

PepsiCo

Drinking Up California Sunshine

Santee, CA



www.HESolar.com



CHALLENGE

PepsiCo is a worldwide leader in the food and beverage industry and has been leading the move to sustainable practices and renewable energy. This PepsiCo distribution center needed to be a perfect expression of one of the corporation's key climate impact mitigation strategies: "SHIFT: To renewable electricity and fuels in manufacturing and fleet." (<https://www.pepsico.com/sustainability-report/climate>).

PepsiCo makes clear how commercial solar in San Diego fits their big picture goals on their website: "We aim to lead by example and manage our climate-related impacts in a responsible manner, while helping to drive systemic change... We've set an ambitious new target to achieve net-zero emissions by 2040... We more than doubled our interim climate goal, and are now striving to reduce absolute GHG emissions across our direct operations

435.6 kW

Total System Size

496 kWh

Storage Capacity

1,320

Number of Panels

\$6,405,483

Estimated 25-Year Electric Bill Savings

2.9 Years

Payback Period

(Scopes 1 and 2) by 75% and our indirect value chain (Scope 3) by 40% by 2030 (against a 2015 baseline). We expect these new goals to lead to reductions of more than 26 million metric tons of GHG emissions, the equivalent of taking more than 5 million cars off the road for a full year." (<https://www.pepsico.com/sustainability-report/climate>).

Drinking Up California Sunshine SOLUTION

The SunPower system designed for PepsiCo in San Diego efficiently uses available roof space and takes advantage of the region's abundance of sunshine with single tilt SPR-E20-330-COM modules tilted south to maximize production. The solar array is tied to a BYD energy storage system. Energy Toolbase's Acumen EMS controls software, paired with the BYD CHESS unit, was installed to reduce peak demand at the facility. The primary controls application selected was Demand Charge Management, where Acumen EMS leverages its industry-leading machine learning algorithms to forecast load, shave peaks and maximize value capture.

CUSTOMER BENEFIT

This PPA arrangement allowed PepsiCo to power this new building with renewable energy and achieve energy cost savings without upfront investment. The building's designer, Hamann Construction, Inc. is able to provide clean energy and receive the benefit of several incentives.



“It was extremely gratifying to partner with Hamann Construction and Pepsi to create a commercial solar system atop the new Pepsi distribution facility here in East San Diego County. The goal was for a rooftop system that delivered the maximum yield. It was an honor to be a small but important part of Pepsi's global energy goals and is always a great experience when we partner with Hamann Construction and get to be a part of one of their great projects.”

Wenjie Chen, Director of Commercial, HES Solar



5980 Fairmont Ave #105, San Diego, California, USA
commercial@HESolar.com

619.692.2015
HESSOLAR.COM