YPP

Your Permanent Partner

in Global Energy Solutions

Grobal Energy Solution Provider

01 Company Overview

Who We Are

YPP was established in 1982 through an exclusive partnership with GE for the Korean market and has since grown into one of Korea's leading energy companies. Today, YPP is recognized as a global energy solution provider, delivering total solutions that cover everything from individual components to complete power plants.

Built on a strong foundation in thermal and nuclear power plants, YPP develops and manufactures in-house systems for protection, preventive diagnostics, control, and monitoring through its own research center. Together with global partners such as GE, Siemens, and ABB, YPP provides engineering, equipment and system supply, installation, commissioning, and ECMS solutions for power blocks and substations.

YPP now goes beyond equipment supply to offer full EPC-style solutions, including support for financing, in consortium with Korean construction companies for overseas power projects in Central Asia, the CIS, the Middle East, and the United States.

The company has expanded its portfolio from thermal and nuclear to renewable energy and BESS, and since 2020 has delivered full-package water electrolysis solutions for green hydrogen plants in Korea. Building on this experience, YPP is preparing its first overseas green hydrogen project in Kazakhstan to produce hydrogen abroad and supply it to the Korean market.

Looking ahead, YPP has identified SMRs as a key future growth area and is preparing SMR-ready protection and I&C solutions. Leveraging its proven experience in nuclear safety and control, YPP aims to support global SMR developers and utilities with engineering, system integration, and grid interface solutions.

CEO Message

“The energy industry is undergoing a profound transformation.

Built on the pillars of Technology, People, and the Future,

YPP is committed to becoming a global leader in the energy sector beyond Korea.

Together with our clients, we design a sustainable energy future for humanity.”

CEO Jong-man Bek

Corporate Identity

Company Name

YPP Corporation

Core Rules

Engineering, manufacturing, construction, field technical support, and training for power and energy plants

Core Competencies

Power system engineering,
power plant technologies,
control & instrumentation solutions,
technical education

Vision

Global Energy Leader — Expanding from Korea to the World

YPP

Core Corporate Values

_ Ownership & Responsibility
Acting with authenticity and clarity of purpose.

_ Community Harmony
Building strong collaboration and trust with internal teams and external partners.

_ Commitment to Change
Embracing innovation, digital transformation, and emerging energy paradigms.

_ Customer-Centric Mindset
Designing proactive, preventive solutions that address challenges before they occur.

_ Social Contribution
Respecting environmental and human-centered values while contributing to sustainable societal development.

History & Milestones

1980s _ Foundation & Early Expansion

- Established as a protection relay engineering and manufacturing company
- Began supplying digital protection systems to major utilities and industrial clients

1990s _ Technological Advancement

- Established R&D Center
- Launched advanced digital relays and control systems
- Expanded into integrated engineering for power plants

2000s _ Nuclear Power Plant & System Integration Era

- Developed proprietary relay platforms and dual/triple safety architectures for nuclear power plants.
- Built a second manufacturing plant to expand production

2010s _ Renewable Energy & Diagnostics

- Began large-scale EPC projects for combined-cycle power plants
- Entered solar and wind development markets
- Introduced monitoring & diagnostics based on industrial communication protocols
- Expanded overseas operations in Central Asia, Middle East, and Southeast Asia

2020s _ Hydrogen & Digital Transformation Era

- Advanced AI-based diagnostics, digital twins, and predictive maintenance
- Strengthened R&D for IEC 61850-based digital substations
- Began power-infrastructure EPC services for data centers
- Initiated green hydrogen and green ammonia development projects
- SMR-ready I&C and protection architectures based on our experience in nuclear safety systems and triple-redundant protection platforms.

Vision 2030 & Future Growth Strategy

From a trusted Korean specialist to a global leader in next-generation energy solutions.

- By 2030, YPP aims to evolve from a proven protection and control specialist into a global provider of integrated, low-carbon, and digital energy solutions. Building on decades of experience in power systems and nuclear I&C, we are expanding our portfolio toward high-growth areas that will define the future energy landscape.
- We focus our investments, R&D, and partnerships on three strategic pillars that will drive sustainable, long-term growth in the global energy market.

Pillar 1 - Digital & Intelligent Grids

- Expanding IEC 61850-based digital substations and grid automation solutions.
- Deploying advanced monitoring, diagnostics, and AI-based analytics for transmission and distribution networks.
- Supporting utilities and industrial customers in modernizing aging infrastructure into smart, resilient grids.

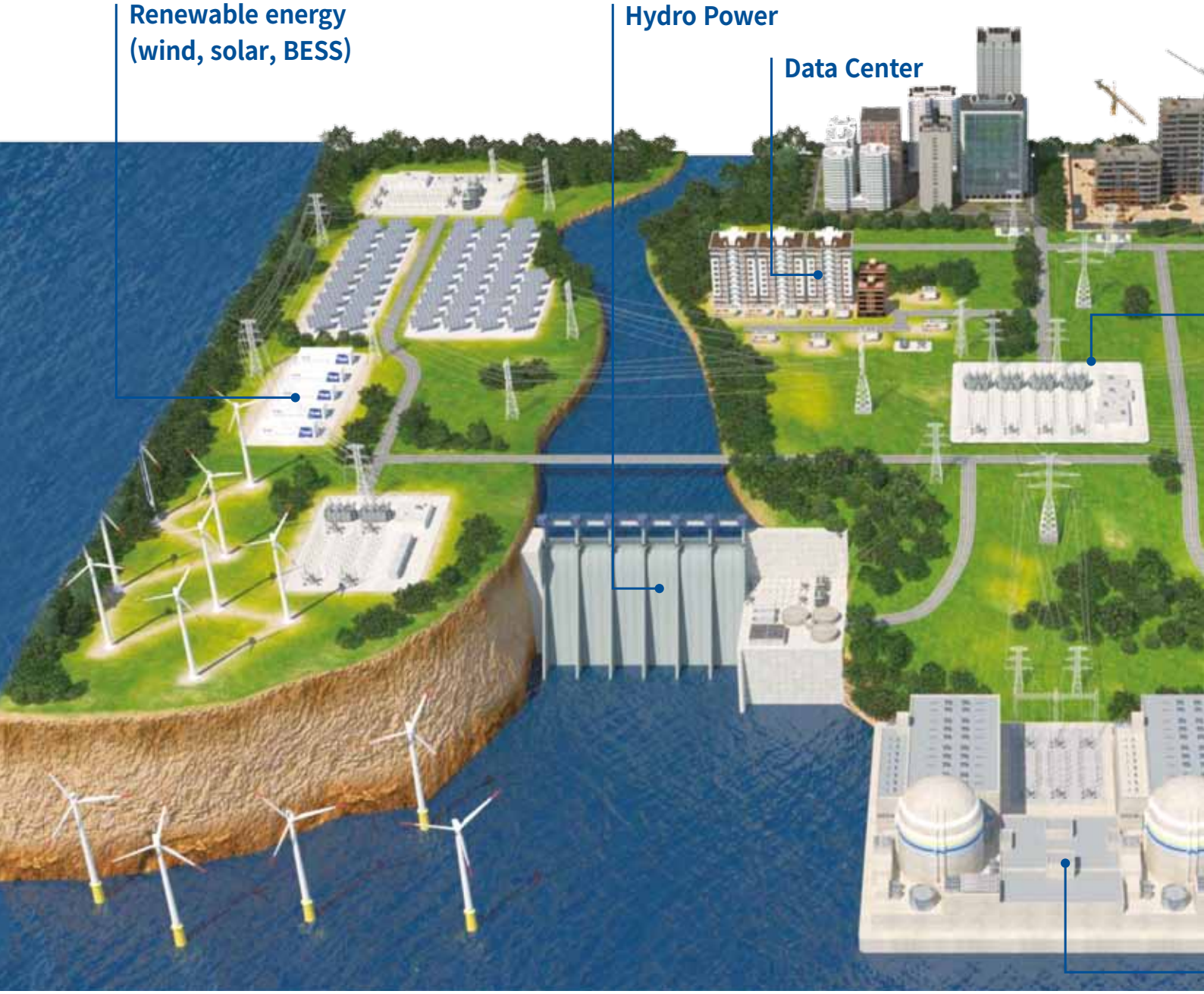
Pillar 2 - New Energy & Emerging Power Markets

- Developing engineering capabilities for green hydrogen, green ammonia, and hybrid renewable projects.
- Providing power infrastructure and EPC services for large-scale data centers and high-density loads.
- Building microgrid and BESS solutions that combine reliability, flexibility, and decarbonization.

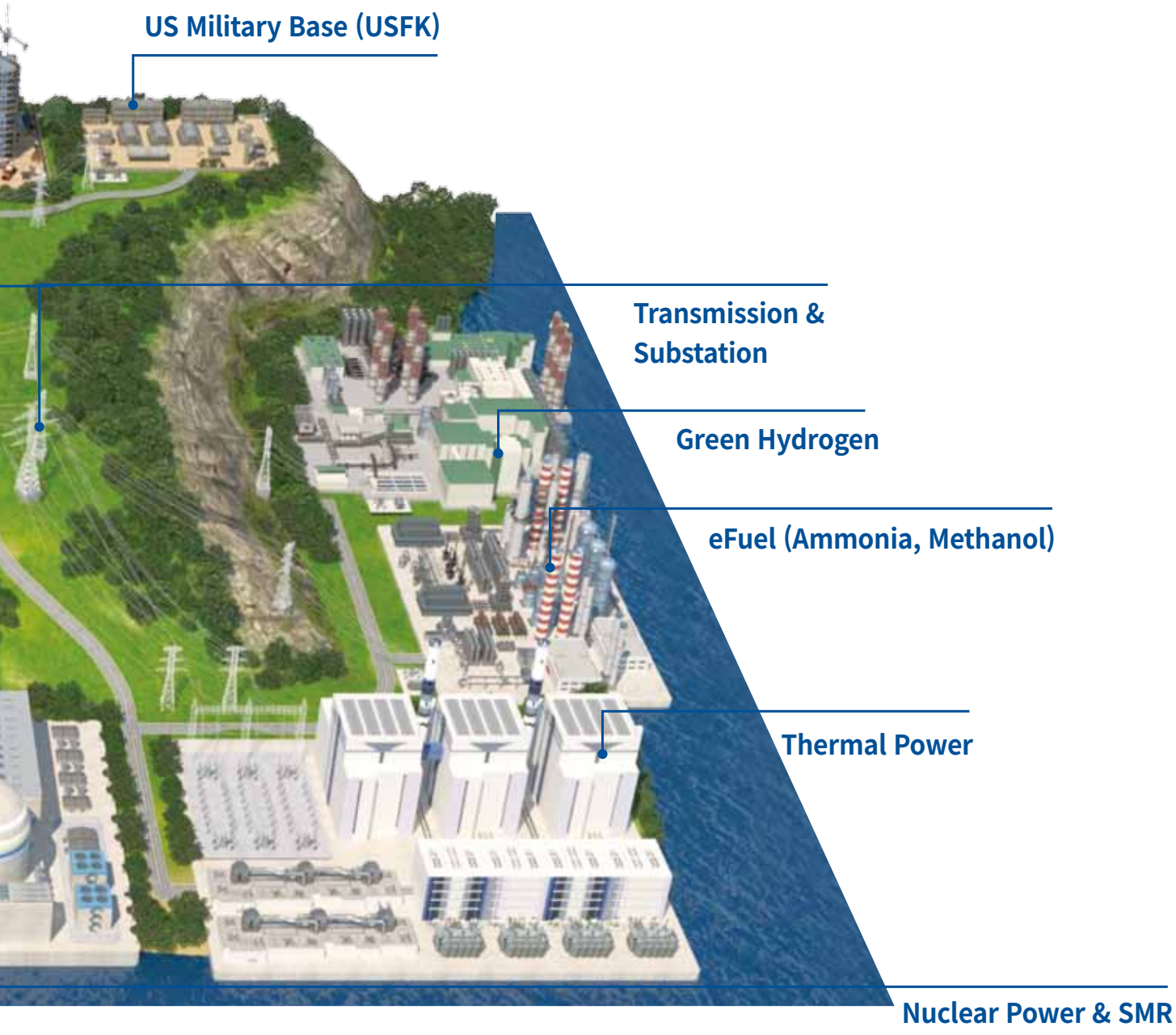
Pillar 3 - Advanced Nuclear & SMR Readiness

- Enhancing safety, protection, and control systems for existing nuclear power plants.
- Preparing SMR-ready I&C and protection architectures based on our proven nuclear platforms.
- Partnering with global reactor vendors, EPCs, and utilities for next-generation nuclear projects.

02 Business Areas



YPP, “The comprehensive energy solutions company” leading the future energy market based on 43 years of accumulated technological expertise and global experience.



Nuclear Power

Nuclear energy is the backbone of national energy security.
YPP provides specialized expertise across I&C, protection relays, safety analysis, commissioning, and maintenance.

- Nuclear I&C engineering
- Safety-grade system support
- Special process equipment & technical services
- Maintenance, inspection, O&M training Growing as a trusted partner for domestic and international nuclear projects.

Combined-Cycle Power Plants (CCPP)

Delivering high efficiency and high reliability across the entire lifecycle.

- Turbine, boiler, HRSG, BOP technical support
- C&I engineering
- Performance improvement & troubleshooting
- Preventive maintenance, startup & shutdown support

Renewable Energy (Solar, Wind, Hydro)

Essential for carbon-neutral transformation

- Full-solution from project development and finance to completion and operation
- Grid-connected protection & control design
- Renewable integrated monitoring platforms

Green Hydrogen & Ammonia

Supporting the next-generation clean energy transition.

- Domestic green hydrogen experience, expanding to commercial-scale H and NH plants overseas
- Strong government and policy networks supporting large public-led energy projects
- End-to-end value-chain capability: F/S, financing, EPC, and O&M
- Integrated solutions from AEC/PEM electrolysis to BOP power control systems

Substation & Power Systems

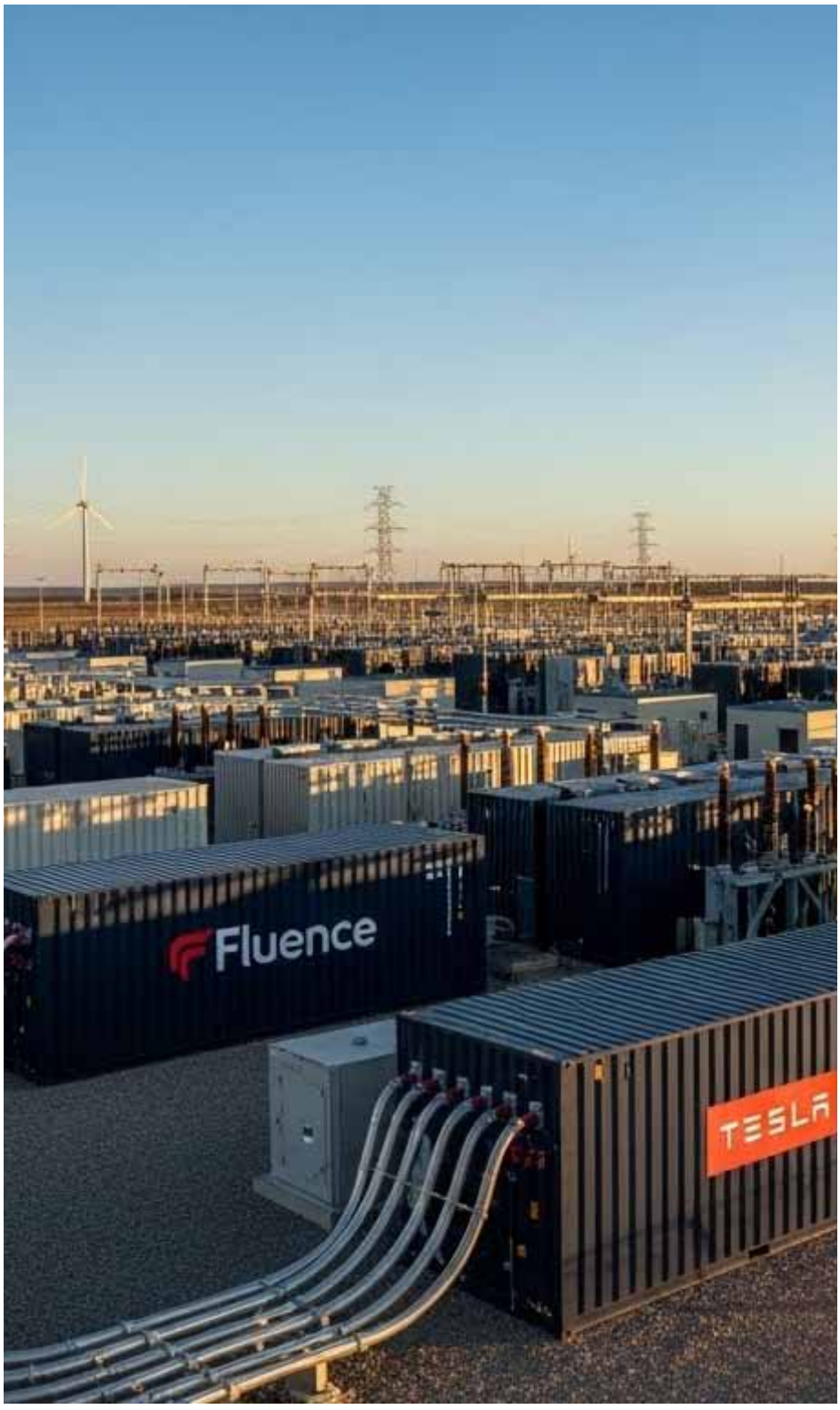
Core infrastructure that controls the flow of electricity.

- Protection relay systems
- SCADA, EMS, DAS
- Substation automation (SAS)
- Relay setting, commissioning, maintenance

Energy Storage Systems (ESS)

A key component for grid stability and renewable integration.

- ESS design & installation
- EMS control system integration
- Safety & accident-prevention solutions
- O&M service


Fluence
TESLA

Control Valve Business

A specialized supplier of precision control valves.

- High-precision valve manufacturing
- Valve diagnostic systems
- Valve refurbishment
- On-site engineering services

U.S. Military Base Projects (USFK)

Supporting electrical, mechanical, and energy infrastructures for US military facilities in Korea.

- Power equipment upgrades
- Control & instrumentation
- Standardization work per USACE/UFC standards

Data Center Infrastructure

Where power quality and reliability are mission-critical.

- Power system design & protection
- Power quality management
- Emergency power & switchgear engineering
- Cooling and environmental system support

SMR (Small Modular Reactors)

Leveraging nuclear and power-system expertise for next-gen SMR markets.

- SMR I&C system research
- O&M and operator training programs
- Engineering support for global deployments

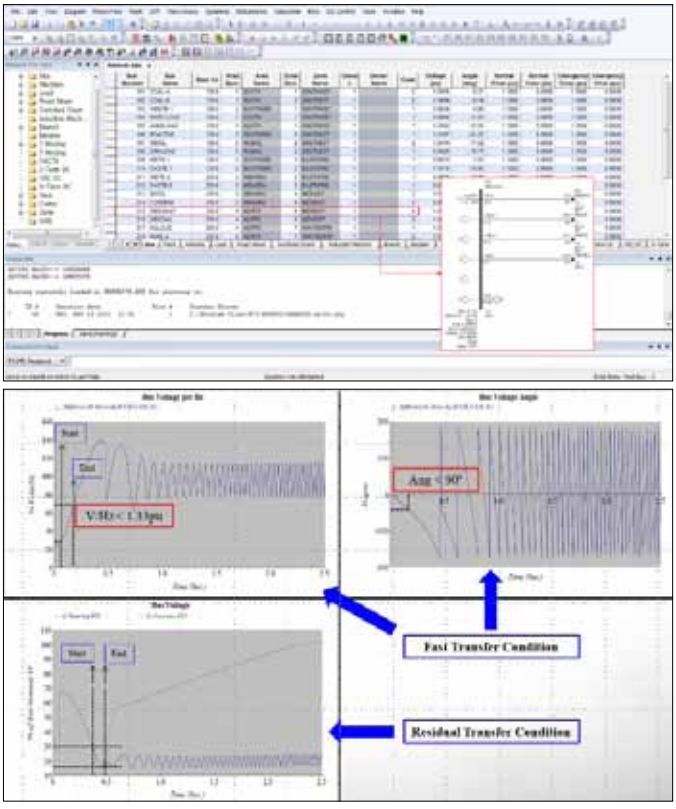
03 Engineering Services

Electrical design for Plants

Electrical design works include power system design, control circuit design, cabling design and power supply protection circuit design as well as electrical construction drawing associated vit them so that various facilities and equipment of the power plant operate normally.

Instrumentation design for plants

- Keep optimal status of power plant by effective plant control
- Quickly back to normal status of power plant during/after plant accident
- Protection, control, monitoring and MMIS/HFE system design

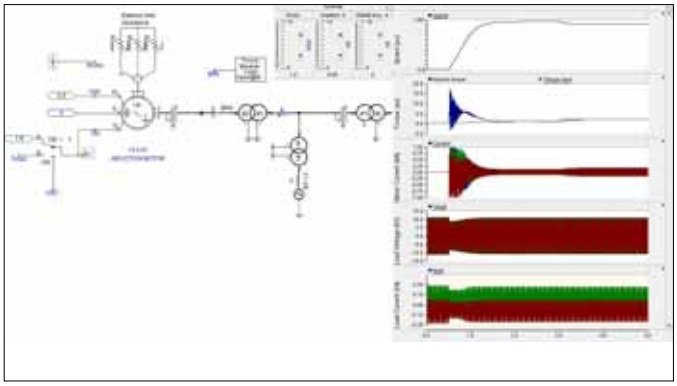


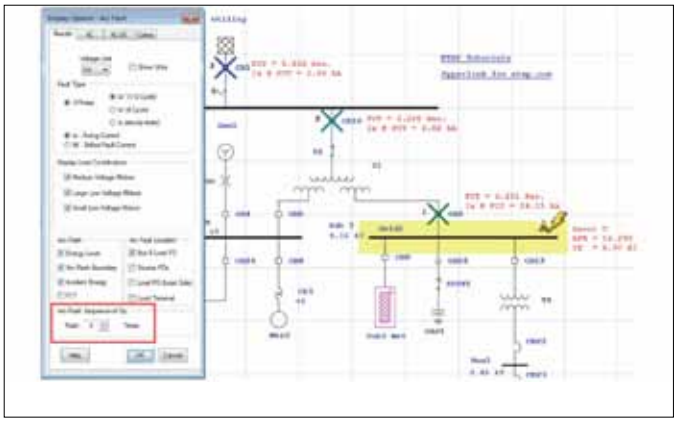
Power System Consulting

Consulting and engineering services are to provide customized solutions by using various power system analysis methods and power system analysis tools, for improvement of power system reliability, review of transmission system technology, analysis and diagnosis of power system, design of protection system and corrective calculation, etc. so that customers can build and operate a optimal power system. It has performed technical review and analysis, diagnosis, protection system design and corrective calculation for many industrial plants such as thermal and combined cycle power plants, and petrochemical and semiconductor plants, contributing to stable power system operation and continuous production by customers.

Instrumentation design for plants

1. Improvement of power system reliability
2. Review of transmission system technology
3. Protection system design coordination
4. Power system analysis and diagnosis
5. Arc flash energy analysis





Commercial Grade Item Dedication (CGID)

YPP strictly manages nuclear safety-related items according to the NQAP (Nuclear Quality Assurance Program) based on ASME/KEPIC QAP-1, QAP-2. 2.14, KINS/ RG-N17.12 and EPRI NP5652 (and its latest guidance). Commercial-grade item dedication (CGID) is performed by professional engineers and test/ inspection personnel certified by rigorous evaluation. If necessary for CGID, additional functional testing and equipment qualification are carried out in cooperation with partner companies.

Nuclear Radioactive Materials Managements

Development of safe management technique and related facilities of radioactive wastes minimizing radiation exposure during operation of nuclear power plants.

OPERATION MAINTENANCE

YPP signed a Channel Partner Agreement with GE to provide total service and technical support such as installation, test, commissioning, inspection (diagnosis, maintenance, and facility improvement (Retrofit by skilled technicians with rich experience, knowledge and qualifications. Through this, we perform tasks to improve the soundness of facilities and operational reliability.

RENEWABLE ENERGY - Hydro Power

Yep's hydro power plant business includes the supply of spare parts for the major equipment of power plants in operation, equipment improvement, diagnosis of the performance of Hydro power turbines and generators, precision inspection service, large-scale retrofit and construction of new power plants, which are conducted in cooperation with GE Hydro, which has the best comprehensive technology in the world.

ESS - Energy Storage System

Power grids realize stable power supply by optimally balancing supply and demand. But as the use of solar/wind power and other renewable energy sources, which have unstable output, continues to increase, power supply to the entire grid could become unstable.

To overcome such challenges, we need technology that “Energy stores electrical power.” By storing electrical energy in energy storage systems, electrical load is equalized, promoting the efficient and enhance power quality use of energy.

And ESS helps to effectively use and manage your energy that leads to the reduction of the electricity bill.

EPC

Since its establishment in 1982, YPP has grown into an integrated EPC provider in the power and energy sector. Leveraging its proven track record in supplying and constructing protection systems, substations, and plant control systems in Korea and overseas, YPP continues to execute large-scale projects in regions such as Central Asia, Southeast Asia, Africa, and the Middle East.

Key Strengths

Power System Expertise

YPP has long-standing experience and highly skilled engineers in power system design, protection systems, substation equipment, and plant control systems. We combine deep technical knowledge with extensive field experience to deliver robust, future-ready solutions.

Turnkey EPC Execution Capability

YPP provides full-stack solutions across the entire project lifecycle—from feasibility studies and basic design through detailed engineering, procurement, construction, commissioning, and operation & maintenance (O&M).

Experience in Large-Scale Global Projects

YPP provides full-stack solutions across the entire project lifecycle—from feasibility studies and basic design through detailed engineering, procurement, construction, commissioning, and operation & maintenance (O&M).

Talent & Technical Training Capability

Through specialized training programs and on-the-job development, YPP cultivates engineers and technicians who can execute complex projects and provide reliable post-project support for customers worldwide.

Key Trust Factors

- Over 40 years of accumulated expertise as a specialized company in the power sector
- Proven collaboration and supply record with major domestic utilities and EPC partners
- Export and EPC achievements across regions including the Middle East, Central Asia, Southeast Asia, and Africa

04
YPP Academy — PSAC & Relay School

The YPP Academy is Korea's leading professional training institution for power-system engineering.

The YPP Academy is a leading professional training institution for power-system engineering, where engineers from Korea and around the world develop both their theoretical expertise and practical field skills.

We provide intensive, practice-oriented programs that help utility engineers, EPC professionals, and industry experts strengthen their capabilities in protection, control, and power-system operation.

Relay School

A hands-on training program focused on protection relays, power-control systems, and real-world troubleshooting of power facilities.Participants include engineers and technicians from KEPCO, public and private power generators, industrial plants, and overseas utilities and EPC companies who seek to deepen their skills through practical exercises and site-based case studies.

PSAC (Power System Advanced Course)

Operated jointly with the Korea Power Exchange (KPX), PSAC is a fully integrated advanced training program for power systems.It covers system operation and stability, protection and coordination, renewable integration, efficiency improvement, and the future of smart and digital grids.The course is open to both domestic and international professionals, providing a platform where experts from different countries share experience, benchmark best practices, and build a global network in the power industry.

05 ESG & Sustainability

Environmental

- ISO 14001-certified environmental management system
- Programs to reduce emissions and pollution across projects and operations
- Carbon reduction through renewable and low-carbon energy projects

Social

- Safety-first site management and strict HSE practices
- Fair and ethical labor standards for all employees and partners
- Community engagement and contribution to local development

Governance

- Transparent and accountable management systems

Strong anti-corruption and compliance protocols

Supplier Code of Conduct to ensure responsible and ethical sourcing


CERTIFICATE OF APPROVAL

YPP Corp.

Korean Standards Association hereby certifies that the Environmental Management System of the above organization has been assessed and found to meet the requirements of the standard and scope of certification detailed below:

EMS-0973

14 February 2020

13 February 2023

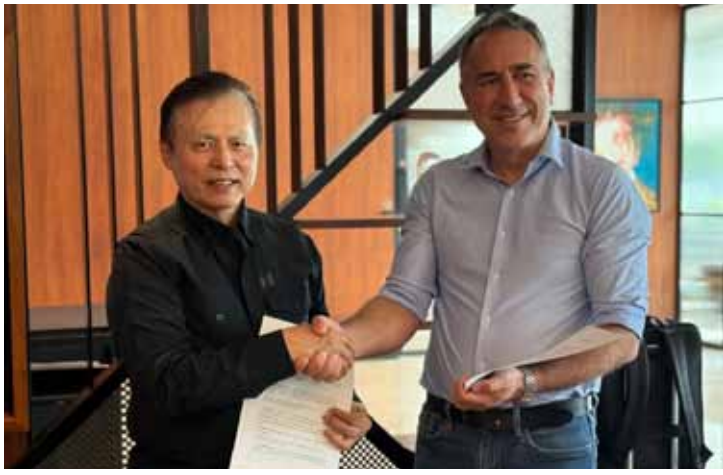
KOREAN STANDARDS ASSOCIATION

KSA

06 Global Presence

YPP operates globally through projects and partnerships across:

- **Central Asia** Kazakhstan, Uzbekistan, Turkmenistan
- **Southeast Asia** Vietnam, Indonesia, Malaysia
- **Middle East** UAE, Saudi Arabia, Oman, Turkey,
- **Africa** Egypt , Madagascar
- **Europe** Czech, Poland, Rumania
- **North America** U.S. Canada



07 Strengths & Differentiators

Environmental

- 40+ years of accumulated engineering expertise
- Full EPC capability from feasibility to commissioning
- Proprietary relay, diagnostic, and digital technologies
- Global partnerships (GE Vernova, ABB, Schneider)
- AI-based renewable & power-plant platforms
- Strong reputation for safety, ethics, reliability
- End-to-end project management for renewables & hydrogen
- Extensive manufacturing & R&D infrastructure

08 Facilities & Organization

Head Office & R&D Center — Seoul

- Corporate management
- Engineering & R&D
- YPP Academy
- Control & monitoring center

Manufacturing Plants

- Plant 1(Seoul) : Relay production, testing, calibration
- Plant 2 (Haman) : Customized Special Control Valve Production I
- Plant 3 (Gimhae) : Customized Special Control Valve Production II

09 Contact Information

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Customers & Partners

Global Partners

Domestic Partners & Customers

Your Permanent Partner in Global Energy Solutions