

**MONTANA-DAKOTA UTILITIES CO.  
SOUTH DAKOTA PUBLIC UTILITIES COMMISSION  
DATA REQUEST NO. 1  
DATED JUNE 28, 2013  
DOCKET NO. EL13-023**

**1-1) Did MDU run any capacity expansion models?**

**Response:**

Yes.

**1-2) If so, when was the most recent?**

**Response:**

Montana-Dakota ran capacity expansion modeling as part of its 2013 Integrated Resource Plan (2013 IRP) filed with the North Dakota Public Service Commission on July 1, 2013 and submitted to the South Dakota Public Utilities Commission on July 2, 2013.

**1-3) What types of futures were considered in the modeling?**

**Response:**

As explained in more detail in Volume IV, Attachment C of the 2013 IRP, Montana-Dakota's capacity expansion modeling included:

1. Simple cycle natural gas-fired combustion turbines
2. Combined cycle natural gas-fired combustion turbines
3. Internal combustion engines
4. Coal-fired generation
5. Wind generation
6. Solar generation
7. Geothermal
8. Biomass
9. Purchased wind energy
10. Lewis & Clark options

**1-4) What are the key sensitivities included in these futures?**

**Response:**

1. High and low natural gas prices
2. \$30 and \$50 carbon tax
3. High and low growth

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4. High capital cost for combustion turbines
5. Lewis & Clark Options
6. Current MISO Resource Adequacy Requirements

**1-5) What did you reflect from the capacity expansion modeling in your PLEXOS model?**

**Response:**

The first generating resource selected by Montana-Dakota's capacity expansion modeling were two 36 MW internal combustion engines in the year 2015, the year Montana-Dakota becomes capacity deficient, in addition to the 88 MW Heskett III simple cycle combustion turbine. The PLEXOS Model used to determine avoided energy costs represents the time frame 2013-2014 and is therefore based on existing resources including MISO purchases.

**1-6) Does MDU anticipate any near-term changes in regard to President Obama's climate change proposal that he mentioned this week?**

**Response:**

No the Company does not anticipate any near-term changes.

**1-7) What is the proposed date of the modified rate? If Staff receives information for this data request by July 3, 2013, this docket could be on the July 11, 2013 Commission meeting. The next Commission meeting is on July 30, 2013.**

**Response:**

If this request is ready for the July 11 Commission meeting, Montana-Dakota suggests an effective date of service rendered on and after July 19, 2013.