

# Energy Storage Pairs Well with All Grid Assets

Energy storage systems are critical to modernization of the electric grid, saving utilities, businesses, and households money while enhancing grid reliability and resilience. Energy storage systems are fuel-neutral and help any generation resource connected to the grid – coal, gas, nuclear, wind, solar, hydro – become more efficient, productive, and competitive. Indeed, energy storage equipment provides the same services regardless of what grid assets it is paired with.



## Energy Storage + Gas-Fired Power



GE's Norwalk Peaker Plant utilizes a gas combined with an advanced 10 MW / 4.3 MWh lithium-ion battery energy storage system, designed to provide enough time coverage to allow the gas turbine to start and reach its designated power output. The start-up of the gas turbine and the battery discharge work in concert using a groundbreaking system of sensors and controls, allowing the battery and gas turbine to always remain synchronized.



## Energy Storage + Wind Power



The 9.9 MW / 5 MWh Pyron Energy Storage system is co-located at the Pyron Wind Farm near Sweetwater, Texas. E.ON owns the project in addition to providing the development, financing, operations and maintenance. System Dispatching and Energy Management are provided by E.ON on a daily basis. The project participates in the ERCOT day-ahead ancillary service market.



## Energy Storage + Infrastructure



The AES Corporation installed Advancion® battery-based energy storage at a San Diego Gas & Electric (SDG&E) substation in Escondido, California. The substation hosts a 30 MW / 120 MWh energy storage project, which allows SDG&E to meet local capacity needs and overcome constraints on its wires infrastructure, extending the life of those infrastructural assets.



## Energy Storage + Coal Power



Enel-owned Endesa has installed a 20MW / 11.7MWh battery at the Carboneras coal plant. The battery upgrade is part of Endesa's effort to modernize its baseload plants to be able to be more flexible in meeting peak system demands. The development is also expected to lower maintenance costs for the Carboneras plant apart from increasing the lifespan of the energy generation system.