



**AUGMENT YOUR EXPECTATIONS,
NOT YOUR BATTERY**



ENERVENUE | ENDURING ENERGY



PREPARE to challenge everything you know about stationary battery storage. Technology pioneered by NASA and proven in space is now shattering the status quo here on Earth. Revolutionary battery chemistry combined with the industry's best warranty is setting a new standard in projects across the globe.

NASA
First developed in the 1980s, nickel-hydrogen technology would reliably serve in many notable aerospace applications including

the Mars Rover, Hubble Telescope, and the International Space Station.

Stanford University
In 2017, Stanford University professor Yi Cui, one of the world's leading material scientists, and his team of researchers redesigned the traditional nickel-hydrogen vessel, improving performance at a reduced cost, and paving the way for commercialization of the technology.

EnerVenue
Established in 2020, EnerVenue is



backed by visionary energy investors. The company's research was validated in 2022, when it achieved commercial deployments. While other non-lithium battery storage technologies are still waiting for a lab breakthrough, EnerVenue is currently

producing Energy Storage Vessels via its automated pilot line in the heart of Silicon Valley and will achieve volume production at a U.S.-based manufacturing facility in 2024. Product for international markets may ship from alternative sites.



TECHNOLOGY TIMELINE



NASA
Metal-Hydrogen technology deployed by NASA

Stanford University
Stanford Professor Yi Cui refines NASA battery technology

ENERVENUE
EnerVenue founded to commercialize the technology

The workhorse of our solutions: the Energy Storage Vessel™

EnerVenue Energy Storage Vessels feature an exceptionally long lifespan, eliminating the need for augmentation or oversizing. Energy Storage Vessels can be easily mounted in racks, containers or stacked in custom warehousing. Its unique chemistry eliminates the need for preventative fire suppression. Unlike the onerous HVAC conditions required by Li-ion solutions, it can reliably operate in a wide ambient temperature range with minimal or no auxiliary HVAC.

ENERVENUE DELIVERS WHERE LITHIUM-ION CANNOT

FIRE SAFETY, limited lifespan and costly augmentation scenarios are among the critical risks that project owners and financiers must confront. The constraints associated with lithium-ion technology are well-known, and the dangers well-documented.



Energy Storage Vessels are the ideal companion to renewable energy generation facilities. Their flexibility allows system owners to capture numerous revenue streams from peak shaving to ancillary grid support services and everything in between.

ENERVENUE IS THE FIRST COMPANY TO DELIVER:



Durability

- Lifetime of 30,000 cycles – 3 per day without rest for 30 years
- No augmentation needed throughout project lifespan



Versatility

- Superior operation in any climate with the lowest OPEX costs
- Ability to capture revenue streams in a multitude of applications



Safety

- No thermal runaway or fire propagation risk
- Absence of problematic fire suppression systems



Flexibility

- Dispatch from 2 to 12 hours in various use cases
- Unmatched deep cycle performance



Long-term security

- The market's longest and simplest warranty, Capacity Assurance™
- Guaranteed at least 88% battery capacity after 20 years/20,000 cycles



Sustainability

- Manufactured with non-toxic, earth abundant materials
- Almost fully recyclable at end of life

DIVERSE SOLUTIONS TO ADDRESS ALL MARKET SEGMENTS

TOMORROW'S electrical grid will not look like today's. As the global clean energy transition pushes towards ambitious targets, energy storage solutions that can provide power and support services for the grid will become increasingly important. Pairing low-cost, decentralized renewable energy with grid-

scale storage will speed decarbonization. Therefore, it is paramount energy users adopt storage technologies that deliver on their promise to be flexible, safe, and long-lasting. Today, EnerVenue's metal-hydrogen solutions are redefining what can be expected from battery storage.

Grid-Scale

- EnerVenue Energy Storage Vessels can address the application needs of any system owner/operator from frequency and voltage regulation to capacity firming

- No augmentation or gross oversizing is necessary, securing large-scale project profitability for the lifetime of the system
- Significantly lower OPEX can be achieved versus Li-ion systems, eliminating the variables

- that can threaten consistent revenue stacking
- While Li-ion supply chain volatility can endanger project pipelines, Energy Storage Vessels are made from common materials found in abundance

Commercial & Industrial

- The ideal solution for demand charge avoidance, resiliency and achieving corporate sustainability goals
- Energy Storage Vessel's industry leading safety behavior allows for

- use in areas never considered before for C&I energy storage projects
- Unique, building-integrated solutions make the most effective use of commercial space
- Vessels can be stacked in a way that Li-ion

- batteries cannot, offering countless new ways to efficiently deploy storage in C&I markets
- Vessels can be easily integrated into basements, underground or even directly within the walls/structure of new construction



Residential*

- Great for backup power during outages or for energy management to reduce utility bills
- Unlike Li-ion batteries, EnerVenue solutions do not need to be placed in regularly serviceable areas like attics or basements

- Their groundbreaking safety achievements pave the way for storage integration in existing homes as well as new building scenarios
- They can be installed out of sight and mind, since no maintenance is needed
- Long lifetime offers



homeowners the greatest peace-of-mind for their energy security

*In development

Energy Storage Vessels

dramatically reduce operational costs and feature a much lower cost-per-cycle compared to lithium-ion chemistries. They also require no augmentation over their 30 year/30,00 cycle lifetime, securing long-term profitability for asset owners without the investment risk inherent in lithium-ion technologies.





Manage Risk with our safety net, Capacity Assurance™

All projects carry some risk but only EnerVenue offers Capacity Assurance – the industry’s longest, simplest and most straightforward extended warranty for stationary energy storage batteries. Plant owners can

significantly manage risk and backstop their investments with Capacity Assurance, which offers a 20-year/20,000 cycle warranty extension.

What is even more remarkable, at the end of the 20-year/20,000 cycle

period, system owners are guaranteed at least 88% battery capacity. No other battery manufacturer would dare match such a guarantee because their technology simply cannot perform to those standards.

CONTACT INFORMATION