



+ CASE STUDY

San Diego Zoo to Save \$1.2 Million With Battery Storage

Energy Benefits With No Upfront Costs

PowerFlex worked with the San Diego Zoological Society to deploy a 1 megawatt (MW) / 4 megawatt-hour (MWh) onsite, behind-the-meter (BTM) battery storage solution that is expected to yield a cumulative energy savings of \$1.2 million. The project was structured through an Energy Services Agreement that did not require the Zoo to commit upfront capital.

The storage project will lower the facility's energy bill by utilizing the EDF Renewables Energy Management System (EMS), which anticipates spikes in energy demand and uses battery energy to satisfy them instead of drawing from utility electricity. The system does not require any solar generation, but instead will minimize energy costs by recharging when energy is at its lowest available rates, and later discharging that power to the Zoo when costs are highest.

PROJECT LOCATION

San Diego, CA

INSTALLATION TYPE

Behind-the-Meter Battery Storage

SYSTEM SIZE

SGIP Incentive Payment

Sustainability Impact

The battery's charge and discharge operations also improve the San Diego Zoo's sustainability contribution and support the local grid. By discharging and reducing spikes in the Zoo's energy consumption when energy is most expensive, the battery system creates a more stable and manageable grid. Similarly, by reducing energy consumption during periods of expensive power, which correlate with periods of high natural gas production on the grid, the battery system reduces the Zoo's carbon impact.

Performance-Based Payment

The Energy Services Agreement also allows the San Diego Zoo to pay PowerFlex based only on the actual utility bill savings realized by the Zoo as a result of the battery operation. Accordingly, the Zoo has no fixed payments and bears no performance risk on the operation of the system.

See how PowerFlex can empower you and your site. [Contact us](#) today.

About PowerFlex

PowerFlex, an EDF Renewables affiliate, is a clean technology solutions company making the transformation to carbon-free electrification and transportation possible. Our onsite intelligent energy management platform, PowerFlex X, monitors, controls, and optimizes onsite clean energy assets — solar, storage, EV chargers, and microgrids — and reduces overall energy costs through adaptive algorithms that maximize distributed energy resources. PowerFlex is the second-largest installer of commercial rooftop solar and the fourth-largest network of Level 2 EV chargers in the U.S. Our solar and storage projects offset 70,000 tons of CO₂ each year, while our 10,000+ EV chargers were responsible for offsetting 13,000 tons of CO₂ in 2022.