

Docket Number: EL21-029
Subject Matter: Staff's Data Request 1
Request to: Montana-Dakota Utilities Co (MDU)
Request from: South Dakota Public Utilities Commission Staff
Date of Request: 10/27/21
Responses Due: 11/10/21

1.1. Provide a list of all inputs and assumptions used in the model to determine the avoided energy costs. Also, provide the source/basis for each input/assumption and indicate any that are required by other jurisdictions. Outline any new sources or major inputs that have been change by MDU in the past year.

Response:

Customer load forecast	2022-2041 MDU Load Forecast
Typical hourly load profile	2011 MDU customer load profile
MDU Owned generating resources	Actual information
Committed generating resources	None
Power Purchase Agreements	Minnkota Power Purchase Agreement (June 2021-May 2026)
Generating unit heat rates	Generator performance data
Generating unit O&M costs	MDU forecast
Generator outage schedules	MDU outage forecast
Generator retirement dates	Lewis & Clark 1 – 3/31/2021 Heskett 1 & 2 - 3/31/2022
Coal fuel pricing	MDU Power Production forecast
Natural Gas fuel pricing	MDU Gas Supply forecast – with 3% escalator
Fuel oil pricing	Current pricing
Hourly wind production	2017 data for each wind project
MISO Market Energy Purchases	250 MW hourly Max indefinitely
MISO Energy Market price	MDU forecast – 3 year historic avg with 3% escalator

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1.2. How has MDU's Gas Supply forecast changed, if any, from last year's filing and how has that affected the avoided energy costs? Provide forecasts if available.

Response:

Following are the forecasted gas prices included in the 2021 and 2022 plan. The increase in gas prices would be minimal on the 2022 rates as the Company's avoided cost rates are largely determined by the MISO price forecast.

	5-year cost projection	
	2021 Plan	2022 Plan
Lewis & Clark		
2021	\$2.92	
2022	\$2.70	\$3.29
2023	\$2.85	\$3.14
2024	\$3.01	\$3.09
2025	\$3.13	\$3.23
2026		\$3.17
Heskett III		
2021	\$2.68	
2022	\$2.46	\$3.26
2023	\$2.61	\$3.11
2024	\$2.77	\$3.06
2025	\$2.89	\$3.20
2026		\$3.14
Glendive & Miles City CTs		
2021	\$4.01	
2022	\$3.75	\$3.91
2023	\$3.89	\$3.82
2024	\$4.12	\$3.89
2025	\$4.27	\$3.91
2026		\$3.89

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1.3. Refer to the two customers currently taking service under Rate 95.

- a. What type of generation do these customers have? (wind, solar, etc.)
- b. What six months did the customers provide generation to the Company (and how much was provided each month)?

Response:

- a. One customer has wind generation and the other customer has solar generation.
- b. Excess generation was purchased by the Company from the customer that has solar generation. No excess generation was purchased from the customer with wind generation. See the table below for the months and the amount purchased:

	Kwh
	<u>Purchased</u>
April 2021	1,352
May	1,269
June	1,590
July	1,276
August	948
September	967