INNOVATIVE COLD STORAGE ENTERPRISES

A Super Chill Company Philosophy

Otay Mesa, CA

WWW.HESRENEWABLES.COM

CHALLENGE

Innovative Cold Storage Enterprises, Inc. a/k/a "ICE" is a cold storage service company with a strong dedication to sustainability; so much so that the company uses chemical-free cooling tower water for landscape watering, installed permeable paving to allow rainwater to reach the ground, and even flushes toilets with repurposed refrigerant condensate. Expansion to a second location with 7,500,000 cubic feet of cold storage necessitated a renewable energy solution to keep with the company's strong sustainability commitment.

Refrigerated storage is a business that relies on energy not to maintain production, but to protect all the products that its 1,850 clients entrust ICE to maintain at proper temperature. ICE needed a reliable solution that could keep products cool or frozen using green energy and also build in a safety net in the instance of a grid power outage.

QUICK FACTS

831 kW	Total System Size
2320 kWh	Storage Capacity
10-battery bank Tesla Powerpack	Storage System
1,306,312 kWh	Estimated Annual Output
45%	Annual Electricity Offset

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SOLUTION

The groundbreaking company, Innovative Cold Storage Enterprises, had commissioned one of the first large-scale commercial solar projects in San Diego (2009). After a decade of energy production success, it wanted to increase its energy production as well as replace a portion of the existing system due to unfavorable buy-out contract terms. The HES Renewables team was the perfect group to expand the existing solar system with 2104 Maxeon-built panels in a rooftop and carport solar array design. HES Renewables added additional autonomy and security by tying a 10-battery bank Tesla Energy storage system to the system.

CUSTOMER BENEFIT

"ICE" now operates on over 45% solar energy; the battery system 100% discharges the batteries on well over 300 days each year. This use of stored solar energy from the Tesla Energy storage system accounts for as much as 70% of renewable energy use during winter months. During summer months the PV system overproduces enough to strongly offset utility costs. This HES Renewables solution not only stabilizes and lowers energy costs for the company but holds to the sustainability tenent of Innovative Cold Storage Enterprises. Running the refrigeration units renewable energy provides cost savings that ICE is able to pass on to its customers.

"We pride ourselves on bringing efficient clean energy to cold storage facilities."

Innoativecold.com website homepage

866.HES.RNEW

sales@hesrenewables.com

9085 Aero Drive, Suite A, San Diego, California, 92123

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