,183	21,445	21,150	21,509	21,734	23,812
Ghent 4	10,833	17,570	17,225	15,109	10,824	13,062	12,963	13,312	17,886	19,595	19,724	20,735	21,992	23,592	21,250	24,117	24,301	25,802
Green River 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	0	0	0	0	9,083	9,040	8,276	7,942	6,580	6,620	6,614	7,222	7,382	6,769	6,548	4,144	4,537	4,416
Haepling	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Mill Creek 1	1,306	2,716	4,638	5,420	5,650	5,601	6,067	5,491	6,654	6,553	7,003	6,769	7,397	7,200	7,625	6,827	8,122	7,833
Mill Creek 2	1,310	2,948	5,178	6,515	6,010	6,655	5,869	7,130	7,052	7,702	7,386	8,071	7,799	8,411	7,377	8,648	8,422	9,154
Mill Creek 3	3,690	4,412	8,875	12,092	12,666	11,753	13,501	13,223	15,002	14,591	15,938	15,835	17,430	15,859	18,568	17,811	19,713	19,551
Mill Creek 4	3,305	9,974	9,722	13,437	12,283	13,515	13,406	14,752	13,789	16,791	15,976	17,655	16,990	18,823	18,155	19,413	17,289	20,440
Ohio Falls	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Attachment to Response to SC-1 Question No. 7(b)

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Sinclair

Variable O&M (\$000)**Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2**

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031
Paddys Run 13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 07	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 09	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Trimble County 1	4,020	4,281	6,710	5,661	6,409	6,094	7,007	6,668	7,716	7,334	8,035	6,951	8,542	7,930	8,856	7,989	9,118	8,593
Trimble County 2	6,459	7,860	7,552	8,398	7,220	8,840	8,261	9,169	8,568	9,516	8,896	9,947	8,559	10,322	9,533	10,724	9,985	11,188
Zorn 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Variable O&M (\$000)
Mid Gas, Base Load, Zer

Unit											
	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Brown 1	1,387	1,763	1,673	1,672	1,715	1,636	1,828	1,897	2,016	2,102	2,208
Brown 10	0	0	0	0	0	0	0	0	0	0	0
Brown 11	0	0	0	0	0	0	0	0	0	0	0
Brown 2	4,140	4,313	4,353	4,735	4,829	4,535	3,829	4,688	5,146	5,335	5,659
Brown 3	9,505	9,587	10,551	11,816	10,821	11,275	11,577	12,048	10,451	13,080	13,166
Brown 5	0	0	0	0	0	0	0	0	0	0	0
Brown 6	0	0	0	0	0	0	0	0	0	0	0
Brown 7	0	0	0	0	0	0	0	0	0	0	0
Brown 8	0	0	0	0	0	0	0	0	0	0	0
Brown 9	0	0	0	0	0	0	0	0	0	0	0
Brown Solar	17	17	17	18	18	18	19	19	20	20	20
Cane Run 11	0	0	0	0	0	0	0	0	0	0	0
Cane Run 4	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	7,366	6,255	7,507	7,687	7,941	7,411	7,062	8,075	9,065	8,561	9,481
Dix Dam	0	0	0	0	0	0	0	0	0	0	0
Ghent 1	22,538	23,092	24,066	24,538	21,302	24,691	24,756	26,086	25,759	27,497	28,938
Ghent 2	18,880	17,578	20,492	20,269	20,906	20,641	21,660	21,867	19,813	23,245	23,052
Ghent 3	21,699	25,765	26,343	26,676	27,285	26,918	29,163	25,934	30,073	30,130	31,522
Ghent 4	28,041	30,004	31,482	28,929	32,846	31,640	34,522	35,218	36,673	36,787	34,911
Green River 3	0	0	0	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0	0	0	0
Green River 5	4,927	5,912	5,155	5,737	4,352	3,606	4,167	3,807	4,219	4,404	4,987
Haefling	0	0	0	0	0	0	0	0	0	0	0
Mill Creek 1	8,496	8,249	8,947	8,583	9,358	8,095	9,675	9,317	10,054	9,708	10,555
Mill Creek 2	8,868	9,468	9,115	9,895	8,714	10,349	9,914	10,688	10,385	11,189	10,757
Mill Creek 3	22,397	22,103	24,902	21,267	25,694	24,685	26,308	25,785	27,968	27,495	29,546
Mill Creek 4	20,220	22,310	20,938	23,044	22,559	23,417	21,305	25,278	24,133	26,352	25,424
Ohio Falls	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 11	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	0	0	0	0	0	0	0	0	0	0	0

Variable O&M (\$000)
Mid Gas, Base Load, Zer

Unit											
Paddys Run 13	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 05	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 06	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 07	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 08	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 09	0	0	0	0	0	0	0	0	0	0	0
Trimble Co 10	0	0	0	0	0	0	0	0	0	0	0
Trimble County 1	9,654	8,258	9,986	9,236	10,476	9,390	10,840	10,121	11,399	9,533	11,865
Trimble County 2	10,373	11,610	9,824	12,104	11,160	12,604	11,834	13,142	12,350	13,606	11,549
Zorn 1	0	0	0	0	0	0	0	0	0	0	0

Fuel Costs (\$000)
Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2

Unit	Cost	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Brown 1	Fuel Cost	9,580	10,414	9,346	11,135	7,889	9,527	7,984	9,069	13,139	15,713	13,677	16,930	17,165	19,060	16,324	15,204	16,179
	Start Cost	626	897	866	701	661	679	578	617	565	513	568	553	636	728	617	784	657
Brown 10	Fuel Cost	398	549	307	376	195	225	298	348	262	526	475	306	636	378	137	185	154
	Start Cost	8	11	8	8	5	5	5	5	7	10	11	9	10	9	2	3	5
Brown 11	Fuel Cost	783	859	512	693	273	417	398	499	476	756	698	591	790	635	213	290	261
	Start Cost	18	15	10	16	6	11	10	10	12	16	15	12	13	15	6	7	8
Brown 2	Fuel Cost	23,312	25,724	24,996	23,422	19,011	21,152	23,766	24,806	31,406	30,752	27,406	35,074	36,705	41,106	40,828	40,504	42,090
	Start Cost	797	771	609	558	693	720	698	685	554	574	500	610	671	716	738	746	846
Brown 3	Fuel Cost	46,118	43,835	38,668	43,336	40,700	36,813	36,040	41,672	42,149	49,629	48,616	56,158	56,485	67,554	62,201	64,914	74,529
	Start Cost	1,369	1,367	1,435	1,451	1,144	985	1,198	1,303	1,615	1,552	1,524	1,512	1,579	1,462	1,648	1,650	1,275
Brown 5	Fuel Cost	555	889	516	715	216	379	284	479	482	823	860	621	1,252	970	422	590	467
	Start Cost	11	14	10	14	5	8	6	9	9	14	16	15	21	19	10	15	11
Brown 6	Fuel Cost	4,156	4,103	3,088	3,491	1,611	2,398	2,009	2,255	2,962	3,398	3,119	2,968	3,214	3,034	1,828	1,595	1,827
	Start Cost	144	127	100	103	49	84	66	78	97	114	94	112	108	107	76	56	72
Brown 7	Fuel Cost	6,091	6,082	4,456	4,719	2,271	2,908	2,849	3,678	4,260	5,369	4,646	5,164	5,112	5,101	3,625	2,716	5,892
	Start Cost	196	158	132	135	68	94	82	107	128	157	120	164	146	136	132	78	143
Brown 8	Fuel Cost	1,059	1,049	749	857	403	658	510	591	691	1,049	963	815	844	731	385	295	361
	Start Cost	25	22	17	21	9	17	10	14	17	22	19	19	16	16	11	8	10
Brown 9	Fuel Cost	561	669	414	478	228	273	336	436	312	638	604	406	731	479	243	282	220
	Start Cost	11	14	10	11	5	5	6	8	7	12	14	11	12	12	5	6	6
Brown Solar	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 11	Fuel Cost	35	33	20	35	6	18	12	16	13	28	46	7	44	40	7	0	2
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 4	Fuel Cost	20,922	9,092	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	472	147	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	Fuel Cost	24,241	9,764	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	358	119	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	Fuel Cost	18,266	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	313	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	Fuel Cost	0	113,936	177,939	176,844	188,940	163,320	201,172	202,539	207,259	159,482	215,817	203,911	229,080	205,287	185,778	203,533	214,414
	Start Cost	0	430	466	315	314	414	607	931	1,972	2,412	2,784	2,762	2,966	3,806	3,343	3,557	4,310
Dix Dam	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Ghent 1	Fuel Cost	77,725	69,499	79,893	86,806	78,601	87,691	86,496	90,760	88,390	103,301	104,136	112,664	116,386	122,498	120,052	109,291	132,531
	Start Cost	1,202	1,140	1,224	1,166	922	1,050	1,068	1,099	1,023	1,248	1,266	1,331	1,295	1,476	1,488	1,530	1,577
Ghent 2	Fuel Cost	88,705	83,645	89,199	93,234	86,882	83,102	95,830	100,505	111,782	118,366	126,041	128,960	121,034	142,880	144,212	150,239	154,837
	Start Cost	1,467	1,530	1,561	1,427	1,259	1,135	1,211	1,090	1,316	1,251	1,613	1,575	1,392	1,673	1,746	1,581	1,848
Ghent 3	Fuel Cost	69,222	79,249	83,789	77,667	62,275	69,410	76,186	84,695	93,659	98,062	106,023	97,658	116,096	124,466	124,613	129,039	132,273
	Start Cost	1,893	1,943	1,926	1,979	1,817	1,857	1,749	1,569	1,599	1,730	1,906	1,677	2,017	2,211	2,310	2,196	2,160
Ghent 4	Fuel Cost	72,473	76,193	80,531	66,388	48,582	57,851	57,719	60,231	80,723	88,565	90,790	96,570	103,658	111,791	102,462	118,227	120,218
	Start Cost	1,761	2,068	1,650	2,638	2,879	3,080	2,502	2,155	1,640	1,925	1,788	1,974	2,075	2,071	2,082	2,534	2,512
Green River 3	Fuel Cost	8,495	3,044	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	413	98	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Fuel Costs (\$000)**Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2**

Unit	Cost	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Green River 4	Fuel Cost	18,318	5,424	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	453	145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	Fuel Cost	0	0	0	0	174,266	178,166	167,060	167,976	147,263	152,224	155,357	171,391	179,568	165,691	161,276	104,205	115,870
	Start Cost	0	0	0	0	508	848	1,491	2,057	3,640	3,912	4,590	4,457	5,328	5,309	6,350	6,060	6,577
Haefling	Fuel Cost	46	97	62	72	0	41	12	10	41	59	110	33	63	37	28	26	11
	Start Cost	21	36	20	25	0	10	7	5	11	14	26	12	19	17	7	7	4
Mill Creek 1	Fuel Cost	53,371	49,780	55,298	57,625	59,164	58,783	63,708	58,849	71,655	71,386	77,537	76,199	84,780	83,385	89,715	81,758	98,835
	Start Cost	308	272	350	336	343	336	372	350	387	396	387	411	436	428	453	392	454
Mill Creek 2	Fuel Cost	51,878	50,981	51,712	62,600	56,894	63,090	55,665	69,020	68,576	75,714	73,855	81,996	80,693	87,905	78,294	93,399	92,435
	Start Cost	276	278	301	352	306	340	319	354	375	382	330	383	390	382	391	414	406
Mill Creek 3	Fuel Cost	69,688	64,435	44,842	54,307	56,054	52,062	59,873	59,862	68,069	66,875	74,322	74,972	84,003	77,174	91,753	89,548	100,680
	Start Cost	928	938	1,785	1,053	1,164	837	1,035	1,143	1,122	1,047	1,214	1,240	1,163	1,082	1,208	1,288	1,424
Mill Creek 4	Fuel Cost	63,425	64,482	65,448	86,187	77,606	85,431	84,758	95,177	89,112	109,644	106,086	119,095	116,670	130,591	127,881	139,151	125,968
	Start Cost	934	1,278	1,064	1,110	1,038	1,156	1,128	1,149	1,071	1,250	1,276	1,354	1,327	1,464	1,262	1,467	1,434
Ohio Falls	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 11	Fuel Cost	25	30	8	39	8	10	19	32	14	32	26	16	17	19	14	15	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	Fuel Cost	26	61	37	44	18	61	24	12	27	73	68	34	60	57	26	0	14
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 13	Fuel Cost	8,069	7,351	5,966	6,659	4,197	6,036	5,242	6,160	6,636	7,339	7,228	8,408	9,172	9,674	8,454	6,167	6,913
	Start Cost	39	38	36	41	28	33	34	41	45	47	46	58	61	67	69	49	56
Trimble Co 05	Fuel Cost	16,837	17,716	13,141	12,286	8,844	11,159	8,360	9,775	8,275	13,001	11,543	13,559	13,566	14,285	11,105	7,345	7,030
	Start Cost	58	65	53	50	39	48	41	44	38	57	53	62	66	73	59	40	42
Trimble Co 06	Fuel Cost	14,801	15,647	8,885	11,681	7,431	9,672	7,264	7,244	9,827	12,037	9,954	12,052	12,190	11,680	9,747	6,308	6,165
	Start Cost	55	60	34	49	36	39	33	34	48	52	47	59	65	60	54	36	37
Trimble Co 07	Fuel Cost	12,788	13,094	9,474	9,766	6,139	8,556	6,731	8,034	7,926	10,804	8,821	9,681	10,732	10,689	8,377	5,720	6,286
	Start Cost	50	50	38	43	32	39	33	41	44	49	45	54	55	61	49	39	41
Trimble Co 08	Fuel Cost	3,544	3,654	2,860	2,891	1,554	2,216	1,930	2,135	2,031	3,171	2,858	2,667	3,046	2,767	1,370	1,290	1,650
	Start Cost	17	17	15	13	8	11	9	11	11	15	13	14	15	14	8	8	10
Trimble Co 09	Fuel Cost	9,960	10,184	7,558	7,759	4,618	6,436	5,036	6,167	5,987	8,293	6,492	7,267	7,975	7,956	6,254	4,149	4,350
	Start Cost	44	46	33	34	26	33	25	33	32	39	34	41	42	49	39	24	31
Trimble Co 10	Fuel Cost	2,679	2,978	2,204	2,505	881	1,586	1,353	1,394	1,454	1,991	2,441	1,895	2,086	1,995	1,154	828	1,007
	Start Cost	14	13	11	13	5	8	8	8	7	11	12	11	11	11	8	5	7
Trimble County 1	Fuel Cost	71,886	68,350	80,689	70,395	79,997	76,176	87,643	85,108	98,841	94,993	105,863	93,061	116,437	109,197	123,837	113,691	131,840
	Start Cost	1,077	1,119	1,155	919	1,042	989	929	944	1,006	994	1,099	1,109	1,266	1,330	1,451	1,257	1,536
Trimble County 2	Fuel Cost	82,644	97,805	97,097	112,739	96,784	118,665	111,029	125,804	118,003	132,458	125,964	143,081	125,344	152,696	143,235	163,941	155,126
	Start Cost	4,455	4,086	4,045	4,209	3,830	3,899	3,550	3,939	4,013	4,313	4,005	4,598	4,232	5,095	5,089	5,469	5,887
Zorn 1	Fuel Cost	24	52	14	32	5	30	24	18	3	28	46	4	56	23	20	21	10
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Fuel Costs (\$000)
Mid Gas, Base Load, Zero Carbon Scenario; 75%

Unit	Cost	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Brown 1	Fuel Cost	18,378	20,560	25,934	24,774	24,918	26,016	25,132	28,447	29,825	32,075	33,949	35,946
	Start Cost	715	722	778	767	706	684	758	889	797	790	759	772
Brown 10	Fuel Cost	378	294	416	454	425	236	262	228	291	301	428	803
	Start Cost	12	8	6	11	8	7	6	5	7	6	11	21
Brown 11	Fuel Cost	596	701	775	1,009	1,028	543	543	463	713	656	943	1,471
	Start Cost	13	15	15	24	25	15	14	11	13	13	25	29
Brown 2	Fuel Cost	38,017	48,485	50,442	51,636	56,886	58,873	56,229	48,216	59,728	66,447	69,852	75,127
	Start Cost	676	886	813	927	919	921	783	751	1,083	1,017	1,045	990
Brown 3	Fuel Cost	80,452	82,905	83,697	93,594	106,345	99,396	105,174	108,945	115,195	100,965	128,484	130,792
	Start Cost	1,404	1,110	1,077	1,197	1,255	1,150	1,268	1,248	1,270	1,168	1,247	1,313
Brown 5	Fuel Cost	868	780	962	1,429	1,257	690	859	659	840	905	1,067	1,475
	Start Cost	17	17	17	26	35	14	18	13	17	20	29	28
Brown 6	Fuel Cost	2,403	2,862	6,915	6,532	7,728	3,861	3,782	5,446	5,058	5,810	6,600	7,690
	Start Cost	77	97	193	163	188	115	107	153	143	156	175	215
Brown 7	Fuel Cost	6,733	7,313	10,252	9,418	10,425	6,220	6,436	8,379	7,259	8,000	8,683	12,833
	Start Cost	173	178	255	226	270	185	173	223	182	187	218	339
Brown 8	Fuel Cost	681	968	966	1,293	1,228	672	767	702	708	774	1,204	1,699
	Start Cost	15	20	18	26	29	15	17	14	12	16	29	32
Brown 9	Fuel Cost	440	356	457	764	601	212	415	202	514	333	459	962
	Start Cost	12	9	9	18	12	7	10	5	12	5	11	26
Brown Solar	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 11	Fuel Cost	15	48	41	21	42	24	35	43	36	19	14	87
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 4	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	Fuel Cost	206,573	219,976	187,531	229,022	237,140	242,364	226,380	220,693	257,340	290,782	281,559	316,578
	Start Cost	4,655	4,907	4,221	5,952	5,685	6,317	6,662	5,390	5,555	6,330	6,172	5,905
Dix Dam	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Ghent 1	Fuel Cost	128,818	143,980	148,244	156,854	162,432	143,053	168,313	171,343	183,238	183,640	199,102	212,733
	Start Cost	1,681	1,587	1,618	1,799	1,772	1,723	1,991	1,711	1,744	1,934	2,052	1,993
Ghent 2	Fuel Cost	162,134	165,772	154,970	183,360	184,001	192,658	193,157	205,632	210,777	193,746	230,755	232,234
	Start Cost	1,898	1,956	1,824	2,119	1,908	2,031	2,069	2,382	2,139	1,893	2,321	2,347
Ghent 3	Fuel Cost	147,346	136,476	162,480	168,624	173,162	179,793	180,061	197,966	178,686	210,089	213,728	226,899
	Start Cost	2,420	2,278	2,216	3,017	2,433	2,699	2,646	2,668	2,493	3,018	2,829	2,991
Ghent 4	Fuel Cost	129,713	142,320	152,654	162,264	151,167	174,182	170,001	188,255	194,975	205,665	209,403	201,701
	Start Cost	2,486	2,326	2,398	2,543	2,482	2,773	2,703	3,003	2,920	2,844	2,506	2,703
Green River 3	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0

Fuel Costs (\$000)**Mid Gas, Base Load, Zero Carbon Scenario; 75%**

Unit	Cost	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Green River 4	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	Fuel Cost	113,023	130,022	153,641	136,962	155,292	116,918	97,387	112,616	105,555	116,346	126,285	147,534
	Start Cost	7,496	7,870	8,666	8,281	9,600	7,887	7,268	8,354	7,640	9,138	9,316	9,882
Haefling	Fuel Cost	47	14	54	76	38	13	43	69	49	7	38	125
	Start Cost	15	8	12	21	13	4	9	18	14	9	9	29
Mill Creek 1	Fuel Cost	97,041	107,007	104,340	114,890	111,848	123,786	108,662	131,778	128,793	141,111	138,261	152,585
	Start Cost	445	490	444	491	481	532	480	530	543	531	542	575
Mill Creek 2	Fuel Cost	102,254	100,684	107,978	105,503	116,240	103,879	125,215	121,750	133,211	131,377	143,653	140,156
	Start Cost	397	422	448	458	486	400	485	496	505	495	546	536
Mill Creek 3	Fuel Cost	101,626	118,315	117,258	134,074	116,214	142,494	138,965	150,293	149,503	164,568	164,207	179,090
	Start Cost	1,337	1,422	1,508	1,419	1,270	1,540	1,510	1,601	1,503	1,801	1,565	1,664
Mill Creek 4	Fuel Cost	151,603	152,478	168,989	161,001	179,802	178,674	188,226	173,793	209,330	202,814	224,750	220,100
	Start Cost	1,465	1,493	1,649	1,555	1,517	1,616	1,786	1,541	1,857	1,749	1,784	1,819
Ohio Falls	Fuel Cost	0	0	0	0	0	0	0	0	0	0	0	0
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 11	Fuel Cost	14	19	27	40	41	13	25	9	41	25	36	70
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	Fuel Cost	48	47	36	67	61	14	0	29	46	21	54	108
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 13	Fuel Cost	6,931	8,599	10,936	10,125	11,515	6,950	7,287	8,439	8,282	8,813	9,655	11,376
	Start Cost	60	71	81	70	84	60	68	77	74	74	86	86
Trimble Co 05	Fuel Cost	7,925	8,969	11,752	11,445	14,183	8,076	6,124	8,013	7,578	8,437	10,526	11,729
	Start Cost	46	45	77	56	74	52	40	55	47	51	66	66
Trimble Co 06	Fuel Cost	6,661	8,255	9,424	10,460	11,960	7,107	5,653	6,359	6,834	8,394	9,114	10,849
	Start Cost	38	46	56	55	65	45	39	41	45	53	54	64
Trimble Co 07	Fuel Cost	5,944	7,313	8,644	10,016	10,223	6,399	4,834	5,433	5,645	7,510	7,786	9,262
	Start Cost	32	47	57	56	59	44	30	43	42	51	49	53
Trimble Co 08	Fuel Cost	1,878	1,963	1,866	2,691	3,366	1,707	1,636	1,229	1,977	1,861	2,892	3,898
	Start Cost	10	13	10	15	18	11	11	9	11	13	17	21
Trimble Co 09	Fuel Cost	5,134	5,340	5,781	7,467	7,895	4,716	3,442	4,355	4,271	4,905	6,220	7,223
	Start Cost	28	35	39	42	45	35	23	31	30	34	38	45
Trimble Co 10	Fuel Cost	1,326	1,037	1,345	1,839	2,379	1,287	943	831	1,179	1,217	1,904	2,727
	Start Cost	9	7	8	11	13	8	7	5	7	8	12	14
Trimble County 1	Fuel Cost	126,451	144,407	124,085	152,273	142,940	164,542	149,673	175,355	166,176	189,948	161,218	203,654
	Start Cost	1,455	1,628	1,455	1,636	1,673	1,758	1,586	1,681	1,794	1,812	1,703	1,874
Trimble County 2	Fuel Cost	176,889	166,676	187,396	160,961	201,241	188,315	215,852	205,684	231,808	221,103	247,225	212,982
	Start Cost	6,304	5,936	6,092	5,953	6,315	5,920	6,554	6,416	7,084	6,669	6,780	6,540
Zorn 1	Fuel Cost	20	23	14	37	44	12	13	23	30	56	33	110
	Start Cost	0	0	0	0	0	0	0	0	0	0	0	0

Heat Rate (Btu/kWh)**Mid Gas, Base Load, Zero Carbon Scenario**

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Brown 1	11,264	11,279	11,213	11,217	11,491	11,382	11,443	11,354	11,429	11,383	11,394	11,319	11,355	11,308	11,385
Brown 10	15,328	15,208	15,346	15,282	15,364	15,326	14,613	14,786	15,322	15,219	15,269	15,378	14,218	15,251	15,025
Brown 11	15,036	14,974	15,008	15,081	15,025	15,109	15,015	14,693	15,057	14,988	14,888	14,619	14,245	15,006	15,015
Brown 2	10,602	10,253	10,437	10,490	10,688	10,617	10,633	10,625	10,555	10,507	10,532	10,489	10,444	10,393	10,400
Brown 3	11,778	11,975	12,088	12,069	12,124	12,080	12,058	12,049	12,013	11,995	12,019	11,925	11,918	11,938	11,979
Brown 5	15,384	15,148	15,642	15,490	15,450	15,304	15,438	15,102	15,317	15,221	15,311	15,262	14,667	15,447	15,459
Brown 6	11,851	11,625	11,632	11,516	11,550	11,587	11,598	11,675	11,756	11,724	11,669	11,690	11,552	11,612	11,675
Brown 7	11,327	11,274	11,303	11,270	11,300	11,286	11,284	11,303	11,306	11,286	11,274	11,302	11,217	11,279	11,331
Brown 8	15,101	15,091	15,102	15,086	15,039	15,126	14,644	14,767	15,020	15,055	14,916	14,745	14,332	15,040	15,088
Brown 9	15,358	15,354	15,337	15,336	15,326	15,328	14,664	14,869	15,307	15,379	15,155	15,373	14,436	15,314	15,242
Brown Solar															
Cane Run 11	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117
Cane Run 4	10,797	10,579	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	10,504	10,369	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	10,751	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	0	6,862	6,837	6,839	6,848	6,855	6,846	6,851	6,863	6,893	6,914	6,991	7,006	7,071	7,083
Dix Dam															
Ghent 1	10,531	10,646	10,646	10,653	10,689	10,677	10,671	10,659	10,630	10,631	10,628	10,630	10,627	10,630	10,626
Ghent 2	10,640	10,663	10,880	10,918	10,967	10,931	10,933	10,916	10,868	10,852	10,848	10,845	10,839	10,840	10,841
Ghent 3	11,102	11,106	11,160	11,267	11,401	11,375	11,330	11,297	11,190	11,150	11,146	11,123	11,109	11,097	11,092
Ghent 4	11,011	11,337	11,324	11,604	11,882	11,708	11,757	11,703	11,630	11,523	11,536	11,489	11,421	11,367	11,388
Green River 3	12,242	12,110	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	10,521	10,418	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	0	0	0	0	6,822	6,821	6,820	6,823	6,823	6,841	6,845	6,879	6,874	6,916	6,923
Haepling	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Mill Creek 1	10,392	10,490	10,503	10,511	10,514	10,522	10,516	10,513	10,524	10,533	10,523	10,531	10,533	10,537	10,539
Mill Creek 2	10,254	10,367	10,404	10,397	10,406	10,406	10,400	10,397	10,405	10,406	10,406	10,407	10,410	10,410	10,409
Mill Creek 3	10,405	10,427	10,635	10,598	10,609	10,603	10,603	10,602	10,587	10,580	10,582	10,575	10,574	10,569	10,568
Mill Creek 4	10,705	10,862	10,860	10,751	10,760	10,749	10,739	10,734	10,713	10,709	10,706	10,705	10,703	10,705	10,702
Ohio Falls															

Attachment to Response to SC-1 Question No. 7(e)**11 of 22****Sinclair**

Heat Rate (Btu/kWh)**Mid Gas, Base Load, Zero Carbon Scenario**

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Paddys Run 11	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479
Paddys Run 12	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005
Paddys Run 13	10,276	10,320	10,336	10,326	10,335	10,292	10,353	10,327	10,337	10,284	10,336	10,288	10,314	10,294	10,310
Trimble Co 05	11,343	11,153	10,916	10,875	11,042	11,030	11,214	11,335	11,708	11,684	11,802	11,823	11,829	11,896	11,969
Trimble Co 06	11,258	11,122	10,972	10,926	11,005	11,005	11,194	11,333	11,651	11,574	11,656	11,645	11,737	11,778	11,899
Trimble Co 07	11,222	11,090	10,893	10,924	10,982	11,007	11,199	11,275	11,575	11,465	11,586	11,580	11,610	11,683	11,781
Trimble Co 08	10,900	10,846	10,776	10,794	10,806	10,827	10,837	10,938	11,054	10,930	11,022	10,978	10,899	11,018	10,984
Trimble Co 09	11,182	11,085	10,883	10,896	11,039	11,005	11,129	11,176	11,472	11,392	11,490	11,412	11,462	11,592	11,596
Trimble Co 10	10,858	10,813	10,769	10,766	10,816	10,811	10,839	10,912	10,985	10,918	10,959	10,977	10,784	10,951	10,947
Trimble County 1	10,395	10,413	10,473	10,468	10,479	10,479	10,474	10,470	10,469	10,472	10,471	10,473	10,474	10,475	10,474
Trimble County 2	9,272	9,270	9,269	9,271	9,271	9,270	9,271	9,270	9,271	9,270	9,270	9,270	9,270	9,270	9,271
Zorn 1	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676

Heat Rate (Btu/kWh)
Mid Gas, Base Load, Zero C

Unit	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Brown 1	11,480	11,420	11,412	11,287	11,152	11,060	10,968	11,004	10,979	10,956	10,908	10,876	10,878	10,803
Brown 10	15,307	14,874	15,348	15,251	14,708	15,172	15,014	15,240	15,066	15,189	15,307	15,307	15,142	15,049
Brown 11	15,041	14,870	14,954	14,984	14,753	14,945	14,888	15,033	14,906	14,940	15,015	15,015	15,000	14,946
Brown 2	10,457	10,387	10,361	10,357	10,298	10,291	10,270	10,267	10,289	10,294	10,265	10,248	10,241	10,230
Brown 3	12,053	12,043	12,041	12,013	11,971	11,985	11,981	12,048	12,056	11,983	11,996	11,943	11,965	11,922
Brown 5	15,316	15,646	15,415	15,261	15,092	15,318	15,316	15,398	15,050	15,398	15,288	15,571	15,798	14,970
Brown 6	11,564	11,587	11,497	11,532	11,722	11,594	11,639	11,655	11,556	11,724	11,657	11,662	11,639	11,588
Brown 7	11,290	11,341	11,300	11,306	11,311	11,287	11,288	11,297	11,272	11,313	11,289	11,281	11,300	11,269
Brown 8	14,958	14,866	14,944	15,005	14,814	14,928	14,910	14,986	14,909	15,044	15,015	15,015	15,024	14,938
Brown 9	15,291	14,966	15,326	15,247	14,796	15,184	14,991	15,098	15,112	15,185	15,307	15,307	15,307	15,158
Brown Solar														
Cane Run 11	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117	16,117
Cane Run 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	7,174	7,200	7,234	7,294	7,312	7,315	7,325	7,375	7,408	7,406	7,399	7,410	7,401	7,404
Dix Dam														
Ghent 1	10,627	10,620	10,625	10,626	10,631	10,635	10,642	10,638	10,640	10,644	10,644	10,644	10,652	10,655
Ghent 2	10,839	10,841	10,841	10,840	10,837	10,837	10,833	10,835	10,841	10,837	10,841	10,836	10,839	10,838
Ghent 3	11,100	11,081	11,070	11,070	11,051	11,052	11,043	11,045	11,048	11,046	11,047	11,037	11,042	11,040
Ghent 4	11,379	11,301	11,283	11,208	11,186	11,165	11,153	11,152	11,133	11,134	11,137	11,116	11,117	11,118
Green River 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	6,930	6,948	6,991	6,986	7,047	7,044	7,039	7,084	7,118	7,151	7,141	7,183	7,148	7,121
Haefling	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000	18,000
Mill Creek 1	10,542	10,542	10,545	10,548	10,546	10,549	10,548	10,550	10,549	10,547	10,547	10,551	10,549	10,550
Mill Creek 2	10,410	10,411	10,411	10,411	10,412	10,412	10,412	10,410	10,411	10,411	10,411	10,412	10,411	10,411
Mill Creek 3	10,567	10,564	10,564	10,563	10,561	10,561	10,560	10,560	10,562	10,561	10,561	10,560	10,560	10,561
Mill Creek 4	10,703	10,707	10,709	10,713	10,713	10,715	10,713	10,714	10,714	10,713	10,716	10,715	10,714	10,716
Ohio Falls														

Heat Rate (Btu/kWh)
Mid Gas, Base Load, Zero C

Unit	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Paddys Run 11	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479	15,479
Paddys Run 12	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005	17,005
Paddys Run 13	10,374	10,355	10,357	10,375	10,285	10,333	10,343	10,388	10,343	10,295	10,376	10,377	10,348	10,306
Trimble Co 05	12,001	11,935	11,913	11,911	11,965	11,773	11,838	11,890	11,885	11,948	11,835	11,824	11,815	11,756
Trimble Co 06	11,875	11,791	11,765	11,821	11,831	11,660	11,738	11,856	11,905	11,754	11,752	11,904	11,722	11,689
Trimble Co 07	11,872	11,863	11,686	11,783	11,816	11,696	11,683	11,734	11,791	11,866	11,762	11,818	11,651	11,593
Trimble Co 08	10,956	11,071	10,916	10,953	10,965	10,928	10,976	11,009	10,903	10,965	10,940	10,936	10,975	10,882
Trimble Co 09	11,647	11,638	11,559	11,668	11,595	11,456	11,481	11,609	11,463	11,648	11,574	11,560	11,471	11,460
Trimble Co 10	10,882	11,006	10,899	10,878	10,910	10,862	10,890	10,894	10,938	10,790	10,801	10,881	10,956	10,844
Trimble County 1	10,476	10,474	10,475	10,475	10,476	10,475	10,476	10,475	10,474	10,474	10,475	10,474	10,474	10,474
Trimble County 2	9,270	9,271	9,270	9,270	9,270	9,272	9,270	9,270	9,270	9,270	9,270	9,270	9,270	9,270
Zorn 1	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676	18,676

Generation (GWh)

Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Brown 1	266	288	252	286	193	230	188	206	290	338	283	340	331	359	294	262	270
Brown 10	5	7	4	5	2	3	4	4	3	5	4	3	6	3	1	1	1
Brown 11	11	11	7	9	4	5	5	5	5	7	6	5	7	5	2	2	2
Brown 2	688	768	725	644	499	547	601	603	751	716	614	761	770	841	806	766	774
Brown 3	1,225	1,143	969	1,036	942	837	804	893	885	1,013	954	1,072	1,039	1,204	1,066	1,066	1,181
Brown 5	8	12	7	9	3	4	3	5	5	8	8	5	11	8	3	4	3
Brown 6	72	70	52	58	26	37	30	31	38	41	37	33	35	31	18	15	17
Brown 7	111	107	77	81	38	46	43	53	57	67	56	59	57	54	37	27	55
Brown 8	15	14	10	11	5	8	6	6	7	10	9	7	7	6	3	2	3
Brown 9	8	9	5	6	3	3	4	5	3	6	6	4	6	4	2	2	2
Brown Solar	0	0	9	15	15	15	15	15	15	15	15	15	15	15	15	15	15
Cane Run 11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 4	812	356	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	966	391	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	701	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	0	3,420	5,301	5,135	5,321	4,404	5,190	4,882	4,628	3,364	4,334	3,853	4,135	3,502	3,063	3,171	3,186
Dix Dam	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73
Ghent 1	3,158	2,665	2,840	2,855	2,536	2,772	2,680	2,703	2,578	2,923	2,840	2,965	2,950	3,013	2,851	2,501	2,928
Ghent 2	3,567	3,204	3,102	2,994	2,732	2,566	2,898	2,923	3,190	3,281	3,368	3,326	3,008	3,446	3,357	3,371	3,351
Ghent 3	2,667	2,917	2,843	2,417	1,884	2,060	2,223	2,380	2,595	2,645	2,757	2,456	2,815	2,932	2,835	2,827	2,800
Ghent 4	2,819	2,746	2,695	2,007	1,410	1,668	1,623	1,634	2,152	2,312	2,281	2,351	2,445	2,571	2,271	2,527	2,496
Green River 3	263	94	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	659	194	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	0	0	0	0	4,942	4,830	4,340	4,074	3,308	3,221	3,146	3,286	3,302	2,884	2,716	1,683	1,784
Haefling	0	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0
Mill Creek 1	1,986	1,724	1,801	1,936	1,979	1,923	2,042	1,812	2,153	2,079	2,178	2,064	2,211	2,110	2,191	1,923	2,243
Mill Creek 2	1,958	1,787	1,701	2,126	1,923	2,087	1,805	2,149	2,084	2,232	2,098	2,248	2,129	2,252	1,936	2,225	2,124
Mill Creek 3	2,591	2,248	1,442	1,810	1,858	1,690	1,904	1,828	2,033	1,939	2,076	2,022	2,182	1,947	2,235	2,102	2,280
Mill Creek 4	2,298	2,155	2,063	2,830	2,536	2,736	2,661	2,871	2,630	3,140	2,929	3,174	2,994	3,252	3,075	3,224	2,815
Ohio Falls	240	255	262	261	261	261	262	261	261	261	262	261	261	261	262	261	261
Paddys Run 11	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	0	1	1	1	0	1	0	0	0	1	1	0	1	0	0	0	0

Attachment to Response to SC-1 Question No. 7(f)

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Sinclair

Generation (GWh)**Mid Gas, Base Load, Zero Carbon Scenario; 75% Share of Trimble County 1 & 2**

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Paddys Run 13	175	152	122	133	81	112	93	102	102	107	100	111	116	117	99	69	74
Trimble Co 05	321	328	246	224	155	187	132	143	109	161	136	151	145	145	108	69	63
Trimble Co 06	284	291	166	214	131	163	115	106	130	151	119	137	132	120	95	60	56
Trimble Co 07	246	245	178	179	108	144	107	118	105	137	106	111	117	110	83	54	57
Trimble Co 08	71	70	54	54	28	38	32	33	29	42	36	32	36	31	15	13	16
Trimble Co 09	193	190	142	143	82	109	81	92	81	105	79	84	88	83	63	40	40
Trimble Co 10	54	57	42	47	16	27	22	21	21	27	31	23	25	22	12	9	10
Trimble County 1	2,991	2,798	2,965	2,353	2,612	2,435	2,745	2,561	2,905	2,707	2,908	2,466	2,972	2,704	2,961	2,619	2,930
Trimble County 2	3,759	4,390	4,032	4,323	3,644	4,374	4,008	4,361	3,995	4,350	3,987	4,370	3,687	4,359	3,947	4,353	3,974
Zorn 1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Generation (GWh)
Mid Gas, Base Load, Zei

Unit	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Brown 1	296	323	403	375	367	369	345	378	385	401	410	422
Brown 10	3	2	3	3	2	1	2	1	1	2	2	4
Brown 11	4	5	5	6	6	3	3	2	4	3	4	7
Brown 2	675	830	848	839	895	895	824	682	819	881	895	931
Brown 3	1,229	1,224	1,210	1,306	1,434	1,288	1,315	1,324	1,351	1,149	1,409	1,391
Brown 5	6	5	6	8	7	4	5	3	4	4	5	7
Brown 6	21	24	55	51	58	28	27	36	33	36	40	45
Brown 7	61	63	85	76	81	46	46	58	49	52	54	77
Brown 8	5	6	6	8	7	4	4	4	4	4	6	8
Brown 9	3	2	3	5	4	1	2	1	3	2	2	4
Brown Solar	15	15	15	15	15	15	15	15	15	15	15	15
Cane Run 11	0	0	0	0	0	0	0	0	0	0	0	1
Cane Run 4	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	2,923	2,940	2,418	2,828	2,815	2,751	2,462	2,314	2,595	2,822	2,632	2,847
Dix Dam	73	73	73	73	73	73	73	73	73	73	73	73
Ghent 1	2,740	2,954	2,967	3,032	3,030	2,579	2,931	2,881	2,976	2,881	3,015	3,111
Ghent 2	3,380	3,334	3,043	3,478	3,372	3,410	3,301	3,396	3,361	2,986	3,434	3,339
Ghent 3	3,008	2,687	3,128	3,136	3,113	3,122	3,020	3,207	2,796	3,179	3,122	3,203
Ghent 4	2,598	2,768	2,904	2,987	2,691	2,996	2,829	3,026	3,027	3,090	3,039	2,827
Green River 3	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	1,655	1,816	2,046	1,757	1,922	1,387	1,106	1,225	1,106	1,170	1,225	1,381
Haefling	0	0	0	0	0	0	0	0	0	0	0	0
Mill Creek 1	2,121	2,255	2,147	2,283	2,147	2,295	1,946	2,280	2,153	2,278	2,156	2,298
Mill Creek 2	2,264	2,150	2,250	2,124	2,261	1,952	2,272	2,134	2,256	2,149	2,270	2,139
Mill Creek 3	2,217	2,490	2,409	2,661	2,228	2,639	2,486	2,597	2,496	2,654	2,558	2,695
Mill Creek 4	3,263	3,164	3,423	3,149	3,398	3,262	3,319	2,961	3,444	3,223	3,451	3,264
Ohio Falls	261	262	261	261	261	262	261	261	261	262	261	261
Paddys Run 11	0	0	0	0	0	0	0	0	0	0	0	0
Paddys Run 12	0	0	0	0	0	0	0	0	0	0	0	0

Generation (GWh)
Mid Gas, Base Load, Zei

Unit	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Paddys Run 13	71	84	103	91	100	58	59	66	62	63	67	76
Trimble Co 05	68	74	92	88	104	57	42	52	48	52	62	67
Trimble Co 06	58	68	75	81	89	50	39	42	44	51	54	62
Trimble Co 07	52	61	69	77	76	46	33	36	36	46	46	53
Trimble Co 08	18	18	16	22	27	13	12	9	14	12	19	24
Trimble Co 09	46	45	47	59	60	34	24	29	28	31	38	42
Trimble Co 10	13	9	12	15	19	10	7	6	8	8	12	17
Trimble County 1	2,707	2,982	2,501	2,965	2,688	2,990	2,627	2,973	2,722	3,005	2,464	3,006
Trimble County 2	4,365	3,968	4,354	3,612	4,363	3,944	4,367	4,019	4,376	4,032	4,355	3,624
Zorn 1	0	0	0	0	0	0	0	0	0	0	0	0

Summer Capacity Rating (MW)
75% Share of Trimble County 1 & 2

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Brown 1	106	106	106	106	106	106	106	106	106	106	106	106	106	106	106
Brown 2	166	166	166	166	166	166	166	166	166	166	166	166	166	166	166
Brown 3	410	405	405	405	405	405	405	405	405	405	405	405	405	405	405
Brown IAC	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Brown 5	112	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Brown 6	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Brown 7	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Brown 8	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 9	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 10	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 11	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown Solar	0	0	9	9	9	9	9	9	9	9	9	9	9	9	9
Cane Run 11	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Cane Run 4	155	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	168	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	240	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	0	640	640	640	640	640	640	640	640	640	640	640	640	640	640
Dix Dam 1	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Dix Dam 2	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Dix Dam 3	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ghent 1	487	481	481	481	481	481	481	481	481	481	481	481	481	481	481
Ghent 2	493	493	484	484	484	484	484	484	484	484	484	484	484	484	484
Ghent 3	476	476	476	476	476	476	476	476	476	476	476	476	476	476	476
Ghent 4	477	471	471	471	471	471	471	471	471	471	471	471	471	471	471
Green River 3	68	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	95	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	0	0	0	0	670	670	670	670	670	670	670	670	670	670	670
Haefling 1	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Haefling 2	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Haefling 3	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Mill Creek 1	303	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Mill Creek 2	301	297	297	297	297	297	297	297	297	297	297	297	297	297	297
Mill Creek 3	391	391	385	385	385	385	385	385	385	385	385	385	385	385	385
Mill Creek 4	477	466	466	466	466	466	466	466	466	466	466	466	466	466	466
Ohio Falls 1	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 2	6	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 3	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 4	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8

Summer Capacity Rating (MW)
75% Share of Trimble County 1 & 2

Unit	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
Ohio Falls 5	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 6	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Paddy's Run 11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Paddy's Run 12	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Paddy's Run 13	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147
Trimble County 1	383	383	379	379	379	379	379	379	379	379	379	379	379	379	379
Trimble County 2	549	549	549	549	549	549	549	549	549	549	549	549	549	549	549
Trimble County 5	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 6	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 7	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 8	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 9	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 10	157	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Zorn 1	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14

Summer Capacity Rating (MW)
75% Share of Trimble County 1 & 2

Unit	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Brown 1	106	106	106	106	106	106	106	106	106	106	106	106	106	106
Brown 2	166	166	166	166	166	166	166	166	166	166	166	166	166	166
Brown 3	405	405	405	405	405	405	405	405	405	405	405	405	405	405
Brown IAC	98	98	98	98	98	98	98	98	98	98	98	98	98	98
Brown 5	112	112	112	112	112	112	112	112	112	112	112	112	112	112
Brown 6	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Brown 7	146	146	146	146	146	146	146	146	146	146	146	146	146	146
Brown 8	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 9	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 10	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown 11	102	102	102	102	102	102	102	102	102	102	102	102	102	102
Brown Solar	9	9	9	9	9	9	9	9	9	9	9	9	9	9
Cane Run 11	14	14	14	14	14	14	14	14	14	14	14	14	14	14
Cane Run 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 6	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cane Run 7	640	640	640	640	640	640	640	640	640	640	640	640	640	640
Dix Dam 1	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Dix Dam 2	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Dix Dam 3	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ghent 1	481	481	481	481	481	481	481	481	481	481	481	481	481	481
Ghent 2	484	484	484	484	484	484	484	484	484	484	484	484	484	484
Ghent 3	476	476	476	476	476	476	476	476	476	476	476	476	476	476
Ghent 4	471	471	471	471	471	471	471	471	471	471	471	471	471	471
Green River 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Green River 5	670	670	670	670	670	670	670	670	670	670	670	670	670	670
Haefling 1	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Haefling 2	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Haefling 3	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Mill Creek 1	300	300	300	300	300	300	300	300	300	300	300	300	300	300
Mill Creek 2	297	297	297	297	297	297	297	297	297	297	297	297	297	297
Mill Creek 3	385	385	385	385	385	385	385	385	385	385	385	385	385	385
Mill Creek 4	466	466	466	466	466	466	466	466	466	466	466	466	466	466
Ohio Falls 1	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 2	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 3	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 4	8	8	8	8	8	8	8	8	8	8	8	8	8	8

Summer Capacity Rating (MW)
75% Share of Trimble County 1 & 2

Unit	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
Ohio Falls 5	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 6	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 7	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Ohio Falls 8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
Paddy's Run 11	12	12	12	12	12	12	12	12	12	12	12	12	12	12
Paddy's Run 12	23	23	23	23	23	23	23	23	23	23	23	23	23	23
Paddy's Run 13	147	147	147	147	147	147	147	147	147	147	147	147	147	147
Trimble County 1	379	379	379	379	379	379	379	379	379	379	379	379	379	379.25
Trimble County 2	549	549	549	549	549	549	549	549	549	549	549	549	549	549
Trimble County 5	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 6	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 7	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 8	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 9	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Trimble County 10	157	157	157	157	157	157	157	157	157	157	157	157	157	157
Zorn 1	14	14	14	14	14	14	14	14	14	14	14	14	14	14