

5/10/2021

PROGRAM ADMINISTRATION

UTAH

COOL KEEPER LOAD CONTROL PROGRAM Program Year 2020

Program Description

Peak Reduction programs assist the Company in balancing customer energy use during heavy peak summer hours. Further, it assists in deferring the need for higher cost investments in delivery infrastructure and generation resources that would otherwise be needed to serve those loads for a select few hours each year. These programs help the Company maximize the efficiency of the Company's existing electrical system and reduce costs for all customers.

The *Cool Keeper* program is an air conditioner direct load management program targeting residential and commercial customers who cool their homes and businesses with electric central air conditioners. The program is called upon for a curtailment under varying circumstances. Due to the flexibility of the program and the real-time dispatch capabilities the resources can be utilized for various smart grid applications. When there is a grid need, the *Cool Keeper* control equipment installed on a participating customer's cooling equipment is sent a signal to cycle the operation of the air conditioners compressor "off and on" for brief periods each hour in coordination with the air conditioners of other participating customers. For their participation, customers receive a monthly bill credit for participation. In the event of a system emergency, the Company may, at its discretion, expand the dispatch parameters as noted in the tariff¹. For program participants who are not enrolled for the entire season will receive a daily pro-rated credit for program participation.

The *Cool Keeper* load control system operates through two-way communications equipment with a wireless mesh network for improved control, measurement and verification of program performance.

PROGRAM ADMINISTRATION

The *Cool Keeper* program is administered by Franklin Energy and Eaton. Franklin Energy is responsible for:

¹ https://www.rockymountainpower.net/content/dam/pcorp/documents/en/rockymountainpower/rates-regulation/utah/rates/114_Load_Management_Program.pdf

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- Field operations including trouble calls, installation, and maintenance of the *Cool Keeper* devices,
- Customer satisfaction including call center support,
- Management of *Cool Keeper* participation data and reporting to actively manage the program,
- Quality control of the *Cool Keeper* device infrastructure to ensure a 99% availability of active devices, and
- Marketing to maintain a minimum level of participation and megawatt reductions.

Eaton is responsible for:

- Manufacture and delivery of the *Cool Keeper* devices,
- Installation, operation, and maintenance of the wireless mesh communication network,
- Quality control of the wireless mesh network,
- A hosted solutions platform to dispatch and monitor the health of the communication network, and
- Program analytics including the ability to gain insight into the system and identify *Cool Keeper* devices which are no longer communicating.