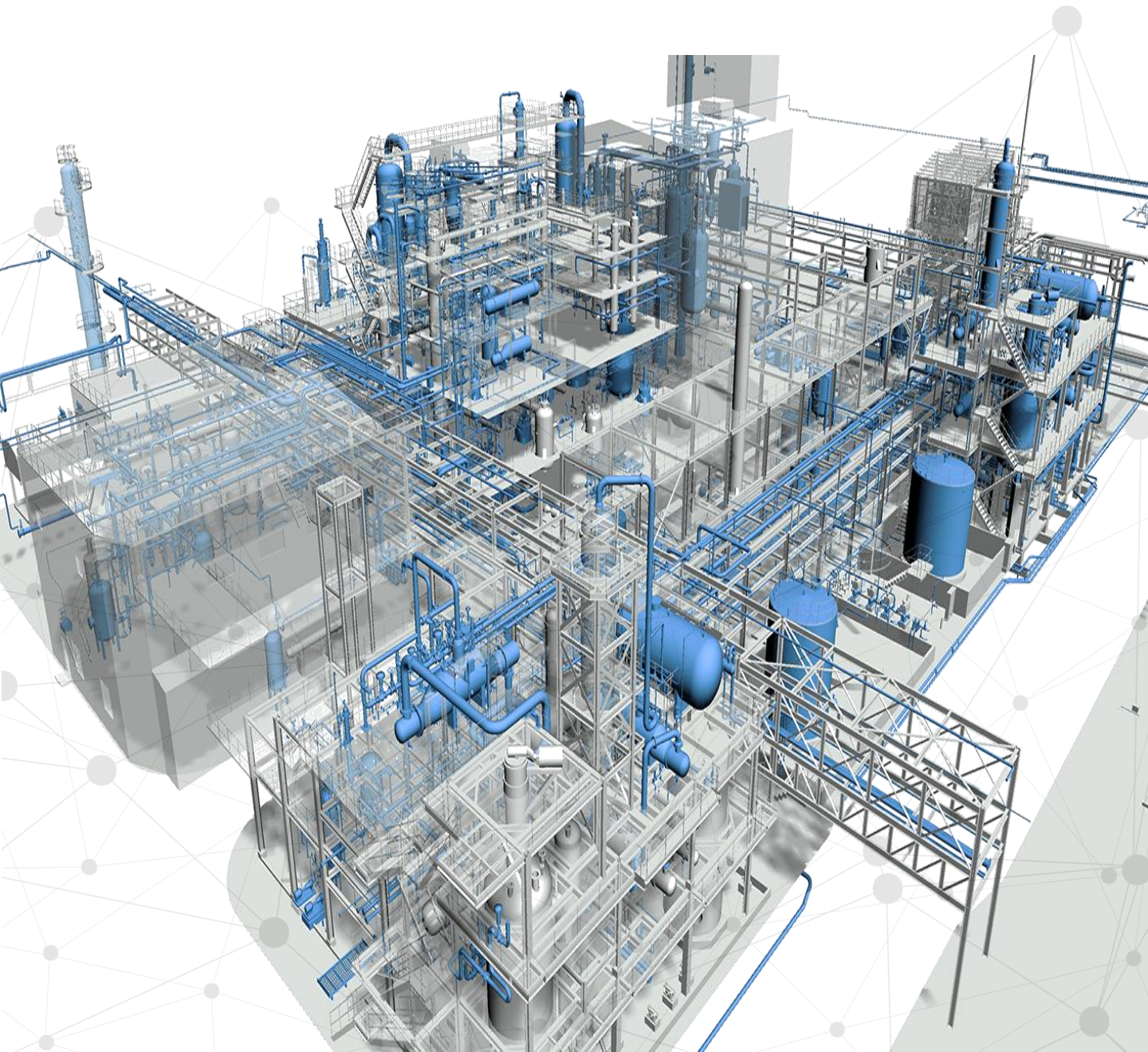


WE HAVE THE SOLUTION

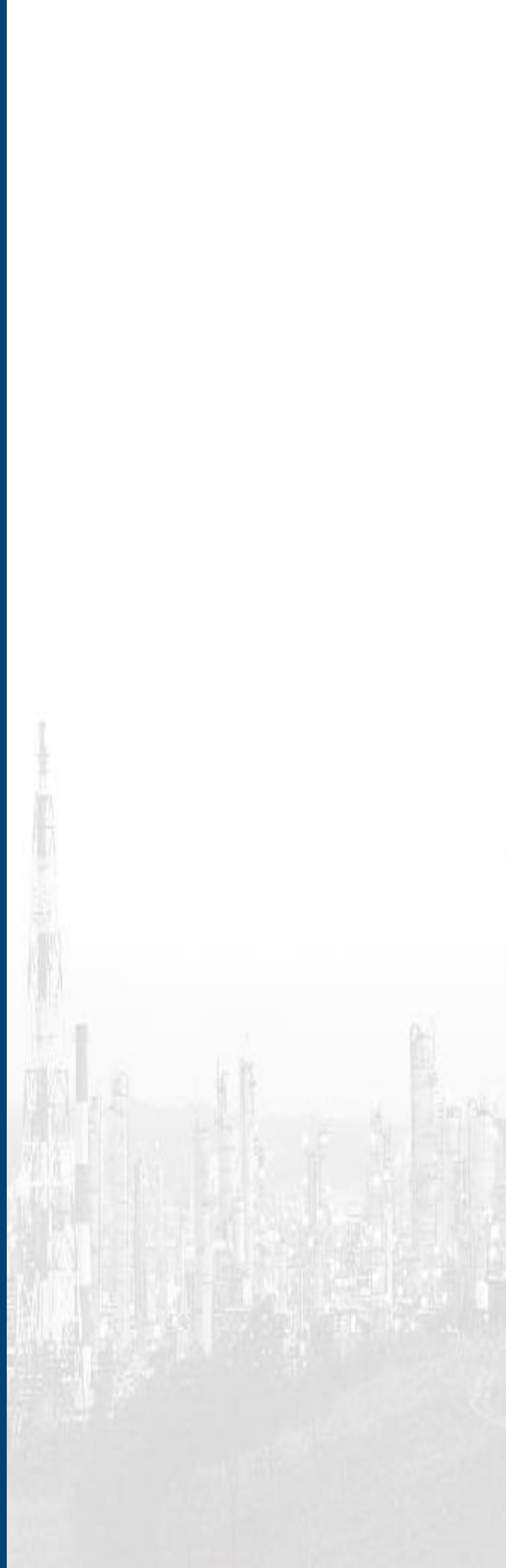


HI-TECH ENG



목 차

- 01 개요
- 02 연혁
- 03 서비스 범위
- 04 지속가능 경영
- 05 주요 사업
 - 화공플랜트사업
 - 환경/에너지사업
 - 모듈화/3D Scanning
- 06 업·면허 및 인증
- 07 Software & 3D Laser Scan
- 08 보유 실적



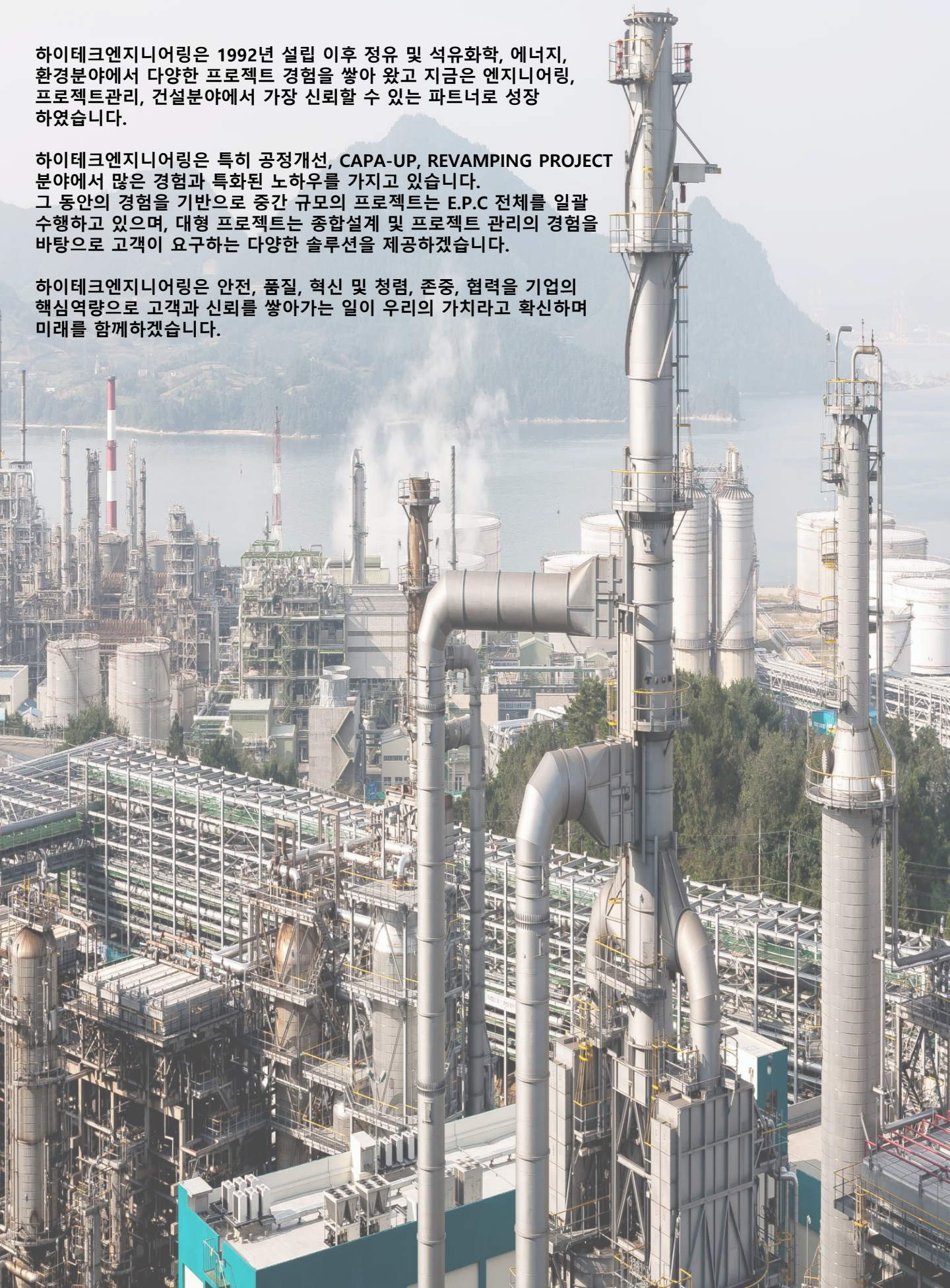
고객의 미래와 비전을 함께 하겠습니다.

하이테크엔지니어링은 1992년 설립 이후 정유 및 석유화학, 에너지, 환경분야에서 다양한 프로젝트 경험을 쌓아 왔고 지금은 엔지니어링, 프로젝트관리, 건설분야에서 가장 신뢰할 수 있는 파트너로 성장하였습니다.

하이테크엔지니어링은 특히 공정개선, CAPA-UP, REVAMPING PROJECT 분야에서 많은 경험과 특화된 노하우를 가지고 있습니다.

그 동안의 경험을 기반으로 중간 규모의 프로젝트는 E.P.C 전체를 일괄 수행하고 있으며, 대형 프로젝트는 종합설계 및 프로젝트 관리의 경험을 바탕으로 고객이 요구하는 다양한 솔루션을 제공하겠습니다.

하이테크엔지니어링은 안전, 품질, 혁신 및 청렴, 존중, 협력을 기업의 핵심역량으로 고객과 신뢰를 쌓아가는 일이 우리의 가치라고 확신하며 미래를 함께하겠습니다.



일반현황

- 회 사 명 (주)하이테크엔지니어링
- 대 표 자 장 영
- 대표주소 전남 여수시 여수산단1로 366 (화치동 1392번지)
- 설립일자 1992.02 (1995.12.07 법인 설립 등기)
- 주요사업 산업생산시설의 엔지니어링 및 종합건설업
- 자 본 금 22억 7,855 만원
- 대표전화 061-690-1000
- 홈페이지 WWW.HTENC.CO.KR
- 슬 로 건 We have the Solution!



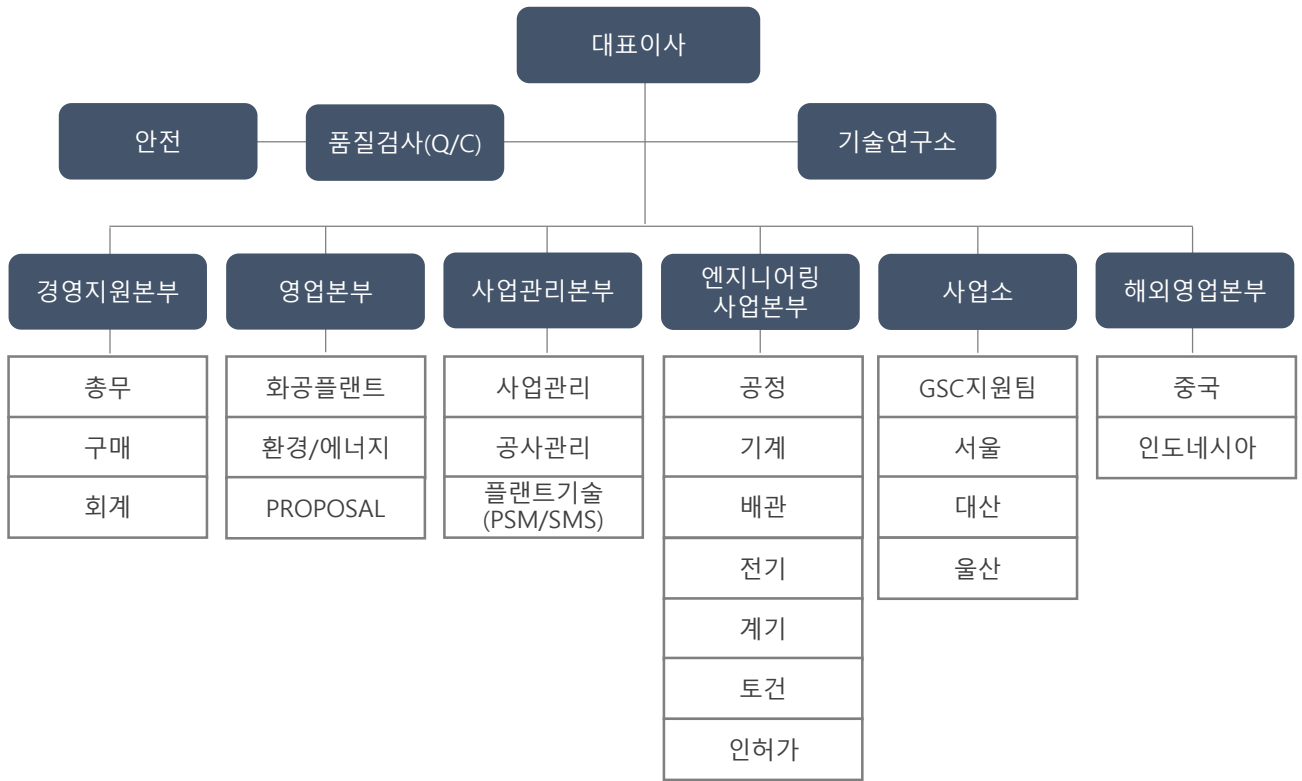
[2019년 결산기준]	매출액	신용평가등급	현금흐름등급
	1,402억	BBB+	B

경영이념

효율적 시스템과 차별화된 기술력을 바탕으로 진화하며 고객과 함께 성장하는 기업



조직도



임직원

하이테크엔지니어링은 고객의 미래에 함께할 인재들이 전문성과 경쟁력을 갖추고 도전하고 있습니다.

68%

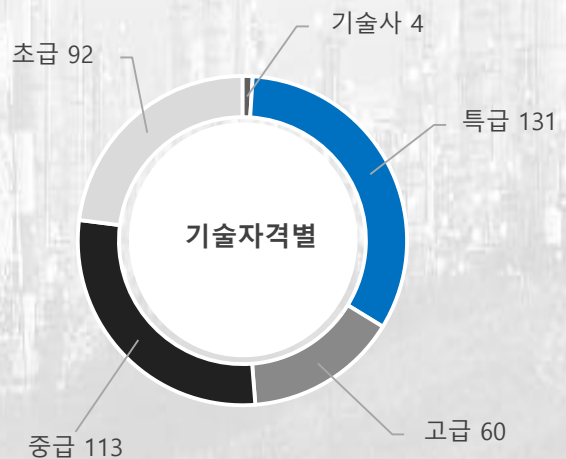
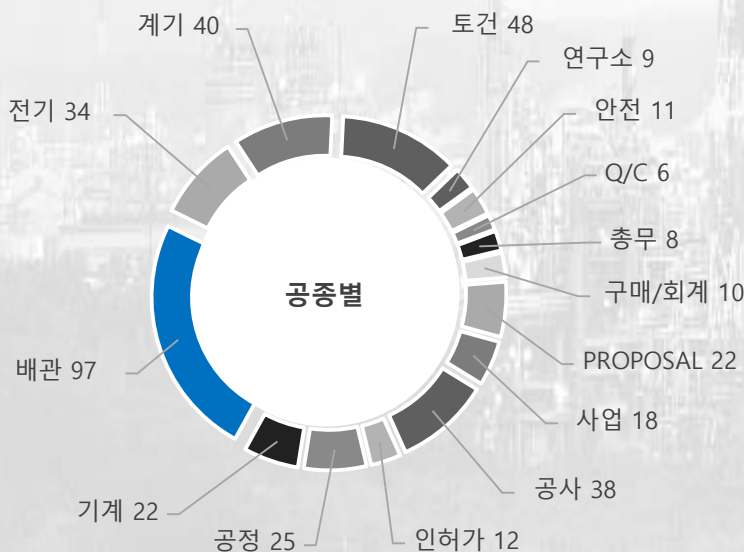
설계 인원 비중

34%

기술사 및 특급 비중

400

직원수(명)





1990년대

- 1992 하이테크엔지니어링 설립
- 1994 GS칼텍스/한화케미칼 협력업체 등록
- 1995 호남석유화학 협력업체 등록
하이테크엔지니어링 법인 설립 등기
- 1998 GS건설 협력업체 등록



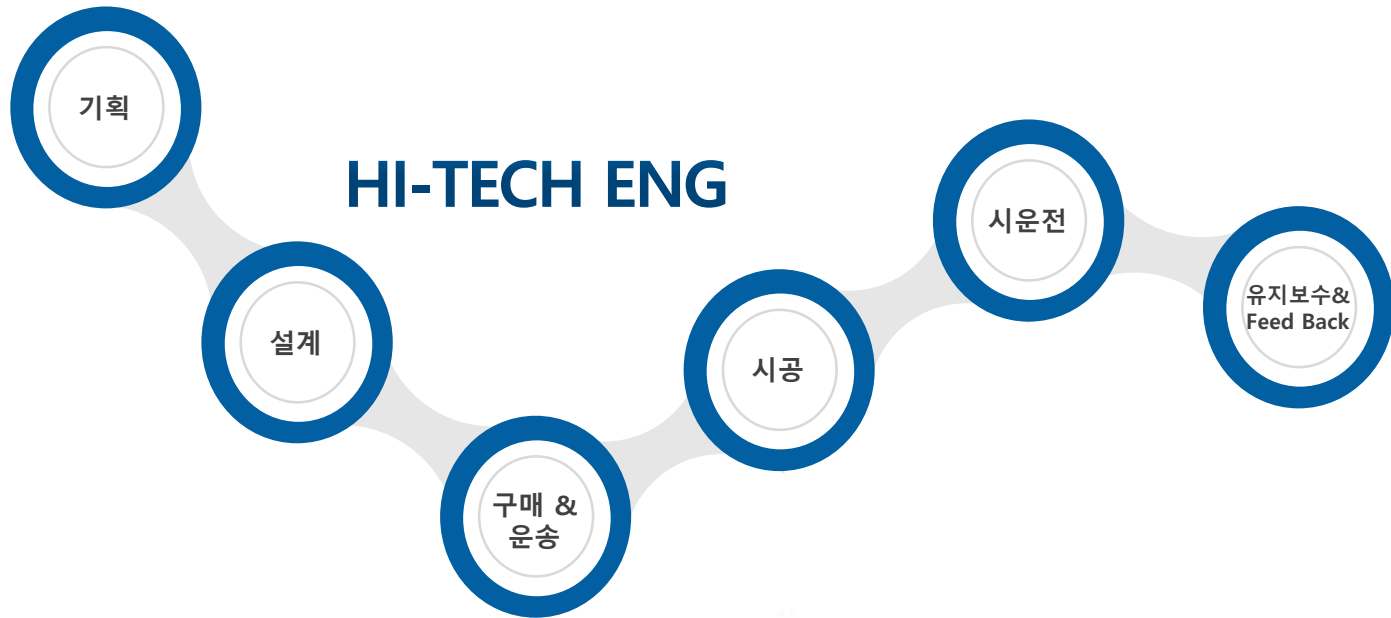
2000년대

- 2000 ISO 9001 품질경영 인증
- 2001 3차원 설계 시스템 도입(PDMS)
- 2002 엔지니어링 활동주체 신고
- 2003 전력시설물 종합감리업 등록
- 2004 소방시설 설계업 등록
3차원 설계 시스템 도입(PDS)
- 2005 대산사업소 개설
3D LASER SCAN 도입
서울사업소 개설
기술연구소 설립 승인
지식경제부 장관상 수상
- 2007 본사 이전
- 2008 에너지절약 전문기업(ESCO) 등록



2010년대~현재

- 2010 전기공사업 등록
- 2011 산업환경설비공사업 등록
전문소방시설공사업 등록
- 2012 OHSAS 18001 안전보건경영 인증
ISO 14001 환경경영인증
울산사업소 확장 이전
해외건설업(산업환경설비,전기) 등록
- 2013 건축공사업 등록
전력시설물 전문1종 설계업 등록
- 2014 기계설비공사업 등록
소프트웨어사업자 신고
- 2015 장외영향평가서 작성 전문기관 등록
- 2016 측량업 등록
(공공/지하시설물/수치지도제작업)
산업통상자원부장관 표창장 수상
특허 등록(PDMS DB Management System)
- 2017 특허 등록(저유탱크 용접부결함
검사용 로봇)
- 2018 특허 등록(휴먼 리소스 관리 시스템)
- 2019 ISO 45001 안전보건경영 인증
벤처기업 인증
안전진단 전문기업(건축) 등록
가족친화기업 인증
- 2020 대기 환경전문공사업 등록
토목공사업 등록



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

QUALITY MANAGEMENT SYSTEM

품질경영시스템

하이테크엔지니어링은 고객이 원하는 상품과 서비스의 목표 달성을 위해 **국제품질보증 인증(ISO 9001)** 시스템을 도입하여 체계적이고 지속적인 품질관리 활동을 실천하고 있습니다.

하이테크엔지니어링은 플랜트 (정유, 석유 화학, 일반 화학, 환경 및 산업 플랜트 포함), 토목, 건축 및 철 구조물, 기계, 배관, 전기, 계기 및 소방작업에 대한 프로젝트 관리, 예비 타당성 조사, 엔지니어링, 설계, 조달, 건설 및 시운전 지원 서비스에 대한 품질관리를 엄격한 국제규격의 품질관리로 최적의 품질역량과 서비스를 제공하고 있습니다.

1. 모든 활동, 공중, 제품, 서비스 및 지원업무 과정에서 내 외부 이슈 및 리스크를 파악, 실행, 품질향상을 최우선으로 고려함으로써 고객의 만족도를 높일 수 있는 최고의 제품과 서비스를 제공한다.
2. 품질 성과를 끊임없이 모니터링하고, 효과적인 품질경영 프로그램을 개발, 시행함으로써 지속적인 개선이 이루어 지도록 한다.
3. 고객 및 이해관계자와의 의사소통체계를 구축하여, 의견수렴 및 정보를 제공함으로써 품질경영 활동에 대한 투명성을 확보한다



ENVIRONMENT MANAGEMENT SYSTEM

환경경영시스템

환경영향의 고려

설계, 기자재 구매 및 현장 시공 등의 전 과정에서 환경 악 영향을 사전에 파악하여 제거 또는 최소화 합니다.

위험성 평가 수립

설계, 기자재 구매 및 현장 시공 등의 전 과정에서 위험요인을 분류/식별 및 평가하고 방안을 선택하여 위험성을 최소화합니다.

환경법규 및 요구사항의 만족

해당 국가의 환경법규를 지키고, 고객 및 지역 주민의 요구사항을 만족시키기 위해 최선을 다합니다. 이를 위해 경 법규 관리대장을 작성하여 주기적인 교육을 실시하고 있습니다.

환경 관리

효과적인 건설현장 환경경영시스템을 구축하고, 현장의 주기적인(일일/주간/월간) 점검을 통해 환경 문제 발생을 사전 방지합니다.

실적 검토 및 개선

환경경영위원회의 개최를 통해 환경경영의 운영 및 효과를 검토하며, 성과를 증대하기 위해 지속적인 개선을 실시합니다.



HEALTH & SAFETY MANAGEMENT SYSTEM

안전보건경영시스템

하이테크엔지니어링의 모든 구성원들은 투철한 책임감으로 안전경영을 실천합니다. 안전에 관한 명확한 기준을 정하고 그대로 실천하며 프로젝트 품질을 향상시켜 나갑니다. 임직원 모두가 참여하는 안전보건 활동을 통해 안전한 일터, 깨끗한 일터, 행복한 일터 실현으로 기업의 사회적 책임을 다하고 있습니다.

하이테크엔지니어링이 안전을 강조하는 이유는 단지 프로젝트를 성공적으로 마무리하기 위함이 아니라, 그것이 사업 수행의 가장 기본적인 덕목이기 때문입니다



1. 안전보건활동은 모든 경영의사 결정 및 우리의 행동 중에서 최우선으로 한다.
2. 체계적이며 계량적으로 분석한 위험성 평가와 일관성 있는 안전 개선 활동을 통하여 사고발생 위험과 리스크가 제거된 안전한 근무조건이 조성될 수 있도록 맡은 바 책무에 전력을 다한다.
3. 안전, 보건 활동의 실적분석 결과를 반영한 방침을 전 임직원과 이해 관계자에게 공유하고 안전보건관리의 핵심적 역량 강화 및 목적을 달성 하도록 한다.
4. 하이테크엔지니어링의 통합적인 안전, 보건시스템을 통하여 모든 협력 업체 임직원과 그들의 안전, 보건개선 활동을 향상시키고 관리한다.
5. 안전, 보건 관련 법규를 준수하여 사회 공동체 발전 및 사회적 책임을 다하는 기업이 되도록 최선을 다한다.

CERTIFICATE

품질경영 (ISO 9001)

안전보건경영 (ISO 45001)

환경경영 (ISO 14001)

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 112191-2012-46-KOR-KAB Initial certification date: 20 July 2019 Valid: 24 July 2019 - 23 July 2021

This is to certify that the management system of

HI-TECH Engineering Co., Ltd.
366, Yeosu-sandan 1-ro, Yeosu-si, Jeollanam-do, Republic of Korea

has been found to conform to the Quality Management System standard:
ISO 9001:2015, KS Q ISO 9001:2015

This certificate is valid for the following scope:
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

Place and date:
Seoul, 28 August 2019

For the issuing office:
DNV GL - Business Assurance
187, Kyongcho-ro, 1, Jung-gu, Seoul, Korea

KAB-OC-10
Accredited by Member of the IAF for ISO

IAF
Management Representative

None of the members of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Quality Management System certification body (Accreditation Number: KAB-OC-10).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as an Environmental Management System certification body (Accreditation Number: KAB-EC-13).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as an Occupational Health and Safety Management System certification body (Accreditation Number: KAB-OC-27).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Safety Management System certification body (Accreditation Number: KAB-OC-27).

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 112191-2012-46-KOR-KAB Initial certification date: 02 March 2019 Valid: 24 July 2019 - 02 March 2021

This is to certify that the management system of

HI-TECH Engineering Co., Ltd.
366, Yeosu-sandan 1-ro, Yeosu-si, Jeollanam-do, Republic of Korea

has been found to conform to the Occupational Health and Safety Management System standard:
ISO 45001:2018

This certificate is valid for the following scope:
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

Place and date:
Seoul, 24 July 2019

For the issuing office:
DNV GL - Business Assurance
187, Kyongcho-ro, 1, Jung-gu, Seoul, Korea

KAB-OC-27
Accredited by Member of the IAF for ISO

IAF
Management Representative

None of the members of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as an Occupational Health and Safety Management System certification body (Accreditation Number: KAB-OC-27).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Safety Management System certification body (Accreditation Number: KAB-OC-27).
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DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 112191-2012-46-KOR-KAB Initial certification date: 02 March 2019 Valid: 24 July 2019 - 02 March 2021

This is to certify that the management system of

HI-TECH Engineering Co., Ltd.
366, Yeosu-sandan 1-ro, Yeosu-si, Jeollanam-do, Republic of Korea

has been found to conform to the Environmental Management System standard:
ISO 14001:2015, KS I ISO 14001:2015

This certificate is valid for the following scope:
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Place and date:
Seoul, 24 July 2019

For the issuing office:
DNV GL - Business Assurance
187, Kyongcho-ro, 1, Jung-gu, Seoul, Korea

KAB-EC-13
Accredited by Member of the IAF for ISO

IAF
Management Representative

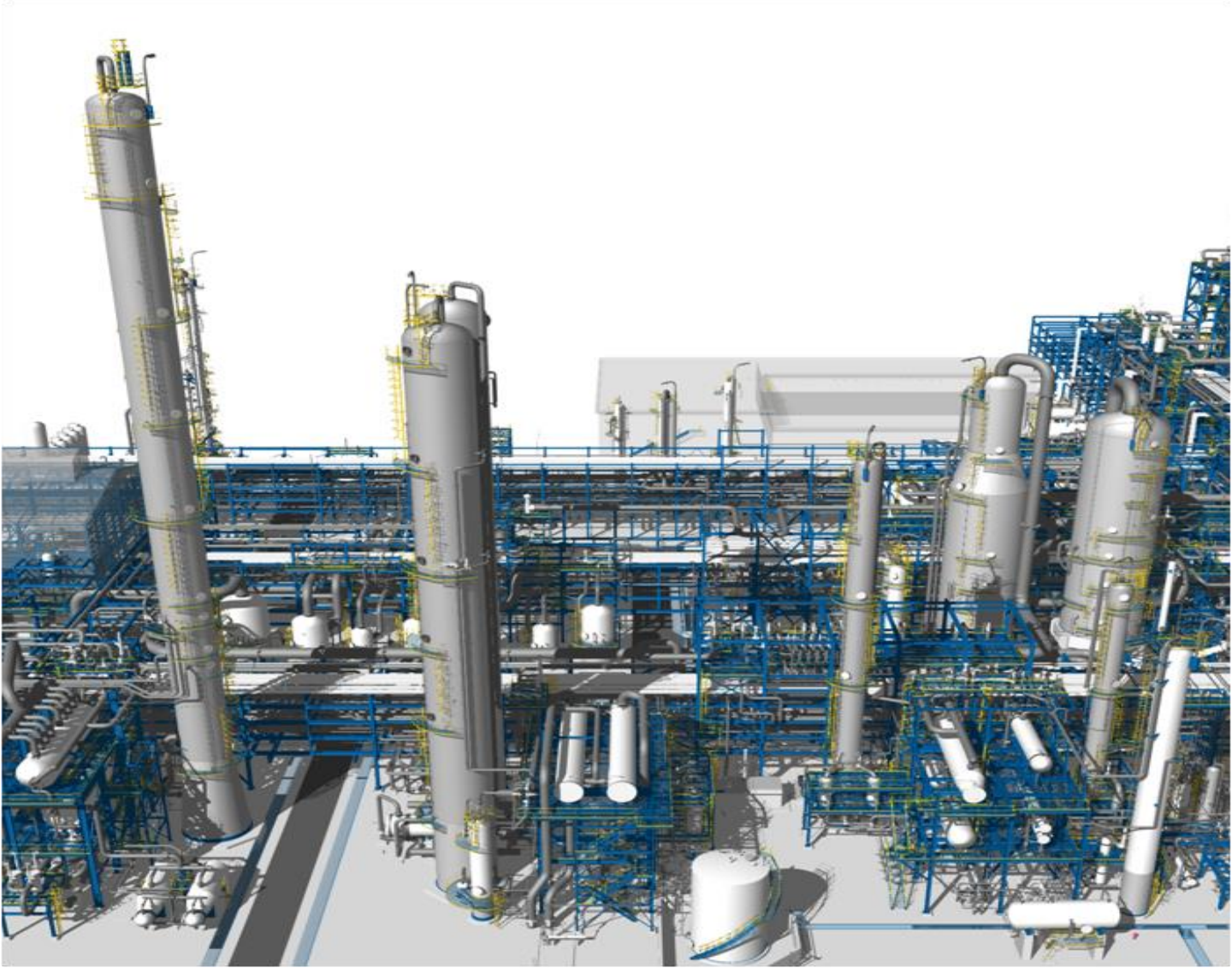
None of the members of conditions as set out in the Certification Agreement may render this Certificate invalid.
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DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as an Occupational Health and Safety Management System certification body (Accreditation Number: KAB-OC-27).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Safety Management System certification body (Accreditation Number: KAB-OC-27).
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Quality Management System certification body (Accreditation Number: KAB-OC-10).

화공플랜트사업

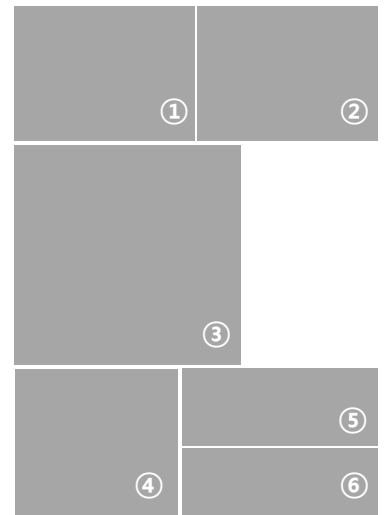
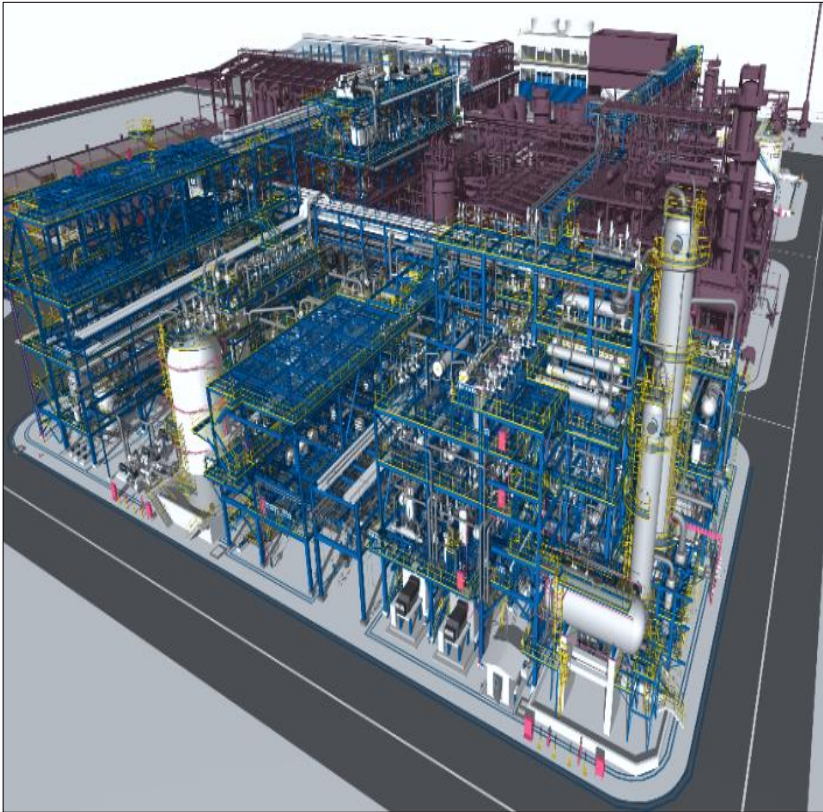
화공플랜트사업은 Oil & Gas, 정유, 석유화학, 일반 화학 등의 핵심 설계 기술과 폭 넓은 경험 그리고 우수한 기술인력을 확보해야만 수행 가능한 플랜트 사업입니다.

하이테크엔지니어링은 국내 대표적인 정유, 석유화학 회사인 GS칼텍스, 현대오일뱅크, 금호석유화학, 금호미쓰이화학, 롯데케미칼, 한화솔루션 등 많은 국내기업 및 해외 프로젝트의 설계, 구매 서비스 분야에서 쌓아온 경험과 기술력을 바탕으로 프로젝트 기획, 타당성 조사, 상세설계, 기자재조달, 시공관리 및 시운전 등 모든 분야에서 성공적인 프로젝트를 수행하고 있습니다.

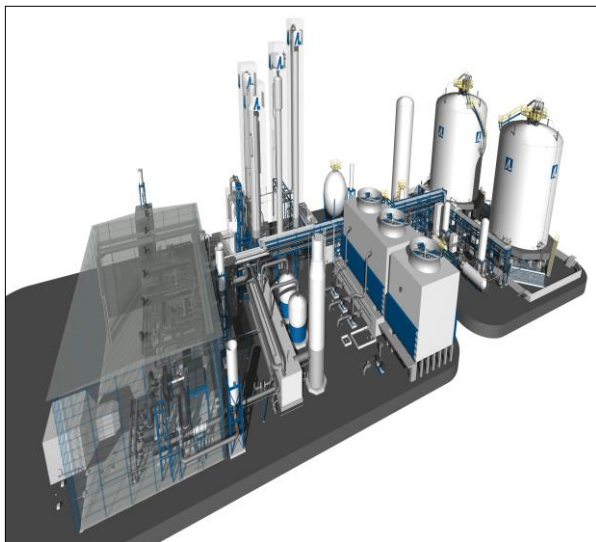
화공 플랜트의 품질 경쟁력과 해외 진출 역량을 한층 강화하여, 진정한 글로벌 엔지니어링 회사로 발전할 것 입니다.



화공플랜트사업 3D Model View



- ① Ethylene 800,000MTPA Plant (New)
- ② Liquid Epoxy Resin 45,000MTPA Plant (New)
- ③ EPM & EPDM 60,000MTPA Plant (New)
- ④ Dangin Gas Plant(ASU 770T/D, LFU 450T/D, Storage & Backup Unit) (New)
- ⑤ Refinery Plant CDU Project (Revamping)
- ⑥ Storage Tank Project (New)



환경/에너지사업

환경/에너지사업은 환경보존과 에너지 자원의 효율적 활용을 통해 온실가스 배출 및 환경오염의 발생을 최소화하는 녹색성장 사업입니다.

하이테크엔지니어링은 기후변화와 에너지전환 등 글로벌 이슈에 대응하기 위하여 저탄소 친환경기술을 지속적으로 개발하여 추진하고 있으며, 에너지절약전문기업(ESCO)으로 환경 및 신재생, 열병합 발전분야에서 에너지의 효율적인 활용과 절감에도 기여하고 있습니다.

MVR (Mechanical Vapor Recompression) SYSTEM

LDAR (Leak Detection And Repair) SYSTEM

VRU (Vapor Recovery Unit) SYSTEM

VCU (Vapor Combustion Unit) SYSTEM

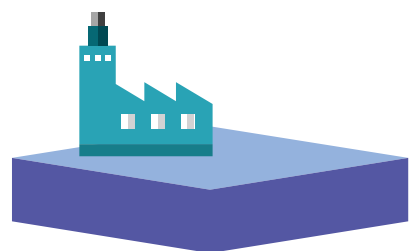
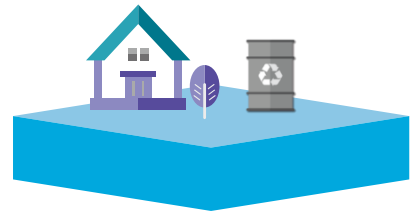
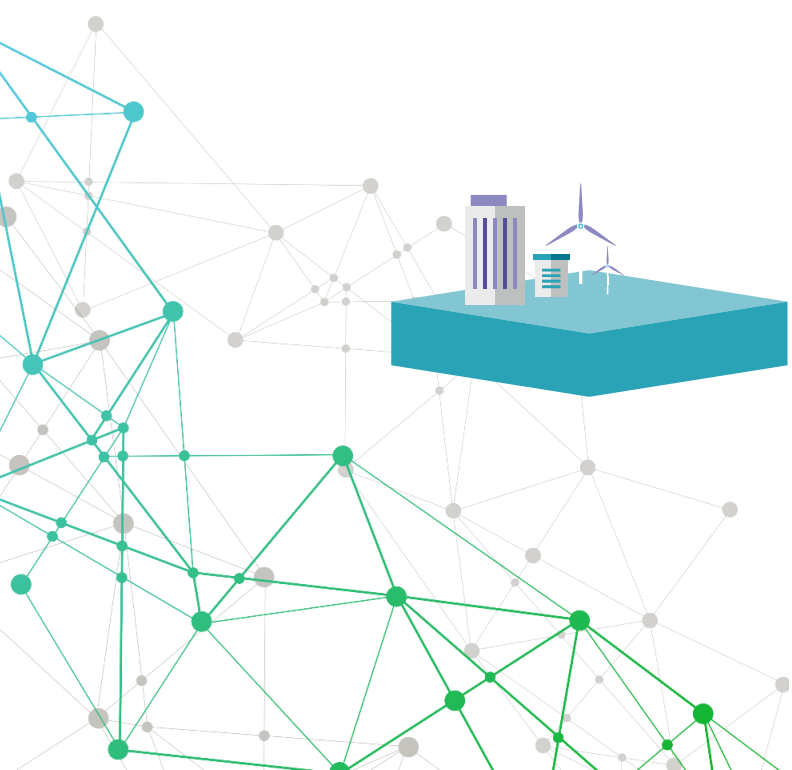
RTO (Regenerative Thermal Oxidizer) SYSTEM

WWT (Waste Water Treatment) SYSTEM

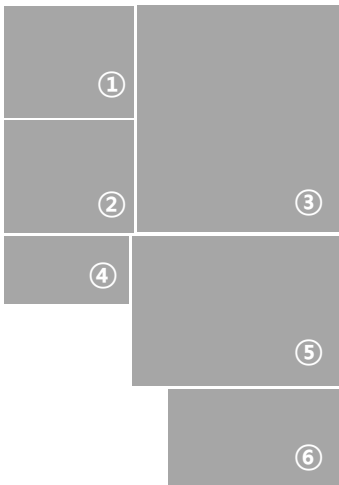
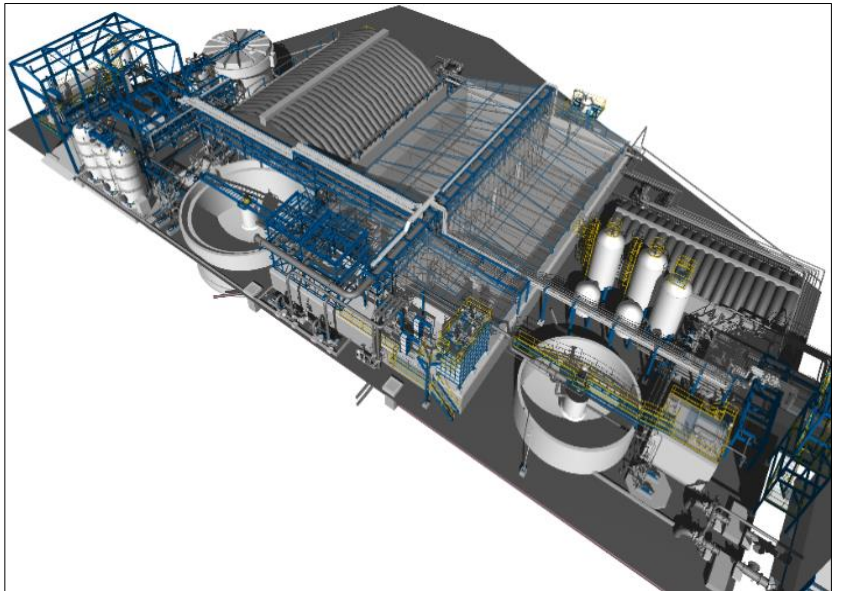
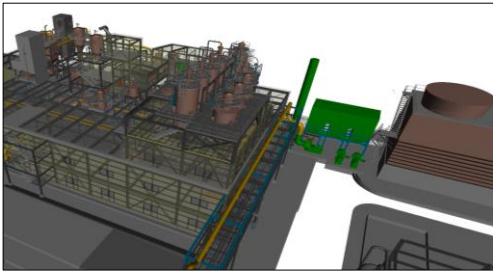
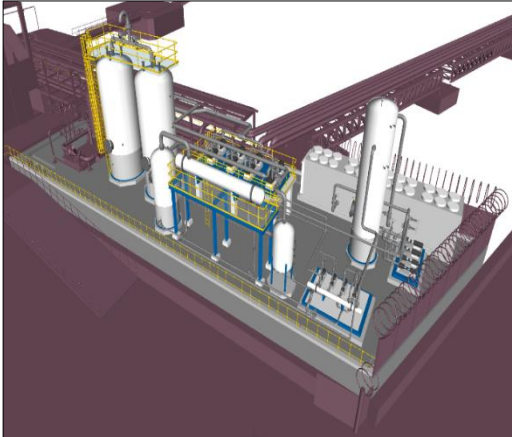
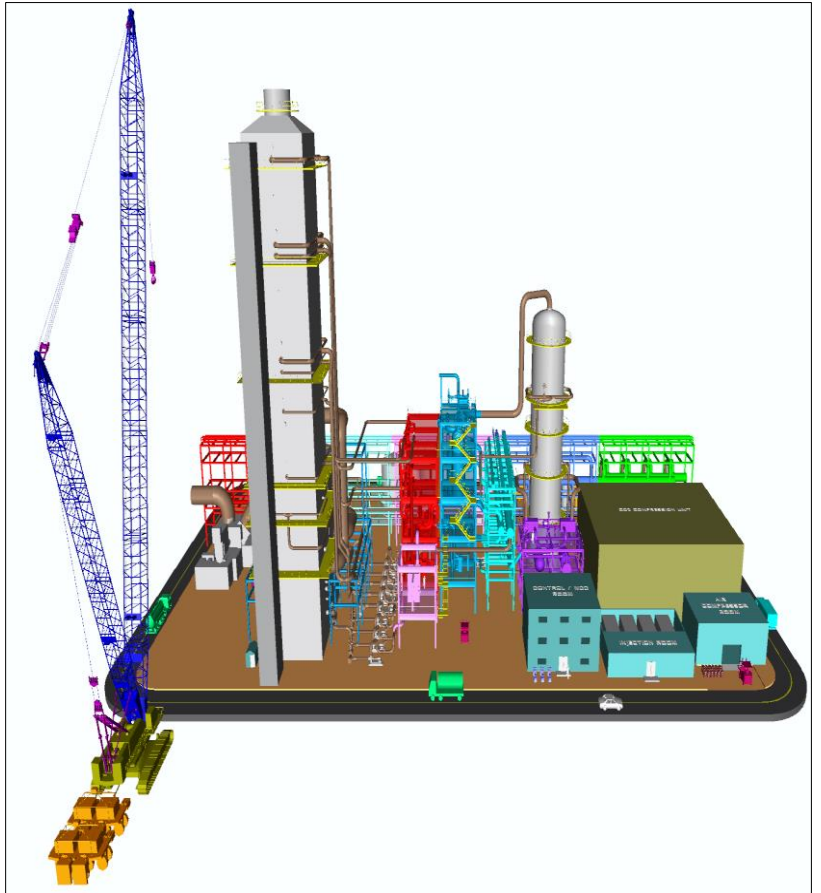
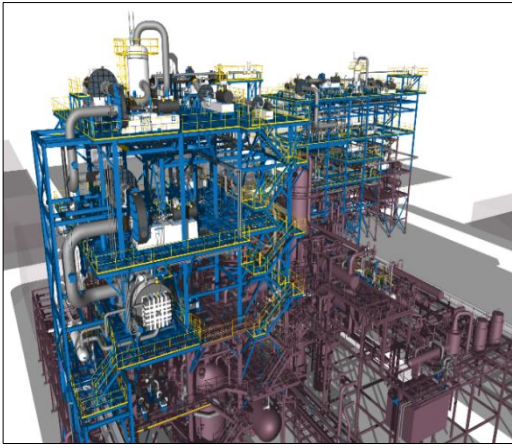
CCS (Carbon Capture Storage) SYSTEM



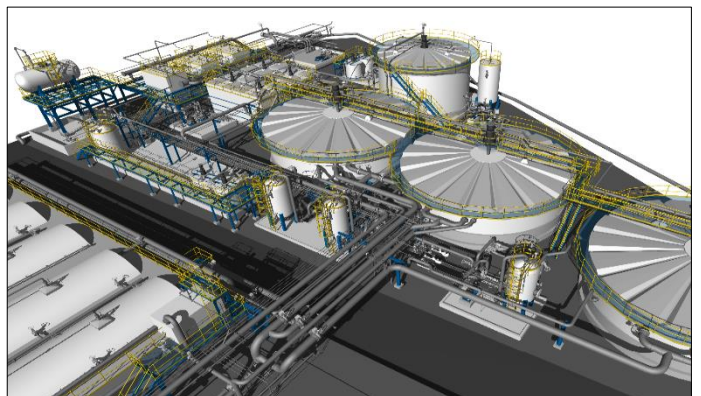
WE
HAVE
THE
SOLUTION



환경/에너지사업 3D Model View



- ① MVR System
- ② VRU System
- ③ 150MW CO2 Capture Technology Module Project
- ④ RTO System
- ⑤ WWT System (Biological Treatment Method)
- ⑥ WWT System (Chemical Treatment Method)



모듈화/3D Scanning

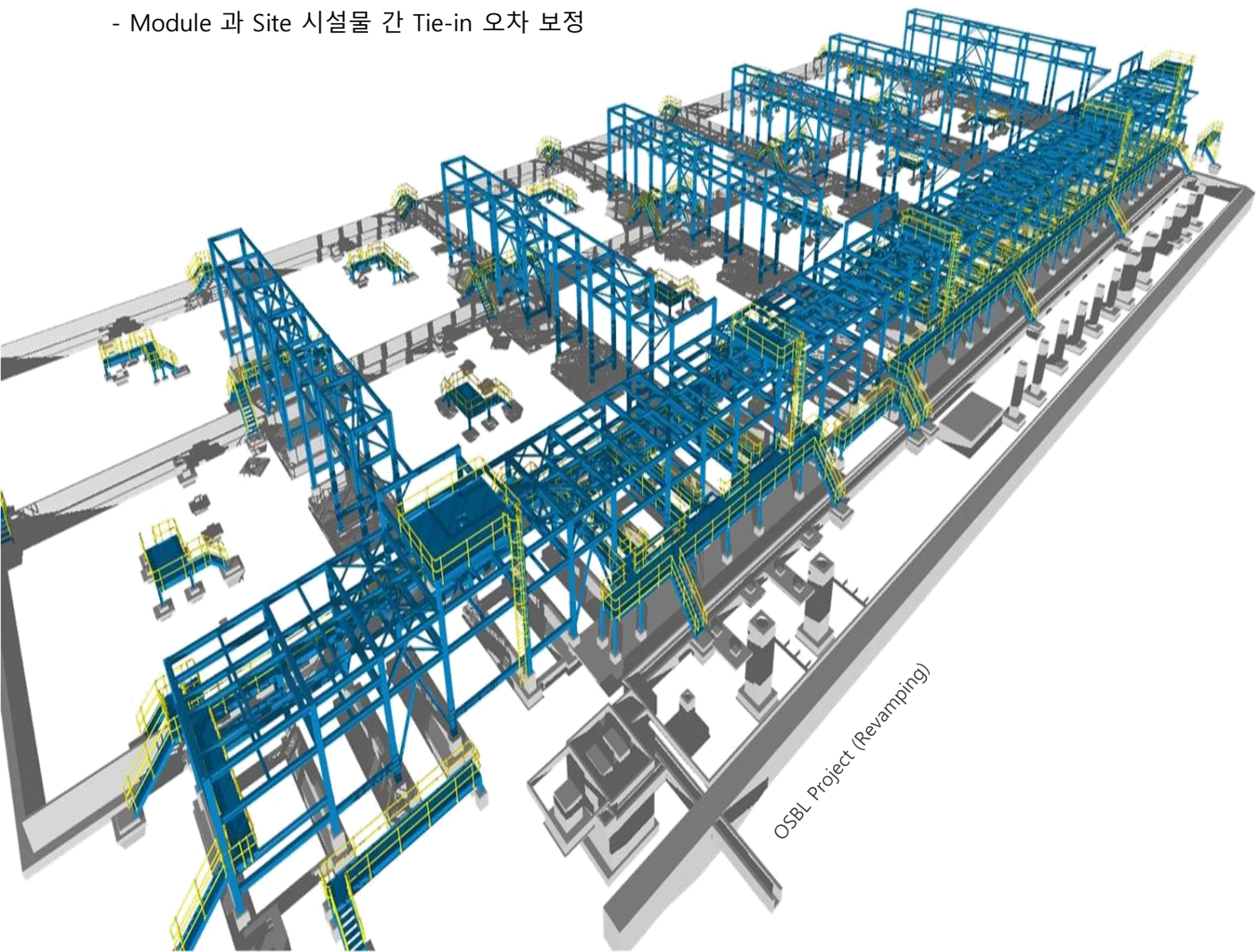
모듈화(Modularization)는 높은 생산성, 고품질 및 작업 안정성을 보증할 수 있는 제작 방식으로 건설기간 단축 및 비용절감을 목적으로 한 건설 시공기술을 말합니다.

특히 플랜트 모듈화는 선박, 자동차, 전자제품등의 제조업에서 발전된 모듈화 기술을 플랜트산업에 특화한 설계 방법과 최적화된 설계 기술을 접목하여 설계/구매/제작/운송 까지의 일원화된 관리를 수행하는 고급 기술 입니다.

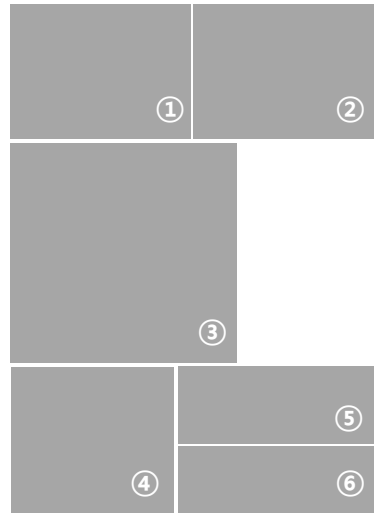
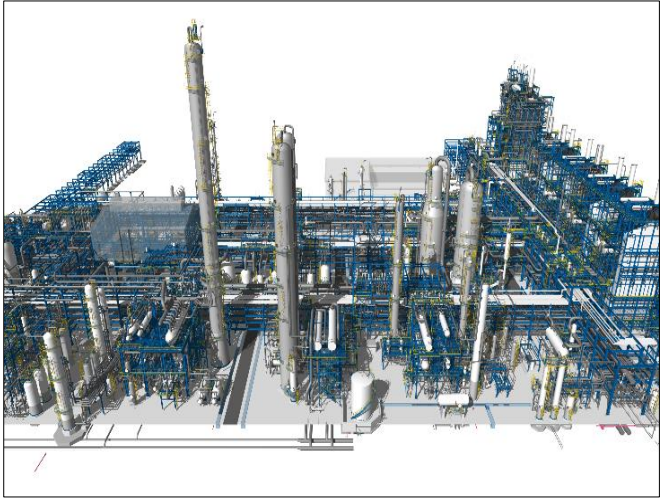
하이테크엔지니어링은 모듈화 설계의 기본인 3D Modeling & Analysis뿐 아니라, 하이테크엔지니어링만의 3D Scanning을 3D Modeling으로 전환하는 기술을 보유하여, Module의 제작 공장과 설치할 현장과의 오차를 보정하고 모듈화 설계를 실행하는 전문기업입니다.

3D Scanning & Modeling

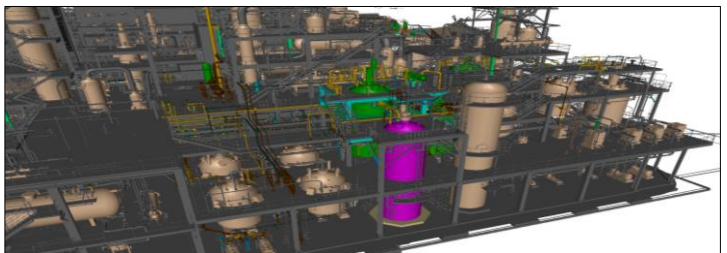
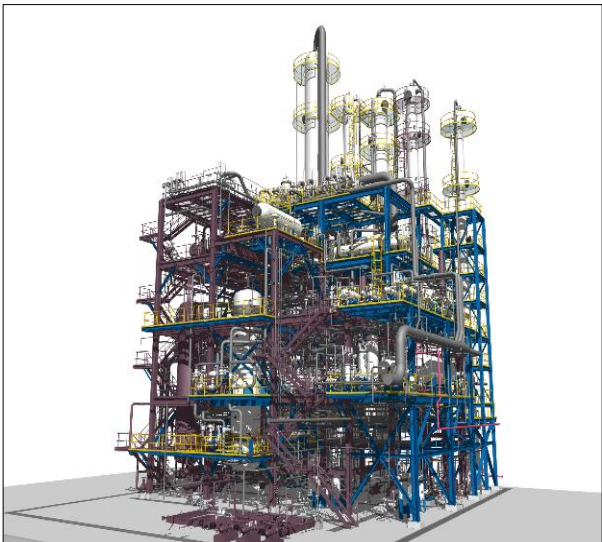
- Modularization 공법의 핵심 기술로서 Site와 Shop의 제작/설치 오차 보정
- 기계장치와 배관, 구조물의 불일치와 간섭 해결
- Repair 최소화를 통해 공기단축 및 비용 절감
- Module 제작 중 변형도 점검, Site 운반/설치 장애 및 간섭 사항 점검
- Module 과 Site 시설물 간 Tie-in 오차 보정



모듈화/3D Modeling&Scan 3D Model View



- ① Daesan NCC, BRU, BD Plant (Revamping)
- ② Daesan NCC Plant (Revamping)
- ③ Yeosu NCC Plant (Revamping)
- ④ Methyl Isobutyl Ketone 55,000MTPA Plant (Revamping)
- ⑤ Solvent Recovery System (Revamping)
- ⑥ Methylene Diphenyl Isocyanate 60,000MTPA Plant (Revamping)



업 · 면허

면허		등록일자
설계업	엔지니어링(전기설비,전기전자응용,화공,설비,구조)	2002.01.21
	건설기술용역업(설계,사업관리-일반)	2019.07.17
	소방시설 (기계,전기)	2010.03.09
	전력시설물 전문1종	2013.11.19
	장외영향평가 전문기업	2015.04.09
	안전진단 전문기업(건축)	2019.12.12
	감리업	종합(전력시설물)
종합공사업	산업·환경설비	2011.04.05
	건축	2013.06.04
	토목	2020.06.24
전문공사업	전기	2010.09.02
	기계설비	2014.10.07
	전문소방시설	2011.04.29
	대기 환경전문	2020.03.16
해외건설업	산업·환경설비	2012.10.23
	전기	2012.10.23
측량업	지하시설물	2016.08.11
	수치지도제작	2016.08.11
	공공	2016.10.07
에너지절약 전문기업(ESCO)		2008.02.28

인증

인증		등록일자
품질경영	ISO 9001:2015	2018.07.20
안전보건경영	ISO 45001:2018 (OHSAS 18001)	2012.03.02
환경경영	ISO 14001:2015	2012.03.02
기업부설연구소		2005.06.30
벤처기업		2019.09.25
가족친화기업		2019.12.13

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

보유장비	제조사
Z+F IMAGER® 5010	Zoller Frohlich
Z+F IMAGER® 5016	Zoller Frohlich
Trimble Mensi GS-200	Trimble



MonoEthyleneGlycol 326MTPA Plant

No.	Client	Project	Period	Scope
415	LG CHEM	FEASIBILITY STUDY FOR NEW PIPE RACK REVAMPING BETWEEN YONGSUNG AND JEOKRYANG COMPLEX	2020.08~2021.02	E
414	DAEA ENERGY	SULFUR SOLIDIFICATION PLANT DESIGN & APPROVAL	2020.07~2021.08	E
413	LG CHEM	FEASIBILITY STUDY FOR NEW/REVAMPING PIPE RACK FOR OUTDOOR OFFICIALS	2020.07~2020.12	E
412	OCI	GUNSAN PLANT, RE CVD THERMAL STRESS ANALYSIS	2020.07~2020.10	E
411	LG CHEM	DETAIL DESIGN & APPROVAL OF BPA HEAVIES	2020.07~2020.12	E
410	S-OIL	EPC WORKS FOR VCU INSTALLATION PROJECT	2020.06~2020.12	E. P. C
409	HANWHA SOLUTION	OA PRODUCTION TEAM 2-EH STORAGE TANK(V-369C) INSTALLATION	2020.06~2021.01	E. P. C
408	HANWHA SOLUTION	OA OXO CATALYST PROCESS INCREASE P&C CONSTRUCTION	2020.06~2021.01	E. P. C
407	GS CALTEX	3RD CONSTRUCTION OF IMPROVEMENT OF ELECTRICAL EQUIPMENT IN LOGISTICS CENTER	2020.04~2020.11	E. P. C
406	KUMHO POLY CHEM	KP-1 RTO-1 INSTALLATION PROJECT	2020.04~2021.12	E. P. C
405	EM TECH	DETAIL ENGINEERING SERVICES RELATED TO JPC-550(1,000 L/HR PROCESS UNIT) AND NEW SITE TANK INSTALLATION PROJECT	2020.05~2021.06	E
404	KUMHO POLY CHEM	METALLOCENE PROCESS BASIC ENGINEERING SERVICE	2020.05~2020.12	E
403	LOTTE E&C	PIPING DESIGN SERVICE DURING LOTTE CHEM D-NC_R PROJECT	2020.05~2020.11	E
402	LOTTE CHEM	NEW INSTALLATION OF D-GE/BDG EXPANSION REACTION FACILITY FOR DAESAN PLANT	2020.03~2021.03	E. P. C
401	WONIK MATERIALS	DETAIL DESIGN FOR E PROJECT IN YANGCHEONG PLANT	2020.03~2021.01	E
400	GS E&C	YEOSU NO.2 COMPLEX PROJECT (PIPING FIELD ENGINEERING)	2020.03~2020.12	FE
399	HANWHA SOLUTION	BASF YEOSU PLANT HCL 35% EXTERNAL NEW PIPING DESIGN & APPROVAL	2020.03~2020.06	E
398	KUMHO MITSUI CHEM	MDI 200,000TONS, CA, HYDROCHLORIC ACID OXIDATION FACILITY BASIC DESIGN	2020.03~2020.06	E
397	KUMHO POLY CHEM	1 PLANT FLARE LOAD SUMMARY & PRESSURE VESSEL INSTALLATION RELATED DESIGN	2020.02~2020.05	E
396	MARINE GLORY	INSTALLATION OF 5 PETROCHEMICAL TANKS & DESIGN OF ADDITIONAL FACILITIES	2020.01~2021.12	E
395	WONIK MATERIALS	DETAIL DESIGN FOR 2,000MTY HIGH PURITY CO2 REFINING & FILLING FACILITY CONSTRUCTION PROJECT	2020.01~2020.03	E
394	LOTTE E&C	LOTTE CHEM INFRA-2 FEED DESIGN	2020.01~2020.03	E
393	HYUNDAI ENERGY	DETAIL DESIGN OF STEAM PIPING INSTALLATION FOR GS CALTEX MFC PLANT	2019.12~2020.01	E
392	DOOSAN HEAVY I&C	CHANGWON HYDROGEN LIQUEFACTION PROJECT APPROVAL & TECHNICAL SERVICE	2019.11~2020.03	E
391	S&I CORP.	LG MMA M2 MTBE(METHYL TERTIARY BUTHYL ETHER) EXPANSION DESIGN	2019.11~2020.12	E

No.	Client	Project	Period	Scope
390	GS E&C	LG CHEM Y2C(YEOSU #2 COMPLEX) SAPO PIER EXTERNAL PIPING CONSTRUCTION	2019.11~2020.09	E. P. C
389	KUMHO P&B CHEM	80,000T/Y KAR(KUMHO ACETONE RECYCLE) PROJECT	2019.10~2021.05	E. P. C
388	HANWHA CHEM	OA PRODUCTION TEAM CATALYTIC PROCESS EXPANSION DESIGN & APPROVAL	2019.10~2021.01	E
387	KUMHO MITSUI CHEM	NEW LOGISTICS BASE CONSTRUCTION	2019.10~2020.08	E. P. C
386	KUMHO PETRO CHEM	SBS(STYRENE BUTADIENE STYRENE) 45,000T REVAMPING PROJECT	2019.10~2020.08	E. P. C
385	YEOSU TECHNICAL DIRECTOR'S COUNCIL	PIPE RACK SAFETY DIAGNOSIS OF EXTERNAL PIPELINES BETWEEN 10-2,3 SECTIONS	2019.10~2020.01	E
384	HYUNDAI ENERGY	AIR LIQUID PIPE RACK STRUCTURE STABILITY REVIEW	2019.10~2019.10	E
383	LG CHEM	DETAILED DESIGN OF VCM1 EDC(ETHYLENE DICHLORIDE) REACTION PROCESS IMPROVEMENT	2019.09~2020.07	E
382	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) OUTSIDE PIPE LINE INSTALLATION WORK	2019.09~2020.11	E
381	E1	BASIC DESIGN OF YEOSU BASE GS CALTEX	2019.09~2019.11	E
380	HYUNDAI ENG	KUMHO P&B CHEM BPA(BISPHENOL-A)-5 PROJECT	2019.08~2020.03	E
379	KUMHO PETRO CHEM	DESIGN & APPROVAL FOR CATALYST MANUFACTURING FACILITIES IN 9 BLOCKS	2019.08~2020.02	E
378	LOTTE E&C	WP4 MTO WORK IN INDONESIA LINE PROJECT	2019.08~2019.10	E
377	LG CHEM	DETAIL DESIGN OF SAP5 POWDER ASSEMBLY BACK-UP SYSTEM CONSTRUCTION	2019.07~2019.12	E
376	DAEWOO PLANT	KPB2 LER(LIQUID EPOXY RESINS) STORAGE TANK 6EA INSTALLATION DESIGN	2019.06~2019.11	E
375	GS CALTEX	DETAIL DESIGN OF LPG PIPE CONSTRUCTION FROM YEOSU PLANT TO E1 YEOSU STATION	2019.05~2019.12	E
374	E1	YEOSU STATION PIPERACK EXTENSION DESIGN PROJECT	2019.05~2019.11	E
373	PMC TECH	TANK REVAMPING PROJECT DESIGN & APPROVAL	2019.04~2020.03	E
372	KUMHO POLY CHEM	TPV(THERMO PLASTIC VULCANIZATE) PLANT PROCESS IMPROVEMENT PROJECT	2019.04~2019.07	E. P. C
371	KUMHO MITSUI CHEM	2019 SHUTDOWN INVESTMENT CONSTRUCTION PROJECT	2019.04~2019.06	E. P. C
370	LOTTE ADVANCED MATERIALS	HIGH TEMPERATURE NYLON A4 MASS PRODUCTION PROCESS BASIC DESIGN FEED	2019.03~2019.08	E
369	LOTTE CHEM	BASIC DESIGN FOR DAESAN GE PROCESS BDG PRODUCTION PROCESS	2019.03~2019.08	E
368	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) OUTER PIPE LINE INSTALLATION WORK	2019.02~2021.04	E. C
367	GS E&C	GS CALTEX MFC(MIXED FEED CRACKER) PROJECT (PIPING/ELEC./INSTR./CIVIL)	2019.02~2021.04	E
366	S&I CORP.	CDC PROJECT ORGANIC CATALYST & OSBL DETAIL DESIGN SERVICE	2019.02~2020.01	E
365	LG MMA	REPLACING MMA(METHYL METHACRYLATE) PROCESS INSTRUMENT & LINE IN MMA3 PLANT	2019.02~2019.11	E. P. C
364	YNCC	ETHYLENE & BTX(BENZENE TOLUENE XYLENE) AREA ENERGY SAVING PROJECT	2019.01~2019.06	E. P. C
363	GS CALTEX	H2 BOOSTER COMPRESSOR STANDBY INSTALLATION PROJECT	2018.12~2020.07	E
362	LOTTE CHEM	DAESAN PLANT D-EG ½ WASTE HEAT RECOVERY ENERGY SAVING PROJECT	2018.12~2019.11	E. P. C
361	KUMHO POLY CHEM	PELLET STEP II PROJECT	2018.12~2019.10	E. P. C

※ E : Engineering, P : Procurement, PS : Procurement Service, C : Construction, CS : Construction Supervision, FE : Field Engineer

No.	Client	Project	Period	Scope
360	GS CALTEX	CONSTRUCTION OF PIPING 3D INSPECTION DRAWINGS(OUTSIDE THE FACTORY)	2018.12~2019.06	E
359	VERSUM PM KOREA	SIHWA GABLE-INFRASTRUCTURE EPC PROJECT	2018.12~2019.05	E. P. C
358	GS E&C	LG CHEM Y2C PROJECT (ETHYLENE 800,000MT/Y)	2018.11~2021.06	E
357	LG MMA	ACRYLIC RUBBER PRODUCTION PROCESS CONSTRUCTION WORK	2018.07~2020.02	E. P. C
356	KUMHO P&B CHEM	STT(I) STORAGE FACILITIES INSTALLATION	2018.07~2020.01	E. P. C
355	GS CALTEX	CONSTRUCTION OF PIPING 3D INSPECTION DRAWINGS (OUTSIDE THE FACTORY)	2018.07~2019.06	E
354	DAWOO E&C	GS CALTEX SAR REVAMPING PROJECT PIPING 3D SCANNING & PERMIT	2018.07~2019.06	E
353	VERSUM ADM KOREA	GABLE EXPANSION PROJECT	2018.07~2019.03	E. P. C
352	HYUNDAI ENG	HDO REVAMPING PROJECT PIPING/ ELEC. /INSTR. FIELD ENGINEERING	2018.07~2018.11	FE
351	LG MMA	MMA2 PLANT DESIGN OF ESTER WORK	2018.07~2018.10	E
350	GS E&C	MFC FEED PROJECT	2018.06~2019.05	E
349	GS CALTEX	REFINERY 3TEAM PSV DUALIZATION DETAIL DESIGN SERVICE	2018.06~2019.05	E
348	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 60,000MTPA PLANT REVAMPING PROJECT	2018.06~2019.01	E. P. C
347	VERSUM PM KOREA	SHIWA OFFICE BUILDING REINFORCEMENT PROJECT	2018.06~2018.10	E. P. C
346	KUMHO MITSUI CHEM	NEW INSTALLATION OF M-EC520A1/A2 SYSTEM	2018.06~2018.07	P. C
345	SHELL KOREA	BDEP DEVELOPMENT FOR NEW STORAGE TANKS INSTALLATION	2018.06~2018.07	E
344	LG CHEM	DETAIL DESIGN FOR EXTENSION COMPLEX UTILITY CENTER & INFRASTRUCTURE CONSTRUCTION	2018.04~2019.03	E
343	LG CHEM	BUTENE-1, RBD PROJECT CONSTRUCTION	2018.04~2019.01	P. C
342	LOTTE CHEM	VRU(VAPOR RECOVERY UNIT) INSTALLATION	2018.04~2018.11	P. C
341	LG CHEM	SAP5(SUPER ABSORBENT POLYMER) 15,000 TON DBN PROJECT	2018.04~2018.10	E
340	HANWHA CHEM	OSBL PIPE RACK INSTALLATION PROJECT	2018.04~2018.09	E. P. C
339	SERVEONE	YEOSU CA2 GENERAL CONTRACTOR	2018.03~2019.12	E
338	GS E&C	LG CHEM 6AA PROJECT SMS/PSM	2018.03~2019.05	E
337	BASF	MIXTURE-1 PROJECT	2018.03~2019.03	E. P. C
336	VERSUM SPC KOREA	PYEONGTAEK CMP(CHEMICAL MECHANICAL POLISHING) PROJECT	2018.03~2019.01	E. P. C
335	LG CHEM	CA1 ELECTROLYZER PILOT FACILITY PROJECT	2018.03~2018.12	E. P. C
334	JAEWON INDUSTRIAL	JNJ(PDP) FEED DESIGN	2018.03~2018.06	E
333	VERSUM PM KOREA	ALCHEMY PROJECT (CSP 80MTPY + AMP 15MTPY NEW)	2018.02~2019.02	E. P. C
332	HANWHA ENERGY	9 BLOCK PIPE RACK DESIGN	2018.02~2018.11	E
331	LOTTE CHEM	K-PIA, PTA IG DRYER VENT GAS PREVENTION FACILITY(ACTIVATED CARBON ADSORPTION TOWER) PRODUCTION AT ULSAN PLANT	2018.02~2018.09	E. P

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No.	Client	Project	Period	Scope
330	LG MMA	CONSTRUCTION OF DISPERSANT SEMI-MASS PRODUCTION FACILITY & SUSPENSION POLYMERIZATION PILOT RECONSTRUCTION	2018.02~2018.05	E
329	VERSUM MATERIALS	DEMOLITION WORK AT SIHWA PLANT	2018.02~2018.03	E. P. C
328	KUMHO P&B CHEM	LER(LIQUID EPOXY RESIN) STEP III 45,000T REVAMPING PROJECT	2018.01~2019.06	E. P. C
327	KUMHO MITSUI CHEM	COMPLEMENTARY WORK RELATED TO COLOR IMPROVEMENT	2018.01~2018.04	E. P. C
326	AISA STABILIZERS	GOJI PROJECT BASIC ENGINEERING	2018.01~2018.04	E
325	HANWHA E&C	THE PROJECT OVERALL DESIGN SERVICE	2017.12~2019.01	E
324	SERVEONE	YEOSU LG CHEM SAP5(SUPER ABSORBENT POLYMER) REVAMPING PROJECT	2017.11~2019.02	E
323	GS CALTEX	DETAIL DESIGN FOR RFCC(RESIDUE FLUID CATALYTIC CRACKING UNIT) WET GAS SCRUBBER INSTALLATION	2017.11~2018.06	E
322	VERSUM MATERIALS	NUMAT PROJECT	2017.11~2018.03	E. P. C
321	SK AIR GAS	SK HYNIX M14 PHASE2B GAS PLANT PROJECT DESIGN	2017.10~2018.11	E
320	GS E&C	GS CALTEX VGO FCC(VGO FLUIDIZED CATALYTIC CRACKER) PROJECT	2017.10~2018.04	E
319	SERVEONE	LG MMA M3 REVAMPING PROJECT (GENERAL CONTRACTOR)	2017.09~2019.05	E
318	S-OIL	MOKPO STORAGE VRU(VAPOR RECOVERY UNIT) PACKAGE & CONCRETE INSTALLATION WORK	2017.06~2017.12	E. P. C
317	SK SHOWA DENKO	SS PROJECT EPC LUMP & SUM TURNKEY PROJECT (CH3F 20TON/Y)	2017.06~2017.12	E. P. C
316	GS E&C	3NE PROJECT	2017.05~2019.04	E
315	KUMHO P&B CHEM	SER(SOLID EPOXY RESINS) STEP II 15,000MPA REVAMPING PROJECT	2017.05~2018.02	E. P. C
314	SAMSUNG C&T	OFF-SITE IMPROVEMENT PLAN DETAIL DESIGN & APPROVAL	2017.04~2018.08	E
313	BASF	TOURBILLON PROJECT DIKE INSTALLATION	2017.04~2017.06	E. P. C
312	KPIC	ULSAN PLANT SPP PROJECT DESIGN	2017.03~2018.07	E
311	GS E&C	GS CALTEX No.1 CDU(CRUDE DISTILLATES UNIT) REVAMP PROJECT	2017.03~2018.05	E
310	HANWHA CHEM	W-TFT CA1 TEAM 35% HYDROCHLORIC ACID SHIPPING INFRASTRUCTURE CONSTRUCTION WORK	2017.02~2017.09	E. P. C
309	KUMHO MITSUI CHEM	IMPROVEMENT CONSTRUCTION FOR MDI(METHYLENE DIPHENYL ISOCYANATE) EXTENSION BOTTLENECK ELIMINATION	2017.02~2017.04	E. P. C
308	OCI	GUNSAN PLANT, AGRICULTURAL WATER UTILIZATION FACILITY INSTALLATION	2017.01~2017.08	E. P. C
307	AIR LIQUIDE KOREA	Y2 REVAMP(CO2 RECYCLE) PROJECT	2016.12~2017.11	E. P. C
306	SK MATERIALS	W-3 PLANT 300TON/Y EXPANSION PROJECT	2016.12~2017.10	E. P. C
305	LG MMA	ACRYL RUBBER SYSTEM CONSTRUCTION DESIGN	2016.12~2017.10	E
304	LOTTE ADVANCED MATERIALS	ABS 65,000MTY REVAMPING PROJECT	2016.12~2017.08	E. P. C
303	SERVEONE	LG CHEM DAESAN PLANT POE ISBL PIPING DESIGN	2016.11~2018.12	E
302	ISU E&C	OTK NO.4 EXPANSION PROJECT	2016.11~2018.12	E
301	POSCO ENG	DAESAN PROPANE LOW TEMPERATURE TANK CONSTRUCTION DESIGN	2016.11~2018.09	E

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No.	Client	Project	Period	Scope
300	HYUNDAI ENG	HYUNDAI OIL BANK REVAMPING EPC PROJECT(PIPING/ELEC./INSTR./CIVIL DESIGN)	2016.11~2018.07	E
299	KUMHO P&B CHEM	STT(I) EXTERNAL STORAGE FACILITIES INSTALLATION	2016.11~2017.07	E. P. C
298	KUMHO MITSUI CHEM	JO MDI(METHYLENE DIPHENYL ISOCYANATE) 4,000M3 STORAGE TANK INSTALLATION	2016.11~2017.04	E. P. C
297	KUMHO POLY CHEM	2-LINE FACILITY SUPPLEMENTARY CONSTRUCTION DESIGN	2016.11~2016.11	E
296	KUMHO POLY CHEM	TPV(THERMO PLASTIC VULCANIZATE) EXTENSION CONSTRUCTION	2016.10~2017.08	E. P. C
295	KUMHO P&B CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) STEPIV PROJECT	2016.10~2017.01	E. P. C
294	YEOSU GREEN ENERGY	YEOSU GREEN ENERGY STEAM SUPPLY SYSTEM	2016.08~2018.12	E
293	LOTTE CHEM	H-NC3 PROJECT CAUSTIC STORAGE TANK INSTALLATION	2016.08~2017.04	E. P. C
292	SY TANK TERMINAL	NAKPOGAC THREE TANK CONSTRUCTION PROJECT (SYP-1601)	2016.08~2017.04	E
291	DAELIM INDUSTRIAL	E(ETHYLENE PROPYLENE OLIGOMER) PROJECT DESIGN & APPROVAL	2016.07~2017.09	E
290	LOTTE CHEM	YEOSU PLANT H-EG1/2, WASTE HEAT RECOVERY REFRIGERATOR IMPROVEMENT CONSTRUCTION	2016.06~2017.05	E. P. C
289	KUMHO MITSUI CHEM	I-FA102 & ADDITIONAL FACILITIES REPLACEMENT WORK	2016.06~2016.10	E. P. C
288	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE)-PH CONTINUOUS CRYSTALLIZER INSTALLATION WORK	2016.05~2017.04	E. P. C
287	KUMHO POLY CHEM	1PLANT 1-LINE MVR(MECHANICAL VAPOR RECOMPRESSION) INSTALLATION	2016.05~2016.12	E. P. C
286	LOTTE BP CHEM	SYNGAS COOLER REPLACEMENT EPC CONTRACT	2016.04~2017.05	E. P. C
285	E1	E1 MIXED-C4 TRANSPORT-RELATED CONSTRUCTION PROJECTS	2016.03~2017.03	E. P. C
284	OCI	PIPING DESIGN FOR BTX(BENZENE TOLUENE XYLENE) DBNK PROJECT	2016.02~2016.12	E
283	KUMHO MITSUI CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) PACKAGE MANUFACTURE & INSTALLATION	2015.11~2017.10	E. P. C
282	GS CALTEX	AROMATIC OFF-GAS BENZENE RECOVERY DESIGN SERVICES	2015.11~2017.05	E
281	KUMHO PETRO CHEM	POLYMERIZATION G-LINE NB LATEX PARALLEL PRODUCTION FACILITY CAPA UP	2015.11~2017.01	E. P. C
280	LOTTE CHEM	H-PC,IMPROVE PRODUCTIVITY THROUGH 3TH DEBOTTLENECKING	2015.11~2016.07	E. P. C
279	KUMHO P&B CHEM	AMS(ALPHA METHYL STYRENE) CAPA-UP PROJECT	2015.11~2016.05	E. P. C
278	YNCC	YNCC 2PLANT ENERGY-SAVING PROJECT	2015.11~2016.04	E. P. C
277	LOTTE CHEM	POE SEMI-COMMERCIAL PLANT PDP MANUFACTURE	2015.11~2016.03	E
276	LOTTE CHEM	H-DMC,HOT OIL WASTE HEAT RECOVERY HEAT EXCHANGER INSTALLATION	2015.10~2016.06	E. P. C
275	DAELIM INDUSTRIAL	DETAIL DESIGN FOR S-OIL RUC(RESIDE UPGRADING COMPLEX) PROJECT SITE, AREA-5(REVAMPING OF EXIST. FACILITY)	2015.10~2016.03	E
274	KUMHO MITSUI CHEM	M-PG303C RELOCATION & IMPROVEMENT	2015.09~2015.09	E. P. C
273	HYOSUNG	200,000T/Y PP3(PROPYLENE PURIFICATION C3) PROJECT	2015.08~2016.12	E
272	DAELIM INDUSTRIAL	PB2(POLY BUTENE) 100,000MTA REVAMPING PROJECT	2015.07~2016.10	E. P. C
271	DONGLIM E&G	ULSAN SRF BOILER STEAM SUPPLYING PROJECT (FLUE GAS TREATMENT EQUIPMENT DELIVERY/ INSTALLATION)	2015.07~2016.02	E

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270	LG MMA	NO.2 PMMA MS PRODUCTION FACILITY BUILDING CONSTRUCTION	2015.07~2016.01	E. P. C
269	BASF	FEED SERVICE PACKAGE FOR TOUBLION PROJECT	2015.07~2015.11	E
268	KUMHO P&B CHEM	MVR(MECHANICAL VAPOR RECOMPRESSION) STEPII PROJECT	2015.06~2016.04	E. P. C
267	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) & MDA MIXER, M-DA103 INSTALLATION	2015.05~2015.05	E. P. C
266	OCI	P2 CVD HEAT RECOVERY SYSTEM MANUFACTURING & INSTALLATION	2015.04~2015.09	E. P. C
265	KUMHO POLY CHEM	KP-1 PLANT 2-LINE MVR(MECHANICAL VAPOR RECOMPRESSION) PROJECT	2015.04~2015.11	E. P. C
264	DEOKYANG	THE 3 FACTORY RAW CONVERSION PROJECT	2015.03~2015.05	E. P. C
263	LG MMA	No.1 PMMA TANK INSTALLATION	2015.02~2015.07	E. P. C
262	KUMHO PETRO CHEM	NEW C4 BALL TANK(3,000m ³) INSTALLATION	2015.01~2015.12	E. P. C
261	SKC LIGHTING	ENTEC BIO POWER GENERATION PLANT DETAIL ENGINEERING	2014.12~2016.09	E
260	DAELIM INDUSTRIAL	PB(POLY BUTENE)2 PLANT 75,000 MTA REVAMPING PROJECT	2014.11~2015.11	E. P. C
259	HANWHA CHEM	POLY SILICON CAPA-UP DETAIL DESIGN	2014.11~2015.08	E
258	KUMHO MITSUI CHEM	COC(COCL2) REACTOR & HCL ADSORPTION TOWER INSTALLATION	2014.11~2015.05	E. P. C
257	SAMSUNG TECHWIN	MVR(MECHANICAL VAPOR RECOMPRESSION) INSTALLATION	2014.11~2014.11	E. P. C
256	HUVIS	BASIC DESIGN FOR HEATING MEDIUM BOILER PROCESS	2014.10~2015.05	E
255	KUMHO MITSUI CHEM	CR-MDI(METHYLENE DIPHENYL ISOCYANATE) STORAGE TANK	2014.10~2014.12	E. P. C
254	LOTTE E&C	LCC D-EG1 DEBOTTNECKING PROJECT (MEG 50,000MT CAPA UP)	2014.10~2016.09	E. P. C
253	G&L/BLUE O&M	ANIMAL WASTE RECYCLING PROJECT	2014.09~2015.09	E. P. C
252	DEOKYANG	CO2 LIQUEFIED FACILITY PLANT ENGINEERING	2014.09~2014.11	E
251	KOREA PETRO CHEM	3RD Hx REFINE PROCESS IMPROVEMENT PROJECT	2014.08~2015.09	E
250	LOTTE CHEM	H-PC, EFFICIENCY IMPROVEMENT	2014.07~2015.01	E. P. C
249	HANWHA CHEM	DETAIL DESIGN FOR PE2, LP-2M-LLD PRODUCTION FACILITY	2014.07~2014.09	E
248	WOORYANG HC	DETAIL DESIGN FOR SPP(SUPER ABSORBENT POLYMER PILOT) PROJECT	2014.06~2014.12	E
247	SAMYANG	TPEE(THERMOPLASTIC ELASTOMER) PROJECT	2014.05~2015.12	E
246	GS E&C	5AA PROJECT	2014.04~2015.07	E
245	LG CHEM	PGC(PROCESS GAS COMPRESSOR) DIFFERENTIAL PRESSURE IMPROVEMENT DESIGN	2014.04~2015.06	E
244	SPG CHEM	DETAIL DESIGN FOR H2 BOOSTING COMPRESSOR INSTALLATION	2014.04~2014.12	E
243	KUMHO MITSUI CHEM	COC(COCL2) COMPRESSOR INSTALLATION	2014.02~2014.05	E. P. C
242	KUMHO MITSUI CHEM	2014 MDI(METHYLENE DIPHENYL ISOCYANATE) PLANT ANNUAL SHUT-DOWN PROJECT	2014.02~2014.05	E. P. C
241	LG CHEM	#3 C3 PURIFICATION SYSTEM	2014.01~2015.05	E

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240	LG TOYO ENG	ELEC./INSTR./CIVIL DESIGN OF 2014 NCC(NAPHTHA CRACKING CENTER) EXPANSION PROJECT	2014.01~2014.12	E
239	LOTTE CHEM	H-PC, T-130(MPC REACTION TOWER) MVR(MECHANICAL VAPOR RECOMPRESSING) INSTALLATION PROJECT	2014.01~2014.12	E. P. C
238	HANWHA ENERGY	9.9MW BACK-PRESSURE TURBINE INSTALLATION PROJECT	2013.08~2014.12	E
237	POSCO ENG	KUMHO POLY CHEM YEP-V(EPDM) 60,000MT/Y CONSTRUCTION PROJECT	2013.07~2015.11	E
236	KUMHO P&B CHEM	LER(LIQUID EPOXY RESINS) STEP II 45,000MTPA REVAMPING PROJECT	2013.08~2014.07	E. P. C
235	E1	PIPE RACK OF WEST SIDE	2013.07~2013.12	E
234	N.I.O.C (S.W.PG)	NGL-3200 BEDP(BASIC ENGINEERING DOCUMENTS PACKAGE) ENDORSEMENT	2013.07~2013.09	E
233	CHEIL INDUSTRIES	RAW MATERIAL STORAGE TANK FARM PROJECT	2013.06~2013.10	E
232	POSCO ENG	HYOSUNG DH2 PROJECT	2013.06~2013.07	E
231	HYUNDAI OIL BANK	INCHEON INTERNATIONAL LOGISTICS WHARF	2013.05~2015.06	E
230	KOREA PETRO CHEM	HR(HEXANE RECOVERY)-II	2013.05~2014.03	E
229	KOREAEASTWESTPOWER	POWER CELL POWER PLANT	2013.05~2013.10	E. P. C
228	SAMSUNG FINE CHEM	NH3 COLD HEAT RECOVERY PROJECT	2013.05~2013.07	E. P. C
227	GS CALTEX	DESIGN & APPROVAL OF LAND & MARINE FACILITIES FOR NO.3 PRODUCT PIER	2013.04~2018.03	E
226	GS CALTEX	NEW CRUDE TANK (800,000 BARREL) PROJECT	2013.04~2015.12	E
225	KUMHO MITSUI CHEM	IPC PILOT PLANT INSTALLATION PROJECT	2013.03~2013.09	E. P. C
224	GS E&C	TAME(TERTIARY AMYL ETHER) PROJECT	2013.03~2013.05	E
223	LG CHEM	BRU(BENZENE RECOVERY UNIT) 60,000MT DEBOTTLENECKING PROJECT (EDC: ETHYLENE DICHLORIDE)	2013.02~2013.11	E
222	HANWHA	AP SYNTHETIC RECRYSTALLIZATION PROCESS EXPANSION	2013.01~2014.01	E
221	TOYO ENG	EGKr HOT PROJECT	2013.01~2013.12	E. C
220	KUMHO PETRO CHEM	W.W.T(WASTE WATER TREATMENT) FACILITIES EXPANSION PROJECT	2013.01~2016.07	E. P. C
219	POSCO ENERGY	HYDROGEN RECOVERY UNIT STRUCTURE	2013.01~2013.07	C
218	HYUNDAI OIL TERMINAL	HDO(HEAVY DUTY OIL) STORAGE TANK FARM CONSTRUCTION MANAGEMENT	2012.12~2013.12	E. P. C
217	GS E&C	UZBEKISTAN UGCC ETHYLENE 600,000MT/Y PROJECT (MECHANICAL/ PIPING/ELEC./INSTR./CIVIL DESIGN)	2012.10~2014.07	E
216	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT REVAMPING PROJECT	2012.09~2012.12	E. P. C
215	KUMHO P&B CHEM	DIBK(DIISOBUTYL KETONE) DISTILLATION TOWER INSTALLATION PROJECT	2012.08~2012.12	E. P. C
214	HANWHA CHEM	LP-1 EXTRUDER & PPB EXTENSION CONSTRUCTION PROJECT	2012.07~2013.04	E. P. C
213	KUMHO PETRO CHEM	LP-1 EXTRUDER & PPB EXTENSION CONSTRUCTION PROJECT	2012.06~2012.12	E. P. C
212	DAELIM INDUSTRIAL	KUMHO YEP-IV(EPDM) VOC TREATMENT PACKAGE PROJECT	2012.06~2012.11	E. P. C
211	HANWHA E&C	HCC SCR(SELECTIVE CATALYTIC REDUCTION) PROJECT	2012.05~2013.03	E

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210	GS E&C	MAA(METHYL METHACRYLATE) EXPANSION PROJECT (PROCESS/MECHANICAL/PIPING/ELEC./INSTR./CIVIL DESIGN)	2012.04~2013.01	E
209	KUMHO MITSUI CHEM	HYPER SALINE WASTE WATER TREATMENT SYSTEM INSTALLATION PROJECT	2012.03~2012.09	E. P. C
208	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT MVR(MECHANICAL VAPOR RECOMPRESSING) SYSTEM INSTALLATION	2012.02~2012.08	E. P. C
207	LG CHEM	BPA(BISPHENOL-A)(BISPHENOL A) ACETALDEHYDE STRIPPING COLUMN INSTALLATION PROJECT	2012.02~2012.05	E
206	LG CHEM	NCC(NAPHTHA CRACKING CENTER) PROCESS IMPROVEMENT PROJECT	2012.02~2012.03	E
205	KUMHO POLY CHEM	NEW PLANT WASTE HEAT RECOVERY SYSTEM INSTALLATION	2012.01~2013.07	E. P. C
204	HANWHA CHEM	CM2 BASIC ENGINEERING DOCUMENT PACKAGE PROJECT	2012.01~2012.02	E
203	GS E&C	DESIGN FOR GS CALTEX VGO FCC(VGO FLUIDIZED CATALYTIC CRACKER) PROJECT SAPO-PIPE LINE (PIPING/ELEC./INSTR./CIVIL)	2011.11~2013.04	E
202	GS E&C	TAME(TERTIARY AMYL ETHER) PROJECT	2011.10~2013.03	E
201	KUMHO P&B CHEM	MIBK(DIISOBUTYL KETONE) 55KT CAPA UP PROJECT	2011.10~2012.10	E. P. C
200	KOREA PETRO CHEM	Hx REFINE PROCESS IMPROVEMENT PROJECT	2011.09~2012.06	E
199	HANWHA E&C	HCC SALT TRANSFER BELT CONVEYOR INSTALLATION PROJECT	2011.09~2011.12	E. CS
198	GS E&C	#4 KERO MEROX(KEROSENE UNIT) PROJECT	2011.08~2013.04	E. PS. CS
197	GS E&C	MAA(METHYL METHACRYLATE) EXPANSION PROJECT (PIPING/ELEC./INSTR./CIVIL DESIGN)	2011.08~2011.10	E
196	KUMHO MITSUI CHEM	MDI(METHYLENE DIPHENYL ISOCYANATE) 50,000MT REVAMPING PROJECT	2011.07~2012.06	E. P. C
195	LG CHEM DAESAN	2ND STEAM SUPPLY LINE INSTALLATION PROJECT	2011.07~2011.11	E
194	LINDE KOREA	INJU N20 PLANT & CYLINDER FILLING STATION DESIGN	2011.06~2012.06	E. FE
193	LG CHEM DAESAN	NCC(NAPHTHA CRACKING CENTER) FURNACE REVAMPING PROJECT	2011.04~2012.07	E
192	GS CALTEX	KERO SPLITTER INSTALLATION PROJECT	2011.03~2011.11	E
191	KUMHO MITSUI CHEM	MDA(METHYLENE DIPHENY AMINE) REVAMPING PROJECT	2011.03~2011.07	E. P. C
190	LG CHEM	CA/EDC (CAUSTIC/ETHYLENE DICHLORIDE) PROJECT	2011.02~2011.07	E
189	GS E&C	VGO FCC(VGO FLUIDIZED CATALYTIC CRACKER)(VACUUM GAS OIL FLUIDIZED CATALYTIC CRACKING UNIT) PROJECT	2011.02~2011.03	E. P. C
188	LG CHEM DAESAN	LDPE(LOW DENSITY POLYETHYLENE) 2ND EXTRUDER INSTALLATION PROJECT	2011.01~2011.11	E. P. C
187	LG CHEM	L-LDPE(LOW DENSITY POLYETHYLENE) PLANT ELASTOMER 13,000TON DEBOTTLENECK PROJECT	2011.01~2011.11	E. P. C
186	GS CALTEX	NO.3 KD HDS REFRIGERATOR RECOVERY UNIT	2011.01~2011.10	E
185	LG CHEM	SLURRY PUMP CAPA. UP	2011.01~2011.06	E
184	SAMSUNG FINE CHEM	HYDROGEN SUPPLY SYSTEM SUPPLEMENT	2011.01~2011.04	E. P. C
183	LG MMA	MTBE(METHYL TERTIARY BUTYL ETHER) LOADING ARM DESIGN & PERMIT	2011.01~2011.04	E. GA
182	HYUNDAI E&C	STEAM TRUCK LINE CALCULATION & DESIGN	2010.12~2012.06	E
181	LOTTE E&C	HONAM PETRO CHEM HPEO(HIGH PURITY ETHYLENE OXIDE) PROJECT	2010.12~2011.10	E. P. C

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180	ISU E&C	OTK E4 PROJECT	2010.12~2011.10	E
179	CHEIL INDUSTRIES	LOADING ARM 1EA INSTALLATION	2010.12~2011.02	E
178	KUMHO P&B CHEM	U-5500 PHENOL TREATMENT PROJECT	2010.11~2011.05	E. P. C
177	LG CHEM	INTERCONNECTING PIPING ANALYSIS	2010.11~2010.12	E
176	GS E&C	LG CHEM 4AA PROJECT (MECHANICAL/PIPING/ELEC./INSTR./CIVIL DESIGN)	2010.11~2010.11	E. PS
175	LG CHEM	A-1 PBL EXTENSION PSV & FLARE LOAD SUMMARY & PERMIT	2010.10~2010.12	E
174	ALBEMARLE KOREA	P-52141 PROJECT	2010.09~2011.06	E. PS. CS
173	GS CALTEX	OIL REFINING 3TEAM ATMOSPHERE EMISSION UNIT IMPROVEMENT	2010.08~2011.07	E. PS
172	YCOGEN	YEOSU COGENERATION PLANT DE-COMPRESS	2010.08~2011.05	E. P. C
171	LG CHEM	PP PLANT EXTENSION PROJECT	2010.08~2011.05	E
170	GS E&C	YP-1 EXPANSION PROJECT	2010.08~2011.05	E. PS
169	JUNGHO ENC	3RD PUBLIC PIPERACK CONSTRUCTION FOR 26SECTION(4BLOCK)	2010.08~2010.10	E
168	LG CHEM	BPA(BISPHENOL-A)_ACETONE FLASHER	2010.08~2010.09	E
167	LG CHEM	MYO DO SM G2-SECTION PIPE RACK TRANSFER	2010.07~2010.12	E
166	KUMHO PETRO CHEM	TECHNICAL SELF-RELIANCE FOR 2ND PLANT	2010.07~2010.11	E
165	S-OIL	2011YEAR CONSTRUCTION BUDGET	2010.07~2010.08	E
164	GS E&C	NO.4 DNT PROJECT	2010.06~2011.06	E. PS
163	GS CALTEX	STEAM SUPPLY & STEAM CONDENSATE WITHDRAW PI	2010.06~2010.11	E. PS
162	C&B INDUSTRIAL	NITRIC OXIDE PLANT	2010.06~2010.09	E
161	GS CALTEX	DAE SONG CONSTRUCTION TRANSFER PUMP	2010.06~2010.07	E. PS
160	DAELIM INDUSTRIAL	LHD REACTOR PILOT UNIT ESTABLISHMENT	2010.05~2010.07	E. PS
159	GS E&C	HUCHEMS NO.4 DNT PROJECT	2010.05~2010.05	E. PS
158	GS CALTEX	B-SECTION 400MB ULSD TANK 1EA	2010.04~2011.05	E. PS
157	YCOGEN	43KGG STEAM CHEIL INDUSTRIAL SUPPLY PIPE RACK	2010.04~2010.11	E
156	YNCC	3 SECTION, BTX(BENZENE TOLUENE XYLENE) EA-134	2010.04~2010.05	E
155	SERVEONE	DS EO(ETHYLENE OXIDE) PLANT INCREASING PRODUCTIVITY PROJECT	2010.03~2011.03	E. PS
154	GS E&C	LG PMMA EXPANSION PROJECT	2010.03~2010.04	E
153	LG CHEM	LDPE(LOW DENSITY POLYETHYLENE) PLANT INCREASING PRODUCTIVITY PROJECT	2010.02~2011.12	E
152	YTT	TANK 6EA	2010.02~2010.09	E. PS. CS
151	GS E&C	LG CHEM M3 PROJECT 3D MODELER	2010.01~2010.05	E. PS

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No.	Client	Project	Period	Scope
150	MNCO	DAESAN LG CHEM VCM SCRUBBER	2010.01~2010.01	E
149	KUMHO PETRO CHEM	PROCESS SAFETY MANAGEMENT CONSULTING	2009.12~2010.04	E
148	AIR LIQUIDE KOREA	VARIOUS PROJECTS (DANGJIN/C01M START VOLTAGE DROP)	2009.12~2010.03	E
147	LG CHEM	F/STACK LOAD LIST SUMMARY	2009.12~2010.02	E
146	SEETEC	OVERLAND SHIPPING POINT EXTENSION	2009.10~2010.03	E
145	KUMHO MITSUI CHEM	ADL SAFETY FACILITY INSTALLATION OF EXISTING MDI SYNTHESIS PLANT	2009.07~2010.04	E. P
144	GS E&C	HPC B-PROJECT	2009.06~2010.10	P. CS
143	LG CHEM	HDPE HEXANE PURIFICATION BASIC	2009.06~2010.05	P
142	LG CHEM	LDPE(LOW DENSITY POLYETHYLENE)/BRU(BENZENE RECOVERY UNIT) PLANT LP STEAM BASIC DESIGN	2009.06~2009.10	E
141	GS CALTEX	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2009.04~2010.04	E. PS
140	LG CHEM	LGDS PLANT 154KV INCOMING PANEL & NEW ESTABLISHMENT AND INNOVATION ACTIVITY TECHNICAL SUPPORT & CONSULTING	2009.03~2010.03	E
139	HYUNDAI OIL BANK	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2009.03~2010.03	E
138	METS	STEAM GENERATOR PROJECT	2009.03~2009.03	E
137	DAESUNG GAS	GN2 GAS LINE EXTENSION	2009.02~2009.04	E. PS. CS
136	KUMHO E&C	MDI-PH DESIGN/MATERIALS	2009.02~2009.01	E. PS. CS
135	YCOGEN	OSBL STEAM SUPPLY PIPE RACK	2009.01~2009.04	E
134	DAELIM INDUSTRIAL	PP#4(POLYPROPYLENE) E-1401 CAPA-UP	2009.01~2009.02	E. PS
133	DAELIM INDUSTRIAL	INDUSTRIAL ESTATE COMMON PIPE RACK CONSTRUCTION	2008.12~2009.05	E. PS. GA
132	LG CHEM	LG CHEM FURNACE EXTENSION PROJECT	2008.11~2009.12	E
131	GS E&C	MTBE(METHYL TERTIARY BUTYL ETHER) EXPANSION PROJECT	2008.11~2009.11	P
130	DAELIM INDUSTRIAL	PB(POLY BUTENE) PLANT C4 TRANSFER PIPE RACK	2008.11~2009.05	E. GA
129	GS E&C	LG CHEM M3 PROJECT	2008.10~2010.06	P. PS
128	JUNG WON CMS	DEOKYANG ENERGEN YEOSU PLANT PI	2008.10~2009.04	E. GA
127	LG CHEM	SBS(STYRENE BUTADIENE STYRENE) 60,000TON BASIC PACKAGE	2008.10~2009.02	E
126	LG CHEM	DONGNAM CHEM UTILITY & EO(ETHYLENE OXIDE) SUPPLY & RAW -C5 PRODUCT UNIT ESTABLISHMENT	2008.10~2008.12	E
125	GS E&C	LG MMA MTBE(METHYL TERTIARY BUTYL ETHER) EXPANSION PROJECT	2008.10~2008.11	E. PS
124	GS E&C	KKPC INDUSTRIAL WATER PREPROCESSING SYSTEM	2008.09~2009.01	E
123	GS E&C	HONAM B-PROJECT MECHANICAL,PI ,CIVIL ENGINEERING	2008.09~2008.11	E. PS
122	KCC	ELECTRODELESS RAMP CHANGE CONSTRUCTION - 1ST	2008.07~2018.07	E
121	AIR LIQUIDE KOREA	DBS #1 PROJECT	2008.07~2009.09	E. PS

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No.	Client	Project	Period	Scope
120	GS E&C	LG CHEM BUTENE-1 PROJECT	2008.04~2009.06	E. PS
119	GS CALTEX	PKG BOILER EXPANSION RELAY COORDINATION	2008.04~2008.10	E. PS
118	LG CHEM	PE(POLYETHYLENE) PLANT	2008.04~2008.08	E
117	KUMHO PETRO CHEM	KP SETP II PLANT UNDERGROUND PIPE REPLACEMENT	2008.04~2008.05	E
116	HYUNDAI OIL BANK	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2008.03~2009.03	E
115	HYUNDAI OIL BANK	ALKYLATE TANK ESTABLISHMENT	2008.03~2009.03	E. GA
114	HANWHA CHEM	[YEOSU CA] CAUSTIC SODA STORAGE/SHIPPING CAPA.UP A/R	2008.03~2008.11	E
113	SHINHAN ENG	HEAVY OIL COMBUSTOR BOILER & INSTALLATION CONSTRUCTION	2008.03~2008.03	E
112	GS E&C	NO.3 HOU(HEAVY OIL UPGRADING) PROJECT	2008.02~2010.12	E. PS. GA
111	SAMSUNG EVERLAND	KPIC NEW HEATER EXTENSION	2008.02~2009.03	E
110	HONAM PETRO CHEM	ENGINEERING GENERAL SPEC STANDARD WORK	2008.01~2018.01	E
109	GS E&C	ATMOSPHERE EMISSION PRESSURE VALVE IMPROVEMENT PROJECT	2008.01~2008.08	E. PS
108	LG CHEM	BR PLANT DEBOTTLENECK	2008.01~2008.04	E. PS
107	H-PLUS	HPC 2-PLANT WASTEWATER TREATMENT SYSTEM	2008.01~2008.04	E. PS. GA
106	HYUNDAI ENG	DS MMA D-PROJECT CONSTRUCTION	2007.12~2009.04	E
105	GS E&C	LPC REVAMPING PROJECT	2007.12~2008.06	E. PS
104	LG CHEM	KOSEP HIGH PRESS STEAM ESTABLISHMENT	2007.11~2008.04	E
103	LG CHEM	NBR PLANT DEBOTTLENECK	2007.11~2008.03	E
102	GS E&C	NO.3 HOU(HEAVY OIL UPGRADING) PROJECT INTERCONNECTION PIPERACK & OSBL PIPE RACK	2007.11~2008.02	E. PS. GA
101	H-PLUS	HSR & REFORMATE TANK VOC REDUCE UNIT	2007.11~2007.11	E
100	DAESHIN ENG	(D) T-606 VOC DERIVED FUEL SYSTEM	2007.10~2007.12	E
99	DOOSAN MECATEC	CMP PROJECT	2007.09~2008.07	E. GA
98	KOREA CARBON BLACK	STEAM SALES PROJECT	2007.07~2008.03	E
97	H-PLUS	GS CALTEX PRODUCT DOCK VRU	2007.07~2007.12	E
96	RIDONG CHEM	BFW PUMP & AIR COMP. ESTABLISHMENT	2007.07~2007.12	E
95	LG CHEM	L-LDPE(LOW DENSITY POLYETHYLENE) PLANT ELASTOMER PROCESS REVAMPING PROJECT	2007.06~2007.10	E
94	LG CHEM	SM(STYRENE MONOMER) PLANT TRA SYSTEM	2007.06~2007.09	E
93	HANWHA E&C	LD1 TUBULAR EXPANSION PROJECT	2007.03~2008.07	E. PS
92	KUMHO POLY CHEM	ENGINEERING FOR CONSTRUCTION OF TPV(THERMO PLASTIC VULCANIZATE) PRODUCTION FACILITIES	2007.03~2007.09	E. P
91	KUMHO POLY CHEM	FLARE WATER SEAL DRUM	2007.02~2007.05	E

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No.	Client	Project	Period	Scope
90	BOC GAS KOREA	ASU #2 N2 & PA HEADER LINE	2007.02~2007.02	E
89	GS E&C	LPC REVAMPING PROJECT	2007.01~2008.05	E. PS
88	CHEIL INDUSTRIES	PC PLANT	2006.12~2018.12	E. PS
87	LG CHEM	H.P ETHYLENE TANK & L.P ETHYLENE TANK	2006.12~2007.05	E
86	GS E&C	NCC(NAPHTHA CRACKING CENTER) REVAMPING PROJECT 3D MODELING (NCC, BRU, BD)	2006.11~2007.02	E. PS
85	GS E&C	LPC NCC(NAPHTHA CRACKING CENTER) PROJECT 3D MODELING (NCC,BRU,BD)	2006.11~2007.02	P
84	E1	SEOK HWA SA LPG SUPPLY PIPE RACK FEASIBILITY STUDY	2006.11~2007.01	E
83	BOC GAS KOREA	SEOSAN H2 PLANT LINE BURNER CHANGE	2006.11~2006.12	E
82	HONAM PETRO CHEM	C4 PRODUCT SHIPPING UNIT	2006.11~2006.12	E
81	GS CALTEX	MATERIALS MANAGEMENT SUPPLY	2006.10~2008.08	E. PS
80	GS E&C	LPC NCC(NAPHTHA CRACKING CENTER) PROJECT	2006.10~2006.11	E. PS
79	HONAM PETRO CHEM	HPEO CAPA. UP & SEG.CO2 REMOVE UNIT	2006.09~2007.11	E
78	CHEIL INDUSTRIES	YEOSU INDUSTRIAL ESTATE DOCK LOADING ARM INSTALLATION	2006.09~2006.12	E. GA
77	LG CHEM	BR PLANT CATALYST MODIFIER UNIT ENGINEERING	2006.08~2006.11	E
76	SEONGDONG INDUSTRIAL	YM-3PROJECT MTBE(METHYL TERTIARY BUTYL ETHER) 10` PIPE RACK	2006.07~2006.12	E. GA
75	SAMYANG KASEI	6TH INCREASE PRODUCTION PROJECT	2006.07~2006.11	E
74	LG CHEM	STEAM SYSTEM IMPROVE PROJECT	2006.07~2006.08	E
73	CLEAN AIR WORLD	GS CALTEX ORDER/VOCS REDUCTION FACILITIES (2ND)	2006.06~2006.08	E
72	LG PETRO CHEM	HDPE FLARE GAS WITHDRAW PROJECT	2006.05~2006.12	E. PS. CS
71	EXERGY ENG	TVR(THERMAL VAPOR RECOMPRESSION) UNIT (325C CONNECTION)	2006.05~2006.06	E. PS
70	LG CHEM	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2006.04~2007.06	E
69	CHEIL INDUSTRIES	PC(POLY CARBONATE) PLANT MEASUREMENT & RAMP	2006.04~2006.05	E
68	GS E&C	HOU(HEAVY OIL UPGRADING) PROJECT TIE PIPE RACK	2006.03~2007.12	E. PS
67	LOTTE PETRO CHEM	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2006.03~2007.02	E
66	GS E&C	OMAN AROMATICS PROJECT	2006.02~2007.02	E. PS
65	LG CHEM	VCM/EDC TANK ESTABLISHMENT	2006.02~2006.04	E
64	GS E&C	PIPING DESIGN FOR LG CHEM DAESAN REVAMPING PROJECT	2006.01~2007.05	E. PS
63	CLEAN AIR WORLD	GS CALTEX SHIPPING ON THE SE VRU UNIT FOUNDATION INVESTIGATION	2006.01~2006.05	E
62	SAMSUNG EVERLAND	YNCC #1 NEW HEATER	2005.12~2006.10	E
61	LG PETRO CHEM	JUNG-HEUNG WHARF SHIPMENT PIPING DESIGN	2005.12~2005.06	E

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No.	Client	Project	Period	Scope
60	CHEMBIO TECHNOLOGY	GS CALTEX MOGAS TANK SECTION 2ND RECOVERY	2005.09~2005.11	E
59	LG CHEM	NPG LYN PROJECT BASIC PACKAGE	2005.08~2005.12	E
58	LOTTE E&C	NHCHEM STEAM SUPPLY UNIT	2005.08~2005.11	E
57	CLEAN AIR WORLD	GS CALTEX VOC & ODOR REMOVAL SYSTEM DETAIL ENG	2005.07~2005.08	E
56	LG CHEM	OS PLANT LP ETHYLENE TANK 1EA ESTABLISHMENT	2005.05~2006.07	E
55	CAMBIOTECH ASIA	GS CALTEX AROMATIC DAY TANK SECTION RECOVERY SYSTEM	2005.05~2005.09	E
54	LG CHEM	LGDSPC 3D PROJECT	2005.05~2005.09	E, PS
53	YNCC	UNIT COST CONTRACT IN ENGINEERING FOR YEARS	2005.04~2006.05	E
52	KOSEP	YEOSU THERMOELECTRIC POWER PLANT HEAVY OIL ON THE SEA SUPPLY LINE PIPE RACK	2005.02~2005.07	E
51	SAMSUNG EVERLAND	YNCC STEP3 MODI PROJECT	2005.01~2005.08	E
50	CLEAN AIR WORLD	76-WASTEWATER INCINERATOR WET EP INSTALLATION CONSTRUCTION	2005.01~2005.03	E
49	KUMHO MITSUI CHEM	CONTROL ROOM AMPHIBIOUS PRESSURE PLANT REMODELING PROJECT	2004.12~2015.01	E, P, C
48	GS E&C	LYN PROJECT	2004.12~2005.07	E, PS
47	COLUMBIANCHEMKOREA	LGM EXPANSION SYSTEM	2004.12~2005.05	E
46	JAEWON INDUSTRIAL	METHANOL LINE PIPING (18", 4KM) DETAIL ENG	2004.11~2005.03	E, C, GA
45	KUMHO POLY CHEM	PRE-TREATMENT OF INDUSTRIAL WATER PROJECT	2004.10~2005.02	E, P, C
44	LG CHEM	AD 2004 PROJECT DETAIL ENG	2004.10~2004.11	E, GA
43	CLEAN AIR WORLD	HYDROGEN SUPPLY LINE INSTALLATION FEASIBILITY STUDY	2004.10~2004.11	E
42	POSCO ICT	KKPC S-LINE ABSORPTION HEAT PUMP 1EA	2004.10~2004.10	E
41	KICOX	YEOSU INDUSTRIAL UNION PIPE RACK EXPANSION PROJECT	2004.09~2005.01	E
40	GS E&C	4AA PROJECT PIPING MTO & PLOT PLAN DWG	2004.09~2004.10	E
39	CAMBIOTECH ASIA	GS CALTEX MOGAS TANK SECTION 1ST RESTORE CONSTRUCTION	2004.06~2004.10	E, PS
38	KUMHO POLY CHEM	PILOT PLANT PROCESS REVISION PROJECT	2004.06~2004.09	E, P, C
37	TECHWIN	GS CALTEX OIL RTO UNIT	2004.06~2004.08	E
36	CLEAN AIR WORLD	GS CALTEX VOC & CDOR REMOVAL SYSTEM DETAIL ENG	2004.06~2004.07	E
35	DAELIM INDUSTRIAL	KUMHO KPA(III) PROJECT	2004.05~2005.03	E, PS
34	GS E&C	E-CHEM PROJECT DETAIL ENG	2004.05~2004.12	E, PS
33	CLEAN AIR WORLD	GS CALTEX VOC & CDOR MOVAL SYSTEM DETAIL ENG	2004.05~2004.06	E, PS
32	LG PETRO CHEM	CLARIFIER POND REVISION	2004.05~2004.05	E
31	LG CHEM	POM(POLYACETAL) MONOMER PROCESS IMPROVEMENT PROJECT	2004.04~2004.12	E

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No.	Client	Project	Period	Scope
30	LG CHEM	OXO-ALCOHOL 2-EH ON THE SEA 8" LINE PIPE RACK	2004.04~2004.08	E
29	LG CHEM	EBNW PROJECT DETAIL ENG	2004.03~2004.05	E
28	LG CHEM	PS S-2 DEBOTTLENECKING	2004.01~2003.09	E
27	KUMHO PETRO CHEM	KP-1 PLANT FINISHING UNIT	2003.12~2004.04	E
26	COLUMBIAN CHEM KOREA	DETAIL ENGINEERING FOR SAFETY PLATFORM	2003.11~2003.12	E
25	HANWHA E&C	HCC CAUSTIC SODA & BRAIN PI INSTALLATION & CONSTRUCTION	2003.09~2004.12	E, GA
24	SK	BD STEAM LINE CONSTRUCTION	2003.09~2004.02	E
23	COLUMBIAN CHEM KOREA	LGM SYSTEM	2003.08~2004.03	E
22	LG CHEM	PS S-2 D/B DETAIL ENGINEERING	2003.07~2003.09	E
21	GS E&C	CAA D/B PROJECT	2003.06~2003.12	E, PS
20	LG CHEM	NPG) PURIFICATION PROCESS REVAMPING PROJECT	2003.04~2003.09	E
19	COLUMBIAN CHEM KOREA	ENGINEERING FOR LONG GAP MILL SYSTEM	2003.04~2003.06	E
18	HANWHA CHEM	PVC EXPANSION PROJECT DETAIL ENG	2003.03~2004.03	E
17	GS E&C	BD(BUTADIENE) KLP PROJECT	2003.03~2003.07	E, PS
16	SHINHAN ENG	HANWHA CHEM CA ENERGY BOILER PROJECT	2003.02~2003.06	E
15	TK INFO.TECHNOLOGY	ECONOMIZER WITHDRAW, VCM(F-420)	2003.02~2003.02	E
14	CHEIL INDUSTRIES	ARTIFICIALITY MARBLE TRANSFER CW & HW PIPE	2002.11~2003.04	E
13	HANYANG ARCHITECTURE	YEOSU LG MMA 2-PLANT OXYGEN & NITROGEN GAS SUPPLY	2002.10~2002.12	E
12	SAMSUNG EVERLAND	YNCC #1 PLANT HEATER MODIFICATION	2002.09~2002.11	E
11	SAMSUNG EVERLAND	LD HEAT OF REACTION RECOVERY ENERGY SAVING UNIT	2002.08~2002.10	E
10	YNCC	S-MR201A INLET LINE EB FEED LINE PI STRESS ANALYSIS	2002.08~2002.09	E
9	LG CHEM	PIPE RACK 9-SECTION, BD PI STRESS ANALYSIS	2002.07~2002.08	E
8	LG CHEM	PVC L-1,3 SCREEN INSTALLATION	2002.07~2002.08	E
7	YNCC	3B4T FEED PREHEATER	2002.07~2002.07	E
6	HANWHA CHEM	NTO PLANT CAPA. UP PROJECT	2002.05~2003.08	E
5	LG CHEM	GS CALTEX METHANOL SUPPLY PIPE RACK	2002.05~2002.09	E
4	LG MMA	YEOSU PLANT PMMA 20,000TON EXTENSION PROJECT	2002.05~2002.08	E
3	LG CHEM	CONCRETE FLUIDIZATION EXCIPIENT PRODUCTION PROJECT	2002.05~2002.07	E
2	DAEWOO ENG	NH CHEM PHOSPHORIC ACID IMPORT & EXPORT FACILITIES	2002.03~2002.11	E
1	LG E&C	LG MMA YM-2 PROJECT WWT ENGINEERING	2002.02~2002.04	E

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MVR

No.	Year	Project	Client	Scope
11	2016	1공장 1-Line MVR 설치 공사 (96.6°C 폐가스 활용 2.4kg/㎥G 16.5Ton/hr Steam 생산)	KUMHO POLY CHEM	E.P.C
10	2016	MVR(IV) Project (잉여스팀 10T/hr 0.4kg/㎥G→2.8kg/㎥G 증압 생산)	KUMHO P&B CHEM	E.P.C
9	2015	KP-I Plant 2-Line MVR Project (저열원 증기 활용 -0.88kg/㎥G 22.4Ton/hr Steam 생산)	KUMHO POLY CHEM	E.P.C
8	2015	MVR(II) Project (잉여 Hot Oil 활용 4.5kg/㎥G 25Ton/hr Steam 생산)	KUMHO P&B CHEM	E.P.C
7	2015	MVR Package 제작 및 설치 공사 (50Ton/hr 6.9kg/㎥G→21kg/㎥G, 12Ton/hr 9.8kg/㎥G→35.2kg/㎥G 증압 사용)	KUMHO MITSUI CHEM	E.P.C
6	2014	MPC Reaction Tower MVR 공사 (폐열 활용 10.5kg/㎥G 12.6Ton/hr Steam 생산)	LOTTE CHEM	E.P.C
5	2014	삼성중합화학 MVR Package 공사 (잉여스팀 50Ton/hr 2.5kg/㎥G→5.4kg/㎥G 증압 생산)	SAMSUNG TECHWIN	E.P.C
4	2012	신공장 폐열회수 시스템 공사(98°C 폐열 활용 1.2kg/㎥G 15.8Ton/hr Steam 생산)	KUMHO POLY CHEM	E.P.C
3	2012	MDI 50,000MT MVR 공사 (잉여스팀 6.6Ton/hr 7kg/㎥G →18kg/㎥G 증압 생산)	KUMHO MITSUI CHEM	E.P.C
2	2010	용매회수공정의 MVR 도입 (92°C 폐가스 활용 2.9kg/㎥G 6.3Ton/hr Steam 생산)	KUMHO POLY CHEM	E.P.C
1	2009	R-Line MVR System 도입 (102°C 폐온수 활용 6kg/㎥G 12.9Ton/hr Steam 생산)	KUMHO PETRO CHEM	E.P.C

LDAR

No.	Year	Project	Client	Scope
9	2006	VCM LDAR System Monitoring 작업	HANWHA PETRO CHEM	E
8	2005	VCM 생산팀 LDAR 시스템 Monitoring 작업	HANWHA PETRO CHEM	E
7	2005	LG화학 LDAR 공급계약	SK C&C	E
6	2004	한화석유화학 LDAR작업 Inventory.TAG 설치	SK C&C	E
5	2002	정유1공정/MTBE 공정 LDAR Inventory 용역	LG CALTEX	E
4	2002	LDAR Inventory 용역 (정유2~5팀, RFCC)	LG CALTEX	E
3	2001	#2 방향족공장 LDAR Inventory 작업	LG CALTEX	E
2	2001	No.1 방향족공장 출하시설 LDAR Inventory	LG CALTEX	E
1	2000	No.1 Aromatics에 LDAR Program 도입을 위한 Inventory 작업	LG CALTEX	E

VCU

No.	Year	Project	Client	Scope
1	2018	VCU 설비 제작 설치 및 설계 (1,2 터미널) (2500Nm³/hr, 3800Nm³/hr)	KOREA VOPARK TERMINAL	E.P.C

VRU

No.	Year	Project	Client	Scope
10	2018	VRU 설치(저장탱크 RTO 철거후 VRU활용 VOC 회수) (1466m³/hr)	LOTTE CHEM	E.P.C
9	2018	VRU 설치 Engineering 용역(2 터미널 Cl Gas 처리)	KOREA VOPAK TERMINAL	E
8	2017	목포저유소 VRU Package (물류출하시 발생하는 유증기 처리)(240m³/hr)	S-OIL	E.P.C
7	2012	인천 VRU 증설 설계 (480m³/hr)	GS CALTEX	E
6	2011	부산 VRU 증설공사 설계 (480m³/hr)	GS CALTEX	E
5	2007	GS칼텍스 제품부두 VRU 설치에 대한 상세설계 (8500m³/hr)	H-PLUS ENG	E
4	2007	제품부두 VRU 전원공급 전기공사 감리용역	GS CALTEX	E
3	2006	GS칼텍스 해상출하 VRU 설비 설치 기초조사 및 상세설계 (8500m³/hr)	CLEAN AIR WORLD	E
2	2006	GS-CALTEX정유 방향족 Day Tank Area VRU 환경설비의 배관설계 Review	TECHWIN E&C	E
1	2005	GS-CALTEX정유 방향족 Day Tank Area VRU 설비의 배관설계	TECHWIN E&C	E

RTO

No.	Year	Project	Client	Scope
5	2019	고내열나일론_A4 양산공정 BASIC DESIGN_FEED(RTO 신규 설치 포함)	LOTTE ADVANCED MATERIALS	E
4	2016	중합 G-LIE NB LATEX 병행생산 설비구축 EPC(RTO 신규 설치 포함)	KUMHO PETRO CHEM	E.P.C
3	2006	여천NCC 3사업장 VOC관련 RTO 추가설치 공사의 배관설계	EG GREEN TECH	E
2	2004	LG칼텍스 OIL RTO 설비 설계	TECH WIN	E
1	2001	SM공장 RTO 신설 관련 토목 설계	LG CHEM	E

WWT

No.	Year	Project	Client	Scope
2	2018	폐수처리장 Revamping 상세설계 및 인허가 (폐수처리장 증설)	Q-BIO TECH	E
1	2013	폐수처리설비 개선공사 (Steam Stripping→미생물처리로 개선 Steam 감축)	KUMHO MITSUI CHEM	E.P.C

CCS

No.	Year	Project	Client	Scope
2	2017	10MW CCS(Carbon Capture Storage) 포집기술 고도화	KOREA ELECTRIC POWER	E.P.C
1	2015	150MW CO2 포집기술 상용패키지 MODULE 개발	KOREA ELECTRIC POWER	E

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서울사업소

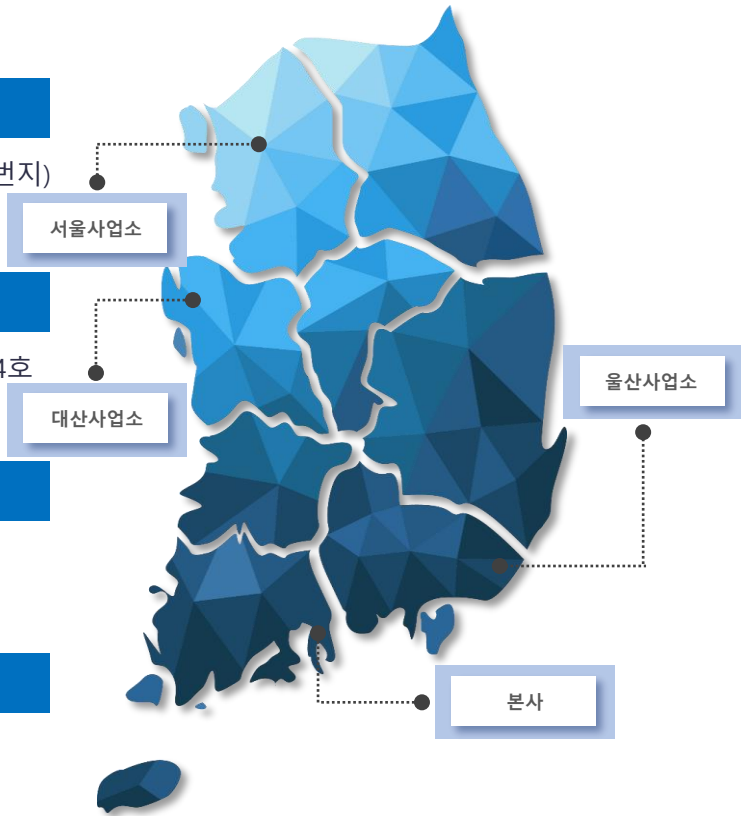
서울특별시 금천구 벚꽃로 278, SJ테크노빌 1504호
TEL. 82-2-6953-6501

울산사업소

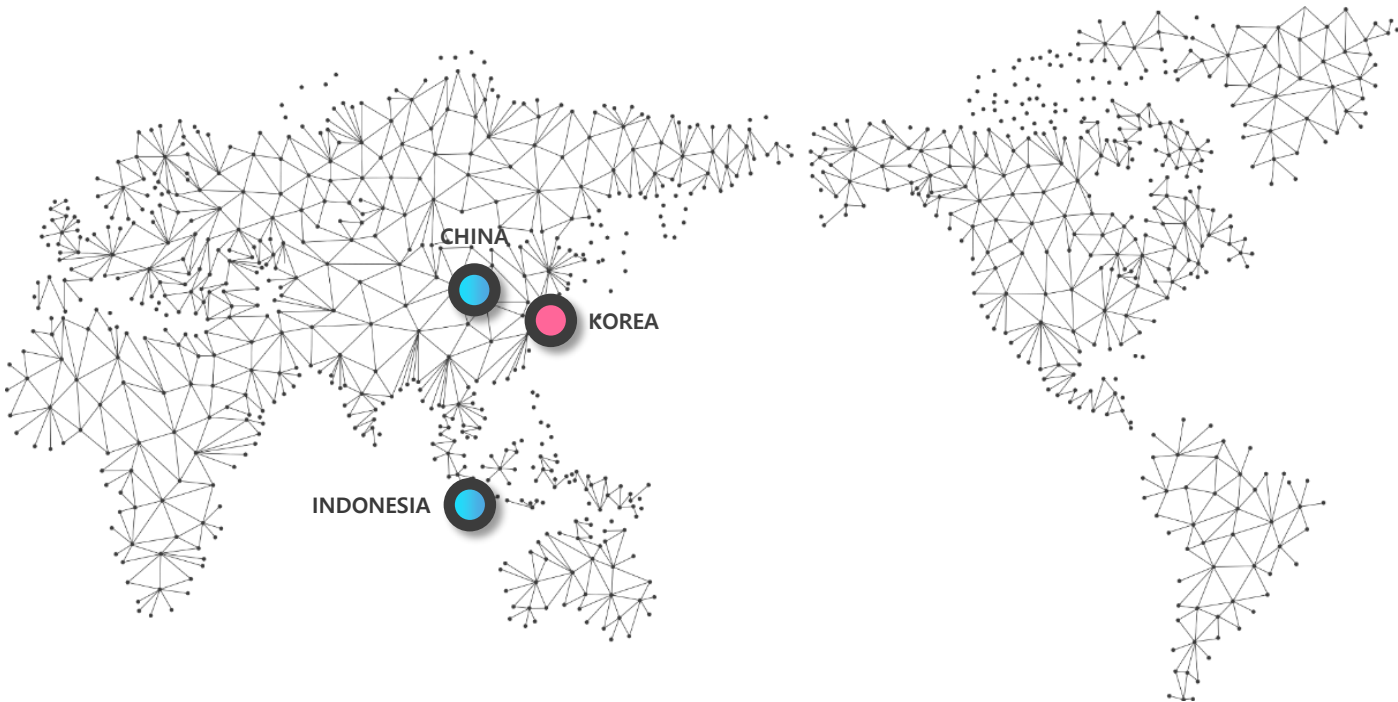
울산광역시 중구 남외2길 44, 파크뷰 1층
TEL. 82-52-232-3199

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