



KOCEN

Global leading provider of Quality
Surveillance, Concrete Test,
Overall Design Engineering and
Document Control services for domestic
and overseas power plants

KOCEN Co., Ltd.

Greetings from CEO



KOCEN provides solutions that ensure quality, safety, reliability and efficiency for power plants as a leading provider of quality surveillance, concrete test, nuclear overall design engineering and document control services for domestic and overseas power plants

Since founded in 1998 as a spin-off from KEPCO E&C, KOCEN has operated teams of highly qualified engineers specialized in the nuclear power plant projects with extensive international experience. We have been successfully carrying out our services in all Korean NPPs, UAE Barakah NPPs, thermal power plants and other industrial plants projects based on our predominated longstanding experience, experts, qualifications and leading market positioning.

Accredited to ISO/IEC 17020, 17025 by the Korea Laboratory Accreditation Scheme, ISO 9001 and ISO 45001 KOCEN has been certified internationally to provide reliable and independent services.

KOCEN is also very specialized company in operating nuclear power plant overall design engineering as a safety related Q class provider of KHNP.

KOCEN has contributed to advance of overseas nuclear power plant projects of Korean power organizations with more improved quality and safety required by the global power generation market.

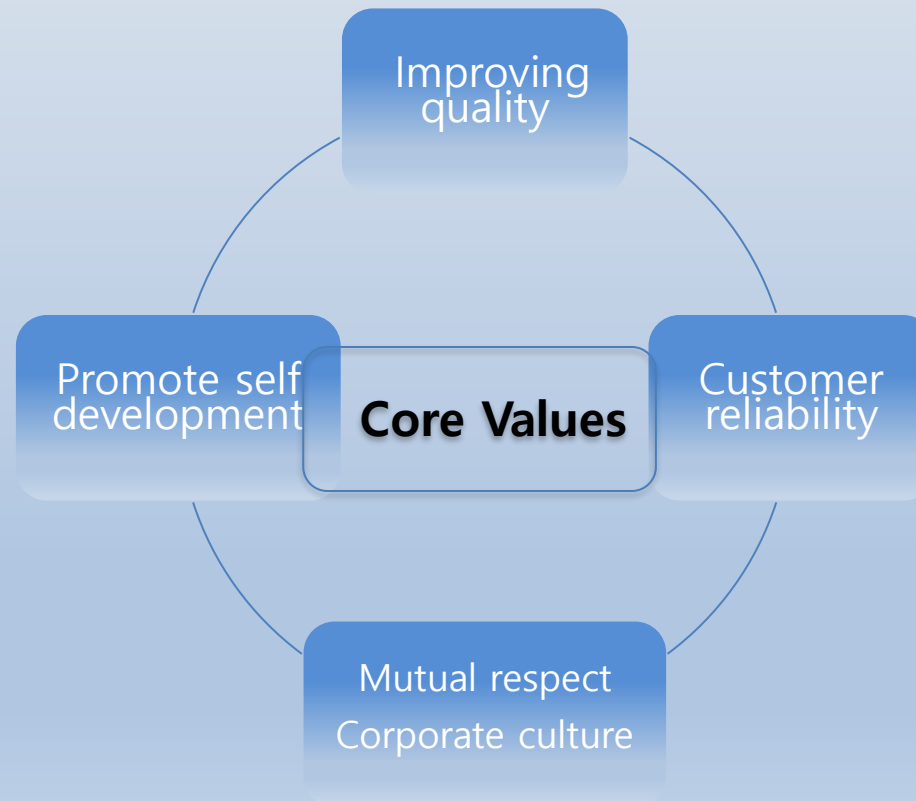
We sincerely appreciate your generous support for KOCEN, and we will ensure reliability of customers with more specialized system.

Thank you very much.

Dr. Young-Ha Lim
CEO, Chairman of KOCEN Co., Ltd.

**Company
Motto**

Robust
engineering



KOCEN at a glance



Founded

in **1998** as a spin-off of KEPCO E&C

Shareholder & CEO

DK Engineering (ratio 100%), **Dr. Young-Ha Lim**

Locations

Seongnam city near Seoul (HQ), Busan, Kori, Changwon, Gimcheon, Dongtan, Gyeongju, Uljin office in Korea, UAE Barakah and Egypt El-Dabaa office

Manpower

162 highly qualified engineers and technicians with 280 certifications

Finance data (2021)

Credit rating: A / sales: 14.6BKRW(11.3M US\$)



Main accreditations

ISO/IEC 17020/17025, ISO 9001, ISO 45001, 28 registered patents and registered provider of KHNP Q class for operating NPPs design eng'g etc.

Main Services

Quality Surveillance, Concrete Test, Design Engineering and Document Control services for power plants

Related Companies

DK Engineering Co., Ltd. / DK E&C



Establishment and growth period from 1998 to 2017

- **1998.12 Established KOCEN Co., Ltd. as a spin-off from KEPCO E&C**
- 1999.01 Transferred KEPCO E&C work to KOCEN and engineering business entity registration
- **2001.02 Uljin Laboratory accredited to ISO/IEC 17025 by Korea Laboratory Accreditation Scheme(KOLAS)**
- **2002.07 Quality Surveillance Department accredited to ISO/IEC 17020 by KOLAS**
- 2003.01 Awarded a contract for Concrete test project for Shin-Kori 1, 2 NPPs
- 2003.04 Awarded contracts for Quality surveillance and Documents control projects for Shin-Kori 1, 2
Awarded a contract for Quality surveillance project for Shin-Wolsong 1,2 NPPs
- 2003.10 Awarded a contract for Concrete test project for Shin-Wolsong 1,2 NPPs
- **2004.06 Moved headquarter to KrantzTechno Building in Seongnam city near Seoul**
- 2007.01 Awarded contracts for Quality surveillance and Documents control projects for Shin-Kori 3,4(Saeul 1,2) NPPs
- 2007.05 Awarded a plaque of appreciation of KHNP for Document control project for Shin-Kori 1,2 NPPs
- 2007.10 Awarded a contract for Concrete test project for Shin-Kori 3,4(Saeul 1,2) NPPs
Awarded a prize of excellent subcontractor of KEPCO E&C
- 2008.12 Awarded a prize of the best subcontractor of Incheon International Airport for information security
- 2009.12 Awarded a contract for Quality surveillance project for Shin-Hanul 1,2 NPPs
- 2010.03 Awarded a contract for Concrete test project for Shin-Hanul 1,2 NPPs
- 2010.04 Awarded a contract for Document control project for Shin-Hanul 1,2 NPPs

- **2010.10** **Integrated by TÜV SÜD AG**

- 2010.11 Awarded a contract for Document control project for UAE Barakah NPPs
- 2010.12 Awarded a contract for Quality surveillance project for UAE Barakah NPPs
- 2011.05 Awarded a contract for Concrete test project for UAE Barakah NPPs
- 2011.11 Awarded a contract for Non-seismic piping design engineering project for UAE Barakah NPPs
- 2011.12 Acquired corporate credit rating of A+ / Acquired TÜV SÜD GNEC
- 2012.11 Awarded a contract for Construction technical support project for Shin-Hanul 1,2 NPPs
- 2012.12 Awarded contracts for Quality surveillance projects for Taean and Dongducheon thermal power plants
- 2015.08 Awarded a prize by Ministry of Trade Industry and Energy(MOTIE) for Rad-waste disposal facility concrete test project
- 2015.09 Awarded a contract for Concrete test project for Shin-Kori 5,6(Saeul 3,4) NPPs
- 2015.10 Awarded a contract for Document control project for Shin-Kori 5,6(Saeul 3,4) NPPs
- 2016.02 Awarded a plaque of appreciation of KEPCO for UAE Barakah NPP 1 project
- 2016.08 Awarded a contract for Quality surveillance project for Shin-Kori 5,6(Saeul 3,4) NPPs
- 2016.11 Awarded a contract for Concrete test project for Stage 2 rad-waste disposal facility
- 2016.12 Awarded a contract for Piping design engineering project for Shin-Hanul 3,4 NPPs
- 2017.02 Awarded a contract for Quality surveillance of steam generator replacement for Hanbit 5,6 NPPs
- 2017.03 Awarded a contract for Construction quality surveillance project for Shin-Kori 5,6(Saeul 3,4) NPPs

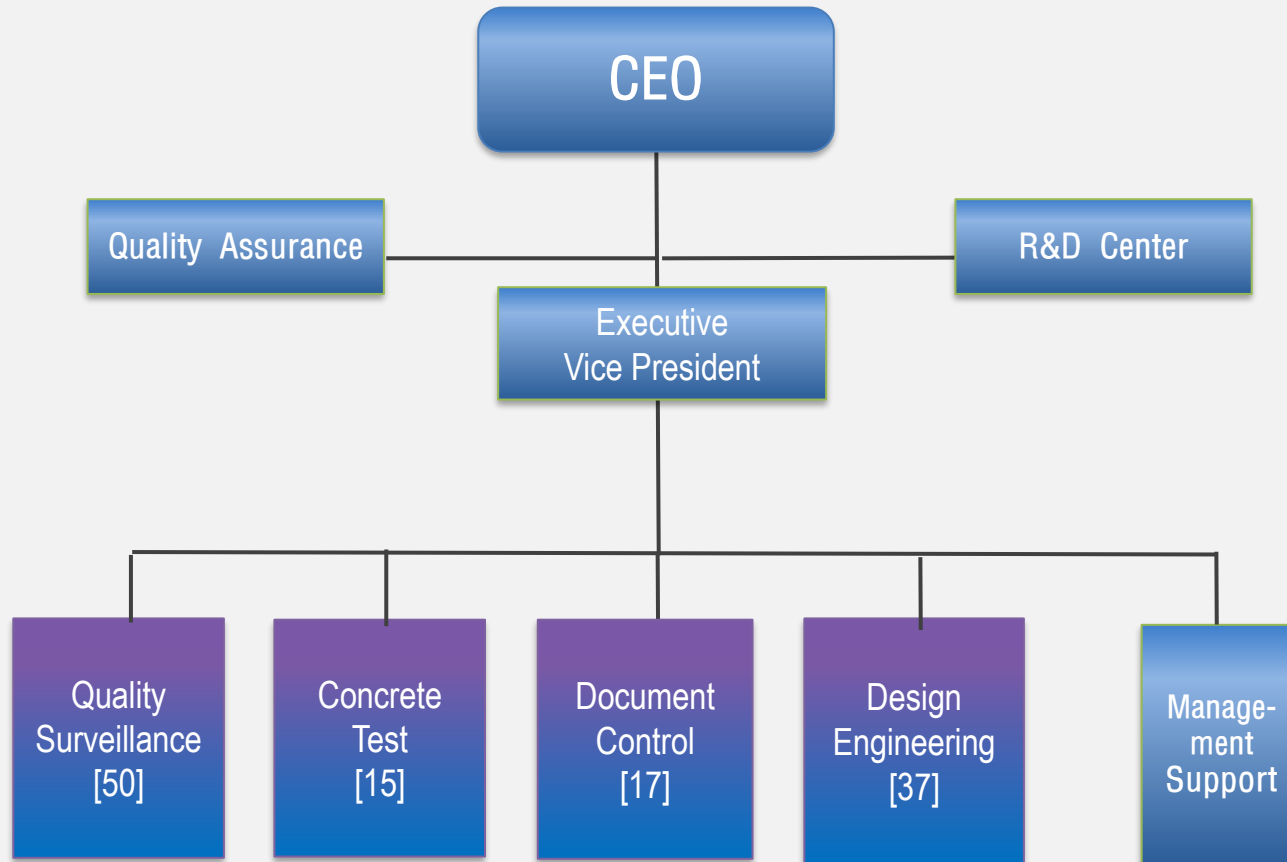
From 2018 to the present, DK KOCEN ' The Second Leap Period'

- 2018.07 **Changed KOCEN shareholder to DK Engineering Dr. Young-ha Lim inaugurated as the 8th CEO**
- 2018.12 **Celebrated the 20th anniversary of founding, declaring the vision of 'The Second Leap' with DK Engineering**
Awarded a contract for 2018 Mechanical design engineering project of operating NPPs
- 2020.02 Awarded a contract for 2019 Mechanical design engineering project of operating NPPs
- 2020.11 Awarded a contract for NPP decommissioning hot cell design research
- 2021.04 Awarded a plaque of appreciation of KEPCO E&C for UAE Barakah NPP 1 project
- 2022.05 Awarded contracts for Concrete test and Quality surveillance projects for export new types of research reactor
- 2022.08 Awarded a contract for commercialization research for reactor control system and digital I&C
- 2022.12 Awarded a prize by Ministry of Trade Industry and Energy(MOTIE) for Shin-Hanul 1 project
Registered as a provider of KHNP safety related Q class for operating NPPs overall design engineering
Opened a concrete test lab. for export new types of research reactor and self-owned factory in Busan
- 2023.03 Awarded a contract for Concrete test project for Shin-Hanul 3,4 NPPs
- 2023.07 Awarded a contract for Document control project for Shin-Hanul 3,4 NPPs
- 2023.09 Awarded a contract for Document control project for Egypt El-Dabaa NPPs
Awarded a contract for 2023 Mechanical design engineering project of operating NPPs
- 2023.11 Awarded a contract for Quality surveillance for ARA research reactor BOP
- 2024.05 Awarded a contract for 2024 Mechanical, I&C design engineering projects of operating NPPs



Industry accreditations

- Quality Management System according to **ISO 9001** by Orion Registrar
- Health Safety Management System according to **ISO 45001** by AK Registrars
- International authorized testing laboratory according to **ISO/IEC 17025 certified by KOLAS**
- National authorized inspection body according to **ISO/IEC 17020 certified by KOLAS**
- 12 scopes of Engineering business registration by KENCA
- Overall design business of the power technology management Act by KEEA
- Registered **design engineering vendor** by KEPCO E&C
- Qualified provider of **overall, mechanical, structural, electrical and I&C design engineering Q class** by KHNP
- **Qualified Nuclear Approved Supplier** by Nawah
- Construction engineering service registration by Governor of Gyeonggi Province
- Specialized fire protection design service by Governor of Gyeonggi Province
- Dispatched worker business by Ministry of Labor
- Software business registration by KOSA
- Certificate of Small & medium sized enterprise by SMEs
- Certificate of Main Biz Small & medium sized enterprise by SMEs
- Certificate of Trade Business by Korea International Trade Association
- Certified R&D Center by KOITA
- **28 registered patents** related to power generation facility
- **14 non-exclusive license patents** related to rad-waste



* 4 profit centers(business units) and 4 cost centers

KOCEN Major Clients



- Korea Electric Power (KEPCO)
- Korea Hydro & Nuclear Power (KHNP)
- KEPCO Engineering & Construction (KEPCO E&C)
- Korea Western Power (KWP)
- Korea Midland Power (KOMIPO)
- Korea South-East Power (KOEN)
- Korea Southern Power (KOSPO)
- Korea East West Power (EWP)
- KEPCO Plant Service & Engineering (KEPCO KPS)
- Korea Radioactive Waste Agency (KORAD)
- Korea Atomic Energy Research Institute (KAERI)
- National Fusion Research Institute (NFRI)
- Korea District Heating (KDHC)
- Korea Electric Association (KEA)
- Korea Institute of Energy Technology Evaluation and Planning (KETEP)
- Incheon International Airport (IIAC)
- Hyundai Engineering
- Doosan Heavy Industries & Construction
- Daewoo E&C
- SAMSUNG C&T
- Korea Gas (KOGAS) etc.

KOCEN Manpower, Offices

- KOCEN HQ [Seongnam] : 32
- Busan Gijang office [DK Bldg.] :54
- Kori office : 15
- Changwon office : 15
- Gimcheon office : 11
- Dongtan : 8
- Gyeongju office : 5
- Uljin office etc. : 7
- UAE Barakah office : 11
- Egypt El-Dabaa : 3

Total : 162

Certified KOCEN Manpower

162 Highly qualified engineers and technicians with 276 certifications make KOCEN the leading service provider.

Professional engineer

KEPIC authorized inspector

Registered engineer

ASNT/ NDE Level III

Certified technician

CWI, CSWIP etc.

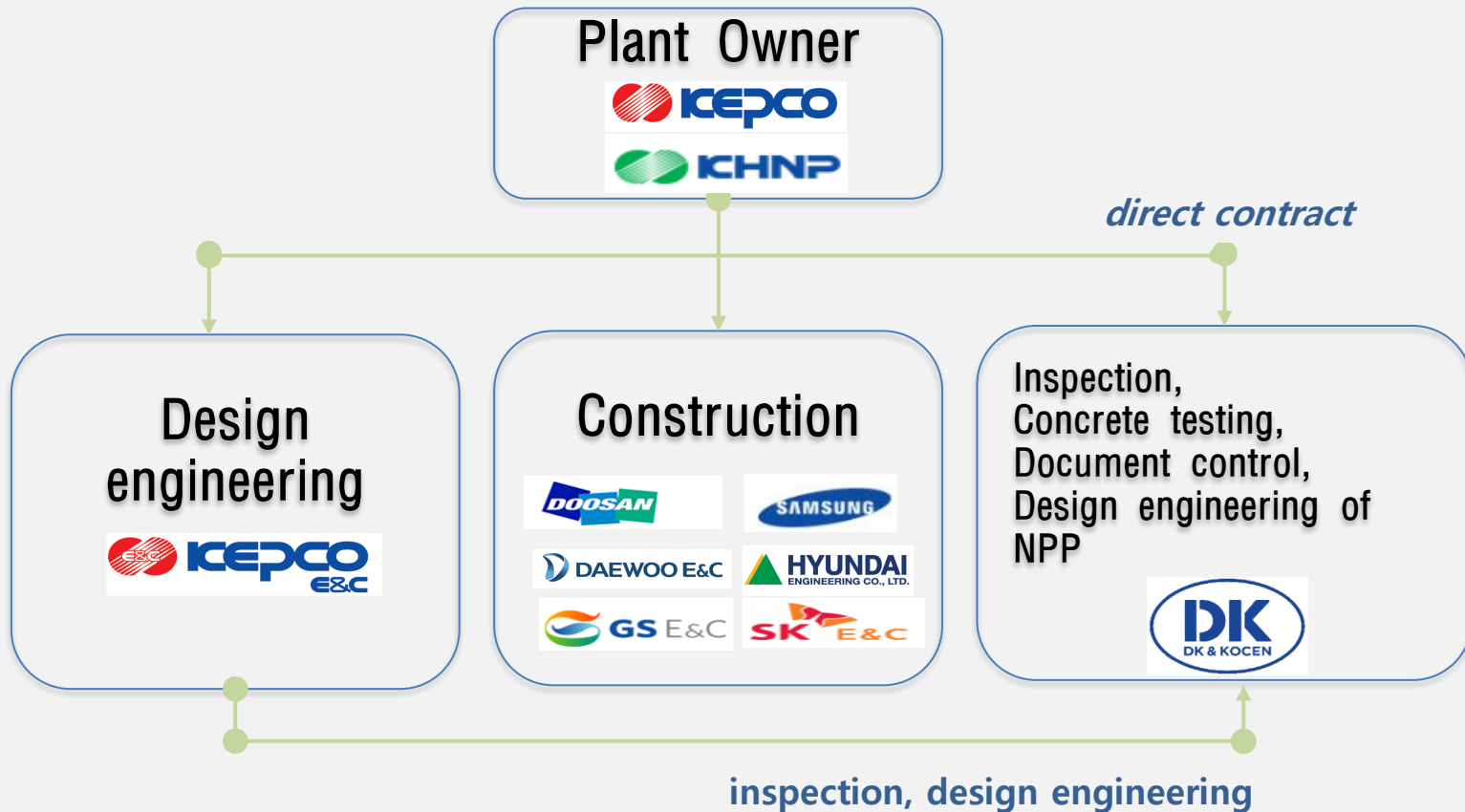
- Total 280 personal certifications

KEPIC Korea Electric Power Industry Code
ASNT American Society for Nondestructive Testing
NDE Nondestructive Evaluation
CWI Certified Welding Inspector (USA)
CSWIP Certification Scheme for Welding and Inspection Personnel (UK)

KOCEN's position in the Korean NPP market



KOCEN is a major player in Korean nuclear power market due to its top tier position and reliable partnership with KEPCO, KHNP, KEPCO E&C etc.



KOCEN contributes to the **safety improvement and reliability of power plants** as a leading service provider of Quality Surveillance, Concrete Test, Overall Design Engineering and Document Control for power plants specially NPPs based on **predominated longstanding experience, experts, qualifications and leading market positioning.**



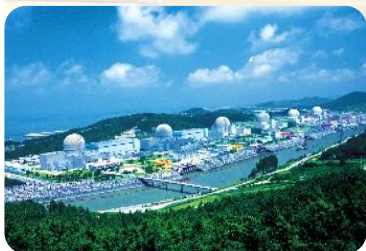
Quality Surveillance

- Quality surveillance of equipment materials, survey, inspection, expediting and technical consulting in power plants specially all of Korean Nuclear power plants and UAE Barakah NPPs
- Accredited to ISO/IEC 17020 by KOLAS
- Operation of Quality Assurance System of KEPIC QAP, ASME NQA-1



Concrete Test

- Operation of Concrete test laboratory in all of Korean Nuclear power plants and UAE Barakah NPPs
- Concrete test of Rad-waste disposal facility
- Accredited to ISO/IEC 17025 by KOLAS



Overall Design Engineering

- Registered provider of KHNP safety related Q class for operating NPPs overall design engineering
- Overall design engineering of NPPs
- Detail design engineering of newly built power plants
- R&D works for NPP decommissioning and Research reactor



Document Control

- Design document control and Owner support document control in power plants specially all of Korean NPPs, UAE Barakah NPPs and Egypt El-Dabaa NPPs
- Incheon International Airport document control



Quality Surveillance

Top 1 provider of quality surveillance of equipment and materials in all Korean nuclear power plants, and UAE Barakah NPPs

■ Clients benefits

Top 1 provider of quality surveillance of equipment and materials in all Korean nuclear power plants, and UAE Barakah NPPs

KOCEN operates the KEPIC(Korea Electric Power Industry Code) quality assurance system in the field of quality surveillance and assures publicness and independence as a national authorized inspection body according to ISO/IEC 17020 certified by KOLAS.

KOCEN successfully carries out quality surveillance projects for domestic newly built and operating NPPs, UAE Barakah NPPs, ARA research reactor as well as transport containers for used nuclear fuel and thermal power plants. KOCEN is the top 1 provider for this field in Korea.

KOCEN also has a strong reputation as an independent third-party inspection, expediting, and managing supply chain provider predominately not only for regulators but also for suppliers, vendors and operators in power plants and industrial plant sector.

- Leading provider of quality surveillance of equipment and materials, survey, inspection, expediting and managing supply chain in newly built and operating power plants, and industrial plants.
- KOCEN provides the best quality service with KEPIC QAP, ASME NQA-1, quality assurance system according to the license approval requirements and unique, well-organized quality surveillance system.
- KOCEN assures reliability, publicness and independence as a national authorized inspection body according to **ISO/IEC 17020** certified by Korea Laboratory Accreditation Scheme.
- KOCEN enhances the reliability of the equipment and aims to prevent schedule delay by taking proactive actions for nonconformance.

■ Work scope

- Quality surveillance of equipment/materials and release shipment
- Expediting, process control
- Preparation of quality surveillance plans and procedures
- Review and approval of supplier quality plans
- Academy business for power plant component design fabrication training
- Quality inspection of construction, installation and startup operation
- Technical consulting and evaluation of quality systems
- Preparation of itemized quality surveillance guidelines
- Managing supply chain, supplier assessment
- PED inspection and ASME accreditation
- Development of Korea Electric Power Industry Code(KEPIC) for power plants

■ Major clients

KEPCO, KHNP, KEPCO E&C, [KAERI](#), KOMIPO, KWP, KOEN, KOSPO, KDHC, KEA etc.



- **National Authorized Inspection Body** according to **ISO/IEC 17020** certified by **KOLAS**(Korea Laboratory Accreditation Scheme) for KOCEN Quality Surveillance

KOCEN quality surveillance department developed a quality surveillance system based on ISO/IEC 17020. KOLAS assessed the capability for quality surveillance of nuclear power generation facilities and certified KOCEN as a national authorized inspection body.



▪ Awards

- Awarded a plaque of appreciation for excellent subcontractor of KHNP for Shin-Kori 1 project in 2009
- Awarded a plaque of appreciation of KEPCO for UAE Barakah NPP 1 project in 2016 & 2020
- Awarded a prize by Ministry of Trade Industry and Energy(MOTIE) for Shin-Hanul 1 project



■ Experiences

Quality inspection of equipment and materials / construction inspection of newly built NPP

- Hanul 1,2,3,4,5,6
- Wolsong 2,3,4
- KEDO 1,2 in North Korea
- Hanbit 3,4,5,6
- Shin-Kori 1,2,3,4,5,6
- Shin-Wolsong 1,2
- Shin-Hanul 1,2
- UAE Barakah 1,2,3,4
- ITER
- New export research reactor
- [ARA research reactor](#)

Quality inspection of replacement construction of operating NPP

- Hanul 1,2,3,4 replacement of steam generator
- Hanbit 5,6 replacement of steam generator
- Hanbit 5,6 / Hanul 3,4 replacement of reactor vessel
- Transport containers for used nuclear fuel



▪ Experiences

Quality inspection of equipment and materials of thermal and combined cycle power plant

- Hadong 7,8
- Dangjin 5,6,9,10
- Yeongheung 1,2,3,4
- 765 kV transmission tower
- Pyungtack
- Taeon 9,10 & Taeon IGCC
- Donducheon
- Shin-Boryeong 1,2
- Seoul 1,2
- Shin-Seocheon
- Jeju LNG
- Namjeju
- Shin-Sejong
- Eumseong
- Gumi Natural Gas
- Gongju Natural Gas

Quality inspection of operating thermal power plant

- KOEN Quality inspection of equipment and materials
- KOSPO Quality inspection of plan preventive maintenance construction
- KOMIPO Quality inspection of plan preventive maintenance construction
- EWS Quality inspection of equipment and materials

Quality inspection of equipment and materials of combined heat & power plant(CHP) and district transmission pipe

- Osan CHP
- Hwasung-Dongtan 2 CHP
- Kimpo CHP
- KDHC Pre-insulated pipes
- Daeho Lake Water Solar Construction



▪ Experiences

Quality inspection of overseas EPC project

- KEPCO E&C, Ghana Takoradi T1&T2 power plant EPC
- SWCC, RIYADH new city feeders
- GE Power, Combined cycle gas turbine, Sabiya power station
- GE Power, Bhola II
- LUKOIL, EPC for Dammam decentralized water injection water supply wells
- CPECC, Bab integrated facilities
- SKODA JS, Cask body
- Hyundai Co., Dangote / BPCL
- MAN India, HPCL / Haldia
- Hyundai Steel, Anjung / Bokor
- Petrofac, Fadhili / Salalah / GC-32 / BP Ghazeer



Concrete Test

Top 1 provider of concrete testing for nuclear power plants and rad-waste disposal facilities



■ Clients benefits

Top 1 provider of concrete testing for nuclear power plants and rad-waste disposal facilities

KOCEN's five concrete test laboratories as International authorized test laboratory according to ISO/IEC 17025 certified by KOLAS, have the highest technical capabilities and unparalleled **top 1 track record** in the field of nuclear power plant concrete test in Korea.

KOCEN has successfully conducted concrete test for all Korean NPPs, UAE Barakah NPPs, export new types of research reactors, and the construction of rad-waste disposal facilities.

- **Exclusive accumulated experience and lots of outstanding professionals in test and quality control of concrete materials of nuclear power plants, export new types of research reactors, and rad-waste disposal facilities.**
- KOCEN is an international authorized testing laboratory accredited by KOLAS according to ISO/IEC 17025, meets requirements of ASTM C1077 and KEPIC QAP. KOCEN provides clients with the services to ensure reliability, publicness and independence.
- Hold lots of patents related to concrete test.
- KOCEN is providing customized outsourcing services of concrete quality control and high quality concrete.

ASTM American Society for Testing and Materials



■ Work scope

- Concrete mix proportioning design
- Inspection and testing of production concrete
- Qualification test of hardened concrete : compressive and tensile strength test
- Test of concrete component materials
- Endurance test and evaluation
- Qualification test of non-shrink grout and high density grout
- Tensile strength test & evaluation of mechanical splice of rebar
- Technical support for concrete



■ Major clients

KHNP, KEPCO, KEPCO E&C, KORAD, SAMSUNG C&T etc.

- International Authorized Testing Laboratory according to ISO/IEC 17025 certified by KOLAS for Concrete Testing Laboratories

KOCEN concrete testing laboratories(Shin-Hanul testing lab., Shin-Kori testing lab., Wolsong testing lab., UAE testing lab. and Gijang testing lab.) developed KS Q ISO/IEC 17025 quality system for cement, aggregate and related products. KOLAS certified KOCEN concrete testing laboratories as international authorized testing laboratories recognized internationally for high quality system.

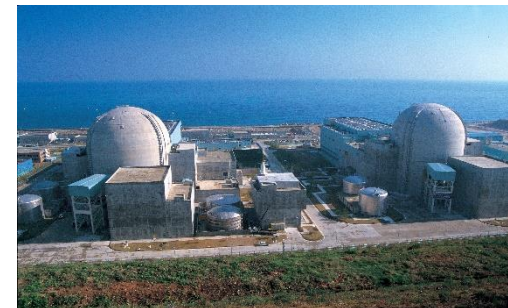


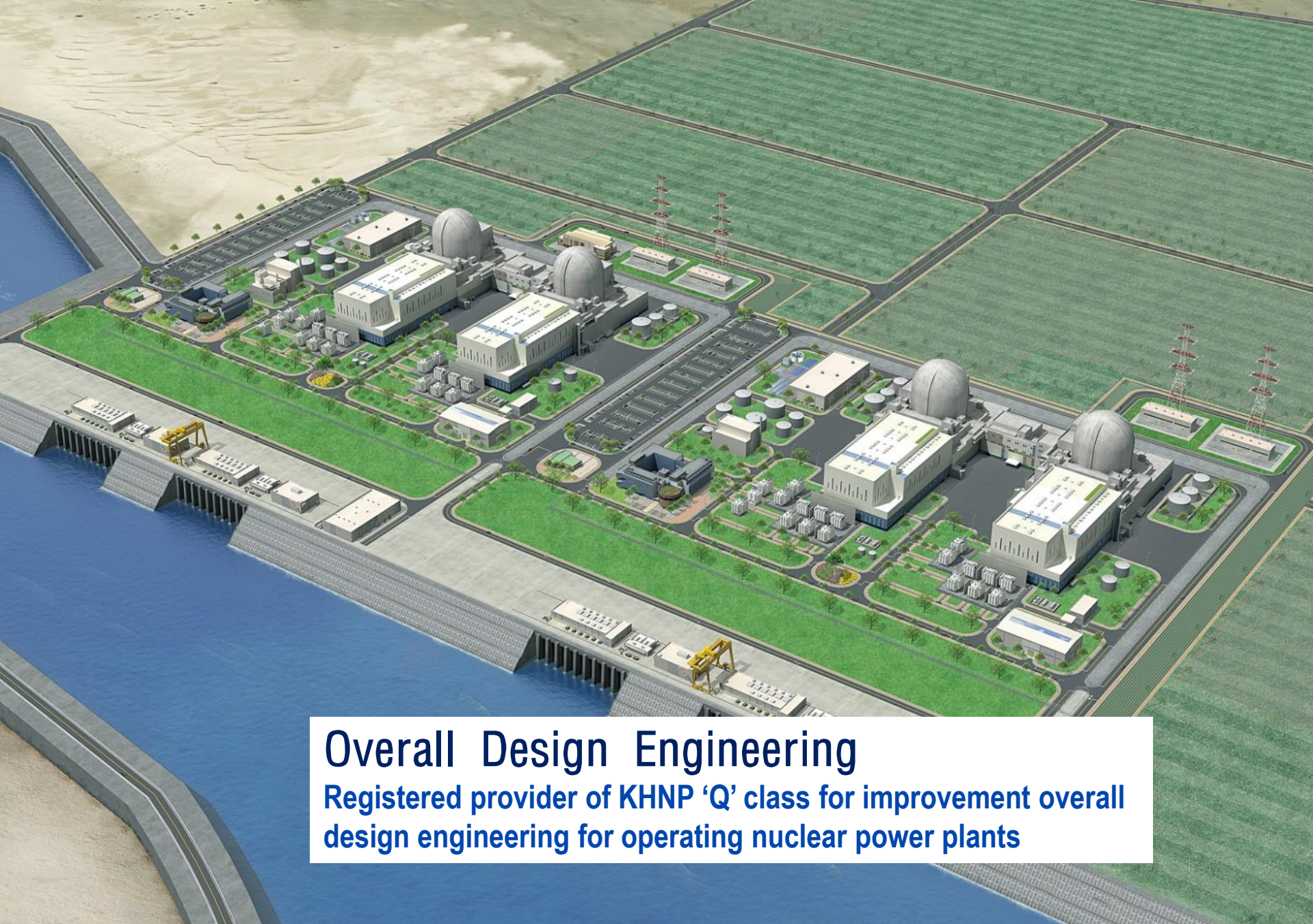
▪ Awards

- Awarded a prize by Ministry of Trade Industry and Energy (MOTIE) for Rad-waste disposal center concrete test project in 2015
- Awarded a plaque of appreciation of KEPCO for UAE Barakah NPP 1 project in 2016 & 2020
- Awarded a plaque of appreciation of KHNP for Shin-Kori NPP 5,6 Concrete test project in 2020
- Awarded a prize by Ministry of Trade Industry and Energy(MOTIE) for Shin-Hanul 1 project

▪ Experiences

Concrete test of NPP	Concrete test of rad-waste disposal facility
• Hanul 1,2,3,4,5,6 • Kori 3,4 • Wolsong 2,3,4 • KEDO 1,2 in North Korea • Hanbit 3,4,5,6 • Shin-Kori 1,2,3,4,5,6 • Shin-Wolsong 1,2 • Shin-Hanul 1,2,3,4 • UAE Barakah 1,2,3,4 • New export research reactor	• Low and intermediate level radioactive waste disposal center • Construction for dry storage cask of nuclear spent fuel • Development of optimizing concrete mix proportioning for chloride resistance high strength lightweight concrete





Overall Design Engineering

Registered provider of KHNP 'Q' class for improvement overall design engineering for operating nuclear power plants

▪ Clients benefits

- **Registered provider of KHNP 'Q' class for improvement overall design engineering for operating nuclear power plants**
- **Successfully conducting design engineering for operating nuclear power plants and UAE Barakah NPPs**

KOCEN is a registered provider of KHNP safety related Q class for operating NPPs overall design engineering. KOCEN is providing detail design engineering, issuing shop drawings of newly built nuclear, and thermal power plants and design engineering of operating NPPs.

KOCEN successfully conducts improvement design engineering of operating NPPs, detail design engineering of newly built domestic and UAE Barakah NPPs, DB design engineering of pipe wall thinning management of NPPs, piping design engineering of MACST facilities system and emergency response base of NPP site etc.

Based on the experience of supply system design for the International Thermonuclear Experimental Reactor(ITER), KOCEN has also conducted actively the research design engineering projects such as layout design engineering of small-medium sized research reactor, NPP decommissioning design engineering for core demonstration facilities and commercialization research for reactor control system and digital I&C etc.

- Registered provider of KHNP 'Q' class for improvement overall design engineering for operating NPPs
- Detail design engineering of newly built power plants
- Research reactor layout design engineering, reactor I&C design engineering research
- NPP decommissioning design engineering of core demonstration facilities research
- Top 1 staffing business vendor of KEPCO E&C to dispatch IT specialist and CAD technician of power plants.

■ Work scope

- Design engineering of power plants: nuclear and thermal power plants etc.
- System design engineering and equipment design engineering of NPPs
- Improvement design engineering of operating NPPs
- ITER (International Thermonuclear Experimental Reactor) design engineering
- R&D works for research reactors
- NPP decommissioning design engineering of core demonstration facilities
- Engineering 3D modeling of NPPs
- Performance evaluation and qualification of operating NPPs
- Staffing business of dispatched workers of IT specialist and CAD technician



■ Major clients

KHNP, KEPCO E&C, KAERI, KETEP, NFRI, Hyundai E&C, Daewoo E&C, KOGAS, Doosanenergy etc.

- Engineering business entity registration
 1. general industrial machinery
 2. welding
 3. structure
 4. quality test
 5. information management
 6. electrical equipment
 7. product management
 8. nuclear radiation management
 9. non-destructive inspection
 10. fire protection
 11. soil geological
 12. electronic applications
- Registered provider of KHNP 'Q' class for overall design engineering of operating nuclear power plants
- Registered design engineering vendor by KEPCO E&C
 1. nuclear power generation
 2. nuclear piping design engineering
 3. plant piping design engineering
 4. reactor mechanical design engineering
 5. plant mechanical design engineering
 6. quality inspection
 7. construction project management
 8. information technology

■ Awards

- Awarded a plaque of appreciation of KEPCO for UAE Barakah NPP 1 project in 2016 & 2020
- Awarded a plaque of appreciation of KEPCO E&C for UAE Barakah NPP 1 project in 2021
- Awarded a prize by Ministry of Trade Industry and Energy(MOTIE) for Shin-Hanul 1 project



■ Experiences

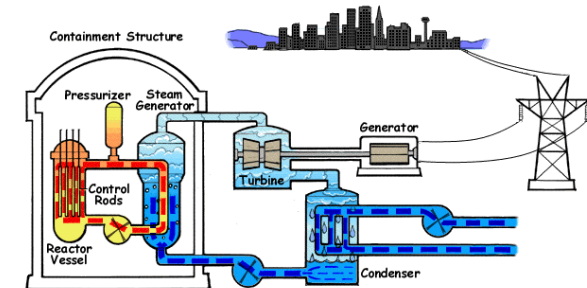
Detail design engineering & issuing shop drawings of NPP

- Hanbit 1,2,3,4,5,6
- Hanul 1,2,3,4,5,6
- KEDO 1,2 (discontinued since 2003)
- Shin-Hanul 1,2,3,4
- UAE Barakah 1,2,3,4
- Saeul 3,4



Improvement design engineering of operating NPP

- Kori 2,3,4
- Shin-Kori 1,2
- Saeul 1,2 (Shin-Kori 3,4)
- Wolsong 2,3,4
- Shin-Wolsong 1,2
- Hanbit 1,2,3,4,5,6
- Hanul 1,2,3,4,5,6



Design engineering of floods and tides protection facilities of NPP

- Kori 1,2

ITER (International Thermonuclear Experimental Reactor) design engineering

- ITER SDS (Storage& Delivery System)/ LTS (Long Term Storage)
- ITER TBS (Test Blanket System)

▪ Experiences

R&D works for NPP decommissioning and Research reactor

- Research project of auxiliary system layout design engineering of small-medium sized research reactor
- Research project of NPP decommissioning design engineering of core demonstration facilities
- Research project of development of commercialization technology for damage diagnosis of reactor control system and digital I&C

Piping wall-thinning management program of NPP

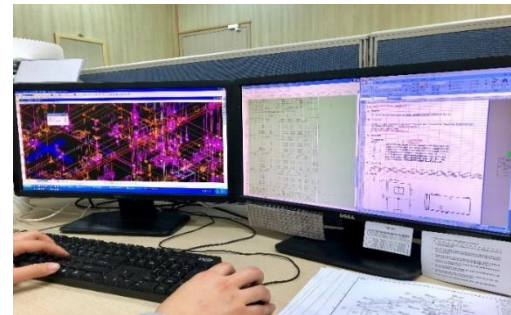
- Hanbit 1,2, Hanul 1,2, Kori 3,4

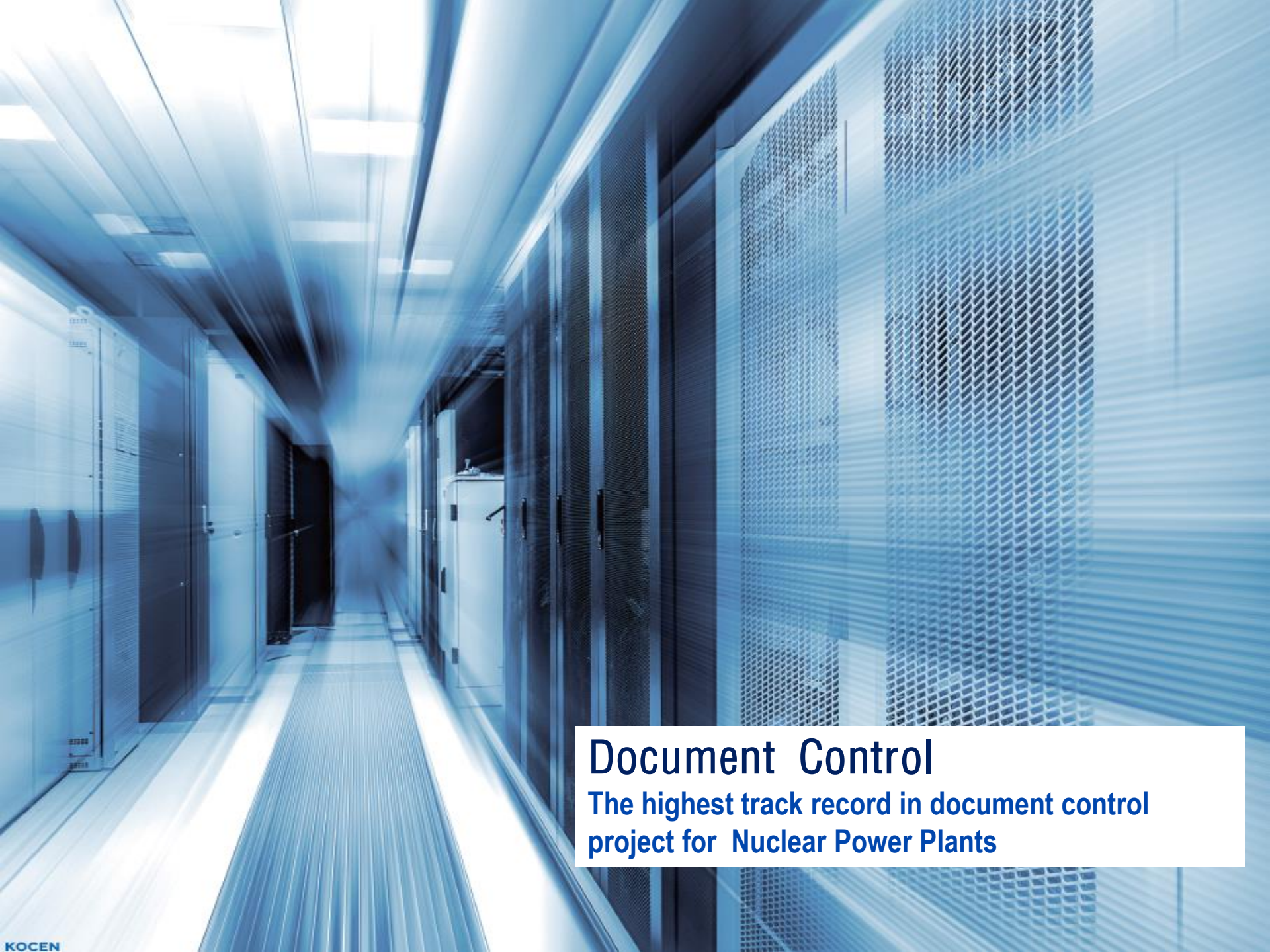
Equipment qualification of seismic and environmental of NPP

- Hanbit 1,2,3,4, Hanul 1,2, Kori 1,2,3,4

Staffing of dispatched workers of IT specialist and CAD technician of power plant

- CAD technician in mechanical, piping, nuclear, civil, architecture, electrical, instrument and control engineering field of power plant
- IT programmer, data base administrator, project administrator





Document Control

The highest track record in document control
project for Nuclear Power Plants

▪ Clients benefits

The highest track record in document control project for Nuclear Power Plants

KOCEN completely manages all process of data management such as formation, utilization, preservation, transfer, and disposal of documents with the highest **track** record in document control **project** for domestic NPPs, UAE Barakah NPPs, Egypt El-Dabaa NPPs, thermal power plants and Incheon International Airport.

- Schedule efficiency by customer-oriented and systematic data management
- Cost efficiency by one-stop service
- Customer reliability from verified data submission
- Increase work efficiency by utilizing information asset follow-up work
- Protect information assets with strict security management of business information data



■ Work scope

- Document management center operating :
Establishment of data management procedure manual and process
Operations of document control center and technology library
- Consulting of document control :
Research of document management status
Technology transfer and training for efficient document management
- System build up :
Providing customized systems with utilizing the authorized standard system (KDMS)
Web-based enterprise resource sharing system or project-specific system build up
- Media conversion :
Installation of paper document and outdated electronic media to computerized system
- Data management technology and personnel support :
Support of owner submissions materials including requirements, materials and documents preparation, registration agent services, status management, final products with CDs

■ Major clients

KHNP, KEPCO, KEPCO E&C, Incheon International Airport



■ Awards

- Awarded a plaque of appreciation for excellent quality subcontractor of KHNP for Shin-Kori 1,2 document control project in 2007
- Awarded the best subcontractor of Incheon International Airport for information security in 2008
- Awarded the best subcontractor of Incheon International Airport for ethics management and unity of labor and management in 2009
- Awarded a plaque of appreciation of KEPCO for UAE Barakah NPP 1 project in 2016 & 2020
- Awarded a plaque of appreciation of KEPCO E&C for UAE Barakah NPP 1 project in 2021



▪ Experiences

Data management of nuclear power plant

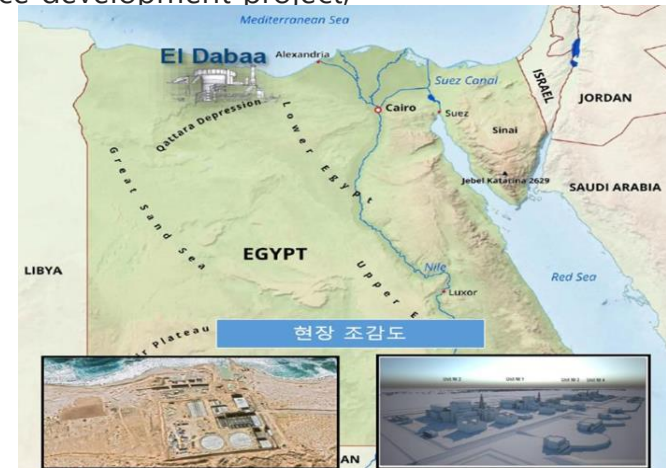
Kori 3,4, Hanbit 3,4,5,6, Hanul 3,4,5,6, Wolsong 2,3,4, KEDO 1,2 (discontinued since 2003), Shin-Kori 1,2, Shin-Wolsong 1,2, Shin-Hanul 1,2,3,4, Saeul 1,2,3,4, Operating NPP, Radioactive waste disposal center, UAE BNPP 1,2,3,4, Egypt El-Dabaa 1,2,3,4

Data management of hydro & thermal power plant

Boryeong 3,4,5,6,7,8, Samcheonpo 3,4,5,6, Taean 1,2,3,4,5,6, Seoincheon 1,2, Pyungtaek, Ilsan, Hanrim Gas Turbine, Hadong 1,2,3,4,5,6,7,8, Dangjin 1,2,3,4,5,6,7,8, Yeongheung 1,2,3,4, Donghae, LG Bukok, Busan, Bukjeju, Sancheong-yangsoo, Hirgigo diesel in Africa, AFAM in Nigeria

Data management of airport & wind power plant

Incheon International Airport, Metropolitan area landfill resource development project, Jeju Hankyung wind power



Thank you very much.

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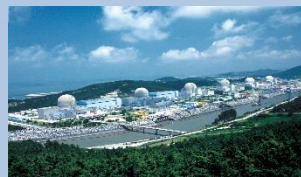
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