

case study

PETCO PARK STADIUM

Baseball Stadium Retrofits an Energy Storage System to Compliment their Existing Solar System

THE CHALLENGE

Petco Park, home of the San Diego Padres, wanted to deploy a behind-the-meter energy storage system (ESS) as part of a demand response integration pilot program with the local utility company. Petco has a strong track record of sustainability, gaining attention in 2016 when they switched to LED lighting for the stadium, becoming the first ballpark in the National League to do so. Then in 2018, Petco Park installed a 336 kilowatt (kW) solar array, which was one of the largest solar projects at a major league baseball stadium at the time. In their continued commitment to renewables and sustainability, Petco enlisted Baker Electric, one of California's leading full-service solar + storage contractors, to retrofit an ESS to their existing PV system. The ESS system was required to meet Petco's exacting standards for design and safety without disrupting their normal business operations.

THE SOLUTION

Baker Electric, a long-time ETB Developer user, turned to Energy Toolbase for assistance to procure and commission a turnkey energy storage system. The Petco Park project was part of a four-site portfolio where Baker would deploy ESS as part of a demand response integration pilot program with the local utility company. Baker required the ESS hardware to be delivered on a predetermined schedule, with fully integrated EMS controls software, and for the ESS provider to be an established and bankable vendor. Baker procured a BYD Chess 120 kW, 2-hour unit, which was fully integrated with Energy Toolbase's Acumen EMS™ controls software. Out-of-the-box, the BYD – ETB system could participate in a demand response program by scheduling dispatch commands through the ETB Monitor platform. Additionally, the system is configured to optimize time-of-use (TOU) arbitrage savings when the customer elects to do so.

PROJECT SUMMARY



LOCATION

San Diego, California



DEPLOYMENT DATE

June 2022



ESS PROVIDER

BYD



COMBINED SYSTEM SIZE

120kW/266kWh
(1) site



FACILITY TYPE

Sports stadium



EMS APPLICATIONS

Demand Response &
TOU Arbitrage



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