

OTTER TAIL POWER COMPANY

Docket No: EL21-015

Response to: SD Public Utilities Commission

Analyst: SD PUC Staff

Date Received: May 21, 2021

Date Due: June 04, 2021

Date of Response: June 11, 2021

Responding Witness: Jason A. Grenier, Manager Market Planning - (218) 739-8639

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Data Request:

Refer to the chart at the top of page 9 of the Status Report. Explain why the energy savings met 171 percent of the goal while the demand savings only met 46 percent of the goal.

Attachments: 0

Response:

In Otter Tail's 2020 EEP residential lighting program, the Company proposed a relatively simple lighting program with a single, screw-in lamp measure producing 0.042 kW of demand savings, 34.28 kWh in annual energy savings, and approximately 938 hours of operation. Actual results from 2020 EEP activity, when compared to the proposed numbers, produced projects with higher installation costs and considerably higher energy savings due to the average hours of operation being 4,550 hours, which is more consistent with hard-wired lighting upgrades. Approximately 51% of the 2020 residential lighting projects were hard-wired.

Essentially, actual lights installed operated for about 4.5 times the hours of what was proposed causing much higher energy savings; the demand savings did not increase similarly since they are not dependent on the hours of operation like the energy savings.