LS ENERGY SOLUTIONS
A PROVEN PROVIDER OF ENERGY STORAGE SOLUTIONS
Formerly known as Parker Energy Grid Tie Division, LS Energy Solutions is a pioneer in energy storage with a proven portfolio of storage solutions, driven by patented products, engineering expertise, state-of-the-art test facilities, and comprehensive field service capabilities.

Offering decades of engineering expertise and a full range of effective storage options, LS Energy Solutions is a proven partner for energy storage needs, bringing together industry experience, application expertise, engineering support, and a complete product selection to offer truly optimized and cost-effective energy storage solutions.

OUR EXPERIENCE

LS Energy Solutions has a proven track record with over 400MW of energy storage systems installed. Together with LSIS, the combined installed Energy Storage capacity reaches well over 700MW.

- Ohio 6MW
- Chile 20MW
- California 37.5MW
- California 20MW
- Pennsylvania 28MW
- Arizona 5MW
LS Energy Solutions provides a wide range of products and solutions for the Energy Storage market. Offerings can be customized according to the needs of the user and applied in both in-front-of-the-meter and behind-the-meter applications.

**Innovation**

LS Energy Solutions is at the technology forefront when it comes to grid tied and microgrid inverters, systems control and integration. With state-of-the-art R&D and test facilities LS Energy Solutions is committed to continued development of advanced Energy Storage products to help customers realize more reliable, flexible and cost-efficient Energy Storage solutions.

**Modularity**

LS Energy power conversion technologies are designed to be modular from the ground up, offering scalable power from 80 kW to 100+ MWs. The modular nature of our inverter products and energy storage system designs simplifies field service and maintenance to achieve maximum uptime.

**Customization**

From concept to reality, LS Energy Solutions provides support in developing an effective—Energy Storage solution. Dedicated teams of regional technical experts are on hand to deliver the level of support needed throughout the development process to commissioning.

**String and Central Inverters**

Designed with customization at the forefront, LS Energy Solutions flexible inverter technology is easily configured as either a string or central inverter. Depending on application requirements, LS Energy Solution inverters are provided as a standalone string inverter, pre-engineered central inverter package or integrated into a complete Energy Storage System solution.

**Integrated Energy Storage Solutions**

LS Energy Solutions offers a number of customizable technologies and systems for a wide range of applications. From product solutions to integrated system support and everything in between, LS Energy Solutions capabilities extend from concept to execution.

**Energy Storage Technology Integration**

LS Energy Solutions can help with extensive knowledge in integrating a wide array of energy storage structures into either ISO or custom-designed container solutions, LS Energy Solutions provides advanced climate control, DC combiner boxes and control systems.

**Service and Aftermarket**

Backed by decades of industry experience, LS Energy Solutions aftermarket and service team support projects for all your aftermarket and service-related needs. Whether the need is training, commissioning assistance, preventative maintenance service, spare part and warranty support, or remote diagnostics and troubleshooting, LS Energy Solutions experienced personnel is ready to lend a qualified hand.
Based on years of industry expertise, LS Energy Solutions offer a number of technologies and systems for a wide range of Energy Storage applications. A founding member of the Modular Energy Storage Architecture alliance, LS Energy Solutions is leading the acceleration of interoperability, scalability, safety, quality, and resilient affordability in energy storage components and systems.

**PowerBRiC**

With industry-leading power density, the PowerBRiC inverter offers the patented ability to parallel the inverter on both the AC and DC sides. As the customer’s need requires, multiple PowerBRiC units can be put together to make large central inverters or a single unit can be configured to be a string inverter. The customizable design not only makes it a smart solution, but it also makes the PowerBRiC suitable for applications both behind-the-meter, front-of-the-meter and microgrids.

**BOS components**

Now a part of the LSIS Corporation, LS Energy Solutions are able to offer a wide range of high-quality BOS components suitable for Energy Storage solutions. These can be sold as standalone components or as part of an Integrated Energy Storage System.
CUSTOMER CARE OFFERING

Integrated C&I and MicroGrid Package

LS Energy Solutions also offers a completely integrated C&I and MicroGrid packages. Easy-to-size and configure by application, the C&I Integrated Package is a flexible solution designed for the unique requirements of each user. The outdoor rated package comes with built in PCS, HVAC, Batteries, fire suppression, AC/DC protection and is offered with a variety of selectable options.

Smart Energy Controller

To manage energy storage systems, LS Energy Solutions offers customers a Smart Energy Controller. The controller makes multiple energy storage assets look like one device and keeps batteries balanced to improve battery lifetime. Requiring only an Ethernet cable to be ready to go, the Smart Energy Controller is just as easy to install as it is to configure.

For more information about any of LS Energy Solution’s products, solutions or services, please contact us at:
Email: info@ls-es.com | Web: http://www.ls-es.com
LS Energy Solution’s products support a wide range of applications for Energy Storage and can operate both in Grid Forming Mode as well as Grid Following Mode. Some of the typical applications that can be performed are:

- **Frequency Regulation and Ancillary Services**
  Adding Battery Energy Storage (BES) acts as a ‘shock absorber’, providing the ability to inject or absorb power from the transmission grid within milliseconds and helping to stabilize voltage and frequency.

- **Solar and Storage**
  Adding a BES system allows the batteries to absorb excess power during high generation which can then be exported to the grid during periods where generation is lower.

- **Peak Shaving**
  Adding a BES to a commercial or industrial site can reduce or eliminate high demand charges by discharging power from the batteries during times of high peak power consumption.

- **Microgrid and back-up power**
  A MicroGrid is an integrated energy system network consisting of distributed energy resources (DER) and multiple electrical loads and/or meters operating as a single, autonomous grid either in parallel to or islanded from the existing utility power grid. Energy storage systems (mainly battery based), have emerged in recent years and add a level of dynamic response characteristics that dramatically help with overall network efficiency, resiliency, reliability and are integral in the smart de-centralized grid of the future.

*And more...*