

Opportunity to participate

Refrigeration thermal energy storage research pilot

Slipstream, an independent nonprofit with funding from the Minnesota Department of Commerce, is seeking pilot sites to test the potential for refrigeration thermal energy storage (RTES) systems to save energy, limit demand, and reduce carbon emissions on the grid.

RTES systems include traditional ice storage and new technologies using phase change materials and controls-based thermal flywheeling. These systems shift energy usage to time periods with lower prices and implement demand management. Built-in analytics help lower operating and maintenance costs and improve temperature management.

Why participate?

New refrigeration thermal energy storage technologies can save energy, reduce bills, and lower operation and maintenance costs. Grocery stores, cold storage facilities, or other existing buildings with large refrigeration systems are encouraged to apply.

Ideal candidates

- Facilities with large, centralized refrigeration systems (grocery stores, cold storage facilities, etc).
- Located in Minnesota

Benefits of participating

- Up-front installation costs covered up to \$5,000
- Coordination with utility staff to identify eligibility for additional incentives and support
- Gain first-hand experience with cutting edge technology and advanced control strategies
- Free technical assistance to support project implementation
- Free measurement and verification services to quantify energy savings impacts and return on investment
- Publicity through MN CARD case studies



Requirements for participating

- Implement a refrigeration thermal energy storage strategy
- Allow Slipstream to install non-intrusive monitoring equipment
- Engage with Slipstream to complete short interviews and schedule site visits as needed
- Analysis of data collected during the study, and relevant facility characteristics, will be made public

Want to learn more?

If you are interested to learn if your facility is eligible to participate, please contact Slipstream:

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