

# GridStar® Flow



Lockheed Martin's history in Energy began in 1933 with its first patent. 90 years later, the world is transforming rapidly to a renewable, distributed, secure grid. Essential to achieving this requires durable, flexible, energy storage to store and discharge power for extended periods of time. That's why we developed GridStar Flow. Engineered for the future of energy storage, GridStar Flow is an innovative redox flow battery designed with patented technology that offers a robust and flexible solution for long-duration energy storage.

## Applications



- Renewable generation bulk shifting
- Large-scale transmission & distribution deferral
- Microgrids for security and resiliency

## Sustainability



- Zero carbon emissions when paired with renewables
- Made with mildly alkaline, aqueous electrolytes
- Enables energy independence

## Economic Impact



163 vendors



- Key parts and materials sourced from domestic suppliers
- Manufactured primarily in the U.S.

## GridStar Flow Capabilities

GridStar Flow provides long-duration energy storage with superior durability and flexibility to advance resilient and clean energy goals.



### Durability

100% depth-of-discharge with minimal degradation across applications and a design life of 20 years with normal maintenance



### Optionality

Addresses a wide range of applications behind- and front-of-the-meter and can quickly switch between applications



### Stability

Ensures a nonflammable, noncorrosive and stable clean energy solution through the use of aqueous electrolytes



### Long Duration

Optimized for 8-12+ hours of flexible discharge



### Affordability

Offers competitive total cost of ownership over the design life



### Siteability

Can be flexibly and safely sited in a variety of environments



### Future Proof

Freedom to operate in future differently than originally planned, allowing customers to address evolving markets