Energy Storage Powers Data Centers & Enables Maximum AI Compute Capacity

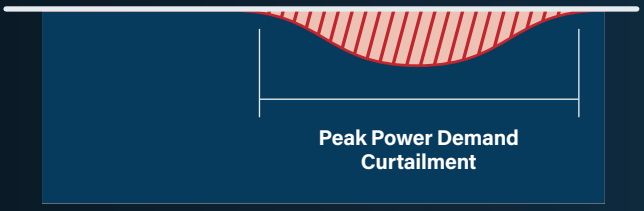
US GRID BATTERY COALITION

Energy storage can help American quickly deploy and power new data centers and win the AI race. By supporting baseload resources and directly adding grid capacity and flexibility, data centers can be added more quickly, at a lower cost, and without compromising compute capacity.

Energy Storage Can Maximize Data Center Compute while Minimizing Grid Impact and Peak Power Pricing

Data Centers

800 MW
Nameplate Capacity



Data Center is Curtailed for several hours each day or during peak demand events throughout the year, choosing between limiting operational capacity and adding strain on the power grid.

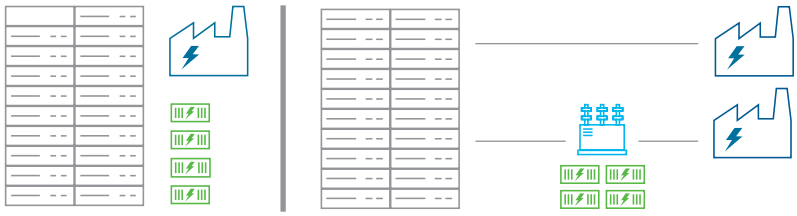
Data Centers + Energy Storage

Energy Storage Delivers Power at peak times for several hours each day or during peak demand events, allowing data centers to continue normal operations and power consumption with mitigated grid impacts.

How Energy Storage Can Support Data Centers & Accelerate America's Leadership in the Artificial Intelligence Race

1. Making data centers flexible load without compromising compute capacity and operations, by providing power during peak demand when the data center may otherwise be curtailed.
2. Rapidly ramping grid capacity to accommodate new data centers and industrial facilities, because energy storage resources can be deployed quickly — sometimes in a matter of months.
3. Lowering energy costs for data centers and consumers by stretching the megawatts produced by baseload resources during times of peak demand, and reducing largescale grid or transmission upgrades in the near-term.
4. Providing backup power, uninterruptible power supply (UPS) services, and power stability for large loads that ensures consistent power to data centers and minimal impact on the broader grid.

Energy Storage can be Co-Located or Sited to Address Weak Points in the Grid



xAI Colossus Data Center

At the xAI supercomputing facility in Memphis, large-scale battery storage is work with on-site fuel generation to ensure around-the-clock reliability. The site combines mobile gas turbines with Tesla Megapack batteries that store excess energy and discharge instantly when power demand spikes. Pairing energy storage with traditional power assets can enhance reliability, cut operational costs, and extend the useful life of existing generation — all while enabling maximum data center compute.