

BESS ENCLOSURES

www.sabreindustries.com



Sabre Industries™
INNOVATION DELIVERED

Leading the Industry
In Large, Custom
High-Capacity
Battery Energy
Storage Enclosure
Solutions





Sabre BESS Enclosures are engineered and manufactured in the USA.

What's New?



Sabre Industries leads the field in offering custom-engineered lightweight steel and pre-fabricated concrete enclosures to serve the growing battery energy storage market.

Supporting energy capacities of up to 16MWh in a single enclosure, Sabre engineers work with Developers and EPC's to optimize designs – balancing energy density with effective thermal management, efficient auxiliary power distribution, and leading safety features such as direct injection fire suppression and early off gas detection systems.

Sabre's extensive in-house integration and factory acceptance testing ensures hassle-free and on-time field installations backed by world class engineers, technicians, and project managers committed to a job well done.

SABRE BUILDING SOLUTIONS FOR LESS

ENGINEERING



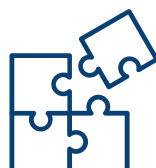
ASSEMBLY & PRODUCTION



PROCUREMENT



EQUIPMENT INTEGRATION



LOGISTICS



CASTING & METAL FAB



BESS Enclosures that outperform.



LARGE FORMAT

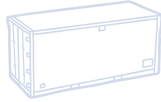


VS

OTHER CONTAINER SOLUTIONS



- FLEXIBILITY & SCALE**
- BUILD QUALITY**
- AFTER SALES SUPPORT**
- SUPPLY CHAIN**
- SAFETY**



FLEXIBILITY & SCALE

- Ability to customize design to meet each project sites needs.
- Energy densities of up to 16MWh per modular enclosure limits site works while preserving benefits of modularity.
- Maximizes footprint of double deep / high energy density modules from leading battery manufacturers.

BUILD QUALITY

- High strength concrete or high-grade steel.
- Consistent Output, Durable Finishes, Weather Tight.
- US Factory Integration with strong Q/A.
- Smooth operation of doors for easy maintenance.

AFTER SALES SUPPORT

- North American Field Service teams.
- Highly qualified and experienced engineers and technicians.
- Commitment to "make it right".

SUPPLY CHAIN

- USA Enclosure Fabrication and factory integration of components.
- Large development network of component suppliers.
- Significantly reduced transit times vs overseas sourcing.

SAFETY

- Familiarity and experience with integrating leading edge technology.
- (Thermal Risk Management (TRM), early off gas detection, direct injection fire suppression).
- Knowledgeable, US based teams to help navigate AHJ requirements.
- Compliant with national safety standards (NFPA855, UL9540, Etc.).

5.2GWH+

Over 1,000+ BESS Enclosures Delivered



Blythe / McCoy
504 MW / 2017 MWH
294 Concrete Enclosures
Samsung E4D Platform



Manatee
453MW/905MWH
132 Concrete Enclosures
Samsung E4D Platform



Mojave
108 MW / 432 MWH
33 Steel Enclosures
LG Chem JH4 Platform



INDUSTRY LEADING EXPERIENCE

SABRE INDUSTRIES HAS DEVELOPED AN EXTENSIVE TRACK RECORD IN THE DESIGN, BUILD, AND INTEGRATION OF BATTERY ENERGY STORAGE SYSTEM ENCLOSURES. SABRE BRINGS A DEPTH OF EXPERIENCE IN DESIGNING SYSTEMS AROUND LEADING LI-ION BATTERY PLATFORMS FROM SAMSUNG, LG, AND OTHERS.



Unmatched Capabilities.

Products



Sabre integrates equipment enclosures, skids and buildings for utility substations including:

- Control Houses
- Power conditioning stations
- Battery systems enclosures
- Metering and protection skids
- Relay cabinet enclosures
- Switchgear skids

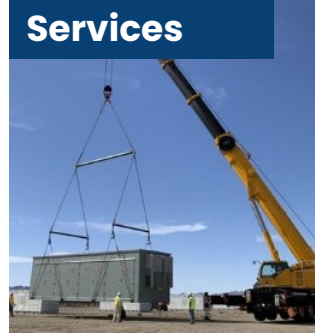
Integration



Services include enclosure design, fabrication of structure and integration of electrical equipment into the enclosure or skid:

- Fire Suppression and Mitigation Systems
- HVAC/environmental controls
- Electrical systems
- Batteries and DC power systems
- Environmental and State Monitoring
- Racks and cabinets
- Cable/fibertrays
- Grounding Systems
- Insulation Monitoring
- Residual Current Monitoring
- Instrumentation
- Safety equipment
- Communications and remote Management

Services



Experienced team of engineers and technicians provide the following value added services:

- Shipping
- Setting
- Battery installation
- System Start Up
- Commissioning Support
- Maintenance

Facility



Located in Bossier City, Louisiana we can provide the installation of components in a controlled environment that will ensure schedule delivery, high consistent quality and reduced project costs.

With our professional engineering expertise, breadth of enclosure products and integration craft, we are prepared to support your requirements.



BESS ENCLOSURES



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