

**Case E-Whitman
and 2030 generic Hydro**

winter load growth => 0.50%
summer load growth => 0.50%

2016 to 2046 Avg
8,814.2 10,871.8 6,358.4

Year/Month	Monthly total Energy (MWh)												Totals in MWh			Total	KPU	345	350	340
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Spill	Diesel	Load	% Diesel	% Diesel	MWh		
2011	0	0	0	0	0	0	0	9,395	9,395	9,395	0	0	28,185	0	266,188	0	0	10,000	13,420	6,613
2012	464	0	0	0	0	1,330	0	6,993	6,993	6,993	0	0	20,979	1,794	275,188	0.7%	1.1%	10,000	13,420	6,613
2013	1,149	0	0	0	0	1,825	0	5,120	5,120	5,120	0	0	15,359	2,974	281,987	1.1%	1.8%	10,000	13,420	6,613
2014	2,097	0	196	0	0	2,567	0	3,766	3,766	3,766	118	1,175	11,299	6,153	289,227	2.1%	3.7%	10,000	11,299	6,613
2015	2,542	0	509	0	0	1,949	0	5,360	5,360	5,360	0	1,546	16,081	6,546	296,467	2.2%	3.8%	10,000	13,420	6,613
2016	2,701	0	1,162	835	0	1,948	0	4,390	4,390	4,390	0	2,907	13,169	9,553	302,386	3.2%	5.4%	10,000	13,169	6,613
2017	2,857	4	1,302	960	0	2,049	0	4,115	4,115	4,115	0	3,070	12,346	10,241	303,898	3.4%	5.8%	10,000	12,346	6,613
2018	3,241	304	1,603	1,234	0	2,289	0	3,522	3,522	3,522	0	3,469	10,566	12,139	307,575	3.9%	6.8%	10,000	10,566	6,613
2019	3,400	435	1,745	1,360	0	2,391	0	3,285	3,285	3,285	0	3,634	9,855	12,966	309,113	4.2%	7.2%	9,855	9,855	6,613
2020	3,559	567	1,887	1,488	0	2,495	0	3,047	3,047	3,047	0	3,801	9,141	13,797	310,658	4.4%	7.7%	9,141	9,141	6,613
2021	3,720	699	2,031	1,616	0	2,599	0	2,808	2,808	2,808	0	3,968	8,423	14,632	312,212	4.7%	8.1%	8,423	8,423	6,613
2022	3,881	832	2,175	1,745	0	2,703	0	2,592	2,592	2,592	73	4,136	7,775	15,545	313,773	5.0%	8.5%	7,775	7,775	6,613
2023	4,043	966	2,319	1,874	0	2,808	0	2,397	2,397	2,397	215	4,305	7,191	16,531	315,341	5.2%	9.0%	7,191	7,191	6,613
2024	4,206	1,100	2,465	2,004	0	2,914	0	2,202	2,202	2,202	358	4,474	6,605	17,521	316,918	5.5%	9.5%	6,605	6,605	6,605
2025	4,369	1,235	2,611	2,135	0	3,019	0	2,005	2,005	2,005	501	4,645	6,016	18,516	318,503	5.8%	10.0%	6,016	6,016	6,016
2026	4,534	1,371	2,758	2,267	63	3,126	0	1,829	1,829	1,829	645	4,816	5,487	19,580	320,095	6.1%	10.5%	5,487	5,487	5,487
2027	4,699	1,507	2,905	2,399	182	3,233	0	1,670	1,670	1,670	790	4,989	5,010	20,704	321,696	6.4%	11.1%	5,010	5,010	5,010
2028	4,865	1,644	3,054	2,531	301	3,341	112	1,548	1,548	1,548	936	5,162	4,643	21,945	323,304	6.8%	11.7%	4,643	4,926	4,643
2029	5,032	1,782	3,203	2,665	420	3,449	232	1,427	1,427	1,427	1,082	5,336	4,281	23,200	324,921	7.1%	12.3%	4,281	4,926	4,281
2030	3,551	388	2,112	318	0	0	0	12,996	12,996	12,996	0	3,162	38,989	9,532	326,545	2.9%	5.0%	10,000	13,420	6,613
2031	3,720	527	2,263	453	0	0	0	12,708	12,708	12,708	0	3,338	38,125	10,301	328,178	3.1%	5.4%	10,000	13,420	6,613
2032	3,889	667	2,414	588	0	0	0	12,419	12,419	12,419	0	3,515	37,257	11,073	329,819	3.4%	5.8%	10,000	13,420	6,613
2033	4,060	807	2,566	724	0	0	0	12,128	12,128	12,128	0	3,692	36,384	11,850	331,468	3.6%	6.2%	10,000	13,420	6,613
2034	4,231	949	2,719	861	0	0	0	11,836	11,836	11,836	0	3,871	35,507	12,630	333,125	3.8%	6.5%	10,000	13,420	6,613
2035	4,403	1,090	2,873	998	0	0	0	11,542	11,542	11,542	0	4,050	34,625	13,414	334,791	4.0%	6.9%	10,000	13,420	6,613
2036	4,576	1,233	3,027	1,137	0	0	0	11,247	11,247	11,247	0	4,230	33,740	14,202	336,465	4.2%	7.3%	10,000	13,420	6,613
2037	4,749	1,376	3,182	1,275	0	0	0	10,950	10,950	10,950	0	4,411	32,849	14,995	338,147	4.4%	7.6%	10,000	13,420	6,613
2038	4,924	1,520	3,338	1,415	0	0	0	10,652	10,652	10,652	0	4,593	31,955	15,791	339,838	4.6%	8.0%	10,000	13,420	6,613
2039	5,099	1,665	3,495	1,555	0	0	0	10,352	10,352	10,352	0	4,776	31,055	16,591	341,537	4.9%	8.4%	10,000	13,420	6,613
2040	5,276	1,810	3,653	1,696	0	0	0	10,051	10,051	10,051	0	4,960	30,152	17,395	343,245	5.1%	8.7%	10,000	13,420	6,613
2041	5,453	1,956	3,811	1,838	0	0	0	9,748	9,748	9,748	0	5,145	29,243	18,203	344,961	5.3%	9.1%	10,000	13,420	6,613
2042	5,631	2,103	3,970	1,980	0	0	0	9,444	9,444	9,444	0	5,330	28,331	19,015	346,686	5.5%	9.5%	10,000	13,420	6,613
2043	5,810	2,251	4,130	2,123	0	0	0	9,138	9,138	9,138	0	5,517	27,413	19,831	348,419	5.7%	9.8%	10,000	13,420	6,613
2044	5,990	2,399	4,290	2,267	0	0	0	8,830	8,830	8,830	0	5,704	26,491	20,651	350,161	5.9%	10.2%	10,000	13,420	6,613
2045	6,171	2,548	4,452	2,411	0	0	0	8,522	8,522	8,522	0	5,893	25,565	21,475	351,912	6.1%	10.5%	10,000	13,420	6,613
2046	6,353	2,698	4,614	2,556	0	0	0	8,211	8,211	8,211	0	6,082	24,634	22,304	353,672	6.3%	10.9%	10,000	13,420	6,613
2047	6,535	2,849	4,777	2,702	0	0	0	7,899	7,899	7,899	0	6,273	23,698	23,136	355,440	6.5%	11.2%	10,000	13,420	6,613
2048	6,719	3,000	4,941	2,849	0	0	0	7,586	7,586	7,586	0	6,464	22,758	23,973	357,217	6.7%	11.6%	10,000	13,420	6,613
2049	6,903	3,152	5,106	2,996	0	0	0	7,319	7,319	7,319	143	6,656	21,956	24,957	359,003	7.0%	12.0%	10,000	13,420	6,613
2050	7,089	3,305	5,271	3,144	0	0	0	7,056	7,056	7,056	306	6,849	21,168	25,965	360,798	7.2%	12.4%	10,000	13,420	6,613

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