

PARTNER WITH SEOEUN PLANT TECH



Website



Insights



Company
Profile

Bundang Office

Hwaseong Plant

Boeun Plant



Bundang Office

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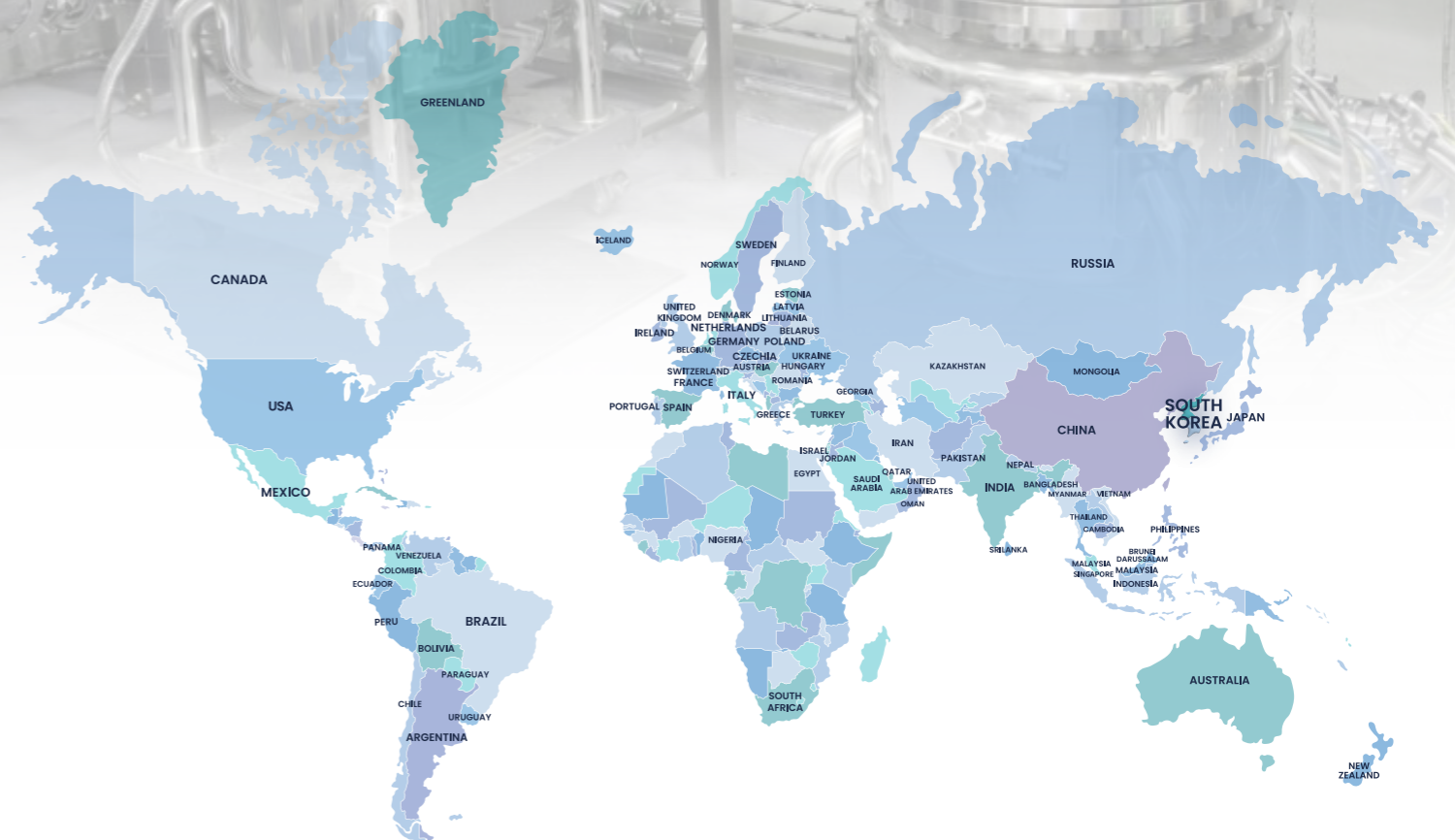
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KOREA ENERGY AGENCY

IMPORT INSPECTION GUIDE

PRESSURE VESSEL (ASME, KS, JIS, GB, EN, DIN, etc.)



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Import Inspection and Certification Services(KEA · KOSHA · KGS)

01 SEOEUN PLANT TECH OVERVIEW

SEOEUN PLANT TECH CO., LTD. is a consulting company providing import pressure vessel certification services for KEA, KOSHA and KGS. With 40 years of experience, we consult on all aspects of documentation, drawings, inspection and installation of imported equipment.

02 CLIENTS OF SEOEUN PLANT TECH

Importers and Exporters : Project owner(User), Equipment supplier(Trading Company), Manufacturer

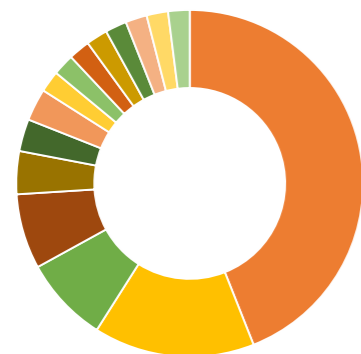
03 SCOPE OF WORK – SEOEUN PLANT TECH

- | | |
|--|---|
| 1) Guidance on the information required for the contract | 5) Continuous communication with KEA, KOSHA and KGS until document approval |
| 2) Manage delivery schedules aligned with the manufacturing process | 6) Accompanied by welding inspection and structural inspection |
| 3) Pre-meetings with KEA, KOSHA and KGS | 7) Guidance for installation inspection approval after shipment to Korea |
| 4) Drawing review and documentation based on KEA, KOSHA and KGS requirements | |

04 WHY COLLABORATE WITH SEOEUN PLANT TECH

- 1) We provide consulting with expertise based on 40 years of experience.
- 2) We directly manage all parts including documents, drawings, inspections, domestic delivery dates and installation completion.
- 3) We proceed according to the manufacturing and delivery schedule.
Estimated time required : Document approval - About 3 weeks / Inspection approval - About 6 weeks

05 PROJECT REFERENCES – SEOEUN PLANT TECH



China 44%
Germany 15%
India 8%
France 7%
Japan 4%
USA 3%
Malaysia 3%
Netherlands 2%
Spain 2%
Mexico 2%
Italy 2%
Czech 2%
Sweden 2%
Indonesia 2%
Other Countries 2%

Since December 3, 2017, SEOEUN PLANT TECH CO., LTD. has obtained and processed inspection certifications for more than **2,800** pressure vessels from **69** countries.

06 OTHER SERVICES – SEOEUN PLANT TECH

- Domestic certification and Overseas import certification - KEA, KOSHA, KGS, DNVGL, LR, ABS
- Basic & Fabrication Drawings / Strength Calculation / Thermal Design / FEA / Process Design / P&ID / Earthquake-Resistant Design
- Pilot Plant / Test Bed / Lab Bench Scale / Piping

KOREA ENERGY AGENCY (KEA) Pressure Vessel Import Inspection Services



01 KEA INSPECTION OVERVIEW

Due to the revision of the Energy Use Rationalization Act, manufacturing inspections for imported equipment after December 3, 2017, must be conducted at the manufacturers' sites under the same standards applied in Korea. KEA imported vessel inspection is different from other countries. In particular, domestic standards vary depending on the materials used. In addition, since foreign companies do not know the domestic application standards, there are many difficulties in the certification and manufacture process. Accordingly, SEOEUN PLANT TECH consults on KEA inspection to overcome these difficulties.



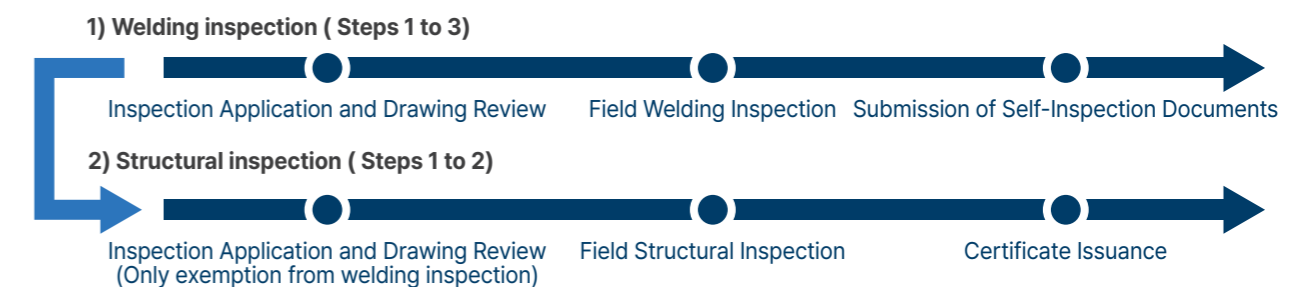
02 KEA INSPECTION TARGET AND TYPE

- **High-temperature, high-pressure vessels using thermal media in petrochemical, bio, pharmaceutical, food, energy and new materials** [Energy Use Rationalization Act Article 31 Paragraph 6]
- **Inspection Device Type**
- Pressure Vessel / Heat Exchanger / Reactor / Agitator / Bio Tank / Autoclave / Retort / Sterilizer
Dyeing Machine / Extractor / Evaporator / Incubator / Bioreactor / Fermenter / Glass-Lined Vessel

03 KEA INSPECTION CRITERIA

Category	KS	MOTIE
Technical Standard	KS B 6750 (=ASME Sec.VIII div.1)	MOTIE Notice No. 2019-16
Available Material	Only KS or ASME materials allowed	KS material or higher (JIS, EN, GB)
Quality Control System	Documented system required	Not required (But WPS required)
Specimen Test	Required only for specific requirements	Required for vessel shell length or circumferential joint welds
Self-Inspection Accepted	Non-destructive, Mechanical testing conducted by government-operated or recognized companies	

04 KEA PRESSURE VESSEL IMPORT INSPECTION PROCEDURE



05 KEA

- Installation Inspection** A person intending to install and operate equipment subject to inspection. [Energy Use Rationalization Act, Article 39]
- Internal Inspection** A person intending to continue operations by undergoing an internal inspection every two years after the initial installation [Energy Use Rationalization Act, Article 31]
- Continued Use Inspection** A person intending to continue using equipment after the expiration of its current inspection validity period [Energy Use Rationalization Act, Article 31, Paragraph 19]
- Modification Inspection** A person intending to use equipment subject to inspection after modification or alteration [Energy Use Rationalization Act, Article 39]
- Relocation Inspection** A person intending to use equipment subject to inspection after changing its installation site [Energy Use Rationalization Act, Article 39]