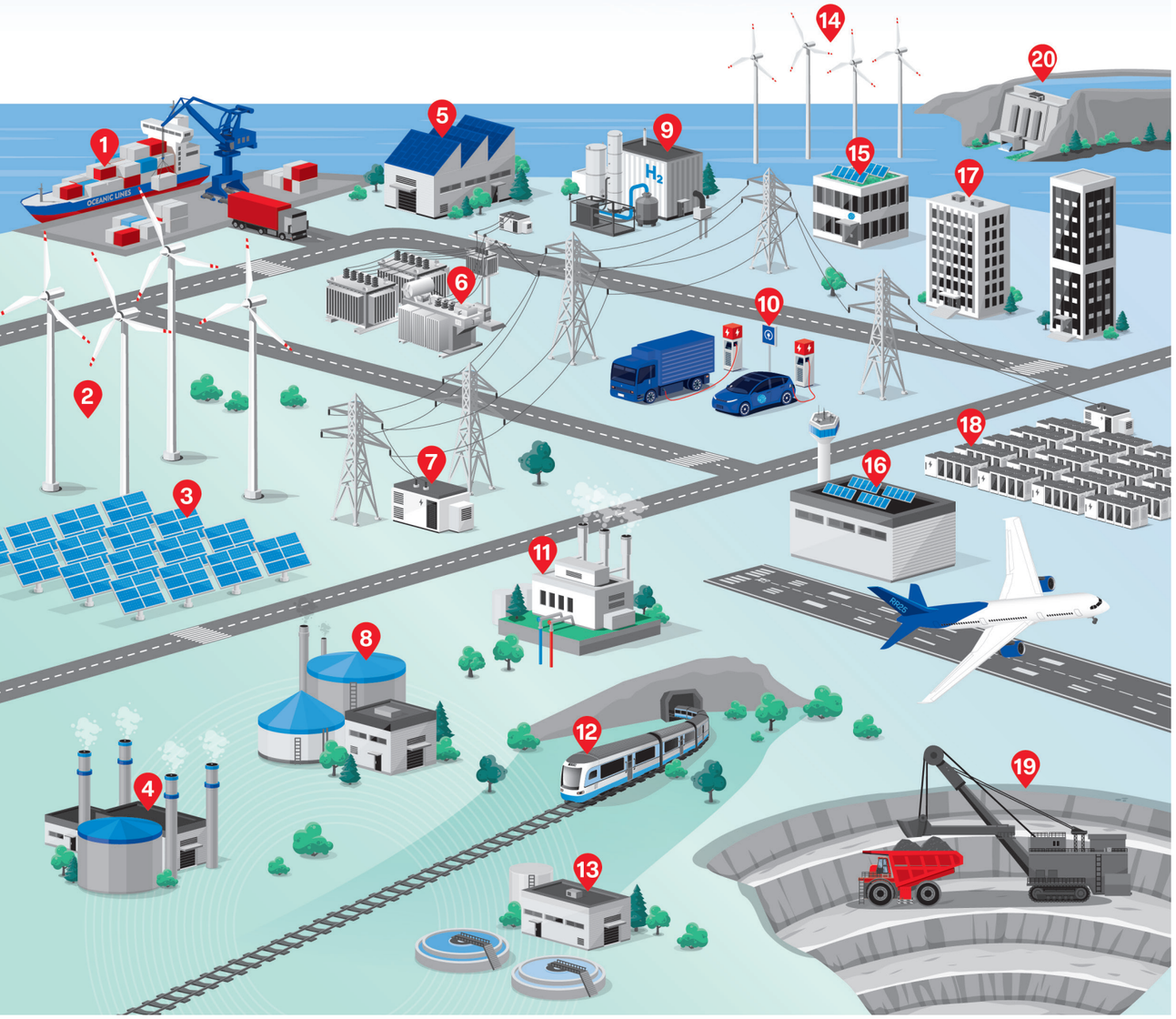
JST POWER EQUIPMENT

Power Transformers

High-performance solutions engineered for reliability, efficiency, and integration across power generation, transmission and distribution

30+

Years of Production and Operating Excellence



1. Ships & Ports
2. Onshore Wind Energy
3. Solar/Renewable Energy Stations
4. Oil & Gas
5. Industrial Facilities
6. Substations
7. Power Distribution
8. Biomass
9. Hydrogen Generation
10. E-Charging
11. Power Plants
12. Railway Systems
13. Water & Wastewater
14. Offshore Energy
15. Data Centers
16. Airports
17. Commercial Buildings
18. Battery Energy Storage
19. Mining Industry
20. Hydro Power

Power Transformers Around the World

Power transformers are essential components in electrical power systems across various industry applications. They play a crucial role in adjusting voltage levels to ensure efficient transmission and distribution of electricity over long distances. At power generation plants, solar and wind farms, transformers step up the voltage to high levels—reducing energy loss as electricity travels through transmission lines. Near the point of use, other transformers step the voltage down to safer, usable levels for hospitals, data centers, airports, EV charging stations, marine ports, commercial and industrial buildings and others. By enabling voltage regulation and isolation between circuits, power transformers help maintain the stability and reliability of modern electrical grids.

JST's Commitment to Excellence in Transformer Technology & Innovation

With over 30 years of experience and 200,000+ transformers deployed globally, JST Power Equipment delivers field-proven, high-performance transformer solutions that power modern infrastructure. Our **Power Transformers** are designed to meet the growing demands of electrification, renewable energy integration, and industrial modernization. Our solutions serve as the essential link across the electrical ecosystem—from substation voltage regulation to energy storage systems and industrial process continuity.

Whether supporting the grid, enhancing renewable projects, or powering critical infrastructure, JST SPTs ensure reliable and efficient performance under the most demanding conditions.

The JST Advantage

- **Robust design** and exceptional mechanical strength
- **Rapid lead times**—among the fastest in the market
- Global reach with **11 manufacturing facilities**
- **Adaptability** to market changes and varying demands
- **End-to-End support** from engineering to aftersales

Power Transformers by JST Power Equipment

Our power transformers feature robust design and high thermal reliability, making them ideal for demanding installations and extreme operating environments. Designed and manufactured with advanced insulation systems and precision-engineered cores, our power transformers help reduce losses, extend service life, and lower total cost of ownership.

Robust design with high mechanical strength ensures exceptional resistance to short-circuit forces, vibration, and mechanical stresses encountered during transport, installation, and operation. Each unit is optimized to meet the rigorous demands of utility and industrial applications.

Key Applications Where We Specialize

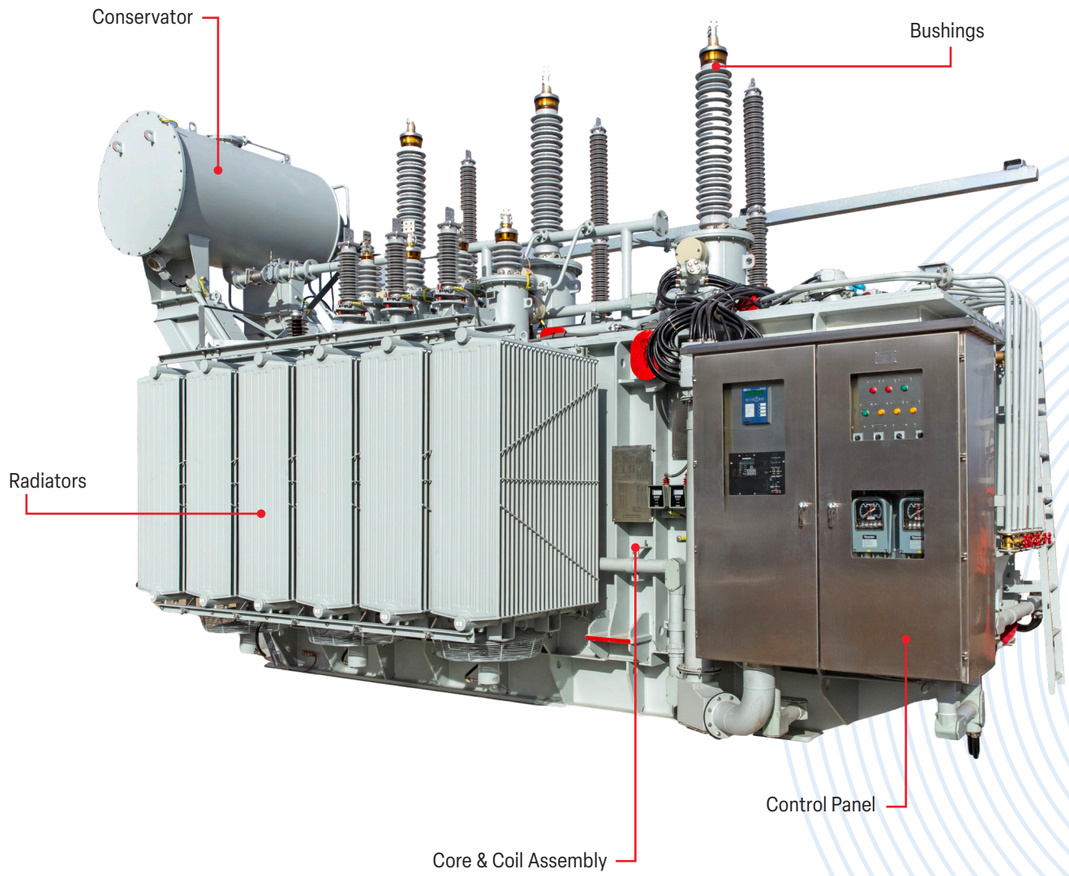
- Wind & Solar Power
- Transmission & Distribution
- Industrial Manufacturing
- Power Generation
- Data Centers
- Energy Storage

Customizable, robust construction with maximum durability and low maintenance

Key Specifications

- Power Ratings 5 MVA - 100 MVA (with fans)*
- Primary Voltage up to 171 kV (650 kV BIL)
- Cooling Medium - Mineral Oil / Ester Oil
- Maximum Manufacturing Weight up to 100 tons
- Industry-Leading Delivery Time of Averaging 38-42 Weeks**
- Built to IEEE, IEC, ANSI and ISO Standards
- On-Load and Off-Load Tap Changer Available
- Manufactured in Wuhan, China

*Ask us about sizes and ratings beyond 100 MVA to meet your project specifications.
**Final lead time dependent on components, design, location and specifications.



Case Study

Project Data Center | Reno, Nevada USA

The "RNO" data center project is a large-scale project commissioned by a local developer for a hyperscale data center, requiring its own network connection points and substation. The project consisted of (3) 40MVA/120 kV, (4) 65.4MVA/120 kV, (1) 110 MVA/120 kV and (14) 150MVA/345 kV transformers—for a total of 22 units distributed to 4 substations.

Service and support included unloading, installation and comissioning, extedend warranty and service contract.

Application: Data Center substation
Rating: 33 MVA / 115 kV / 34.5 kV
Special features: OLTC, Remote monitoring integration

Project Photos

Site Delivery

Unloading

Assembly & Installation

Digital Manufacturing Excellence

Wuhan Jinpan Green Smart Industry Park

JST's Wuhan Jinpan Green Smart Industry Park is a "zero-carbon" smart industrial park located in Wuhan, China. It represents JST's largest independently constructed green industry park in China and encompasses a range of facilities and systems, including a high-end transformer digital factory, an energy storage equipment digital factory, a rooftop photovoltaic power station, a medium and high voltage cascaded energy storage system, and a smart energy management system.

The digital transformer factory produces a wide range of custom engineered liquid-immersed power transformers with power ratings ranging up to 100 MVA and beyond. The facility can produce between 120-500 units per year depending on ratings.

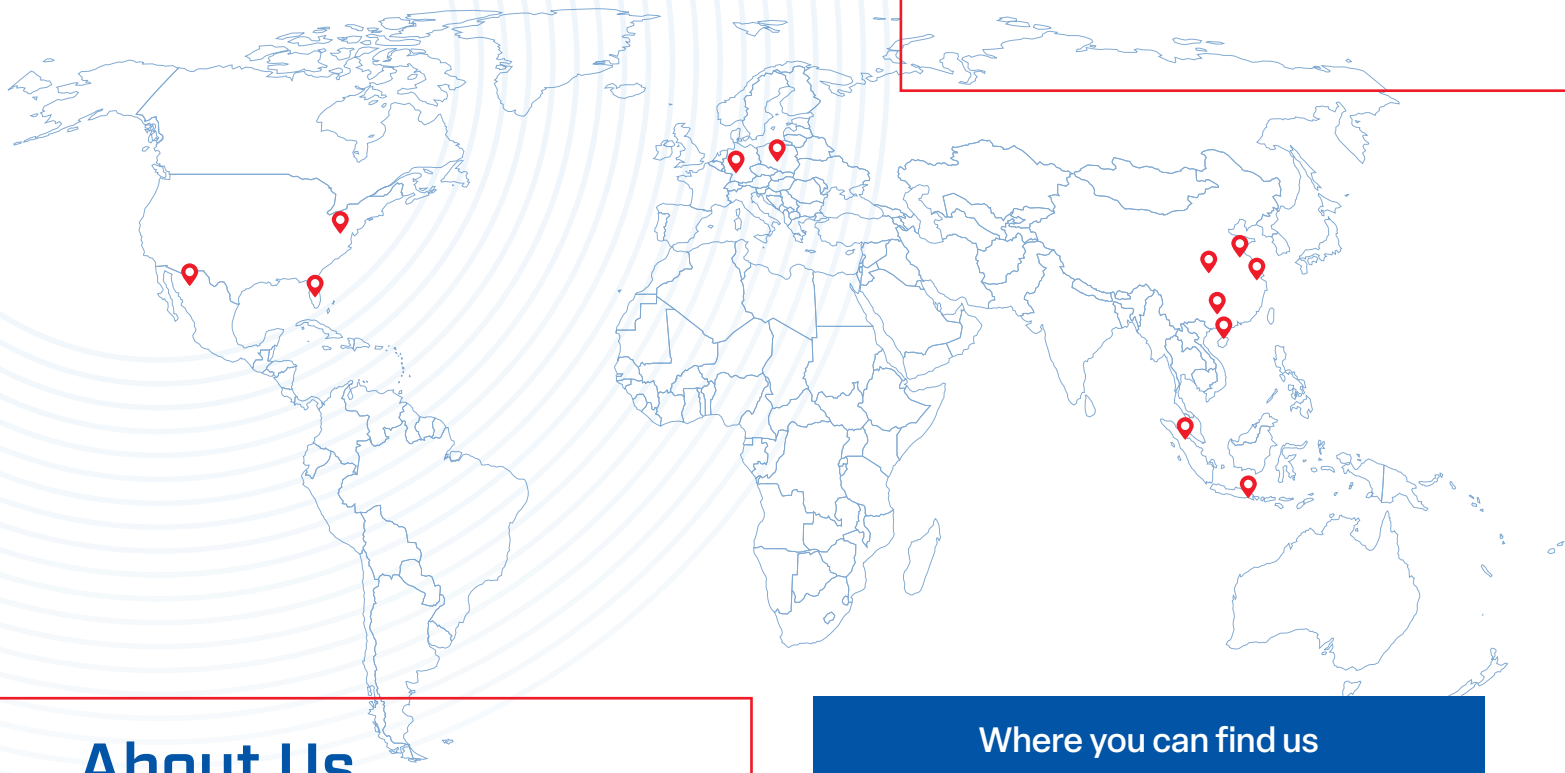
Standards and Quality Assurance

Every transformer is rigorously tested and qualified to meet both international and customer-specific standards. Routine, type, and special tests are conducted to ensure mechanical robustness, dielectric performance, and thermal endurance.
Compliance includes but is not limited to:

2006/42/EC, 2009.125.EC, 2014/66/EC, DIN EN 50180, DIN IEC 60036, IEC 60050-421, DIN IEC 60059, DIN IEC 60076-1, DIN IEC 60076-2, DIN IEC 60076-3, DIN IEC 60076-4, DIN IEC 60076-5, DIN IEC 60076-7, IEC 60076-8, DIN IEC 60076-10, DIN IEC 60076-14, DIN IEC 60076-18, DIN IEC 60076-20, DIN IEC 60076-22, DIN IEC 60085, DIN IEC 60137, DIN IEC 60204-1, DIN IEC 60214-1, DIN IEC 60296, DIN IEC 60529, DIN IEC 60721-3, DIN ISO 7000, DIN ISO 9001, ISO 12100, ISO 12944

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 Power 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

JST POWER EQUIPMENT

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