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Xcel Energy Data Request No. 1-5
Docket No.: EL19-019
Response To: South Dakota Public Utilities Commission
Requestor: Eric Paulson
Date Received: September 4, 2019

Question:

Provide the avoided energy, avoided generation, and avoided transmission and distribution cost schedules used in the 2018 and 2020 benefit/cost models.

Response:

For both the 2018 and 2020 benefit/cost models, please see the tables below for the avoided energy, avoided generation, and avoided transmission and distribution cost schedules.

We note the following sources of information:

- **Capacity Cost (\$/kW-Year):** CT Cost Modeling in 2015 IRP update - Includes capital (\$56.29) and O&M (\$2.75), adjusted for reserve margin (1.75%) and then a fixed gas charge (\$0.00) added.
- **T&D Cost (\$/kW-Year):** 2013 value carried over from previous triennial that was consistent with CO and NM that loosely ties back to a 2004 Nexant study - 2010 value of 31.17 escalated 3 years at prior escalation of 1.92 percent.
- **Marginal Energy System Load Weighted Average (\$/kWh):** Based off current assumptions from Resource Planning - Sept 2015.

Xcel Energy's most current IRP was filed on June 1, 2019, after the filing at issue in this docket. Our 2020 Proposal therefore has defaulted to the previous avoided cost streams as identified in the previous Midwest Integrated Resource Plan.

2017-2020 MN/SD Avoided Cost Streams – Nominal Dollars

Year	Capacity Cost (\$/kW-Year)	T&D Cost (\$/kW-Year)	Marginal Energy System Load Weighted Average (\$/kWh)
2017	\$60.07	\$36.23	\$0.02618
2018	\$61.41	\$37.08	\$0.02594
2019	\$62.79	\$37.96	\$0.02803
2020	\$64.19	\$38.85	\$0.03198
2021	\$65.63	\$39.77	\$0.03377
2022	\$67.09	\$40.71	\$0.03508
2023	\$68.60	\$41.67	\$0.03662
2024	\$70.13	\$42.65	\$0.04040
2025	\$71.70	\$43.66	\$0.04217
2026	\$73.30	\$44.69	\$0.04426
2027	\$74.94	\$45.74	\$0.04645
2028	\$76.62	\$46.82	\$0.04830
2029	\$78.33	\$47.93	\$0.04989
2030	\$80.09	\$49.06	\$0.05054
2031	\$81.88	\$50.22	\$0.05029
2032	\$83.71	\$51.40	\$0.05194
2033	\$85.58	\$52.62	\$0.05458
2034	\$87.50	\$53.86	\$0.05347
2035	\$89.46	\$55.13	\$0.05376
2036	\$91.46	\$56.43	\$0.05823
2037	\$93.50	\$57.76	\$0.05895
2038	\$95.59	\$59.12	\$0.05831
2039	\$97.73	\$60.51	\$0.05831

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