

FlexGen HybridOS Battery Sites KEEP THE POWER ON DURING WINTER STORM URI

Customer Name:
**A Major Energy Storage
Developer in Texas**

Location: **Texas**

MWh: **760**

of Sites: **7**

Storm Duration: **5 Days**

Software and Controls:
FlexGen HybridOS



THE CHALLENGE

As Winter Storm Uri barreled towards Texas, a customer asked if FlexGen could enable their 7 battery sites to stay online so they could stay active in the ERCOT market. The storm would be a time of exceptional need and high prices on the grid, which would allow the customer to capture a wide variety of value streams and provide reliability for the grid. At the same time, many other battery storage owners in Texas took outages, choosing to stay offline during the storm.

Arriving with Uri were record low temperatures, sleet, snow, wind and overall harsh winter conditions that were unfamiliar in Texas. Extreme winter storms are generally outside of the operating window of battery energy storage equipment. But the exceptional nature of FlexGen's software and field services professionals were called on to keep the storage sites on-line and generating value. The challenge required a combination of pre-planning and creative problem-solving in a very difficult situation.



THE SOLUTION

FlexGen accepted the opportunity and offered 24/7 support to keep the energy storage sites online during the winter storm. FlexGen's talented operations crew were able to think creatively and use the HybridOS to keep the customer's batteries within operating temperatures by manually charging and discharging power between blocks at regular intervals. This process was able to generate enough heat to keep the batteries from being derated due to low temperatures. This strategic movement of electrons enabled the customer's battery sites to remain operational during the storm. FlexGen was the only company who kept battery sites online throughout the 5 day weather event.



760MWh

of power dispatched during the storm (total throughput)



70MWh

continuous power was max capacity



5 days, 168 hours

of storm power



25,938

houses for 1 day

5,187

houses for 5 days



THE IMPACT

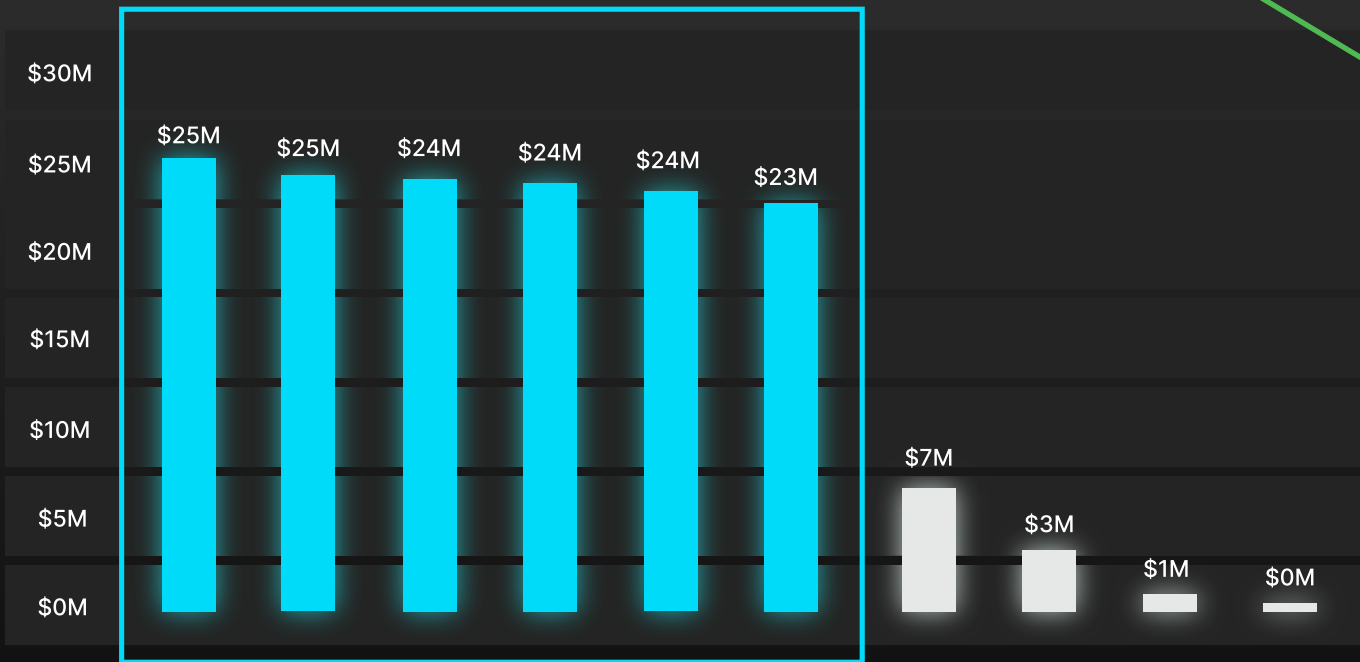
FlexGen's customer experienced 99.7% uptime within their battery storage portfolio during the storm. Our ability to keep our customer and their customers online throughout the storm meant not only keeping thousands of people safe, but also provided significant financial benefits for the asset owner. Energy prices soared during the storm due to rolling blackouts across the state and record high energy demand. The ancillary services market experienced prices that were some of the highest ever seen in Texas. This extreme event represented a significant challenge that required best-in-class software and operations teams that enabled grid reliability and resiliency, effectively capitalizing on economics while also helping communities and businesses weather the storm.



"The FlexGen team made this a unique reality for our battery sites".



Highest Monthly Revenue across ERCOT battery storage sites:



FlexGen Projects

Disclaimers:

1. Based on Orennia's battery storage dashboard.
2. Revenues are estimated using actual dispatch data and market clearing prices for ancillary services and energy, with the assumption being that all ancillary services were bid into the day-ahead market and energy was bid into the real-time market.
3. Relative to assets tracked by Orennia which had commercial operation dates before Winter Storm Uri.
4. Does not include any revenues or losses generated by hedges, virtual bids or other financial trades.

