

Viking Cold Solutions™

launches Solar Energy Storage

the greenest most cost-effective solar storage for cold storage facilities and supermarkets.

Viking Cold Solutions™, a leading provider of Thermal Energy Management solutions for cold storage facilities and supermarkets, announced the launch of Solar Energy Storage™, bundling Viking Cold's Thermal Energy Storage system with rooftop solar photovoltaic (PV) to deliver green, cost-effective, around-the-clock energy management for cold storage facilities, supermarkets, and utilities.

Viking Cold combines its Thermal Energy Storage system with renewable energy sources, such as PV systems, making it possible for cold-storage facilities, supermarkets, and utilities to intelligently store and deploy refrigeration to reduce energy costs. This environmentally friendly solution solves one of the largest challenges to solar energy utilization by reducing renewable variability.

"Solar has proven to be a low-cost, reliable, and green generation resource, but it creates a new problem for utilities with its intermittent nature and customers that require around the clock refrigeration." said James Bell, CEO of Viking Cold Solutions. "Until now, the missing piece has been cost-effective and reliable thermal energy storage. Our system enables cold storage operators to sustainably protect their products, while lowering

operating costs, and makes solar energy much more accessible to companies driven by green business practices."

Viking Cold's Thermal Energy Storage solution in combination with PV generation stores thermal energy and deploys it during peak demand or the evening or any time of no PV generation. As a result, electricity peak demand can be reduced by up to 90 percent.

Utilities benefit from Viking Cold's Solar Energy Storage solution by providing a "buffer" of efficient and green, on-demand Thermal Energy Storage at customer sites. The solution also helps stabilize the grid, enabling more intermittent users and suppliers of electricity to safely interconnect and helps achieve local mandatory energy storage targets.



Viking Cold Solutions™ is a thermal energy management company focused on making the world's cold storage systems smarter and more efficient. Their Thermal Energy Storage Systems have saved their clients over 5587 MWh of energy and have removed over 3853 metric tons of Carbon from the air. Their team has deep expertise in cold storage energy management, supermarket energy management, and thermal energy storage systems.

Viking Cold provides environmentally friendly thermal energy storage that reduces operational costs and business risk for cold storage and supermarkets with high refrigeration-based energy loads. The company is expanding rapidly throughout the U.S. and internationally. Learn more at www.vikingcold.com.

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Rooftop solar and Viking Cold's Solar Energy Storage™ share many advantages, making them a perfect combination:

- **Increase the value of solar PV** - by storing energy during the day and using it for refrigeration at night (increasing savings)
- **Cost-effectiveness and system longevity** - Rooftop solar and Viking Cold's Solar Energy Storage are low-cost and are designed to last for at least 20 years or the life of the facility, with minimal maintenance
- **Lower peak demand charges** - Peak load shedding or shifting at any time of day increases savings during periods of renewable variability or peak rate times
- **Reduce operational risk** - Thermal backup allows customers to maintain safe temperatures and food quality during power outages or equipment failure, reducing business interruption and perishable food loss
- **Economic development** - Rooftop solar and Viking Cold's Solar Energy Storage use local engineering and labor, leveraging utility investments to boost the local economy

Deployments of solar-plus-storage nationwide are expected to jump from 22 megawatts in 2015 to 769 megawatts in 2020 according to research conducted by Greentech Media. This market is projected to be worth \$3.1 billion.

Protecting What Is Vital™
along every part of the global cold chain