JST POWER EQUIPMENT

Powering Your Future with Advanced Energy

Battery Energy Storage System Solutions

30+

Years of Production and Operating Experience

The Value of Battery Energy Storage System (BESS) Solutions in Building Resilient Grids

The Role of BESS in the Energy Transition

As the energy landscape shifts toward decentralized, renewable generation, BESS are essential for a cleaner, more flexible and more reliable grid. From utility-scale installations to behind-the-meter solutions, BESS enable smarter energy management, renewable integration and greater energy independence.

Key Benefits of BESS

- **Energy Independence:** Reduce reliance on centralized generation and the grid
- **Cost Savings**: Peak shaving, demand charge reduction and energy arbitrage
- **Grid Stability:** Fast frequency response, black start capabilities, reactive power support and voltage support
- **Backup Power:** Maintain operations during outages

The JST Power Advantage: Expertise in Energy Storage

Our Philosophy: JST Power's Vision and Commitment to Providing Cutting-Edge, Reliable and Sustainable Energy Solutions

At JST Power, we believe that the future of energy depends on smart, scalable and sustainable infrastructure. Our BESS solutions are built on a foundation of technical excellence and a commitment to solving the real-world challenges of grid resiliency, renewable integration and energy security.

We design BESS on a flexible, high-performance architecture to meet diverse applications. By sourcing and integrating the best-in-class components, rather than off-the-shelf packages, we deliver tailored solutions that maximize performance and value.

Engineered for Performance: JST Power's BESS Technology

Our battery energy storage systems (BESS) solutions are engineered and custom-built to meet the needs of our customers across global markets and various industry applications.

HV Transformerless Products

Our high voltage, stage-fed energy system enables 38 kV direct grid connection without the use of a transformer—reducing system losses and improving cycle efficiency.

- Capacities range from 1 MWh to over 1000 MWh
- Reliable peak power supply
- Energy cost optimization
- Maximum renewable energy utilization

All-in-One BESS Solution

For commercial and industrial applications, our all-in-one solution offers:

- 215 kWh to 344 kWh
- Optimal peak management
- Enhanced backup power and resilience
- Increased power quality and reliability

System Components

Battery Chemistry

- Focus on lithium-ion (e.g., LiFePO4)
- Highlight safety, longevity and efficiency

Inverter Technology

- Advanced bidirectional inverters for seamless AC/DC conversion
- Engineering-driven selection with flexible operation

Safety & Management Systems

- Battery management system (BMS) for optimal performance and safety
- Thermal management, fire suppression
- Cybersecurity for remote monitoring

Modularity & Scalability

- Systems designed to grow with your needs

Powering Every Sector: Where We Make a Difference

JST Power's BESS solutions are designed to serve a wide range of industries and infrastructure segments—from behind the meter commercial sites to utility scale assets, and everything in between. Our flexible, engineered approach ensures each system meets the operational, regulatory and financial needs of the application.

Commercial & Industrial (C&I)

High Voltage / Utility & Grid-Scale

The first transformerless 35 kV high voltage cascade BESS power station (100 MW / 200 MWh) in Hunan Province, China. Engineered by JST Power.

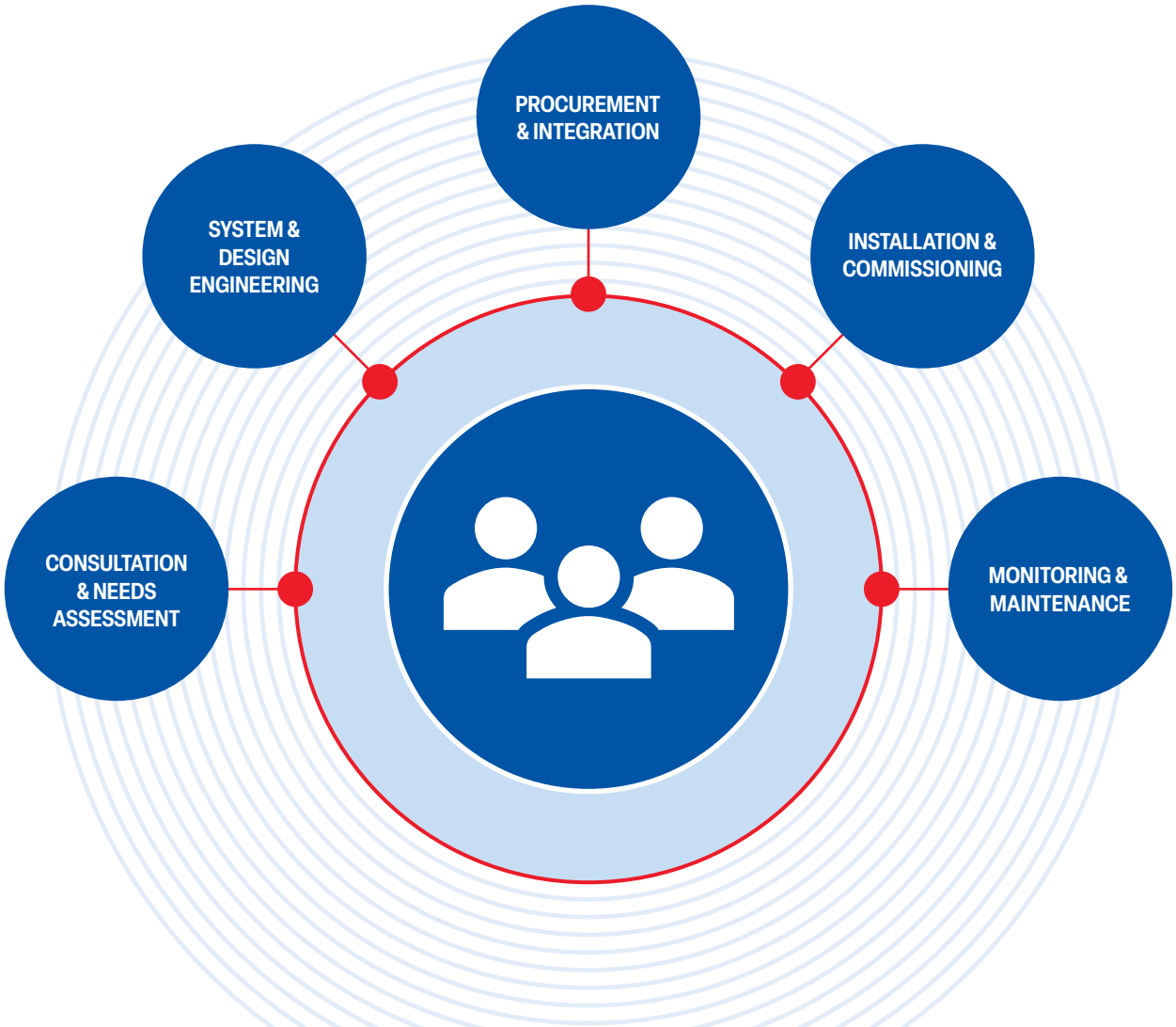
Your Journey to Energy Independence

We take pride in guiding our customers through every stage of the project lifecycle—from initial concept to fully commissioned, operational systems. Our proven processes ensure technical alignment, smooth execution and long-term performance.

Step-by-Step Process

1. **Consultation & Needs Assessment:** Understanding your energy goals
2. **System Design & Engineering:** Tailored solutions and detailed planning
3. **Procurement & Integration:** Sourcing high-quality components
4. **Installation & Commissioning:** Professional setup and testing
5. **Monitoring & Maintenance:** Ongoing support and optimization

Project Management: Our Dedicated Team Ensures Smooth Execution



Transforming the Future of Power

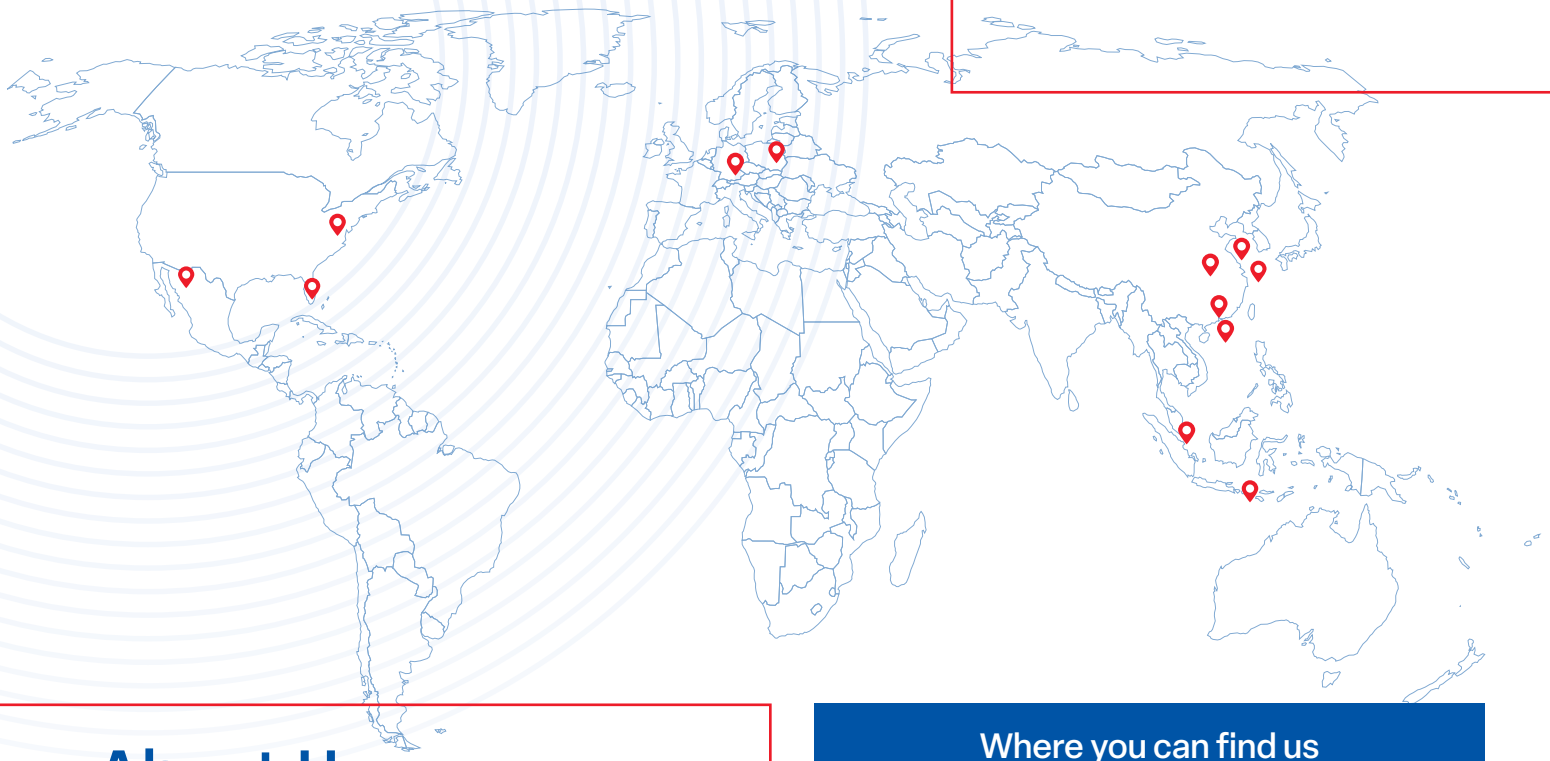
The transition to a cleaner, more reliable energy system is happening now, and JST Power is making it possible. Our BESS solutions are already enabling utilities, developers and energy users of all sizes to integrate renewables, stabilize the grid, maximize energy value and harden their systems.

JST Power's Contribution

- Proven Grid-Scale BESS Solutions
- Transformerless Design
- Vertically Integrated Manufacturing
- Vendor Agnostic Design Philosophy
- Modular, Factory-Assembled Systems
- Traditional Low Voltage Grid Scale BESS
  - DC Battery Container
  - AB Boost Container
- High Voltage Grid Scale BESS
- C&I BESS

JST Power Equipment Around the World

Scan for the most up-to-date product information



About Us

At JST Power Equipment, we pride ourselves on delivering world-class transformer and electrical equipment solutions. The key to our success is the ability to provide quality products with speed and precision through the dedication of our talented team.

For over 30 years, we've evolved to become an innovator in the electrical industry and we work hard to design and build our products to the highest quality standards. And as we look toward the future, we're continuously investing in our technology, facilities and people to engineer the best solutions in the industry and create more value for our customers.

At JST we're more than a manufacturer, we're transforming the future of power.

Where you can find us

North America

- Orlando, FL USA
- Wytheville, VA USA
- Nogales, Mexico

Europe

- Frankfurt, Germany
- Lubliniec, Poland

Asia

- Guilin, China
- Haikou, China
- Shanghai, China
- Wuhan, China
- Yangzhou, China
- Surabaya, Indonesia
- Klang, Malaysia

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