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Xcel Energy

Docket No.: EL16-037

Response To: South Dakota Public
Utilities Commission

Data Request No. 5-6

Requestor: Tina Douglas

Date Received: June 21, 2017

Question:

At the time that NSP issued the Solar Portfolio RFP:

- a. What was the MW and MWh projection for meeting Minnesota’s Solar Energy Standard for 2020?
- b. Which vintage of the load forecast was used to develop these estimates?

Provide a narrative response along with an Excel spreadsheet that shows the calculations.

Response:

The table below provides the projection of energy and capacity required to meet the Minnesota Solar Energy Standard obligation based on our August 2014 sales forecast. This calculation represents only the MW required to meet the Minnesota obligation, and does not reflect a system allocation of this resource.

Year	MN Retail Sales Forecast (August 2014)	MN SES Compliance	Blended Capacity Factor	Solar Resources, Nameplate
	Gwh	Gwh	%	MW
2020	30,987	461	21%	250

Attachment A to this response provides an Excel spreadsheet with formulas intact.

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Date: July 14, 2017

	MN Retail Sales Forecast (August 2014)	SES Excluded Sales	MN SES Sales Forecast	MN SES Compliance	Blended Capacity Factor	Solar Resources, Nameplate	Solar Resources <20 GWh, 10% Carve- Out	Small Solar Capacity Factor	Solar Resources <20 kW, Nameplate	Solar Resources >20 kW	Large Solar Capacity Factor	Solar Resources >20 kW, Nameplate
	Gwh	Gwh	Gwh	Gwh	%	MW	GWh	%	MW	GWh	%	MW
2020	30,987	282	30,705	461	21%	250	46	15%	35	415	22%	215

	MN Retail Sales Forecast (August 2014)	MN SES Compliance	Blended Capacity Factor	Solar Resources, Nameplate
	Gwh	Gwh	%	MW
2020	30,987	461	21%	250