Ess inc battery

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ESS Tech, Inc.’s (ESS’) patented electrode design and control system allow the Energy Center to operate at high efficiency over an unlimited number of deep charge and discharge cycles with no degradation or capacity fade.

The Energy Center units can be configured to deliver customized power and discharge durations, maximizing project flexibility, and delivering the lowest operational cost to owners.

The Energy Center"s benign iron electrochemistry make it safe and easy to permit and site. The environmentally-friendly chemistry also enables standard, lower cost components for construction.

ESS has worked closely with leading engineering firms to deliver a design-build approach that enables systems to be tailored to meet any project size with a configurable range of power and energy capacities starting at 145 kW DC for 8 hours with capability to offer extended energy durations. The Energy Center can also be upgraded by adding electrolyte to increase energy capacity and discharge duration, maximizing project flexibility and delivering the lowest operational costs to owners.

Our cutting-edge technology offers up to 8 hours of continuous discharge at rated power, making it a reliable solution for utility-scale applications. With a flexible and modular design, our batteries can be tailored to meet specific energy storage needs. Rest assured, our batteries are engineered to eliminate the risk of thermal runaway and meet the highest safety standards with an IEEE-693 Seismic High rating, NFPA 855 certification, and compliance with the California Fire Code CIFC 1207.

Our batteries are designed for longevity, boasting a 25-year lifespan. They are not only safe and sustainable but also guarantee consistent power and energy output regardless of the duty cycle. With low operation and maintenance costs, our batteries offer cost-effective energy storage solutions. Additionally, our streamlined permitting process ensures a hassle-free installation with no hidden liabilities, thanks to our simplified hazmat compliance plan requirements.

Energy systems and markets are evolving rapidly. The ESS Energy Center is designed with flexibility in mind to adjust to changing needs over the 25-year operating design life.

Power (rate of electricity flow) and capacity (total amount of energy stored) operate independently, providing the flexibility to serve multiple use cases simultaneously. When it"s time to upgrade, simply add electrolyte to increase energy capacity and discharge duration.

ESS technology is safe and sustainable with the lowest lifecycle carbon footprint of any storage technology available today and enabling the use of clean, renewable energy 24/7.

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ESS Tech, Inc. (NYSE: GWH) is the leading manufacturer of long-duration iron flow energy storage solutions. ESS was established in 2011 with a mission to accelerate decarbonization safely and sustainably through longer lasting energy storage. Using easy-to-source iron, salt, and water, ESS’ iron flow technology enables energy security, reliability and resilience. We build flexible storage solutions that allow our customers to meet increasing energy demand without power disruptions and maximize the value potential of excess renewable energy.

The Energy Center utilizes an environmentally benign and sustainable flow battery chemistry composed of earth-abundant iron, salt, and water, and containing no hazardous chemicals or rare-earth metals. The iron flow battery presents no fire, chemical, or explosive risk, eliminating the need for fire suppression, secondary containment, and hazmat precautions, resulting in the greenest, most sustainable, and easiest-to-permit storage technology available.

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