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We are building a new future through creative challenges and innovation.

A leader in heavy electric machinery, providing high value-added products and services with world-class technology and cost competitiveness

ILJIN Electric,
Advancing Toward
the World with
Total Solution

Iljin Electric is the only comprehensive heavy electric machinery company in Korea that manufactures power lines for various voltages up to extra-high voltage, heavy electric machinery including transformers and circuit breakers, which are core substation facilities, and power equipment that make up the power system. We provide the products necessary for power grid construction as a Total Solution and are recognized for our technology in both domestic and overseas markets. Leveraging our strength as a Total Solution provider, we offer comprehensive power generation, transmission, distribution, and power systems and are continuously expanding our presence in overseas markets. Iljin Electric will elevate its reputation in the global power market through the technology and experience accumulated in the power industry.

Iljin Electric, the Driving Force of Korea to the World

Iljin Electric, the parent company of the Iljin Group, has entered various power industry fields since its establishment in 1968, starting with the non-ferrous metals industry and extending to power transmission and distribution equipment, ultra-high voltage cables, and materials (Cu ROD). It has grown into a specialized power and material company that contributes to the power infrastructure industry through stable power supply. Based on the vision of 'developing the world and humanity and making them happy by creating the best products and services based on a proactive spirit,' Iljin Electric has been developing its competitiveness in the power industry through the development and innovation of proprietary technology. We will grow into a company that connects the wider world with electricity and contributes to improving the quality of life through continuous innovation and challenges.



Hwaseong Factory #1 Hwaseong Factory #2 Ansan Factory

1960	1970	1980	1990
1968 01 Establishment of Iljin Electric	1975 08 Domestic development of distribution hardware (dead end clamp)	1983 03 Domestic development of Automatic Sectionalizer and Load Interrupter Switch 1984 12 Domestic development of Automatic Sectionalizing Breaking Reclosing Switch	1997 12 Completed development and initial production of 765kV transmission hardware 1998 12 Development of Gas Insulated Switchgear (C-GIS)

2000	2010	2020	
2000 06 Merger with Iljin Cable Co., Ltd. 2002 07 Domestic development of 72.5kV gas insulated switchgear 2003 10 Merger with Iljin Co., Ltd. 10 Development of 154kV flame-retardant power transformer 2006 11 Received 100-million-dollar export tower award 2007 08 Received 300-million-dollar export tower award 11 Merger with Iljin Heavy Industries Co., Ltd. 2008 07 Conversion to holding company (Iljin Holdings) 12 Received Gold Tower Industrial Medal	2010 12 Sales exceeded 1 trillion won 2013 04 Completion of transformer factory in Hongseong Industrial Complex 2017 12 Development of 362kV Gas Insulated Switchgear 2018 06 Technical cooperation agreement with Siemens Germany for eco-friendly Gas Insulated Switchgear development 09 Completion of circuit breaker factory in Hongseong Industrial Complex 2019 01 Development of export-type 420kV Gas Insulated Switchgear	2020 12 Development of 154kV Shunt Reactor 2022 04 Completed development of 29kV eco-friendly GIS for railway 04 Completed development of 154kV variable Shunt Reactor 2023 03 Completed development of KEPCO 154kV 3-phase gas transformer	2024 06 Developed 72.5 kV Eco-Friendly Gas-Insulated Switchgear (EGIS) for offshore wind power applications 07 Developed a 154 kV polypropylene(PP) insulated cable 10 Developed a 154 kV single-phase seismic-reinforced transformer 10 Expanded the Extra-High-Voltage Transformer manufacturing plant in Hongseong 2025 10 Developed a 25.8 kV standard air-insulated load break switch (underground type) for KEPCO. 10 Developed a transformer for on-load tap changer (OLTC) protection.

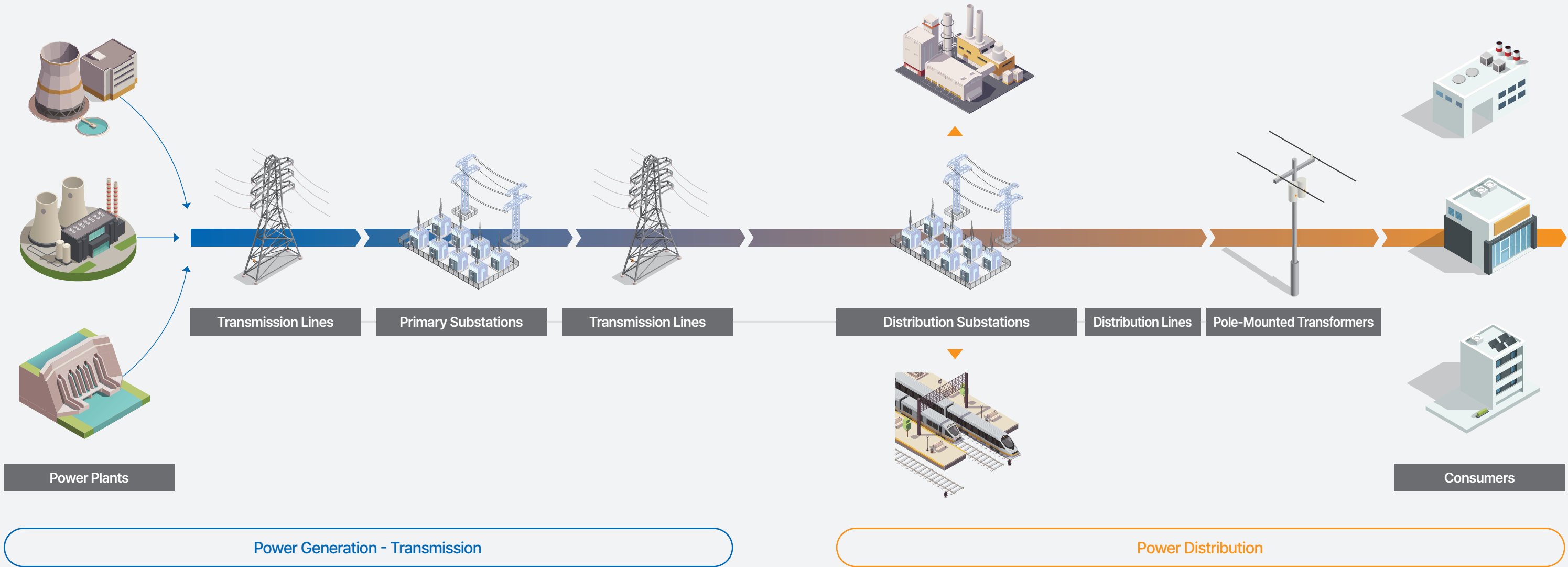


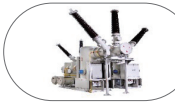
Magok Inno Center Hongseong Transformer Factory Hongseong Circuit Breaker Factory

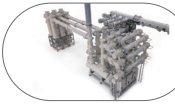
Power Infrastructure Solutions

A total energy solution provider delivering power infrastructure through reliability and customized design

As a total energy solutions provider, ILJIN Electric delivers stable power infrastructure through full turnkey execution—from transmission lines and grid interconnection to permit acquisition, engineering, and construction—built on reliability and customized design.



 Transformer

 GIS

 Power Cable

 Material

Business Areas		Key Products	Applications	Customers
Heavy Electric Machinery	Transformer	66-500kV TR, S/R, Distribution TR	A device that raises or lowers voltage	· Power utilities (substations) · Government agencies (railways, nuclear power) · EPC · Plant operators · Private sector manufacturers
	Gas Insulated Switchgear	132-420kV GIS, MV GIS, Power Equipment	A device that detects and interrupts abnormal current conditions (such as overload)	
Cable	Power Cable	HV(66-500kV), Connectors, MV(22.9kV or higher), Installation	Cables to transmit generated power	
	Material	Copper-Rod, AL-Rod	Industrial base materials such as power cables and industrial cables	

Global Iljin Electric
powering the future

Iljin Electric's challenge as a global leading company toward a bigger world and a greater future continues. We will provide reliable technology to more customers across diverse industrial and everyday fields, from energy to materials. Global Iljin Electric is striving to create a better tomorrow together.

Transformer Division

Transformer Division provides a total solution for stable power supply, from power stations and large-scale plants to actual consumers. Based on decades of accumulated know-how, we design and manufacture extra-high voltage transformers up to 765kV, and, with outstanding quality and reliability, provide customized solutions tailored to diverse customer needs.

High-Voltage Transformer

- Converts electricity generated at power plants to extra high voltage, enabling long-distance transmission while minimizing energy loss.
- At substations, it transforms extra high voltage power into usable voltage levels, ensuring stable and reliable supply for industrial, commercial, and residential applications.



Special-Purpose Transformer

Eco-friendly Oil Insulated Transformer

- Uses vegetable-based or synthetic ester insulating oil to reduce environmental pollution and fire risk.
- With high-efficiency, low-loss design, it contributes to carbon reduction as a truly sustainable transformer solution.

SF6 Gas Insulated Transformer

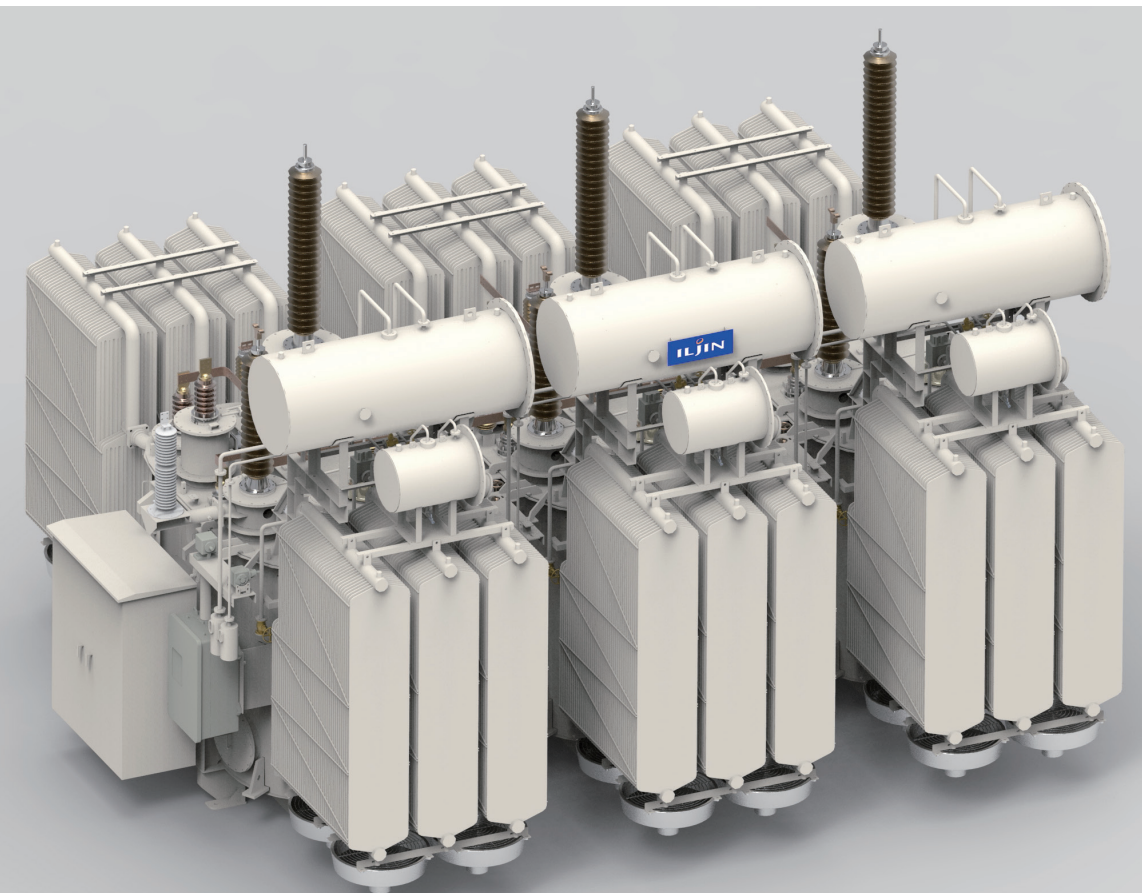
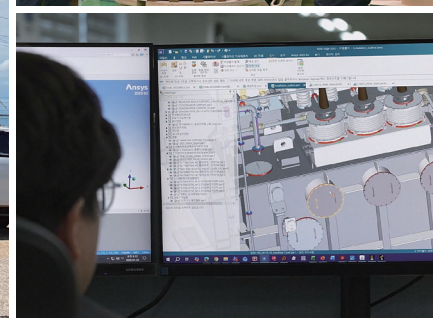
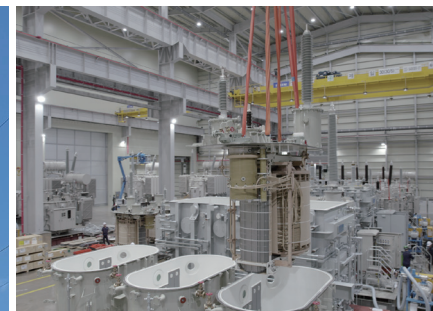
- Utilizes inert SF6 gas as the insulating medium, offering enhanced fire safety compared to conventional designs.
- Its compact size allows installation even in confined urban underground substations.

Scott Transformer

- Converts three-phase power to two-phase, or vice versa, using a specialized connection arrangement.
- Minimizes losses and heat generation caused by harmonics in railway traction systems.

Furnace Transformer

- A special-purpose transformer engineered to supply large currents and serve fluctuating loads for applications such as electric arc furnaces and metallurgical furnaces.
- To ensure durability against frequent short-circuit events, it features a distinctive "figure-of-eight" winding structure, specifically designed to withstand high mechanical and electrical stresses.





Shunt Reactor

ILJIN Electric's shunt reactors are crucial for enhancing voltage stability and efficiency in power grids.

- Engineered with high-quality design and advanced manufacturing techniques, they ensure reliable grid operation by effectively controlling voltage fluctuations.
- Featuring oil-immersed insulation and cooling similar to transformers, these reactors offer excellent durability, stable operation, and ease of maintenance.
- Designed for up to 400kV, they incorporate advanced seismic design to minimize vibration and noise, delivering eco-friendly performance.
- Tailored solutions meet diverse domestic and international customer needs.

Gas Insulated Switchgear

Since debuting the 170kV GIS in 2002, the Switchgear Systems Division has provided engineered solutions for diverse global needs. We offer a versatile lineup from 72.5kV to 420kV GIS, optimized for compactness and maintenance ease. Leveraging advanced R&D and internationally certified performance, we deliver premier, tailored systems that precisely match each customer's technical specifications.

High-Voltage Switchgear



- Motor-spring operating type
- Provides up to 63kA breaking capacity



- Hydraulic operating method
- Provides up to 63kA breaking capacity



- Motor-spring operating type
- Provides up to 50kA breaking capacity



- Hydraulic operating method
- Provides up to 50kA breaking capacity



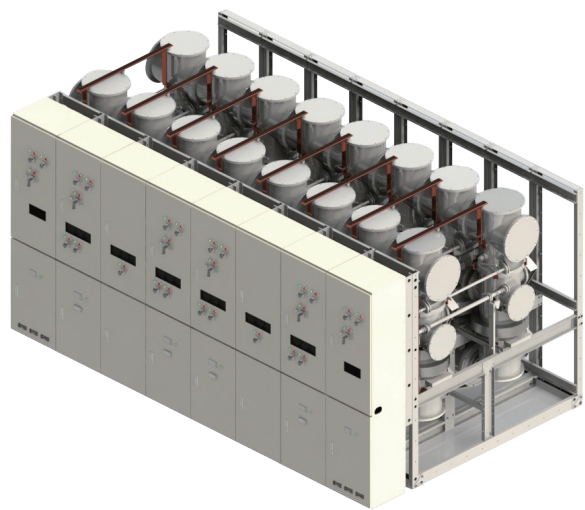
- Motor-spring operating type
- Provides up to 40kA breaking capacity



- Motor-spring operating type
- Provides up to 20kA breaking capacity

Eco-friendly MV GIS

29kV EGIS for railway



Specifications

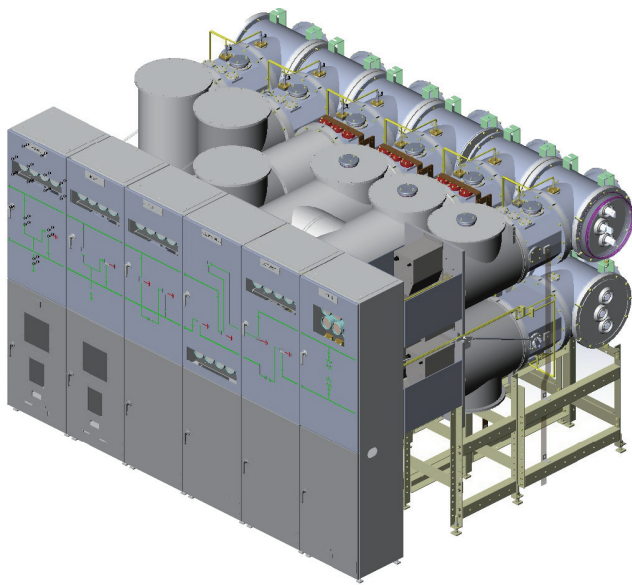
Phase	Voltage	STC	Frequency	Insulation gas
1Φx2	29 kV	20 kA	60 Hz	Dry-air

*STC: Short-time withstand current

Features

- GIS For railway of AT feeding method
- Insulation gas: Dry-air 0.29 Mpa
- High-reliability VI was applied
- The same operating characteristics are realized by arranging individual operating device on each separated phase

25.8kV EGIS for distribution line



Specifications

Phase	Voltage	STC	Frequency	Insulation gas
3Φ	25.8 kV	25 kA	60 Hz	Dry-air

*STC: Short-time withstand current

Features

- GIS For 25.8kV distribution line
- Insulation gas: Dry-air 0.2 Mpa
- High-reliability VI was applied
- Easy maintenance and trouble-free permanent magnet actuator was applied

Product Features



Cable Division

Cable Division carries out the entire process from the production of ultra-high voltage cables to laying, connection, and installation. Since its establishment in 1994, it has been playing a pivotal role in the power sector by providing cable networks domestically and globally. We will do our best to create customer value through the best service, technology, passion, and innovation to build a stable power grid.

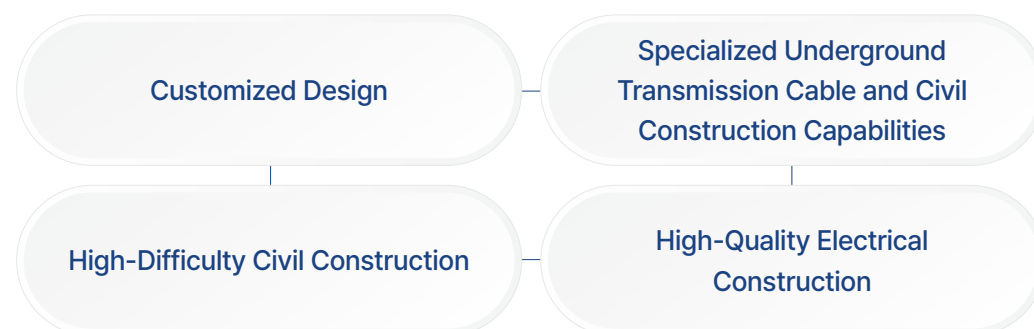
Total Cable System

- ILJIN Electric's HV/EHV underground transmission cables and accessories deliver reliable and sustainable solutions for modern and future utility transmission systems. They exceed customer technical requirements while complying with KEPCO and international standards (IEC, AEIC, BS).
- ILJIN Electric also supplies LV/MV cables and overhead transmission line solutions to domestic and international utility customers, tailored to customers specifications and compliant with KEPCO and international standards (IEC, AEIC, BS).



Turn-Key Power Infrastructure Solutions

- Iljin Electric provides stable and high-quality 'power infrastructure solutions' by executing a turnkey process from transmission grid connection to design, manufacturing, and construction.



HVDC Cable System

- Design of an HVDC cable system with a 40-year service life.
- Application of a smooth metal sheath structure to enable long-length production.
- Minimization of space charge accumulation through the use of low-degassing XLPE (cross-linked polyethylene).
- Production of high-quality products via the VCV (Vertical Continuous Vulcanization) process.
- Successful completion of Type Tests and PQ (Prequalification) Tests for the $\pm 320\text{kV}$ system based on IEC 62895.
- Ongoing internal verification testing for the $\pm 525\text{kV}$ system based on CIGRE TB 852 (simultaneous verification of LCC and VSC types).



$\pm 320\text{kV}$ HVDC XLPE 2500SQMM



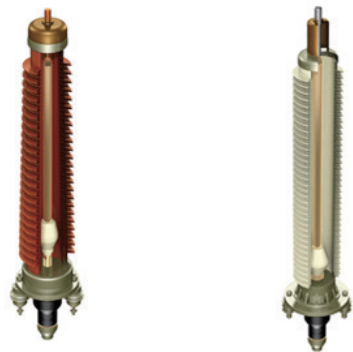
Eco-friendly Polypropylene Insulated Cable System

- Iljin Electric's PP insulated cables are next-generation eco-friendly power cables with improved transmission capacity based on low-carbon insulation materials and high-efficiency design.
- These cables improve the allowable current by more than 10% compared to conventional XLPE insulated cables, enabling stable power supply and contributing to greenhouse gas reduction and the establishment of an eco-friendly power structure.



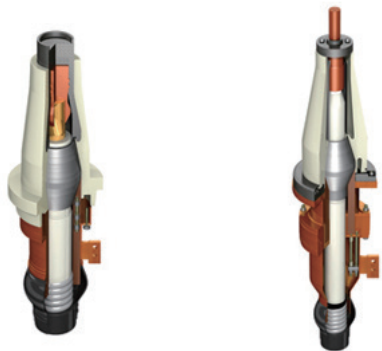
154kV CU/PP/Corr.AL/PE 2500SQMM

Terminations



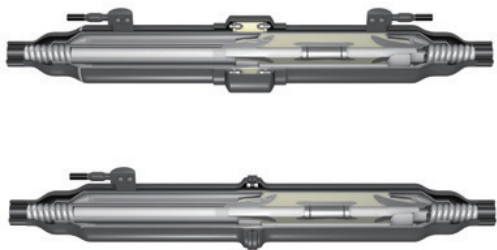
Outdoor Termination

Used in outdoor substations to connect overhead transmission lines with underground power cables. Composed of epoxy bushing tube, rubber stress cone, conductor outlet rod, and support insulators



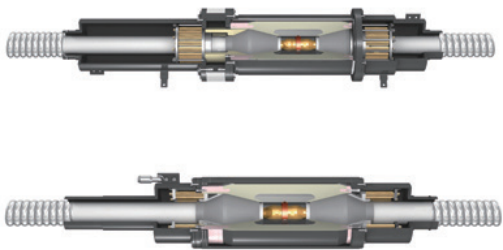
Gas Insulated Termination

Designed for connecting underground power cables to gas insulated switchgear. The unit consists of epoxy bushings, rubber stress cones, spring-loaded compression mechanisms, and conductor rods.



PMJ (Pre-Molded Joint)

Used for cable interconnection. A joint type that maintains insulation by applying a factory pre-molded rubber sleeve onto the cable at site. Simple structure ensures high reliability.



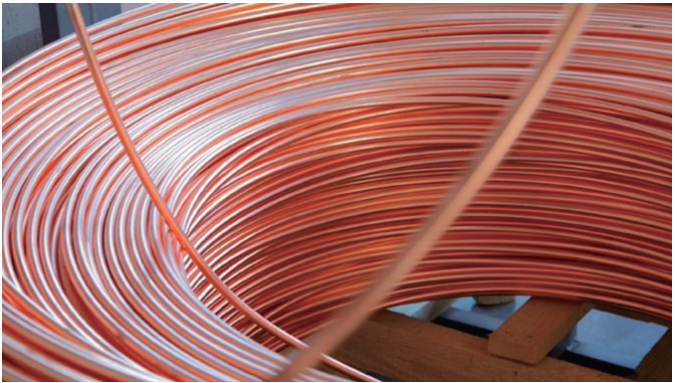
PJ (Pre-Fabricated Joint)

Used for cable interconnection. A joint type that maintains insulation using a factory pre-fabricated epoxy bushing with stress cone and spring unit. Compact structure enables easy maintenance and fault recovery.

Materials Division

COPPER ROD

Iljin Electric's copper rod is a base material for the electrical industry, produced based on over 30 years of accumulated production experience and technology. It is a high-purity (over 99.99%) copper rod manufactured through a rigorous process and quality control system and used in various industries, such as power and communication lines.



Product Features

Highest Quality

Supplying products of stable quality produced using SOUTHWIRE's reliable technology and carefully selected 'GRADE A' materials

Superior Properties

Outstanding mechanical and electrical properties

Wide Range of Applications

A key raw material for a wide range of industries, including power lines, communication lines, enameled wires, marine wires, and automotive wires

Customized Solutions

Supplying optimal products tailored to diverse customer needs

ALUMINIUM (ALLOY) ROD

Combining over 30 years of SCR continuous casting experience with PROPERZI equipment with 80 years of tradition, Iljin Electric's aluminum rod infuses customers' products with flexible possibilities through powerful strength hidden within its lightness. In addition to products for power lines, Iljin Electric's aluminum rod is applied across a wide range of industrial sectors through alloys and special-size products developed to meet diverse customer needs.



Product Features

Highest Quality

Using only high-purity aluminum ingots

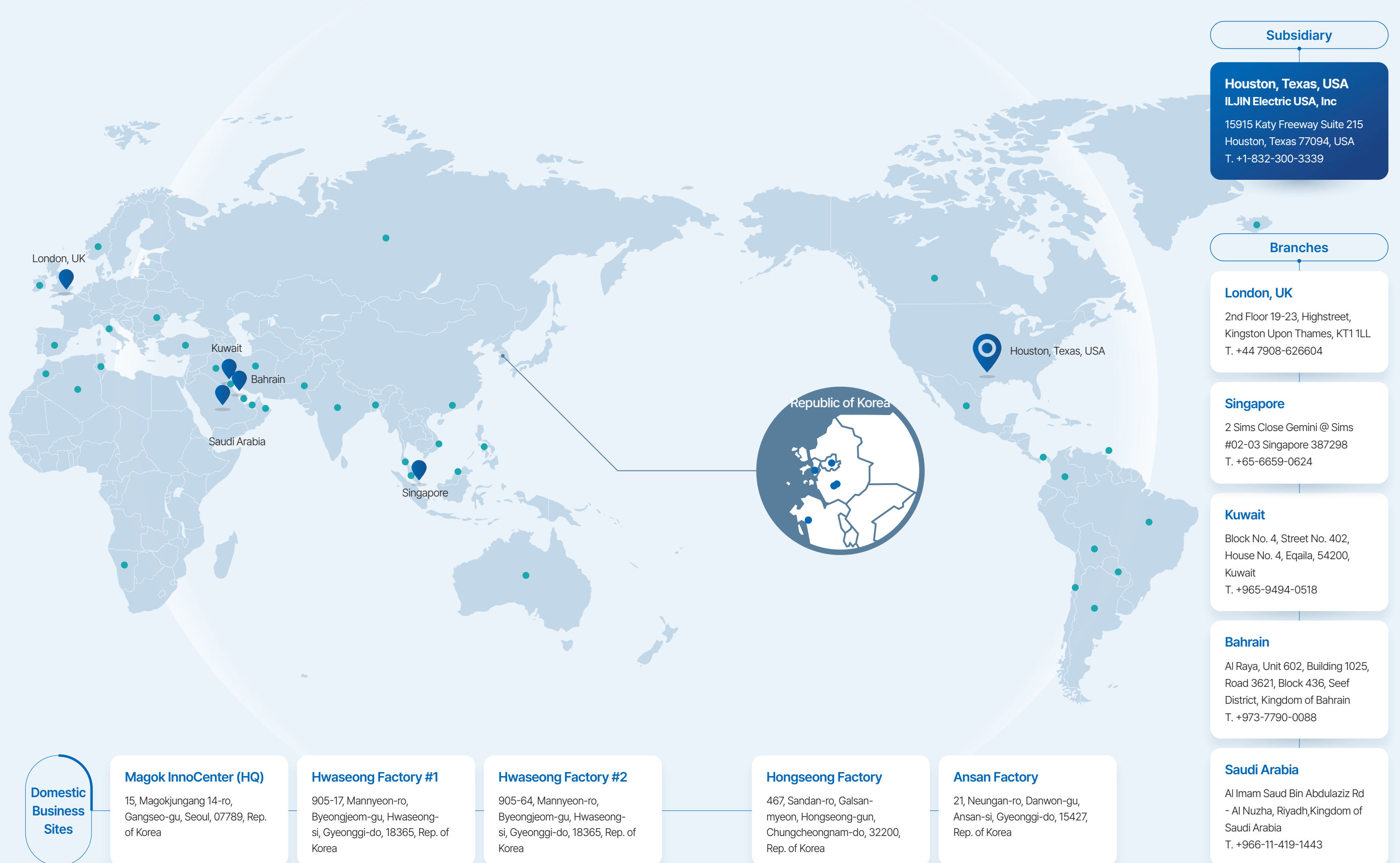
Wide Range of Possibilities

Offering a wide range of options tailored to customer needs

Optimization Support

Providing technical services tailored to each customer's unique requirements

Global Network



Sustainability

As an eco-friendly total energy solution provider, Iljin Electric has established and is actively implementing an ESG management system. In particular, in response to market changes driven by energy transition, we are expanding our range of eco-friendly and high-efficiency products and continuing systematic efforts to reduce carbon emissions. In addition, based on life cycle assessment (LCA), we are mitigating the environmental impact of our products and enhancing our foundation for sustainable management by strengthening compliance, ethical management, and supply chain ESG management. On this basis, we will continue to strengthen our ESG management to realize our commitment to creating a bright future with green energy.



Social

- Creating a safe workplace environment through strengthened occupational safety management
- Operation of health management and fitness promotion programs for officers and employees
- Establishment of a fair and responsible organizational culture based on respect for human rights
- Fostering a sound corporate culture through dissemination of ethical awareness
- Enhancing employee satisfaction by improving officer and employee welfare and working environment
- Securing customer trust through quality-centered management
- Operation of community co-prosperity and social contribution activities
- Promotion of shared growth with partners
- Review and improvement of human rights risks based on human rights impact assessments



Environmental

- Maintenance of ISO 14001 Environmental Management System certification
- Energy efficiency improvement and waste reduction activities
- Environmental education for officers and employees and voluntary environmental cleanup activities
- Promotion of SBT-based carbon reduction strategies
- Participation in global environmental initiatives such as CDP
- Promotion of LCA-based product environmental impact reduction



Governance

- Operation of ISO 37001/ISO 37301-based compliance management system
- Strengthening of anti-corruption and compliance risk management system
- Expansion of compliance training and internal sharing for officers and employees
- Establishment of internal monitoring and ethical management systems
- Operation of a fair trade compliance program (CP)