

OTTER TAIL POWER COMPANY
Docket No: EL16-020

Response to: South Dakota Public Utilities Commission
Analyst: SDPUC Staff
Date Received: 09/08/2016
Date Due: 09/23/2016
Date of Response: 09/23/2016
Responding Witness: Jason A. Grenier, Manager Market Planning - (218) 739-8639

Information Request:

Beyond the measures identified in the Energy Efficiency Plan and those provided in response to DR 1-3, did Otter Tail consider adding any additional measures in the 2017-19 DSM Plan. If so, please provide a summary of the measures considered and why the measure did not end up in the proposed DSM Plan.

Attachments: 0

Response:

Otter Tail Power Company staff continuously evaluate energy efficiency products and technologies in various stages of development, market maturity, and availability through channels such as E Source; American Society of Heating, Refrigeration, and Air-conditioning Engineers; Illuminating Engineering Society of North American (IESNA); U.S. Department of Energy; product distributors; and other vendors and contractors. Potential end-use technologies and products available for the 2016 included:

1. Commercial Design Assistance:
 - a) Analysis of building design options featuring energy-using systems and building envelopes exceeding energy code baselines.
 - b) Incentives for design team participation.
 - c) Incentives for final building design and construction exceeding baseline energy code.

2. Commercial Refrigeration – Incentives for the following commercial refrigeration system measures:
 - a) Parallel compressor racks.
 - b) Conversion to solid state compressor controls.
 - c) Preservation of condenser subcooling.
 - d) Floating head pressure on compressor racks and stand-alone compressors.
 - e) Antisweat heater controls.
 - f) High efficiency glass display case doors.

- g) High efficiency evaporator fan motors.
- h) Solid state condenser fan controls.
- i) Outdoor air cooling.
- j) LED lighting in low-temp and medium-temp cases.
- k) Preventive maintenance measures.

3. Building Recommissioning:

Incentives for owners and operators of various-sized commercial buildings to complete professional studies identifying opportunities to make inefficient buildings operate as efficiently as originally intended. Typical measures include adjustments and programming of automated building control systems and restoring adequate operation of economizers.

4. Compressed Air:

- a) Studies to identify opportunities for improvements in compressed air systems.
- b) Studies to identify and repair costly, energy-wasting compressed leaks.
- c) Other compressed air efficiency measures, including no-loss drains, efficient compressors, and flow controllers.

5. Commercial kitchen/food service equipment meeting or exceeding Energy Star qualifications:

- a) Solid- and glass-door refrigerators and freezers.
- b) Fryers.
- c) Griddles.
- d) Steamers.
- e) Hot food holding cabinets.
- f) Ovens.
- g) Ice machines.
- h) Dishwashers.

6. Residential appliance recycling rebates for older working units. The number of vendors providing this type of service is limited. Otter Tail explored using our Minnesota vendor in our South Dakota territory; however, it was not cost effective.

- a) Refrigerators.
- b) Freezer.

7. Residential LED bulb rebates:

Offering in-store rebates were considered, but Otter Tail faces a limitation in the number of retailers to work with in our service territory. This made the program not cost effective.

In addition, when our South Dakota commercial customers inquire about any of the above technologies, Otter Tail can provide incentives for these installations through the Company's Custom Efficiency program, assuring our commercial customers purchasing and installing these technologies will receive an incentive for doing so.

Otter Tail selected a portfolio of conservation programs that maximizes cost-effectiveness, minimizes administrative costs, and maximizes potential for customer adoption. Otter Tail believes the 2017-19 program portfolio builds off our previous successes with similar programs and is the most cost-effective plan for South Dakota customers at our proposed budget level. We closely monitor each program throughout the year to ensure participation and cost-effectiveness. If Otter Tail identifies the need for program adjustments or new programs during the 2017-19 Plan, the Company will work with the South Dakota Public Utilities Commission and their staff to keep our plan performing at a high level.