

case study

GROCERY OUTLET

Grocery Outlet Deploys an Energy Storage System to Participate in a Demand Response Pilot Program and Combat Demand Charges

THE CHALLENGE

Grocery Outlet, one of the largest value retailers in the US, expressed interest in participating in a demand response pilot program with their local electric utility. One of the factors driving the store to explore cost-saving options was the rate at which retail electricity prices have been rising. With a summer peak energy charge just under 20¢/kilowatt-hour (kWh) and a demand charge of \$40/kilowatt (kW), mitigating electric utility expenses became mission critical. Baker Electric, one of California's leading solar and storage installers, was brought on to outfit the store with a behind-the-meter energy storage system (ESS). Baker was tasked with the challenge of procuring tier 1 ESS equipment within a predetermined timeframe and meeting all the standards set by the utility to participate in the pilot program.

THE SOLUTION

As a long-time ETB Developer user, Baker Electric brought on Energy Toolbase to help procure a turnkey, tier 1 ESS system, and see the project through into commissioning. The Grocery Outlet is part of a four-site portfolio where Baker has been enlisted to deploy ESS as part of the local utility's demand response integration pilot program. With Energy Toolbase, Baker swiftly secured a BYD Chess 60 kW 4-hour unit that was delivered to the Grocery Outlet site fully integrated with Energy Toolbase's Acumen EMS™ controls software, ready to start scheduling dispatch commands through the ETB Monitor platform. The system was configured with EMS applications of demand charge management and time-of-use arbitrage to optimize electric bill savings.

PROJECT SUMMARY



LOCATION

National City, California



DEPLOYMENT DATE

March 2022



ESS PROVIDER

BYD CHESS 4h



COMBINED SYSTEM SIZE

60 kW/266 kWh
1 site



FACILITY TYPE

Grocery Store Outlet



EMS APPLICATIONS

Demand Charge Management
& TOU Arbitrage