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Refinery & Petrochemical Plant

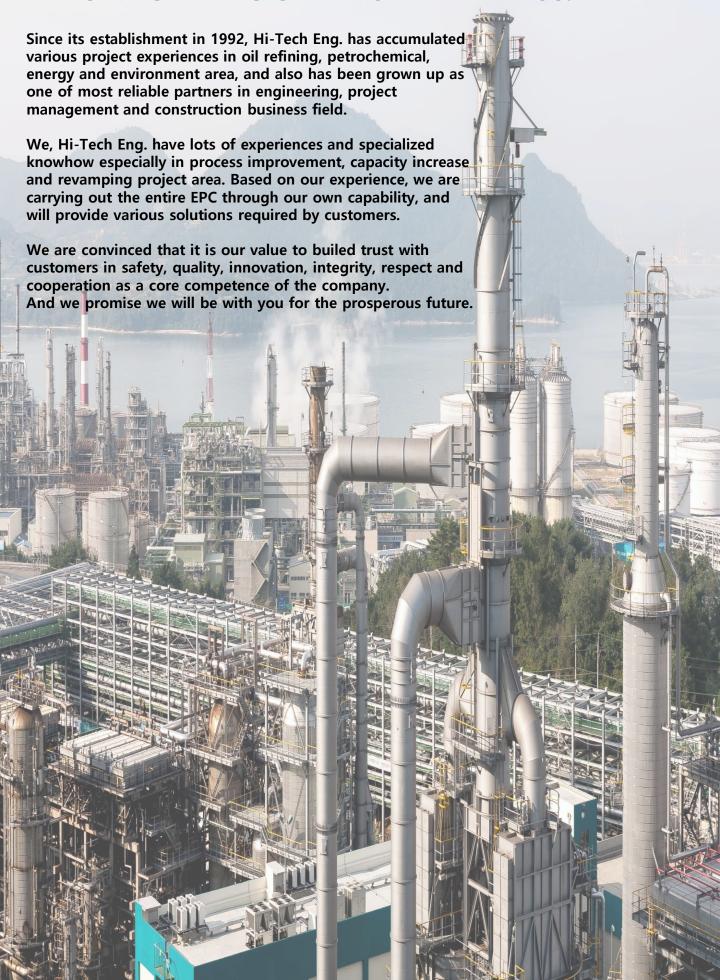
Environmental/Energy

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HI-TECH ENGINEERING IS HERE TO BE WITH YOU.



General Status

Company Hi-Tech Engineering Co.,Ltd.

Name CEO

Jang Yung

Address 366, Yeosusandar

366, Yeosusandan 1-ro, Yeosu-si, Jeollanam-do,

Republic of korea (1392, Hwachi-dong)

Established Date Feb. 1992 (Dec. 7, 1995 Corporation established

and registered)

Business

Engineering and integrated construction of the

Fields industrial plant facilities

TEL No. +82-61-690-1000

Home Page www.htenc.co.kr

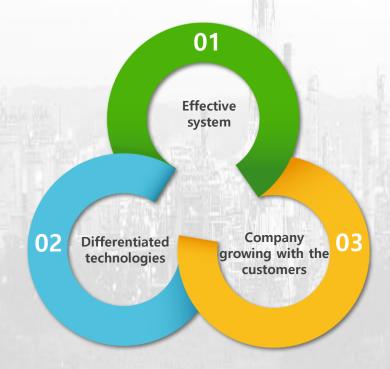


[Based on 2019 settlement]

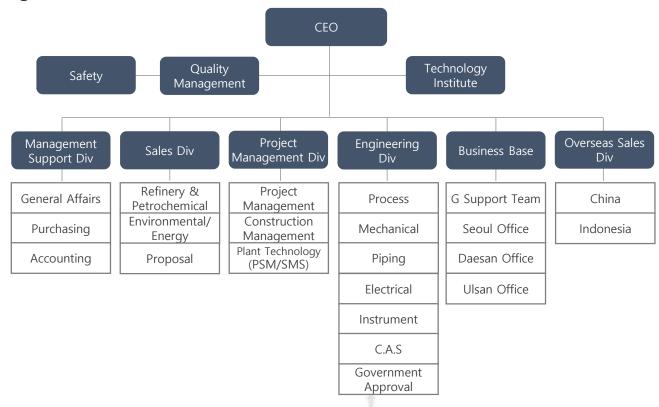
Total sales	Credit rating	Cash flow rating	
140.2 Billion Won	BBB+	В	

Management Philosophy

We are the company growing with the customers while evolving based on effective system and differentiated technologies.

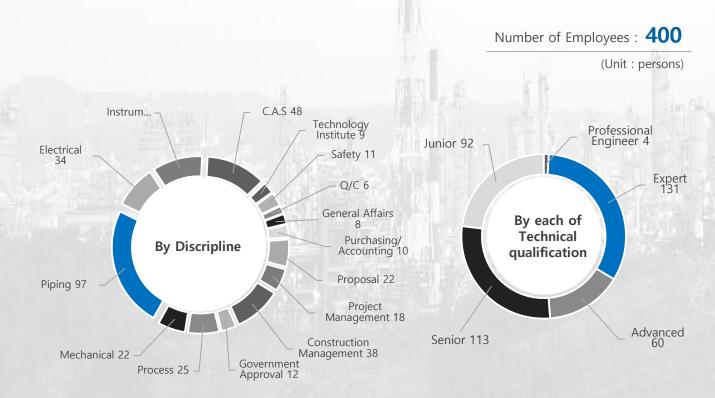


Organization Chart



Executives and staff members

Hi-Tech engineering has a lot of challenging workforce with expertise and competitiveness who will share the future of customers.



02 History



1990s

- 1992 Established Hi-Tech Engineering
- 1994 Registered as a partner company of GS Caltex/Hanwha Chemical
- 1995 Registered as a partner company of Honam Petrochemical Corporate Registration as Hi-Tech Engineering
- 1998 Registered as a partner company of GS E&C



- 2000 ISO 9001 quality management certified
- 2001 Introduced 3D design system (PDMS)
- 2002 Reported as an engineering service provider
- 2003 Registered integrated construction supervision business(Elec. power facilities)
- 2004 Registered the fire fighting facility design
 - Introduced 3D design system (PDS)
- 2005 Opened Daesan office
 Opened Seoul office
 Introduced 3D LASER SCAN
 Technology institute established and approved
 Won the minister award of Ministry of
- Knowledge Economy 2007 Moved the head office
- 2008 Registered as an Energy Service Company (ESCO)



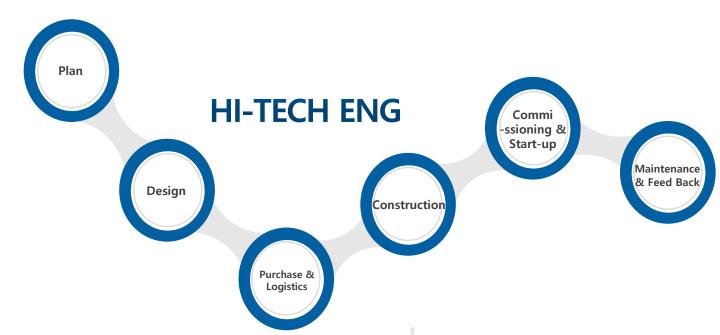
2010s~Present

- 2010 Registered electric construction business
- 2011 Registered industrial environment facility construction business
 Registered the specialized fire fighting facility construction business
- 2012 OHSAS 18001 Health and safety management system certified ISO 14001 Environmental management certified
 - Ulsan office expanded and moved Registered overseas construction business (Industrial environment facility, Electricity)
- 2013 Registered architecture construction business
 - Registered 1st class power facility specialized design business
- 2014 Registered mechanical facility construction Reported as a software entrepreneur
- 2015 Registered as an OCA report preparing specialized organization
- 2016 Registered survey business (Public/Under ground facilities /Numerical mapping processing business)
 - Received citation of minister of Ministry of Trade, Industry and Energy
 - Patent registered (PDMS DB Management System)
- 2017 Patent registered (Oil storage tank, robot for the inspection of defects of welded area)
- 2018 Patent registered (Human resources management system)
- 2019 ISO 45001 health and safety management system certifiedVenture company certifiedRegistered as a safety diagnosis specialized
 - company (architecture)

 Registered as a venture company

 Family-friendly company certified
- 2020 Registered the atmosphere environment specialized construction business

Registered civil construction business



ESTIMATION

Cost estimation of equipment & materials Cost estimation of total construction

BASIC ENGINEERING

Basic design & Process development
Process simulation with column rating & Design
(ASPEN PLUS, PRO-II)
Process dynamic analysis (ASPEN, HYSYS)
Equipment sizing & Data sheets
Heat exchanger rating & Design (HTRI, HTFS)
Hydraulic calculation & Flare network analysis
(FLARNET, IN-HOUSE PROGRAM)
Instrument sizing & Data sheets (INSTRUCALC)
SIS Analysis (FAULT TREE+)

DETAIL ENGINEERING

Equipment selection and interconnection list Vessel, mech. calculation & Engineering drawing Piping line schedule and construction drawing Electrical schedule and construction drawing Instrument schedule and construction drawing Civil and architectural(Incl. Facilities) construction drawing

Other special construction drawing & Document related

As-built drawing for various construction

PROCUREMENT & SUPPORT

Vendor recommendation
Bid document of equipment and materials
Bid evaluation
Place on purchase order
Equipment and material inspection
Delivery expediting and control

CONSTRUCTION & SAFETY MANAGEMENT

Field construction management Construction supervision Schedule control and report Quality control and report Equipment inspection and report Cost control and report Safety management

PRE-COMMISSIONING

Pre-commissioning/Commissioning
Operator training
Performance test & guarantee operation

QUALITYMANAGEMENT SYSTEM

In order to achieve the targets of the products and services of the customers, Hi-Tech Eng. introduced **International Quality Assurance Certification(ISO 9001)** system and practicing the systematic and continuous quality management activities.



Hi-Tech Eng. is providing optimal quality performance and services with the strict international standard based quality management system for the Project Management, Preliminary Feasibility Study, Engineering, Design, Procurement, Construction and commissioning for Plant(Refinery, Petrochemical, General Chemical, Environmental and Industrial Plants included), Civil, Architecture, Steel Structure, Mechanical, Piping, Electrical, instrument and Fire-Fighting Works.

- We provide the best products and services that can increase the satisfaction of the customers by identifying the internal & external issues and risks and practicing and considering the quality improvement as the first priority during the services and supporting processes of all of the activities, type of works and products.
- 2. We make the continuous improvement happen by monitoring the performance of the quality continuously and developing & practicing the effective quality management programs.
- 3. We secure the transparency for the quality management activities by establishing the communication system with the customers and other stakeholders, and collecting the feedback, and providing the information

ENVIRONMENTMANAGEMENT SYSTEM



Consideration of the Environmental Impact

We check the harmful effects to the environment first and remove or minimize them during the whole process of design, material procurement and construction at site.

Establishment of Risk Analysis

We identify, classify and analyse the cause of the risks during the whole design, procurement and construction at site processes and take the counter measures and minimize the risks as much as possible.

Satisfaction of the environment related laws and requirements

We are doing our utmost to follow the environmental laws of corresponding country and the requirements of the customers and local residents. In order for this, we prepare the environment regulation control register and provide the education regularly.

Environmental management

We establish the effective construction site environmental administration system and prevent the environmental issues in advance through the cyclic check (daily/ weekly/ monthly) of the site.

Review of the performance and improvement

We review the operation performance and effectiveness of environmental administration by holding conference of environmental administration committee and improve it continuously for higher performance level.

HEALTH & SAFETYMANAGEMENT SYSTEM

All of the members of Hi-Tech Eng. practice the safety administration with thoroughgoing sense of responsibility. We setup specific standard for the safety and follow them strictly and keep on improving the quality of the project. We are holding up our ends as the company that is practicing the safe, clean and happy work place through all of the executives and staff members participating in the health & safety activities. The reason why Hi-Tech Eng. is emphasizing the safety is not only because to accomplish the project successfully, but also because it is the most basic virtue in our business performance.



- 1. Health & Safety activities is our top priority from all of our management decision makings and activities.
- We will do our best of our responsibilities for the development of safe work
 environment that the danger and risks of accident is removed though the risk
 evaluation that is analyzed by systematic and measurable ways, and
 consistent safety improvement activities.
- 3. We will share the directions that reflect the analyzed result of the performance of health & safety activities with all of the executives and staff members together with all the stakeholders and will accomplish the core capability reinforcement and purpose of health & safety management system.
- 4. We improve and control the health & safety improvement activities of the executives and staff members of the partner companies through the integrated health & safety system of Hi-Tech Eng.
- 5. We will do our utmost to be a company that fulfills social community development and social responsibility and holding our ends by following the health & safety related regulations.

CERTIFICATE

Quality Management (ISO 9001)

Health & safety Management (ISO 45001)

Environmental Management (ISO 14001)







Refinery & Petrochemical Plant Business

Technical professionals with a wide range of design experience, and expertise in Oil & Gas, Refinery, Petrochemical, General chemical are essential in the Plant projects.

Hi-Tech Eng. is performing many of the projects successfully in all of the areas such as project planning, feasibility study, detailed designing, procurement of equipment & materials, construction management and commissioning based on the experiences and accumulated technical powers in designing and procurement service areas with many of the typical local oil refining & petrochemical companies such as GS Caltex, Hyundai Oil Bank, Kumho Petrochemical, Kumho Mitsui Chemicals, Lotte Chemical Corporation, Hanwha Solution etc. together with the overseas projects.

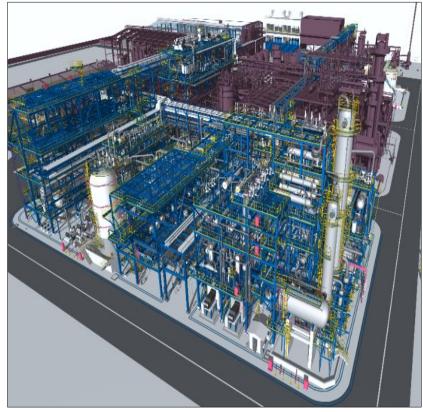
We promise that we will become a trustful global engineering company by reinforcing the competitiveness of quality of refinery & petrochemical plant business and advanced capabilities to the overseas markets.

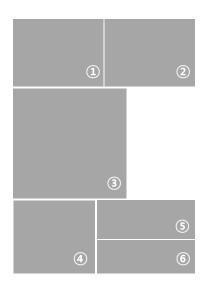


Refinery & Petrochemical 3D Model View

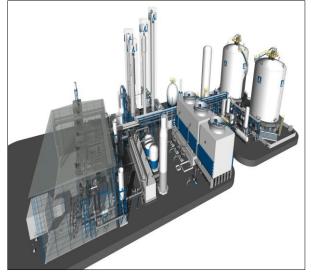








- Ethylene 800,000MTPA Plant (New)
 Liquid Epoxy Resin 45,000MTPA Plant (New)
 EPM & EPDM 60,000MTPA Plant (New)
 Dangin Gas Plant(ASU 770T/D, LFU 450T/D, Storage & Backup Unit) (New)
 Refinery Plant CDU Project (Revamping)
 Storage Tank Project (New)







Environmental/Energy Business

The Environmental/Energy Business is a green growth business that minimizes greenhouse gas emissions and environmental pollution through environmental preservation and efficient use of energy resources.

We are continuously developing and promoting low-carbon eco-friendly technologies to respond to global issues such as climate change and energy conversion, and as an Energy Service Company(ESCO), we are contributing to the efficient use and reduction of energy in the environment, renewable and cogeneration fields.

MVR (Mechanical Vapor Recompression) SYSTEM



LDAR (Leak Detection And Repair) SYSTEM

VRU (Vapor Recovery Unit) SYSTEM

VCU (Vapor Combustion Unit) SYSTEM

RTO (Regenerative Thermal Oxidizer) SYSTEM

WWT (Waste Water Treatment) SYSTEM

CCS (Carbon Capture Storage) SYSTEM

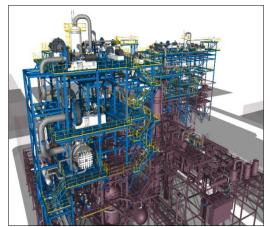


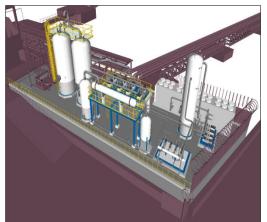


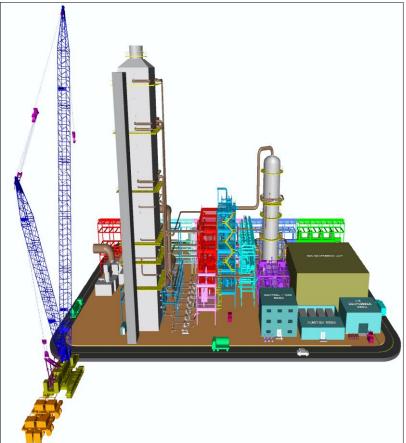


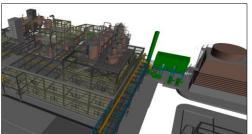


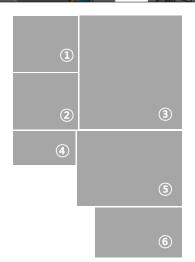
Environmental/Energy 3D Model View











- MVR System
 VRU System
 150MW CO2 Capture Technology Module Project
- 4 RTO System
- ⑤ WWT System (Biological Treatment Method)⑥ WWT System (Chemical Treatment Method)



Modularization/3D Scanning

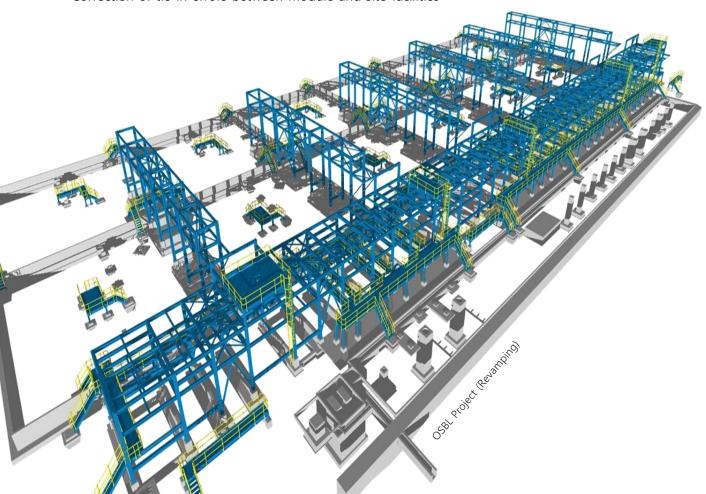
Modularization is a construction method that divides the whole plant into the construction block modules which makes the manufacturing, transporting and constructing process easier and reduces the construction period and saves the cost of the plant. This is a manufacturing method that can guarantee high productivity, high quality and work stability.

In particular, plant modularization is an advanced technology that performs unified management from design/purchase/production/transport by grafting modularization technology developed in the manufacturing industry of ships, automobiles, and electronic products into the plant industry.

Hi-Tech Engineering possesses not only 3D Modeling & Analysis, which is the basis of modular design, but also the technology to convert our own 3D Scanning to 3D Modeling. We are a specialized company that performs modular design by correcting the errors between the manufacturing plant of the module and the site to be installed.

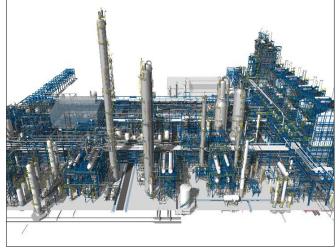
3D Scanning & Modeling

- Correction of errors in production/installation of sites and shops as a core technology of the modularization method
- Resolving inconsistency and interference between machinery, piping and structures
- Reduction of construction period and cost by minimizing repair
- Check deformation during module production, site transport/installation failure and interference
- Correction of tie-in errors between module and site facilities

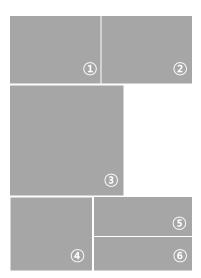


Modularization/3D Modeling&Scan 3D Model View

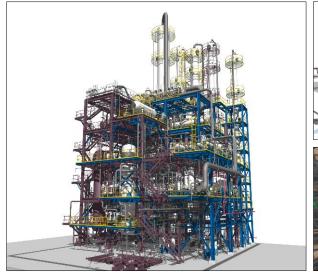




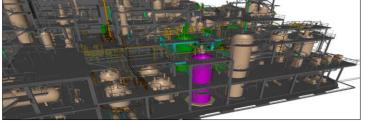




- Daesan NCC, BRU, BD Plant (Revamping)
 Daesan NCC Plant (Revamping)
 Yeosu NCC Plant (Revamping)
 Methyl Isobutyl Ketone 55,000MTPA Plant (Revamping)
- Solvent Recovery System (Revamping)
 Methylene Diphenyl Isocyanate 60,000MTPA Plant (Revamping)







06 Business License and Certificate

Business License

License		Registered date
Design	Engineering (electric facilities, electric & electronic applications, chemical plant, HVAC&Plumbing, structure)	Jan 21, 2002
	Construction technical service (design & project management - general)	Jul 17, 2019
	Fire fighting facilities (mechanical, electrical)	Mar 9, 2010
	Power facility professional (type 1)	Nov 19, 2013
	Offsite Consequence Analysis company	Apr 9, 2015
	Safety diagnosis specialized company (architecture)	Dec 12,2019
Supervision	Integrated(electrical power facility)	May 26, 2003
Integrated construction	Industrial, environmental facility	Apr 5, 2011
	Architecture	Jun 4, 2013
	Civil	Jung 24, 2020
Specialized construction	Electricity	Sep 2, 2010
	Mechanical facility	Oct 7, 2014
	Professional fire fighting facilities	Apr 29, 2011
	Atmospheric environment specialized	Mar 16, 2020
Overseas construction	Industrial, Environmental facilities	Oct 23, 2012
	Electricity	Oct 23, 2012
Surveying services	Underground facilities	Aug 11, 2016
	Numerical map manufacturing	Aub 11, 2016
	Public	Oct 7, 2016
Energy Service Com	pany (ESCO)	Feb 28, 2008

Certificate

Certificate		Registered date
Quality Management	ISO 9001:2015	Jul 20, 2018
Health & Safety Management	ISO 45001:2018(OHSAS 18001)	Mar 2, 2012
Environmental Management	ISO 14001:2015	Mar 2, 2012
Institute of Technology		Jun 30, 2005
Venture Company		Sep 25, 2019
Family-friendly Company		Dec 13, 2019

Software

Process	Instrument
Aspen Plus	Instrument Calculation Plus 5.1
Pro-II	Smart Plant Instrumentation
Smart Plant P&ID	AVEVA Instrumentation
AutoCAD P&ID	
3D Modeling	3D Laser Scan
PDMS(Equip, Piping, Structure, Modeling)	Z+F Laser Control
PDS(Equip, Piping, Structure, Modeling)	Z+F Laser Scout
Review Reality (for PDMS)	AVEVA LFM
Smart Plant Review (for PDS)	Trimble Access
Mech. & Piping Stress Analysis	Project Management
COMPRESS	MS-Project (for Schedule)
CAESAR II	Primavera (for Schedule)
NozzlePRO	Flow(Project Cooperation S/W)
Civil & Structure Analysis	Safety & Environment
STAAD Pro V8i (Civil & Structure)	Phast (for Hazard Analysis)
STAAD Foundation Advanced V8i(for Foundation)	
AFES (for Foundation)	
MIDAS Plant (Civil & Structure)	
MIDAS Gen (Civil & Structure)	
Telka Structure (3D Modeling)	
Architecture Engineering & Construction Collection (AEC)	

3D Laser Scan

Possessed equipment	Manufacturer
Z+F IMAGER® 5010	Zoller Frohlich
Z+F IMAGER® 5016	Zoller Frohlich
Trimble Mensi GS-200	Trimble

08 Project Experience



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No.	Client	Project	Period	Scope
415	LG CHEM	FEASIBILITY STUDY FOR NEW PIPIE RACK REVAMPING BETWEEN YONGSUNG AND JEOKRYANG COMPLEX	Aug,2020~Feb,2021	E
414	DAEA ENERGY	SULFUR SOLIDIFICATION PLANT DESIGN & APPROVAL	Jul,2020~Aug,2021	E
413	LG CHEM	FEASIBILITY STUDY FOR NEW/REVAMPING PIPE RACK FOR OUTDOOR OFFICIALS	Jul,2020~Dec,2020	E
412	OCI	GUNSAN PLANT, RE CVD THERMAL STRESS ANALYSIS	Jul,2020~Oct,2020	Е
411	LG CHEM	DETAIL DESIGN & APPROVAL OF BPA HEAVIES	Jul,2020~Dec,2020	E
410	S-OIL	EPC WORKS FOR VCU INSTALLATION PROJECT	Jun,2020~Dec,2020	E. P. C
409	HANWHA SOLUTION	OA PRODUCTION TEAM 2-EH STORAGE TANK(V-369C) INSTALLATION	Jun,2020~Jan,2020	E. P. C
408	HANWHA SOLUTION	OA OXO CATALYST PROCESS INCREASE P&C CONSTRUCTION	Jun,2020~Jan,2020	E. P. C
407	GS CALTEX	3RD CONSTRUCTION OF IMPROVEMENT OF ELECTRICAL EQUIPMENT IN LOGIST CS CENTER	Apr,2020~Nov,2020	E. P. C
406	KUMHO POLY CHEM	KP-1 RTO-1 INSTALLATION PROJECT	Apr,2020~Dec,2021	E. P. C
405	ЕМ ТЕСН	DETAIL ENGINEERING SERVICES RELATED TO JPC-550(1,000 L/HR PROCESS UNIT) AND NEW SITE TANK INSTALLTION PROJECT	May,2020~Jun,2021	E
404	KUMHO POLY CHEM	METALLOCENE PROCESS BASIC ENGINEERING SERVICE	May,2020~Dec,2020	E
403	LOTTE E&C	PIPING DESIGN SERVICE DURING LOTTE CHEM D-NC_R PROJECT	May,2020~Nov,2020	E
402	LOTTE CHEM	NEW INSTALLATION OF D-GE/BDG EXPANSION REACTION FACILITY FOR DAESAN PLANT	Mar,2020~Mar,2021	E. P. C
401	WONIK MATERIALS	DETAIL DESIGN FOR E PROJECT IN YANGCHEONG PLANT	Mar,2020~Jan,2020	E
400	GS E&C	YEOSU NO.2 COMPLEX PROJECT (PIPING FIELD ENGINEERING)	Mar,2020~Dec,2020	FE
399	HANWHA SOLUTION	BASF YEOSU PLANT HCL 35% EXTERNAL NEW PIPING DESIGN & APPROVAL	Mar,2020~Jun,2020	E
398	KUMHO MITSUI CHEM	MDI 200,000TONS, CA, HYDROCHLORIC ACID OXIDATION FACILITY BASIC DESIGN	Mar,2020~Jun,2020	E
397	KUMHO POLY CHEM	1 PLANT FLARE LOAD SUMMARY & PRESSURE VESSEL INSTALLATION RELATED DESIGN	Feb,2020~May,2020	E
396	MARINE GLORY	INSTALLATION OF 5 PETROCHEMICAL TANKS & DESIGN OF ADDITIONAL FACILITIES	Jan,2020~Dec,2021	E
395	WONIK MATERIALS	DETAIL DESIGN FOR 2,000MTY HIGH PURITY CO2 REFINING & FILLING FACILITY CONSTRUCTION PROJECT	Jan,2020~Mar,2020	E
394	LOTTE E&C	LOTTE CHEM INFRA-2 FEED DESIGN	Jan,2020~Mar,2020	E
393	HYUNDAI ENERGY	DETAIL DESIGN OF STEAM PIPING INSTALLATION FOR GS CALTEX MFC PLANT	Dec,2019~Jan,2020	E
392	DOOSAN HEAVY I&C	CHANGWON HYDROGEN LIQUEFACTION PROJECT APPROVAL & TECHNICAL SERVICE	Nov,2019~Mar,2020	E
391	S&I CORP.	LG MMA M2 MTBE(METHYL TERTIARY BUTHYL ETHER) EXPANSION DESIGN	Nov,2019~Dec,2020	E

No.	Client	Project	Period	Scope
390	GS E&C	LG CHEM Y2C(YEOSU #2 COMPLEX) SAPO PIER EXTERNAL PIPING CONSTRUCTION	Nov,2019~Sep,2020	E. P. C
389	KUMHO P&B CHEM	80,000T/Y KAR(KUMHO ACETONE RECYCLE) PROJECT	Oct,2019~May,2021	E. P. C
388	HANWHA CHEM	OA PRODUCTION TEAM CATALYTIC PROCESS EXPANSION DESIGN & APPROVAL	Oct,2019~Jan,2020	E
387	KUMHO MITSUI CHEM	NEW LOGISTICS BASE CONSTRUCTION	Oct,2019~Aug,2020	E. P. C
386	KUMHO PETRO CHEM	SBS(STYRENE BUTADIENE STYRENE) 45,000T REVAMPING PROJECT	Oct,2019~Aug,2020	E. P. C
385	YEOSU TECHNICAL DIRECTOR'S COUNCIL	PIPE RACK SAFETY DIAGNOSIS OF EXTERNAL PIPELINES BETWEEN 10-2,3 SECTIONS	Oct,2019~Jan,2020	E
384	HYUNDAI ENERGY	AIR LIQUID PIPE RACK STRUCTURE STABILITY REVIEW	Oct,2019~Oct,2019	Е
383	LG CHEM	DETAILED DESIGN OF VCM1 EDC(ETHYLENE DICHLORIDE) REACTION PROCESS IMPROVEMENT	Sep,2019~Jul,2020	E
382	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) OUTSIDE PIPE LINE INSTALLATION WORK	Sep,2019~Nov,2020	E
381	E1	BASIC DESIGN OF YEOSU BASE GS CALTEX	Sep,2019~Nov,2019	E
380	HYUNDAI ENG	KUMHO P&B CHEM BPA(BISPHENOL-A)-5 PROJECT	Aug,2019~Mar,2020	E
379	KUMHO PETRO CHEM	DESIGN & APPROVAL FOR CATALYST MANUFACTURING FACILITIES IN 9 BLOCKS	Aug,2019~Feb,2020	E
378	LOTTE E&C	WP4 MTO WORK IN INDONESIA LINE PROJECT	Aug,2019~Oct,2019	E
377	LG CHEM	DETAIL DESIGN OF SAP5 POWDER ASSEMBLY BACK-UP SYSTEM CONSTRUCTION	Jul,2019~Dec,2019	E
376	DAEWOO PLANT	KPB2 LER(LIQUIED EPOXY RESINS) STORAGE TANK 6EA INSTALLATION DESIGN	Jun,2019~Nov,2019	E
375	GS CALTEX	DETAIL DESIGN OF LPG PIPE CONSTRUCTION FROM YEOSU PLANT TO E1 YEOSU STATION	May,2019~Dec,2019	E
374	E1	YEOSU STATION PIPERACK EXTENSION DESIGN PROJECT	May,2019~Nov,2019	E
373	PMC TECH	TANK REVAMPING PROJECT DESIGN & APPROVAL	Apr,2019~Mar,2020	E
372	KUMHO POLY CHEM	TPV(THERMO PLASTIC VULCANIZATE) PLANT PROCESS IMPROVEMENT PROJECT	Apr,2019~Jul,2019	E. P. C
371	KUMHO MITSUI CHEM	2019 SHUTDOWN INVESTMENT CONSTRUCTION PROJECT	Apr,2019~Jun,2019	E. P. C
370	LOTTE ADVANCED MATERIALS	HIGH TEMPERATURE NYLON A4 MASS PRODUCTION PROCESS BASIC DESIGN FEED	Mar,2019~Aug,2019	E
369	LOTTE CHEM	BASIC DESIGN FOR DAESAN GE PROCESS BDG PRODUCTION PROCESS	Mar,2019~Aug,2019	Е
368	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) OUTER PIPE LINE INSTALLATION WORK	Feb,2019~Apr,2021	E. C
367	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) PROJECT (PIPING/ELEC./INSTR. /CIVIL)	Feb,2019~Apr,2021	Е
366	S&I CORP.	CDC PROJECT ORGANIC CATALYST & OSBL DETAIL DESIGN SERVICE	Feb,2019~Jan,2020	Е
365	LG MMA	REPLACING MMA(METHYL METHACRYLATE) PROCESS INSTRUMENT & LINE IN MMA3 PLANT	Feb,2019~Nov,2019	E. P. C
364	YNCC	ETHYLENE & BTX(BENZENE TOLUENE XYLENE) AREA ENERGY SAVING PROJECT	Jan,2010~Jun,2019	E. P. C
363	GS CALTEX	H2 BOOSTER COMPRESSOR STANDBY INSTALLATION PROJECT	Dec,2018~Jul,2020	E
362	LOTTE CHEM	DAESAN PLANT D-EG ½ WASTE HEAT RECOVERY ENERGY SAVING PROJECT	Dec,2018~Nov,2019	E. P. C
361	KUMHO POLY CHEM	PELLET STEP II PROJECT	Dec,2018~Oct,2019	E. P. C

No.	Client	Project	Period	Scope
360	GS CALTEX	CONSTRUCTION OF PIPING 3D INSPECTION DRAWINGS(OUTSIDE THE FACTORY)	Dec,2018~Jun,2019	E
359	VERSUM PM KOREA	SIHWA GABLE-INFRASTRUCTURE EPC PROJECT	Dec,2018~May,2019	E. P. C
358	GS E&C	LG CHEM Y2C PROJECT (ETHYLENE 800,000MT/Y)	Nov,2018~Jun,2021	E
357	LG MMA	ACRYLIC RUBBER PRODUCTION PROCESS CONSTRUCTION WORK	Jul,2018~Feb,2020	E. P. C
356	KUMHO P&B CHEM	STT(I) STORAGE FACILITIES INSTALLATION	Jul,2018~Jan,2020	E. P. C
355	GS CALTEX	CONSTRUCTION OF PIPING 3D INSPECTION DRAWINGS (OUTSIDE THE FACTORY)	Jul,2018~Jun,2019	E
354	DAWOO E&C	GS CALTEX SAR REVAMPING PROJECT PIPING 3D SCANNING & PERMIT	Jul,2018~Jun,2019	E
353	VERSUM ADM KOREA	GABLE EXPANSION PROJECT	Jul,2018~Mar,2019	E. P. C
352	HYUNDAI ENG	HDO REVAMPING PROJECT PIPING/ ELEC. /INSTR. FIELD ENGINEERING	Jul,2018~Nov,2018	FE
351	LG MMA	MMA2 PLANT DESIGN OF ESTER WORK	Jul,2018~Oct,2018	E
350	GS E&C	MFC FEED PROJECT	Jun,2018~May,2019	E
349	GS CALTEX	REFINERY 3TEAM PSV DUALIZATION DETAIL DESIGN SERVICE	Jun,2018~May,2019	E
348	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 60,000MTPA PLANT REVAMPING PROJECT	Jun,2018~Jan,2010	E. P. C
347	VERSUM PM KOREA	SHIWA OFFICE BUILDING REINFORCEMENT PROJECT	Jun,2018~Oct,2018	E. P. C
346	KUMHO MITSUI CHEM	NEW INSTALLATION OF M-EC520A1/A2 SYSTEM	Jun,2018~Jul,2018	P. C
345	SHELL KOREA	BDEP DEVELOPMENT FOR NEW STORAGE TANKS INSTALLATION	Jun,2018~Jul,2018	E
344	LG CHEM	DETAIL DESIGN FOR EXTENSION COMPLEX UTILITY CENTER & INFRASTRUCTURE CONSTRUCTION	Apr,2018~Mar,2019	E
343	LG CHEM	BUTENE-1, RBD PROJECT CONSTRUCTION	Apr,2018~Jan,2010	P. C
342	LOTTE CHEM	VRU(VAPOR RECOVERY UNIT) INSTALLATION	Apr,2018~Nov,2018	P. C
341	LG CHEM	SAP5(SUPER ABSORBENT POLYMER) 15,000 TON DBN PROJECT	Apr,2018~Oct,2018	E
340	HANWHA CHEM	OSBL PIPE RACK INSTALLATION PROJECT	Apr,2018~Sep,2018	E. P. C
339	SERVEONE	YEOSU CA2 GENERAL CONTRACTOR	Mar,2018~Dec,2019	E
338	GS E&C	LG CHEM 6AA PROJECT SMS/PSM	Mar,2018~May,2019	E
337	BASF	MIXTURE-1 PROJECT	Mar,2018~Mar,2019	E. P. C
336	VERSUM SPC KOREA	PYEONGTAEK CMP(CHEMICAL MECHANICAL POLISHING) PROJECT	Mar,2018~Jan,2010	E. P. C
335	LG CHEM	CA1 ELECTROLYZER PILOT FACILITY PROJECT	Mar,2018~Dec,2018	E. P. C
334	JAEWON INDUSTRIAL	JNJ(PDP) FEED DESIGN	Mar,2018~Jun,2018	E
333	VERSUM PM KOREA	ALCHEMY PROJECT (CSP 80MTPY + AMP 15MTPY NEW)	Feb,2018~Feb,2019	E. P. C
332	HANWHA ENERGY	9 BLOCK PIPE RACK DESIGN	Feb,2018~Nov,2018	E
331	LOTTE CHEM	K-PIA, PTA IG DRYER VENT GAS PREVENTION FACILITY(ACTIVATED CARBON ADSORPTION TOWER) PRODUCTION AT ULSAN PLANT	Feb,2018~Sep,2018	E. P

No.	Client	Project	Period	Scope
330	LG MMA	CONSTRUCTION OF DISPERSANT SEMI-MASS PRODUCTION FACILITY & SUSPENSION POLYMERIZATION PILOT RECONSTRUCTION	Feb,2018~May,2018	E
329	VERSUM MATERIALS	DEMOLITION WORK AT SIHWA PLANT	Feb,2018~Mar,2018	E. P. C
328	KUMHO P&B CHEM	LER(LIQUID EPOXY RESIN) STEP III 45,000T REVAMPING PROJECT	Jan,2010~Jun,2019	E. P. C
327	KUMHO MITSUI CHEM	COMPLEMENTARY WORK RELATED TO COLOR IMPROVEMENT	Jan,2010~Apr,2018	E. P. C
326	AISA STABILIZERS	GOJI PROJECT BASIC ENGINEERING	Jan,2010~Apr,2018	E
325	HANWHA E&C	THE PROJECT OVERALL DESIGN SERVICE	Dec,2017~Jan,2010	E
324	SERVEONE	YEOSU LG CHEM SAP5(SUPER ABSORBENT POLYMER) REVAMPING PROJECT	Nov,2017~Feb,2019	E
323	GS CALTEX	DETAIL DESIGN FOR RFCC(RESIDUE FLUID CATALYTIC CRACKING UNIT) WET GAS SCRUBBER INSTALLATION	Nov,2017~Jun,2018	E
322	VERSUM MATERIALS	NUMAT PROJECT	Nov,2017~Mar,2018	E. P. C
321	SK AIR GAS	SK HYNIX M14 PHASE2B GAS PLANT PROJECT DESIGN	Oct,2017~Nov,2018	E
320	GS E&C	GS CALTEX VGOFCC(VGO FLUIDIZED CATALYTIC CRACKER) PROJECT	Oct,2017~Apr,2018	Е
319	SERVEONE	LG MMA M3 REVAMPING PROJECT (GENERAL CONTRACTOR)	Sep,2017~May,2019	Е
318	S-OIL	MOKPO STORAGE VRU(VAPOR RECOVERY UNIT) PACKAGE & CONCRETE INSTALLATION WORK	Jun,2017~Dec,2017	E. P. C
317	SK SHOWA DENKO	SS PROJECT EPC LUMP & SUM TURNKEY PROJECT (CH3F 20TON/Y)	Jun,2017~Dec,2017	E. P. C
316	GS E&C	3NE PROJECT	May,2017~Apr,2019	Е
315	KUMHO P&B CHEM	SER(SOLID EPOXY RESINS) STEP II 15,000MTPA REVAMPING PROJECT	May,2017~Feb,2018	E. P. C
314	SAMSUNG C&T	OFF-SITE IMPROVEMENT PLAN DETAIL DESIGN & APPROVAL	Apr,2017~Aug,2018	Е
313	BASF	TOURBILLON PROJECT DIKE INSTALLATION	Apr,2017~Jun,2017	E. P. C
312	KPIC	ULSAN PLANT SPP PROJECT DESIGN	Mar,2017~Jul,2018	Е
311	GS E&C	GS CALTEX No.1 CDU(CRUDE DISTILLATES UNIT) REVAMP PROJECT	Mar,2017~May,2018	Е
310	HANWHA CHEM	W-TFT CA1 TEAM 35% HYDROCHLORIC ACID SHIPPING INFRASTRUCTURE CONSTRUCTION WORK	Feb,2017~Sep,2017	E. P. C
309	KUMHO MITSUI CHEM	IMPROVEMENT CONSTRUCTION FOR MDI(METHYLENE DIPHENYL ISOCYANATE) EXTENSION BOTTLENECK ELIMINATION	Feb,2017~Apr,2017	E. P. C
308	OCI	GUNSAN PLANT, AGRICULTURAL WATER UTILIZATION FACILITY INSTALLATION	Jan,2010~Aug,2017	E. P. C
307	AIR LIQUIDE KOREA	Y2 REVAMP(CO2 RECYCLE) PROJECT	Dec,2016~Nov,2017	E. P. C
306	SK MATERIALS	W-3 PLANT 300TON/Y EXPANSION PROJECT	Dec,2016~Oct,2017	E. P. C
305	LG MMA	ACRYL RUBBER SYSTEM CONSTRUCTION DESIGN	Dec,2016~Oct,2017	Е
304	LOTTE ADVANCED MATERIALS	ABS 65,000MTY REVAMPING PROJECT	Dec,2016~Aug,2017	E. P. C
303	SERVEONE	LG CHEM DAESAN PLANT POE ISBL PIPING DESIGN	Nov,2016~Dec,2018	Е
302	ISU E&C	OTK NO.4 EXPANSION PROJECT	Nov,2016~Dec,2018	Е
301	POSCO ENG	DAESAN PROPANE LOW TEMPERATURE TANK CONSTRUCTION DESIGN	Nov,2016~Sep,2018	Е

No.	Client	Project	Period	Scope
300	HYUNDAI ENG	HYUNDAI OIL BANK REVAMPING EPC PROJECT(PIPING/ELEC./INSTR./CIVIL DESIGN)	Nov,2016~Jul,2018	E
299	KUMHO P&B CHEM	STT(I) EXTERNAL STORAGE FACILITIES INSTALLATION	Nov,2016~Jul,2017	E. P. C
298	KUMHO MITSUI CHEM	JO MDI(METHYLENE DIPHENYL ISOCYANATE) 4,000M3 STORAGE TANK INSTALLATION	Nov,2016~Apr,2017	E. P. C
297	KUMHO POLY CHEM	2-LINE FACILITY SUPPLEMENTARY CONSTRUCTION DESIGN	Nov,2016~Nov,2016	Е
296	KUMHO POLY CHEM	TPV(THERMO PLASTIC VULCANIZATE) EXTENSION CONSTRUCTION	Oct,2016~Aug,2017	E. P. C
295	KUMHO P&B CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) STEPIV PROJECT	Oct,2016~Jan,2010	E. P. C
294	YEOSU GREEN ENERGY	YEOSU GREEN ENERGY STEAM SUPPLY SYSTEM	Aug,2016~Dec,2018	E
293	LOTTE CHEM	H-NC3 PROJECT CAUSTIC STORAGE TANK INSTALLATION	Aug,2016~Apr,2017	E. P. C
292	SY TANK TERMINAL	NAKPOGAC THREE TANK CONSTRUCTION PROJECT (SYP-1601)	Aug,2016~Apr,2017	E
291	DAELIM INDUSTRIAL	E(ETHYLENE PROPYLENE OLIGOMER) PROJECT DESIGN & APPROVAL	Jul,2016~Sep,2017	E
290	LOTTE CHEM	YEOSU PLANT H-EG1/2, WASTE HEAT RECOVERY REFRIGERATOR IMPROVEMENT CONSTRUCTION	Jun,2016~May,2017	E. P. C
289	KUMHO MITSUI CHEM	I-FA102 & ADDITIONAL FACILITIES REPLACEMENT WORK	Jun,2016~Oct,2016	E. P. C
288	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE)-PH CONTINUOUS CRYSTALLIZER INSTALLATION WORK	May,2016~Apr,2017	E. P. C
287	KUMHO POLY CHEM	1PLANT 1-LINE MVR(MECHANICAL VAPOR RECOMPRESSION) INSTALLATION	May,2016~Dec,2016	E. P. C
286	LOTTE BP CHEM	SYNGAS COOLER REPLACEMENT EPC CONTRACT	Apr,2016~May,2017	E. P. C
285	E1	E1 MIXED-C4 TRANSPORT-RELATED CONSTRUCTION PROJECTS	Mar,2016~Mar,2017	E. P. C
284	OCI	PIPING DESIGN FOR BTX(BENZENE TOLUENE XYLENE) DBNK PROJECT	Feb,2016~Dec,2016	E
283	KUMHO MITSUI CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) PACKAGE MANUFACTURE & INSTALLATION	Nov,2015~Oct,2017	E. P. C
282	GS CALTEX	AROMATIC OFF-GAS BENZENE RECOVERY DESIGN SERVICES	Nov,2015~May,2017	E
281	KUMHO PETRO CHEM	POLYMERIZATION G-LINE NB LATEX PARALLEL PRODUCTION FACILITY CAPA UP	Nov,2015~Jan,2010	E. P. C
280	LOTTE CHEM	H-PC,IMPROVE PRODUCTIVITY THROUGH 3TH DEBOTTLENECKING	Nov,2015~Jul,2016	E. P. C
279	KUMHO P&B CHEM	AMS(ALPHA METHYL STYRENE) CAPA-UP PROJECT	Nov,2015~May,2016	E. P. C
278	YNCC	YNCC 2PLANT ENERGY-SAVING PROJECT	Nov,2015~Apr,2016	E. P. C
277	LOTTE CHEM	POE SEMI-COMMERCIAL PLANT PDP MANUFACTURE	Nov,2015~Mar,2016	E
276	LOTTE CHEM	H-DMC,HOT OIL WASTE HEAT RECOVERY HEAT EXCHANGER INSTALLATION	Oct,2015~Jun,2016	E. P. C
275	DAELIM INDUSTRIAL	DETAIL DESIGN FOR S-OIL RUC(RESIDE UPGRADING COMPLEX) PROJECT SITE, AREA-5(REVAMPING OF EXIST. FACILITY)	Oct,2015~Mar,2016	E
274	KUMHO MITSUI CHEM	M-PG303C RELOCATION & IMPROVEMENT	Sep,2015~Sep,2015	E. P. C
273	HYOSUNG	200,000T/Y PP3(PROPYLENE PURFICATION C3) PROJECT	Aug,2015~Dec,2016	Е
272	DAELIM INDUSTRIAL	PB2(POLY BUTENE) 100,000MTA REVAMPING PROJECT	Jul,2015~Oct,2016	E. P. C
271	DONGLIM E&G	ULSAN SRF BOILER STEAM SUPPLYING PROJECT (FLUE GAS TREATMENT EQUIPMENT DELIVERY/ INSTALLATION)	Jul,2015~Feb,2016	E

No.	Client	Project	Period	Scope
270	LG MMA	NO.2 PMMA MS PRODUCTION FACILITY BUILDING CONSTRUCTION	Jul,2015~Jan,2010	E. P. C
269	BASF	FEED SERVICE PACKAGE FOR TOUBLION PROJECT	Jul,2015~Nov,2015	E
268	KUMHO P&B CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) STEPII PROJECT	Jun,2015~Apr,2016	E. P. C
267	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) & MDA MIXER, M-DA103 INSTALLATION	May,2015~May,2015	E. P. C
266	OCI	P2 CVD HEAT RECOVERY SYSTEM MANUFACTURING & INSTALLATION	Apr,2015~Sep,2015	E. P. C
265	KUMHO POLY CHEM	KP-1 PLANT 2-LINE MVR(MECHANICAL VAPOR RECOMPRESSION) PROJECT	Apr,2015~Nov,2015	E. P. C
264	DEOKYANG	THE 3 FACTORY RAW CONVERSION PROJECT	Mar,2015~May,2015	E. P. C
263	LG MMA	No.1 PMMA TANK INSTALLATION	Feb,2015~Jul,2015	E. P. C
262	KUMHO PETRO CHEM	NEW C4 BALL TANK(3,000m²) INSTALLATION	Jan,2010~Dec,2015	E. P. C
261	SKC LIGHTING	ENTEC BIO POWER GENERATION PLANT DETAIL ENGINEERING	Dec,2014~Sep,2016	E
260	DAELIM INDUSTRIAL	PB(POLY BUTENE)2 PLANT 75,000 MTA REVAMPING PROJECT	Nov,2014~Nov,2015	E. P. C
259	HANWHA CHEM	POLY SILICON CAPA-UP DETAIL DESIGN	Nov,2014~Aug,2015	E
258	KUMHO MITSUI CHEM	COC(COCL2) REACTOR & HCL ADSORPTION TOWER INSTALLATION	Nov,2014~May,2015	E. P. C
257	SAMSUNG TECHWIN	MVR(MECHANICAL VAPOR RECOMPRESSION) INSTALLATION	Nov,2014~Nov,2014	E. P. C
256	HUVIS	BASIC DESIGN FOR HEATING MEDIUM BOILER PROCESS	Oct,2014~May,2015	E
255	KUMHO MITSUI CHEM	CR-MDI(METHYLENE DIPHENYL ISOCYANATE) STORAGE TANK	Oct,2014~Dec,2014	E. P. C
254	LOTTE E&C	LCC D-EG1 DEBOTTNECKING PROJECT (MEG 50,000MT CAPA UP)	Oct,2014~Sep,2016	E. P. C
253	G&L/BLUE O&M	ANIMAL WASTE RECYCLING PROJECT	Sep,2014~Sep,2015	E. P. C
252	DEOKYANG	CO2 LIQUEFIED FACILITY PLANT ENGINEERING	Sep,2014~Nov,2014	E
251	KOREA PETRO CHEM	3RD Hx REFINE PROCESS IMPROVEMENT PROJECT	Aug,2014~Sep,2015	Е
250	LOTTE CHEM	H-PC, EFFICIENCY IMPROVEMENT	Jul,2014~Jan,2010	E. P. C
249	HANWHA CHEM	DETAIL DESIGN FOR PE2, LP-2M-LLD PRODUCTION FACILITY	Jul,2014~Sep,2014	Е
248	WOOYANG HC	DETAIL DESIGN FOR SPP(SUPER ABSORBENT POLYMER PILOT) PROJECT	Jun,2014~Dec,2014	E
247	SAMYANG	TPEE(THERMOPLASTIC EASTER ELASTOMER) PROJECT	May,2014~Dec,2015	E
246	GS E&C	5AA PROJECT	Apr,2014~Jul,2015	E
245	LG CHEM	PGC(PROCESS GAS COMPRESSOR) DIFFERENTIAL PRESSURE IMPROVEMENT DESIGN	Apr,2014~Jun,2015	E
244	SPG CHEM	DETAIL DESIGN FOR H2 BOOSTING COMPRESSOR INSTALLATION	Apr,2014~Dec,2014	E
243	KUMHO MITSUI CHEM	COC(COCL2) COMPRESSOR INSTALLATION	Feb,2014~May,2014	E. P. C
242	KUMHO MITSUI CHEM	2014 MDI(METHYLENE DIPHENYL ISOCYANATE) PLANT ANNUAL SHUT-DOWN PROJECT	Feb,2014~May,2014	E. P. C
241	LG CHEM	#3 C3 PURIFICATION SYSTEM	Jan,2010~May,2015	E

No.	Client	Project	Period	Scope
240	LG TOYO ENG	ELEC./INSTR./CIVIL DESIGN OF 2014 NCC(NAPHTHA CRACKING CENTER) EXPANSION PROJECT	Jan,2010~Dec,2014	E,
239	LOTTE CHEM	H-PC, T-130(MPC REACTION TOWER) MVR(MECHANICAL VAPOR RECOMPRESSING) INSTALLATION PROJECT	Jan,2010~Dec,2014	E. P. C
238	HANWHA ENERGY	9.9MW BACK-PRESSURE TURBINE INSTALLATION PROJECT	Aug,2013~Dec,2014	E
237	POSCO ENG	KUMHO POLY CHEM YEP-V(EPDM) 60,000MT/Y CONSTRUCTION PROJECT	Jul,2013~Nov,2015	E
236	KUMHO P&B CHEM	LER(LIQUIED EPOXY RESINS) STEP II 45,000MTPA REVAMPING PROJECT	Aug,2013~Jul,2014	E. P. C
235	E1	PIPE RACK OF WEST SIDE	Jul,2013~Dec,2013	E
234	N.I.O.C (S.W.PG)	NGL-3200 BEDP(BASIC ENGINEERING DOCUMENTS PACKAGE) ENDORSEMENT	Jul,2013~Sep,2013	E
233	CHEIL INDUSTRIES	RAW MATERIAL STORAGE TANK FARM PROJECT	Jun,2013~Oct,2013	E
232	POSCO ENG	HYOSUNG DH2 PROJECT	Jun,2013~Jul,2013	E
231	HYUNDAI OIL BANK	INCHEON INTERNATIONAL LOGISTICS WHARF	May,2013~Jun,2015	E
230	KOREA PETRO CHEM	HR(HEXANE RECOVERY)-Ⅱ	May,2013~Mar,2014	Е
229	KOREAEAST-WEST POWER	POWER CELL POWER PLANT	May,2013~Oct,2013	E. P. C
228	SAMSUNG FINE CHEM	NH3 COLD HEAT RECOVERY PROJECT	May,2013~Jul,2013	E. P. C
227	GS CALTEX	DESIGN & APPROVAL OF LAND & MARINE FACILITIES FOR NO.3 PRODUCT PIER	Apr,2013~Mar,2018	Е
226	GS CALTEX	NEW CRUDE TANK (800,000 BARREL) PROJECT	Apr,2013~Dec,2015	E
225	KUMHO MITSUI CHEM	IPC PILOT PLANT INSTALLATION PROJECT	Mar,2013~Sep,2013	E. P. C
224	GS E&C	TAME(TERTIARY AMYL ETHER) PROJECT	Mar,2013~May,2013	E
223	LG CHEM	BRU(BENZENE RECOVERY UNIT) 60,000MT DEBOTTLENECKING PROJECT (EDC: ETHYLENE DICHLORIDE)	Feb,2013~Nov,2013	Е
222	HANWHA	AP SYNTHETIC RECRYSTALLIZATION PROCESS EXPANSION	Jan,2010~Jan,2010	E
221	TOYO ENG	EGKr HOT PROJECT	Jan,2010~Dec,2013	E. C
220	KUMHO PETRO CHEM	W.W.T(WASTE WATER TREATMENT) FACILITIES EXPANSION PROJECT	Jan,2010~Jul,2016	E. P. C
219	POSCO ENERGY	HYDROGEN RECOVERY UNIT STRUCTURE	Jan,2010~Jul,2013	С
218	HYUNDAI OIL TERMINAL	HDO(HEAVY DUTY OIL) STORAGE TANK FARM CONSTRUCTION MANAGEMENT	Dec,2012~Dec,2013	E. P. C
217	GS E&C	UZBEKISTAN UGCC ETHYLENE 600,000MT/Y PROJECT (MECHANICAL/PIPING/ELEC./INSTR./CIVIL DESIGN)	Oct,2012~Jul,2014	Е
216	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT REVAMPING PROJECT	Sep,2012~Dec,2012	E. P. C
215	KUMHO P&B CHEM	DIBK(DIISOBUTYL KETONE) DISTILLATION TOWER INSTALLATION PROJECT	Aug,2012~Dec,2012	E. P. C
214	HANWHA CHEM	LP-1 EXTRUDER & PPB EXTENSION CONSTRUCTION PROJECT	Jul,2012~Apr,2013	E. P. C
213	KUMHO PETRO CHEM	LP-1 EXTRUDER & PPB EXTENSION CONSTRUCTION PROJECT	Jun,2012~Dec,2012	E. P. C
212	DAELIM INDUSTRIAL	KUMHO YEP-IV(EPDM) VOC TREATMENT PACKAGE PROJECT	Jun,2012~Nov,2012	E. P. C
211	HANWHA E&C	HCC SCR(SELECTIVE CATALYTIC REDUCTION) PROJECT	May,2012~Mar,2013	E

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210	GS E&C	MAA(METHYL METHACRYLATE) EXPANSION PROJECT (PROCESS/MECHANICAL/PIPING/ELEC./INSTR./CIVIL DESIGN)	Apr,2012~Jan,2010	E
209	KUMHO MITSUI CHEM	HYPER SALINE WASTE WATER TREATMENT SYSTEM INSTALLATION PROJECT	Mar,2012~Sep,2012	E. P. C
208	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT MVR(MECHANICAL VAPOR RECOMPRESSING) SYSTEM INSTALLATION	Feb,2012~Aug,2012	E. P. C
207	LG CHEM	BPA(BISPHENOL-A)(BISPHENOL A) ACETALDEHYDE STRIPPING COLUMN INSTALLATION PROJECT	Feb,2012~May,2012	E
206	LG CHEM	NCC(NAPHTHA CRACKING CENTER) PROCESS IMPROVEMENT PROJECT	Feb,2012~Mar,2012	E
205	KUMHO POLY CHEM	NEW PLANT WASTE HEAT RECOVERY SYSTEM INSTALLATION	Jan,2010~Jul,2013	E. P. C
204	HANWHA CHEM	CM2 BASIC ENGINEERING DOCUMENT PACKAGE PROJECT	Jan,2010~Feb,2012	Е
203	GS E&C	DESIGN FOR GS CALTEX VGOFCC(VGO FLUIDIZED CATALYTIC CRACKER) PROJECT SAPO-PIPE LINE (PIPING/ELEC./INSTR./CIVIL)	Nov,2011~Apr,2013	E
202	GS E&C	TAME(TERTIARY AMYL ETHER) PROJECT	Oct,2011~Mar,2013	Е
201	KUMHO P&B CHEM	MIBK(DIISOBUTYL KETONE) 55KT CAPA UP PROJECT	Oct,2011~Oct,2012	E. P. C
200	KOREA PETRO CHEM	Hx REFINE PROCESS IMPROVEMENT PROJECT	Sep,2011~Jun,2012	E
199	HANWHA E&C	HCC SALT TRANSFER BELT CONVEYOR INSTALLATION PROJECT	Sep,2011~Dec,2011	E. CS
198	GS E&C	#4 KERO MEROX(KEROSENE UNIT) PROJECT	Aug,2011~Apr,2013	E. PS. CS
197	GS E&C	MAA(METHYL METHACRYLATE) EXPANSION PROJECT (PIPING/ELEC./INSTR./CIVIL DESIGN)	Aug,2011~Oct,2011	E
196	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT REVAPMING PROJECT	Jul,2011~Jun,2012	E. P. C
195	LG CHEM DAESAN	2ND STEAM SUPPLY LINE INSTALLATION PROJECT	Jul,2011~Nov,2011	Е
194	LINDE KOREA	INJU N20 PLANT & CYLINDER FILLING STATION DESIGN	Jun,2011~Jun,2012	E. FE
193	LG CHEM DAESAN	NCC(NAPHTHA CRACKING CENTER) FURNACE REVAMPING PROJECT	Apr,2011~Jul,2012	Е
192	GS CALTEX	KERO SPLITTER INSTALLATION PROJECT	Mar,2011~Nov,2011	E
191	KUMHO MITSUI CHEM	MDA(METHYLENE DIPHENY AMINE) REVAMPING PROJECT	Mar,2011~Jul,2011	E. P. C
190	LG CHEM	CA/EDC (CAUSTIC/ETHYLENE DICHLORIDE) PROJECT	Feb,2011~Jul,2011	Е
189	GS E&C	VGOFCC(VGO FLUIDIZED CATALYTIC CRACKER)(VACUUM GAS OIL FLUIDIZED CATALYTIC CRACKING UNIT) PROJECT	Feb,2011~Mar,2011	E. P. C
188	LG CHEM DAESAN	LDPE(LOW DENSITY POLYETHYLENE) 2ND EXTRUDER INSTALLATION PROJECT	Jan,2010~Nov,2011	E. P. C
187	LG CHEM	L-LDPE(LOW DENSITY POLYETHYLENE) PLANT ELASTOMER 13,000TON DEBOTTLENECK PROJECT	Jan,2010~Nov,2011	E. P. C
186	GS CALTEX	NO.3 KD HDS REFRIGERATOR RECOVERY UNIT	Jan,2010~Oct,2011	E
185	LG CHEM	SLURRY PUMP CAPA. UP	Jan,2010~Jun,2011	Е
184	SAMSUNG FINE CHEM	HYDROGEN SUPPLY SYSTEM SUPPLEMENT	Jan,2010~Apr,2011	E. P. C
183	LG MMA	MTBE(METHYL TERTIARY BUTYL ETHER) LOADING ARM DESIGN & PERMIT	Jan,2010~Apr,2011	E. GA
182	HYUNDAI E&C	STEAM TRUCK LINE CALCULATION & DESIGN	Dec,2010~Jun,2012	E
181	LOTTE E&C	HONAM PETRO CHEM HPEO(HIGH PURITY ETHYLENE OXIDE) PROJECT	Dec,2010~Oct,2011	E. P. C

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180 ISU E&C	OTK E4 PROJECT	Dec,2010~Oct,2011	Е
179 CHEIL INDUSTRIES	LOADING ARM 1EA INSTALLATION	Dec,2010~Feb,2011	Е
178 KUMHO P&B CHEM	U-5500 PHENOL TREATMENT PROJECT	Nov,2010~May,2011	E. P. C
177 LG CHEM	INTERCONNECTING PIPING ANALYSIS	Nov,2010~Dec,2010	Е
176 GS E&C	LG CHEM 4AA PROJECT (MECHANICAL/PIPING/ELEC./INSTR./CIVIL DESIGN)	Nov,2010~Nov,2010	E. PS
175 LG CHEM	A-1 PBL EXTENSION PSV & FLARE LOAD SUMMARY & PERMIT	Oct,2010~Dec,2010	E
174 ALBEMARLE KOREA	P-52141 PROJECT	Sep,2010~Jun,2011	E. PS. CS
173 GS CALTEX	OIL REFINING 3TEAM ATMOSPHERE EMISSION UNIT IMPROVEMENT	Aug,2010~Jul,2011	E. PS
172 YCOGEN	YEOSU COGENERATION PLANT DE-COMPRESS	Aug,2010~May,2011	E. P. C
171 LG CHEM	PP PLANT EXTENSION PROJECT	Aug,2010~May,2011	E
170 GS E&C	YP-1 EXPANSION PROJECT	Aug,2010~May,2011	E. PS
169 JUNGHO ENC	3RD PUBLIC PIPERACK CONSTRUCTION FOR 26SECTION(4BLOCK)	Aug,2010~Oct,2010	Е
168 LG CHEM	BPA(BISPHENOL-A)_ACETONE FLASHER	Aug,2010~Sep,2010	E
167 LG CHEM	MYO DO SM G2-SECTION PIPE RACK TRANSFER	Jul,2010~Dec,2010	E
166 KUMHO PETRO CHE	TECHNICAL SELF-RELIANCE FOR 2ND PLANT	Jul,2010~Nov,2010	E
165 S-OIL	2011YEAR CONSTRUCTION BUDGET	Jul,2010~Aug,2010	Е
164 GS E&C	NO.4 DNT PROJECT	Jun,2010~Jun,2011	E. PS
163 GS CALTEX	STEAM SUPPLY & STEAM CONDENSATE WITHDRAW PI	Jun,2010~Nov,2010	E. PS
162 C&B INDUSTRIAL	NITRIC OXIDE PLANT	Jun,2010~Sep,2010	E
161 GS CALTEX	DAE SONG CONSTRUCTION TRANSFER PUMP	Jun,2010~Jul,2010	E. PS
160 DAELIM INDUSTRIAI	LHD REACTOR PILOT UNIT ESTABLISHMENT	May,2010~Jul,2010	E. PS
159 GS E&C	HUCHEMS NO.4 DNT PROJECT	May,2010~May,2010	E. PS
158 GS CALTEX	B-SECTION 400MB ULSD TANK 1EA	Apr,2010~May,2011	E. PS
157 YCOGEN	43KGG STEAM CHEIL INDUSTRIAL SUPPLY PIPE RACK	Apr,2010~Nov,2010	E
156 YNCC	3 SECTION, BTX(BENZENE TOLUENE XYLENE) EA-134	Apr,2010~May,2010	E
155 SERVEONE	DS EO(ETHYLENE OXIDE) PLANT INCREASING PRODUCTIVITY PROJECT	Mar,2010~Mar,2011	E. PS
154 GS E&C	LG PMMA EXPANSION PROJECT	Mar,2010~Apr,2010	E
153 LG CHEM	LDPE(LOW DENSITY POLYETHYLENE) PLANT INCREASING PRODUCTIVITY PROJECT	Feb,2010~Dec,2011	E
152 YTT	TANK 6EA	Feb,2010~Sep,2010	E. PS. CS
151 GS E&C	LG CHEM M3 PROJECT 3D MODELER	Jan,2010~May,2010	E. PS

No.	Client	Project	Period	Scope
150	MNCO	DAESAN LG CHEM VCM SCRUBBER	Jan,2010~Jan,2010	Е
149	KUMHO PETRO CHEM	PROCESS SAFETY MANAGEMENT CONSULTING	Dec,2009~Apr,2010	E
148	AIR LIQUIDE KOREA	VARIOUS PROJECTS (DANGJIN/C01M START VOLTAGE DROP)	Dec,2009~Mar,2010	E
147	LG CHEM	F/STACK LOAD LIST SUMMARY	Dec,2009~Feb,2010	E
146	SEETEC	OVERLAND SHIPPING POINT EXTENSION	Oct,2009~Mar,2010	E
145	KUMHO MITSUI CHEM	ADL SAFETY FACILITY INSTALLATION OF EXISTING MDI SYNTHESIS PLANT	Jul,2009~Apr,2010	E. P
144	GS E&C	HPC B-PROJECT	Jun,2009~Oct,2010	P. CS
143	LG CHEM	HDPE HEXANE PURIFICATION BASIC	Jun,2009~May,2010	Р
142	LG CHEM	LDPE(LOW DENSITY POLYETHYLENE)/BRU(BENZENE RECOVERY UNIT) PLANT LP STEAM BASIC DESIGN	Jun,2009~Oct,2009	E
141	GS CALTEX	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Apr,2009~Apr,2010	E. PS
140	LG CHEM	LGDS PLANT 154KV INCOMING PANEL & NEW ESTABLISHMENT AND INNOVATION ACTIVITY TECHNICAL SUPPORT & CONSULTING	Mar,2009~Mar,2010	E
139	HYUNDAI OIL BANK	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Mar,2009~Mar,2010	E
138	METS	STEAM GENERATOR PROJECT	Mar,2009~Mar,2009	E
137	DAESUNG GAS	GN2 GAS LINE EXTENSION	Feb,2009~Apr,2009	E. PS. CS
136	KUMHO E&C	MDI-PH DESIGN/MATERIALS	Feb,2009~Jan,2000	E. PS. CS
135	YCOGEN	OSBL STEAM SUPPLY PIPE RACK	Jan,2000~Apr,2009	E
134	DAELIM INDUSTRIAL	PP#4(POLYPROPYLENE) E-1401 CAPA-UP	Jan,2000~Feb,2009	E. PS
133	DAELIM INDUSTRIAL	INDUSTRIAL ESTATE COMMON PIPE RACK CONSTRUCTION	Dec,2008~May,2009	E. PS. GA
132	LG CHEM	LG CHEM FURNACE EXTENSION PROJECT	Nov,2008~Dec,2009	E
131	GS E&C	MTBE(METHYL TERTIARY BUTYL ETHER) EXPANSION PROJECT	Nov,2008~Nov,2009	Р
130	DAELIM INDUSTRIAL	PB(POLY BUTENE) PLANT C4 TRANSFER PIPE RACK	Nov,2008~May,2009	E. GA
129	GS E&C	LG CHEM M3 PROJECT	Oct,2008~Jun,2010	P. PS
128	JUNG WON CMS	DEOKYANG ENERGEN YEOSU PLANT PI	Oct,2008~Apr,2009	E. GA
127	LG CHEM	SBS(STYRENE BUTADIENE STYRENE) 60,000TON BASIC PACKAGE	Oct,2008~Feb,2009	E
126	LG CHEM	DONGNAM CHEM UTILITY & EO(ETHYLENE OXIDE) SUPPLY & RAW -C5 PRODUCT UNIT ESTABLISHMENT	Oct,2008~Dec,2008	E
125	GS E&C	LG MMA MTBE(METHYL TERTIARY BUTYL ETHER) EXPANSION PROJECT	Oct,2008~Nov,2008	E. PS
124	GS E&C	KKPC INDUSTRIAL WATER PREPROCESSING SYSTEM	Sep,2008~Jan,2000	E
123	GS E&C	HONAM B-PROJECT MECHANICAL,PI ,CIVIL ENGINEERING	Sep,2008~Nov,2008	E. PS
122	ксс	ELECTRODELESS RAMP CHANGE CONSTRUCTION - 1ST	Jul,2008~Jul,2018	E
121	AIR LIQUIDE KOREA	DBS #1 PROJECT	Jul,2008~Sep,2009	E. PS

No.	Client	Project	Period	Scope
120	GS E&C	LG CHEM BUTENE-1 PROJECT	Apr,2008~Jun,2009	E. PS
119	GS CALTEX	PKG BOILER EXPANSION RELAY COORDINATION	Apr,2008~Oct,2008	E. PS
118	LG CHEM	PE(POLYETHYLENE) PLANT	Apr,2008~Aug,2008	E
117	KUMHO PETRO CHEM	KP SETP II PLANT UNDERGROUND PIPE REPLACEMENT	Apr,2008~May,2008	E
116	HYUNDAI OIL BANK	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Mar,2008~Mar,2009	E
115	HYUNDAI OIL BANK	ALKYLATE TANK ESTABLISHMENT	Mar,2008~Mar,2009	E. GA
114	HANWHA CHEM	[YEOSU CA] CAUSTIC SODA STORAGE/SHIPPING CAPA.UP A/R	Mar,2008~Nov,2008	E
113	SHINHAN ENG	HEAVY OIL COMBUSTOR BOILER & INSTALLATION CONSTRUCTION	Mar,2008~Mar,2008	E
112	GS E&C	NO.3 HOU(HEAVY OIL UPGRADING) PROJECT	Feb,2008~Dec,2010	E. PS. GA
111	SAMSUNG EVERLAND	KPIC NEW HEATER EXTENSION	Feb,2008~Mar,2009	E
110	HONAM PETRO CHEM	ENGINEERING GENERAL SPEC STANDARD WORK	Jan,2000~Jan,2010	E
109	GS E&C	ATMOSPHERE EMISSION PRESSURE VALVE IMPROVEMENT PROJECT	Jan,2000~Aug,2008	E. PS
108	LG CHEM	BR PLANT DEBOTTLENECK	Jan,2000~Apr,2008	E. PS
107	H-PLUS	HPC 2-PLANT WASTEWATER TREATMENT SYSTEM	Jan,2000~Apr,2008	E. PS. GA
106	HYUNDAI ENG	DS MMA D-PROJECT CONSTRUCTION	Dec,2007~Apr,2009	E
105	GS E&C	LPC REVAMPING PROJECT	Dec,2007~Jun,2008	E. PS
104	LG CHEM	KOSEP HIGH PRESS STEAM ESTABLISHMENT	Nov,2007~Apr,2008	E
103	LG CHEM	NBR PLANT DEBOTTLENECK	Nov,2007~Mar,2008	E
102	GS E&C	NO.3 HOU(HEAVY OIL UPGRADING) PROJECT INTERCONNECTION PIPERACK & OSBL PIPE RACK	Nov,2007~Feb,2008	E. PS. GA
101	H-PLUS	HSR & REFORMATE TANK VOC REDUCE UNIT	Nov,2007~Nov,2007	E
100	DAESHIN ENG	(D) T-606 VOC DERIVED FUEL SYSTEM	Oct,2007~Dec,2007	E
99	DOOSAN MECATEC	CMP PROJECT	Sep,2007~Jul,2008	E. GA
98	KOREA CARBON BLACK	STEAM SALES PROJECT	Jul,2007~Mar,2008	E
97	H-PLUS	GS CALTEX PRODUCT DOCK VRU	Jul,2007~Dec,2007	E
96	RIDONG CHEM	BFW PUMP & AIR COMP. ESTABLISHMENT	Jul,2007~Dec,2007	E
95	LG CHEM	L-LDPE(LOW DENSITY POLYETHYLENE) PLANT ELASTOMER PROCESS REVAMPING PROJECT	Jun,2007~Oct,2007	E
94	LG CHEM	SM(STYRENE MONOMER) PLANT TRA SYSTEM	Jun,2007~Sep,2007	E
93	HANWHA E&C	LD1 TUBULAR EXPANSION PROJECT	Mar,2007~Jul,2008	E. PS
92	KUMHO POLY CHEM	ENGINEERING FOR CONSTRUCTION OF TPV(THERMO PLASTIC VULCANIZATE) PRODUCTION FACILITIES	Mar,2007~Sep,2007	E. P
91	KUMHO POLY CHEM	FLARE WATER SEAL DRUM	Feb,2007~May,2007	E

No.	Client	Project	Period	Scope
90	BOC GAS KOREA	ASU #2 N2 & PA HEADER LINE	Feb,2007~Feb,2007	E
89	GS E&C	LPC REVAMPING PROJECT	Jan,2000~May,2008	E. PS
88	CHEIL INDUSTRIES	PC PLANT	Dec,2006~Dec,2018	E. PS
87	LG CHEM	H.P ETHYLENE TANK & L.P ETHYLENE TANK	Dec,2006~May,2007	E
86	GS E&C	NCC(NAPHTHA CRACKING CENTER) REVAMPING PROJECT 3D MODELING (NCC, BRU, BD)	Nov,2006~Feb,2007	E. PS
85	GS E&C	LPC NCC(NAPHTHA CRACKING CENTER) PROJECT 3D MODELING (NCC,BRU,BD)	Nov,2006~Feb,2007	Р
84	E1	SEOK HWA SA LPG SUPPLY PIPE RACK FEASIBILITY STUDY	Nov,2006~Jan,2000	E
83	BOC GAS KOREA	SEOSAN H2 PLANT LINE BURNER CHANGE	Nov,2006~Dec,2006	E
82	HONAM PETRO CHEM	C4 PRODUCT SHIPPING UNIT	Nov,2006~Dec,2006	E
81	GS CALTEX	MATERIALS MANAGEMENT SUPPLY	Oct,2006~Aug,2008	E. PS
80	GS E&C	LPC NCC(NAPHTHA CRACKING CENTER) PROJECT	Oct,2006~Nov,2006	E. PS
79	HONAM PETRO CHEM	HPEO CAPA. UP & SEG,CO2 REMOVE UNIT	Sep,2006~Nov,2007	E
78	CHEIL INDUSTRIES	YEOSU INDUSTRIAL ESTATE DOCK LOADING ARM INSTALLATION	Sep,2006~Dec,2006	E. GA
77	LG CHEM	BR PLANT CATALYST MODIFIER UNIT ENGINEERING	Aug,2006~Nov,2006	E
76	SEONGDONG INDUSTRIAL	YM-3PROJECT MTBE(METHYL TERTIARY BUTYL ETHER) 10`` PIPE RACK	Jul,2006~Dec,2006	E. GA
75	SAMYANG KASEI	6TH INCREASE PRODUCTION PROJECT	Jul,2006~Nov,2006	E
74	LG CHEM	STEAM SYSTEM IMPROVE PROJECT	Jul,2006~Aug,2006	E
73	CLEAN AIR WORLD	GS CALTEX ORDER/VOCS REDUCTION FACILITIES (2ND)	Jun,2006~Aug,2006	E
72	LG PETRO CHEM	HDPE FLARE GAS WITHDRAW PROJECT	May,2006~Dec,2006	E. PS. CS
71	EXERGY ENG	TVR(THERMAL VAPOR RECOMPRESSION) UNIT (325C CONNECTION)	May,2006~Jun,2006	E. PS
70	LG CHEM	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Apr,2006~Jun,2007	E
69	CHEIL INDUSTRIES	PC(POLY CARBONATE) PLANT MEASUREMENT & RAMP	Apr,2006~May,2006	E
68	GS E&C	HOU(HEAVY OIL UPGRADING) PROJECT TIE PIPE RACK	Mar,2006~Dec,2007	E. PS
67	LOTTE PETRO CHEM	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Mar,2006~Feb,2007	E
66	GS E&C	OMAN AROMATICS PROJECT	Feb,2006~Feb,2007	E. PS
65	LG CHEM	VCM/EDC TANK ESTABLISHMENT	Feb,2006~Apr,2006	E
64	GS E&C	PIPING DESIGN FOR LG CHEM DAESAN REVAMPING PROJECT	Jan,2000~May,2007	E. PS
63	CLEAN AIR WORLD	GS CALTEX SHIPPING ON THE SE VRU UNIT FOUNDATION INVESTIGATION	Jan,2000~May,2006	E
62	SAMSUNG EVERLAND	YNCC #1 NEW HEATER	Dec,2005~Oct,2006	E
61	LG PETRO CHEM	JUNG-HEUNG WHARF SHIPMENT PIPING DESIGN	Dec,2005~Jun,2005	E

No.	Client	Project	Period	Scope
60	CHEMBIO TECHNOLGY	GS CALTEX MOGAS TANK SECTION 2ND RECOVERY	Sep,2005~Nov,2005	E
59	LG CHEM	NPG LYN PROJECT BASIC PACKAGE	Aug,2005~Dec,2005	Е
58	LOTTE E&C	NHCHEM STEAM SUPPLY UNIT	Aug,2005~Nov,2005	E
57	CLEAN AIR WORLD	GS CALTEX VOC & ODOR REMOVAL SYSTEM DETAIL ENG	Jul,2005~Aug,2005	E
56	LG CHEM	OS PLANT LP ETHYLENE TANK 1EA ESTABLISHMENT	May,2005~Jul,2006	E
55	CAMBIOTECH ASIA	GS CALTEX AROMATIC DAY TANK SECTION RECOVERY SYSTEM	May,2005~Sep,2005	E
54	LG CHEM	LGDSPC 3D PROJECT	May,2005~Sep,2005	E. PS
53	YNCC	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	Apr,2005~May,2006	E
52	KOSEP	YEOSU THERMOELECTRIC POWER PLANT HEAVY OIL ON THE SEA SUPPLY LINE PIPE RACK	Feb,2005~Jul,2005	E
51	SAMSUNG EVERLAND	YNCC STEP3 MODI PROJECT	Jan,2000~Aug,2005	E
50	CLEAN AIR WORLD	76-WASTEWATER INCINERATOR WET EP INSTALLATION CONSTRUCTION	Jan,2000~Mar,2005	E
49	KUMHO MITSUI CHEM	CONTROL ROOM AMPHIBIOUS PRESSURE PLANT REMODELING PROJECT	Dec,2004~Jan,2010	E. P. C
48	GS E&C	LYN PROJECT	Dec,2004~Jul,2005	E. PS
47	COLUMBIAN CHEMIKOREA	LGM EXPANSION SYSTEM	Dec,2004~May,2005	E
46	JAEWON INDUSTRIAL	METHANOL LINE PIPING (18", 4KM) DETAIL ENG	Nov,2004~Mar,2005	E. C. GA
45	KUMHO POLY CHEM	PRE-TREATMENT OF INDUSTRIAL WATER PROJECT	Oct,2004~Feb,2005	E. P. C
44	LG CHEM	AD 2004 PROJECT DETAIL ENG	Oct,2004~Nov,2004	E. GA
43	CLEAN AIR WORLD	HYDROGEN SUPPLY LINE INSTALLATION FEASIBILITY STUDY	Oct,2004~Nov,2004	E
42	POSCO ICT	KKPC S-LINE ABSORPTION HEAT PUMP 1EA	Oct,2004~Oct,2004	E
41	KICOX	YEOSU INDUSTRIAL UNION PIPE RACK EXPANSION PROJECT	Sep,2004~Jan,2000	E
40	GS E&C	4AA PROJECT PIPING MTO & PLOT PLAN DWG	Sep,2004~Oct,2004	E
39	CAMBIOTECH ASIA	GS CALTEX MOGAS TANK SECTION 1ST RESTORE CONSTRUCTION	Jun,2004~Oct,2004	E. PS
38	KUMHO POLY CHEM	PILOT PLANT PROCESS REVISION PROJECT	Jun,2004~Sep,2004	E. P. C
37	TECHWIN	GS CALTEX OIL RTO UNIT	Jun,2004~Aug,2004	E
36	CLEAN AIR WORLD	GS CALTEX VOC & CDOR REMOVAL SYSTEM DETAIL ENG	Jun,2004~Jul,2004	E
35	DAELIM INDUSTRIAL	KUMHO KPA(Ⅲ) PROJECT	May,2004~Mar,2005	E. PS
34	GS E&C	E-CHEM PROJECT DETAIL ENG	May,2004~Dec,2004	E. PS
33	CLEAN AIR WORLD	GS CALTEX VOC & CDOR MOVAL SYSTEM DETAIL ENG	May,2004~Jun,2004	E. PS
32	LG PETRO CHEM	CLARIFIER POND REVISION	May,2004~May,2004	E
31	LG CHEM	POM(POLYACETAL) MONOMER PROCESS IMPROVEMENT PROJECT	Apr,2004~Dec,2004	E

No.	Client	Project	Period	Scope
30	LG CHEM	OXO-ALCOHOL 2-EH ON THE SEA 8" LINE PIPE RACK	Apr,2004~Aug,2004	E
29	LG CHEM	EBNW PROJECT DETAIL ENG	Mar,2004~May,2004	E
28	LG CHEM	PS S-2 DEBOTTLENECKING	Jan,2000~Sep,2003	E
27	KUMHO PETRO CHEM	KP-1 PLANT FINISHING UNIT	Dec,2003~Apr,2004	E
26	COLUMBIAN CHEM KORE	A DETAIL ENGINEERING FOR SAFETY PLATFORM	Nov,2003~Dec,2003	E
25	HANWHA E&C	HCC CAUSTIC SODA & BRAIN PI INSTALLATION & CONSTRUCTION	Sep,2003~Dec,2004	E. GA
24	sĸ	BD STEAM LINE CONSTRUCTION	Sep,2003~Feb,2004	E
23	COLUMBIAN CHEM KORE	A LGM SYSTEM	Aug,2003~Mar,2004	E
22	LG CHEM	PS S-2 D/B DETAIL ENGINEERING	Jul,2003~Sep,2003	E
21	GS E&C	CAA D/B PROJECT	Jun,2003~Dec,2003	E. PS
20	LG CHEM	NPG) PURIFICATION PROCESS REVAMPING PROJECT	Apr,2003~Sep,2003	E
19	COLUMBIAN CHEM KORE	A ENGINEERING FOR LONG GAP MILL SYSTEM	Apr,2003~Jun,2003	E
18	HANWHA CHEM	PVC EXPANSION PROJECT DETAIL ENG	Mar,2003~Mar,2004	E
17	GS E&C	BD(BUTADIENE) KLP PROJECT	Mar,2003~Jul,2003	E. PS
16	SHINHAN ENG	HANWHA CHEM CA ENERGY BOILER PROJECT	Feb,2003~Jun,2003	E
15	TK INFO.TECHNOLOGY	ECONOMIZER WITHDRAW, VCM(F-420)	Feb,2003~Feb,2003	E
14	CHEIL INDUSTRIES	ARTIFICIALITY MARBLE TRANSFER CW & HW PIPE	Nov,2002~Apr,2003	E
13	HANYANG ARCHITECTUR	E YEOSU LG MMA 2-PLANT OXYGEN & NITROGEN GAS SUPPLY	Oct,2002~Dec,2002	E
12	SAMSUNG EVERLAND	YNCC #1 PLANT HEATER MODIFICATION	Sep,2002~Nov,2002	E
11	SAMSUNG EVERLAND	LD HEAT OF REACTION RECOVERY ENERGY SAVING UNIT	Aug,2002~Oct,2002	E
10	YNCC	S-MR201A INLET LINE EB FEED LINE PI STRESS ANALYSIS	Aug,2002~Sep,2002	E
9	LG CHEM	PIPE RACK 9-SECTION, BD PI STRESS ANALYSIS	Jul,2002~Aug,2002	E
8	LG CHEM	PVC L-1,3 SCREEN INSTALLATION	Jul,2002~Aug,2002	E
7	YNCC	3B4T FEED PREHEATER	Jul,2002~Jul,2002	E
6	HANWHA CHEM	NTO PLANT CAPA. UP PROJECT	May,2002~Aug,2003	E
5	LG CHEM	GS CALTEX METHANOL SUPPLY PIPE RACK	May,2002~Sep,2002	E
4	LG MMA	YEOSU PLANT PMMA 20,000TON EXTENSION PROJECT	May,2002~Aug,2002	E
3	LG CHEM	CONCRETE FLUIDIZATION EXCIPIENT PRODUCTION PROJECT	May,2002~Jul,2002	E
2	DAEWOO ENG	NH CHEM PHOSPHORIC ACID IMPORT & EXPORT FACILITIES	Mar,2002~Nov,2002	E
1	LG E&C	LG MMA YM-2 PROJECT WWT ENGINEERING	Feb,2002~Apr,2002	E

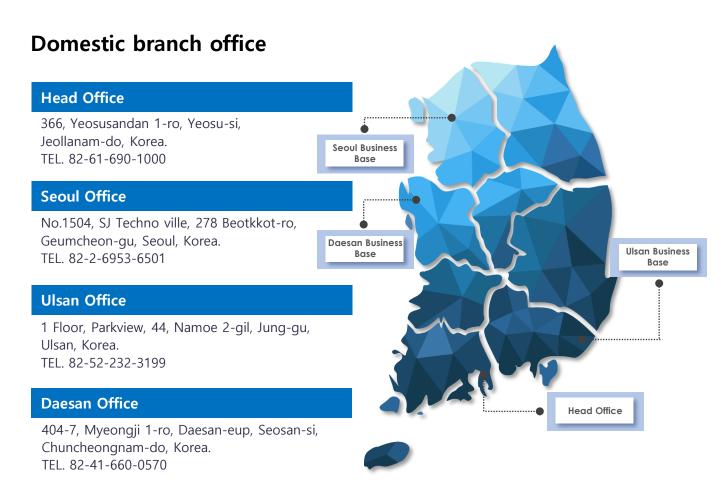
MVR				
No.	Year	Project	Client	Scope
11	2016	1st factory 1-Line MVR installation construction (use of 96.6°C wasted gas producing 2.4kg/m²G 16.5Ton/hr Steam)	KUMHO POLY CHEM	E.P.C
10	2016	MVR(IV) Project (excessive steam10T/hr 0.4kg/m³G→2.8kg/m³G pressure increased and produced)	KUMHO P&B CHEM	E.P.C
9	2015	KP-I Plant 2-Line MVR Project (use of low heat source – produce 0.88kg/m'G 22.4Ton/hr Steam)	KUMHO POLY CHEM	E.P.C
8	2015	MVR(II) Project (use of excessive Hot Oil and produce 4.5kg/m²G 25Ton/hr Steam)	KUMHO P&B CHEM	E.P.C
7	2015	MVR Package manufacturing and installing construction (50Ton/hr 6.9kg/m²G→21kg/m²G, 12Ton/hr 9.8kg/m²G→35.2	KUMHO MITSUI CHEM	E.P.C
6	2014	kg/mi'G pressure increased) MPC Reaction Tower MVR construction (use of wasted heat and producing 10.5kg/mi'G 12.6Ton/hr Steam)	LOTTE CHEM	E.P.C
	2014	Samsung General Chemical MVR Package construction (excessive steam 50Ton/hr 2.5kg/m²G→5.4kg/m²G pressure	SAMSUNG TECHWIN	E.P.C
		increased and produced) New factory waste heat recollecting system construction (use of 98°C wasted heat, producing 1.2kg/m²G 15.8Ton/hr		
4	2012	Steam)	KUMHO POLY CHEM	E.P.C
3	2012	MDI 50,000MT MVR construction (excessive steam 6.6Ton/hr 7kg/m²G →18kg/m²G pressure increased and produced)	KUMHO MITSUI CHEM	E.P.C
2	2010	Introduced MVR on the solvent recollecting process (use of 92°C wasted gas and produce 2.9kg/m²G 6.3Ton/hr Steam)	KUMHO POLY CHEM	E.P.C
1	2009	Introduced R-Line MVR System (use of 102°C wasted hot water and produce 6kg/m²G 12.9Ton/hr Steam)	KUMHO PETRO CHEM	E.P.C
LDAR	2			
No.	Year	Project	Client	Scope
9	2006	VCM LDAR System Monitoring Work	HANWHA PETRO CHEM	Е
8	2005	VCM manufacturing team LDAR system Monitoring Work	HANWHA PETRO CHEM	Е
7	2005	LG Chemical LDAR supplying contract	SK C&C	E
6	2004	Hanwha Petrochemical LDAR Inventory.TAG installation	SK C&C	E
5	2002	Oil refining 1 process /MTBE process, LDAR Inventory service	LG CALTEX	E
4	2002	LDAR Inventory service (Oil refining 2~5 team, RFCC)	LG CALTEX	E
3	2001	#2 aromatics plant LDAR Inventory work	LG CALTEX	E
2	2001	No.1 aromatics shipment facility LDAR Inventory	LG CALTEX	E
1	2000	Inventory work for the introduction of LDAR Program on No.1 Aromatics	LG CALTEX	Е
VCU				
No.	Year	Project	Client	Scope
1	2018	Design, manufacturing and installation of VCU facility (1 st & 2 nd terminal) (2500Nm²/hr, 3800Nm²/hr)	KOREA VOPARK TERMINAL	E.P.C
VRU			Ol: 4	0
No.	Year	Project	Client	Scope
10	2018	VRU installation (use of VRU and recollection of VOC after removal of storage tank RTO) (1466 m²/hr)		
			LOTTE CHEM	E.P.C
9	2018	VRU Installation Engineering service (2 nd terminal CI Gas handling)	KOREA VOPAK TERMINAL	E
8	2018 2017	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240 m²/hr)	KOREA VOPAK TERMINAL S-OIL	E E.P.C
8 7	2018 2017 2012	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240 m²/hr) Incheon VRU expansion design (480 m²/hr)	KOREA VOPAK TERMINAL S-OIL GS CALTEX	E E.P.C E
8 7 6	2018 2017 2012 2011	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr)	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX	E E.P.C E
8 7 6 5	2018 2017 2012 2011 2007	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr)	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG	E E.P.C E E
8 7 6 5 4	2018 2017 2012 2011 2007 2007	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr) Construction supervision service for the VRU power supply construction of product dock	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG GS CALTEX	E E.P.C E E E
8 7 6 5 4 3	2018 2017 2012 2011 2007 2007 2006	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr) Construction supervision service for the VRU power supply construction of product dock Foundation survey and detailed design for the installation of GS Caltex marine shipment VRU facility (8500m3/hr)	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG GS CALTEX CLEAN AIR WORLD	E E.P.C E E E E E
8 7 6 5 4 3 2	2018 2017 2012 2011 2007 2007 2006 2006	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr) Construction supervision service for the VRU power supply construction of product dock Foundation survey and detailed design for the installation of GS Caltex marine shipment VRU facility (8500m3/hr) Piping design review for the GS-CALTEX oil refining aromatics Day Tank Area VRU environmental facility	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG GS CALTEX CLEAN AIR WORLD TECHWIN E&C	E E.P.C E E E E E E E
8 7 6 5 4 3 2	2018 2017 2012 2011 2007 2007 2006	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr) Construction supervision service for the VRU power supply construction of product dock Foundation survey and detailed design for the installation of GS Caltex marine shipment VRU facility (8500m3/hr)	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG GS CALTEX CLEAN AIR WORLD	E E.P.C E E E E
8 7 6 5 4 3 2	2018 2017 2012 2011 2007 2007 2006 2006 2005	VRU Installation Engineering service (2 nd terminal CI Gas handling) Mokpo oil storage VRU Package (handling of oil mist being generated when shipping out the product (240m²/hr) Incheon VRU expansion design (480m²/hr) Busan VRU expansion construction design (480m²/hr) Detailed design of GS Caltex product dock VRU installation (8500m3/hr) Construction supervision service for the VRU power supply construction of product dock Foundation survey and detailed design for the installation of GS Caltex marine shipment VRU facility (8500m3/hr) Piping design review for the GS-CALTEX oil refining aromatics Day Tank Area VRU environmental facility	KOREA VOPAK TERMINAL S-OIL GS CALTEX GS CALTEX H-PLUS ENG GS CALTEX CLEAN AIR WORLD TECHWIN E&C TECHWIN E&C	E E.P.C E E E E E E
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💥 E : Engineering, P : Procurement, PS : Procurement Service, C : Construction, CS : Construction Supervision, FE : Field Engineer

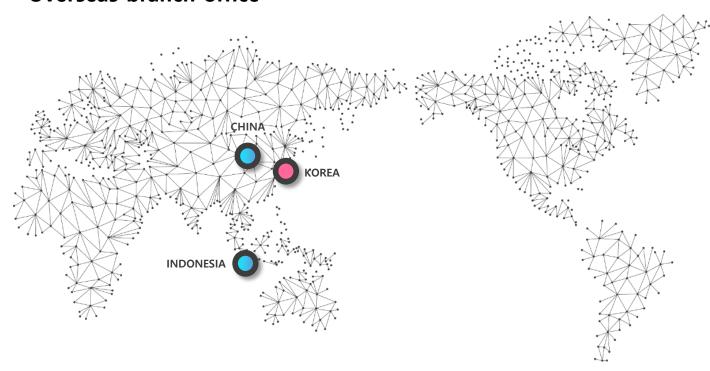
KOREA ELECTRIC POWER

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2015 150MW CO₂ capture technology module project



Overseas branch office



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