



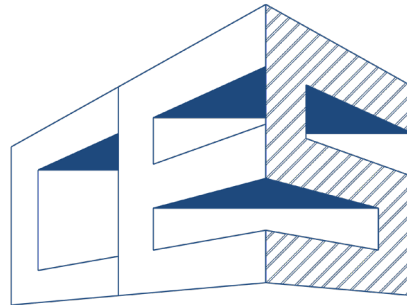
CONSTRUCTION
ENGINEERING SERVICE



CES : CATALOGUE

CHAPTER 1

COMPANY OVERVIEW



**CONSTRUCTION
ENGINEERING SERVICE**

8 Pages

Welcome / Brief History

Organization / Manpower

Strong Point / Project Procedure

Certificate / Location



WELCOME



I am proud to introduce CES, one of Korea's leading companies with professional technology in the fields of Polyolefin Pilot Plant, CCUS, Carbon Free Hydrogen and Lab Engineering.

Particularly in the Polyolefin Pilot Plant sector, we have been in charge of basic and detailed engineering, and construction of factories of leading petrochemical companies in Korea and abroad.

Also in the Carbon Free Hydrogen sector, we have successfully carried out several research projects for the first time in Korea together with KIER, Hyundai Motor Company, KIST, and Gens Engineering for years, leading the development of technology for future clean energy production.

The most important value of CES Co., Ltd is customer satisfaction. The company's name CES means that our duty is not only about "Construction" and "Engineering", but also about providing all relevant "Service" sincerely to Customers.

Therefore, it is a duty of all executives and employees of CES to think of Customer's benefits first and try to maximize them. We are always grateful to our customers and we promise to continue to work hard to provide the best quality and perfect services. Also, we sincerely appreciate your continuing interest and affection toward CES.



Sincerely
CES Co., Ltd CEO
YoungChul Kang

BRIEF HISTORY

2021~

Expansion and Relocation of Headquarters (2024)
Acquisition of Comprehensive Construction License (2024)
Opening of Honam Branch (2023)
ISO 45001 Certification (2022)
Hydrogen Production Using Ammonia Cracking (2021)



2011~2020

Registration of Overseas Construction Association (2016)
Opening of Yeosu branch (2016)
Certification of new and renewable
energy facilities installation company (2011)
Inno-Biz Certification (2011)

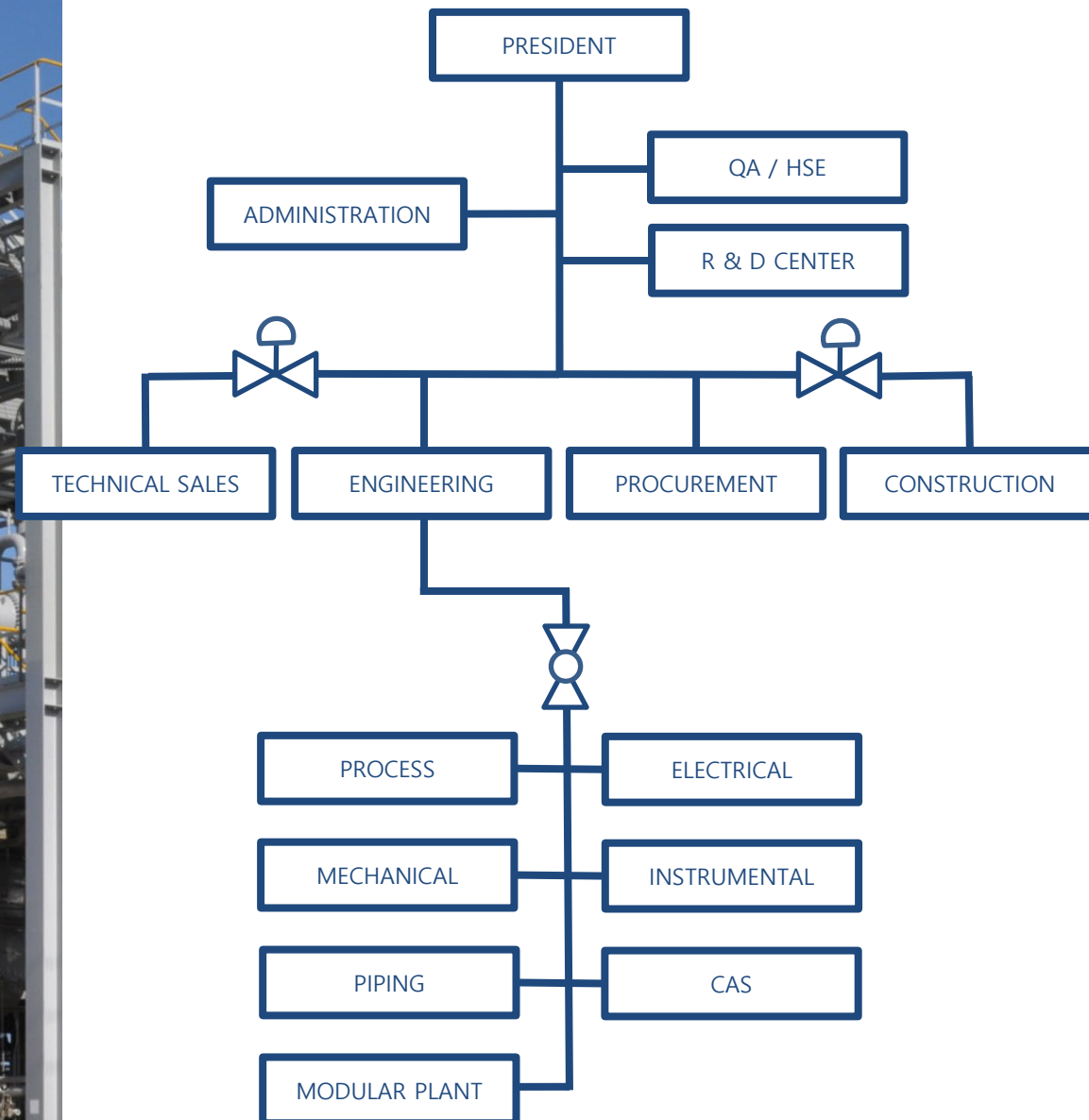
2005~2010

Factory relocation registration (2009)
Venture Business Certification (2006)
ISO 9001 Certification (2005)
Establishment of R&D Center (2005)
Acquired Construction, Engineering license (2005)
Foundation of CES Co., Ltd (2005)





ORGANIZATION



MANPOWER

CES is working closely with suppliers to improve project accomplishment with qualified engineers who have been proven their capabilities in plant-related fields



STATISTICS			
Classification	Term	# of Person	Remarks
By Work Scope	Process	27	Outsourcing (If Necessary)
	Mechanical	9	
	Piping	3	
	Electrical	2	
	Instrumental	2	
	CAS	1	
By Degree	Ph.D.	7	CE 4, ME 2, MT 1
	MS	8	CE 6, ME 1, EL 1
	BS	29	CE 16, ME 6, EE 2, EL 1, AE1
By Official Qualification	Professional Engineer	4	CE 4
	Licensed Engineer	14	18 Licenses
By Experience (year)	Over 20	27	CE 10, ME 7, MT 1, EE 2, AE 1, EL 1
	11~20	1	CE 1
	~10	16	CE 10, EE 1
	Average		20.3

CE : Chemical Engineering / ME : Mechanical Engineering / MT: Metallurgical Engineering /
EE : Electrical Engineering AE: Architectural Engineering / EL : Electronic Engineering





STRONG POINT

CES has a team of skilled technical professionals, offering comprehensive support from feasibility analysis and project consulting to basic engineering, FEED, procurement, and construction, providing total solutions to customers..

Rich Engineering Experience

27 Engineers with over 20 Years of Experience from Major Companies

Analysis / Simulation

7 Ph.D.'s / 4 Professional Engineers
Elite Professionals Skilled in Process Simulation and CFD

Σ



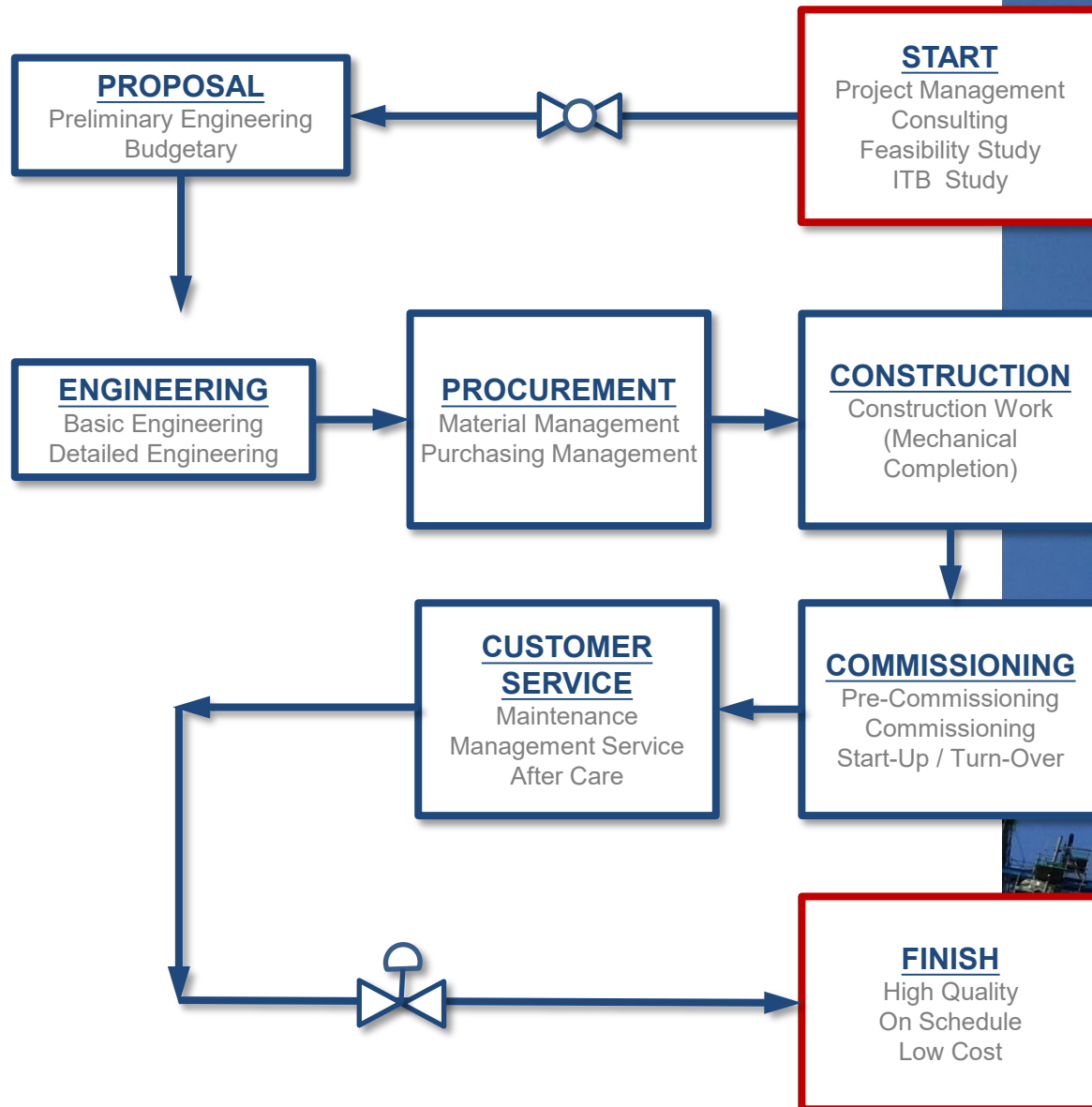
We Provide

**TOTAL
SOLUTION**

=

Feasibility Study
Project Consulting
PDP Coordinator
FEED Engineering
EPC Contractor
&
Special Engineering

PROJECT PROCEDURE



CERTIFICATES

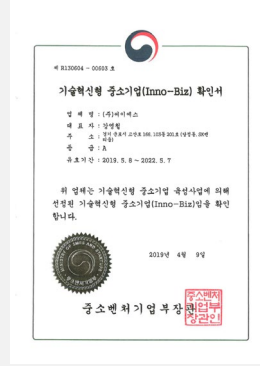
Click the image to see the full picture on the CES homepage (www.ceseng.co.kr).



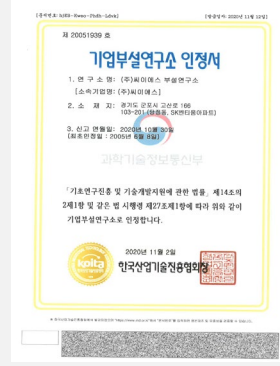
ISO 45001 Certificate



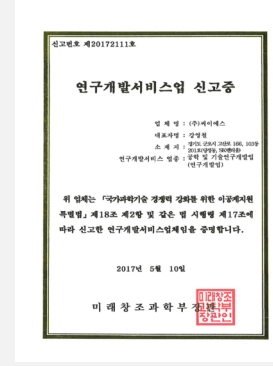
ISO 9001 Certificate



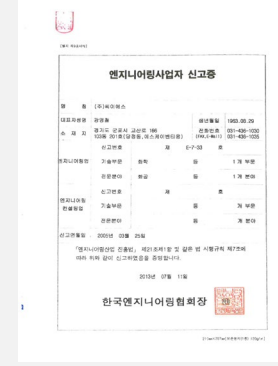
Technical Innovative Business Confirmation



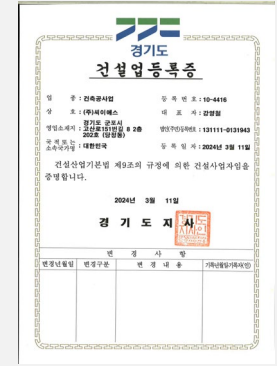
Certificate of R&D Center



R&D Service Certificate



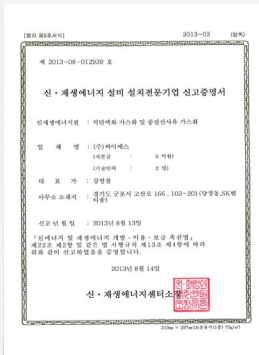
Engineering Operator Certificate



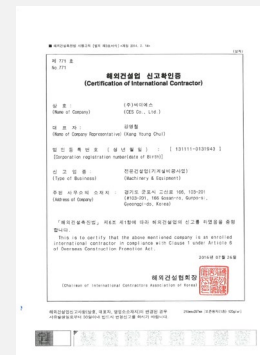
General Construction Business Confirmation Certificate



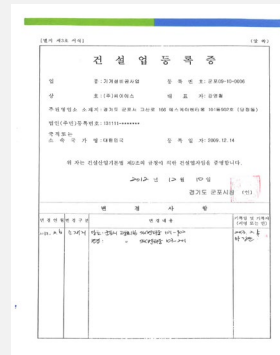
Certificate of Technical Achievement



Certificate of New and Renewable Energy Equipment Installation



Certification of International Contractor



Construction Registration Certificate



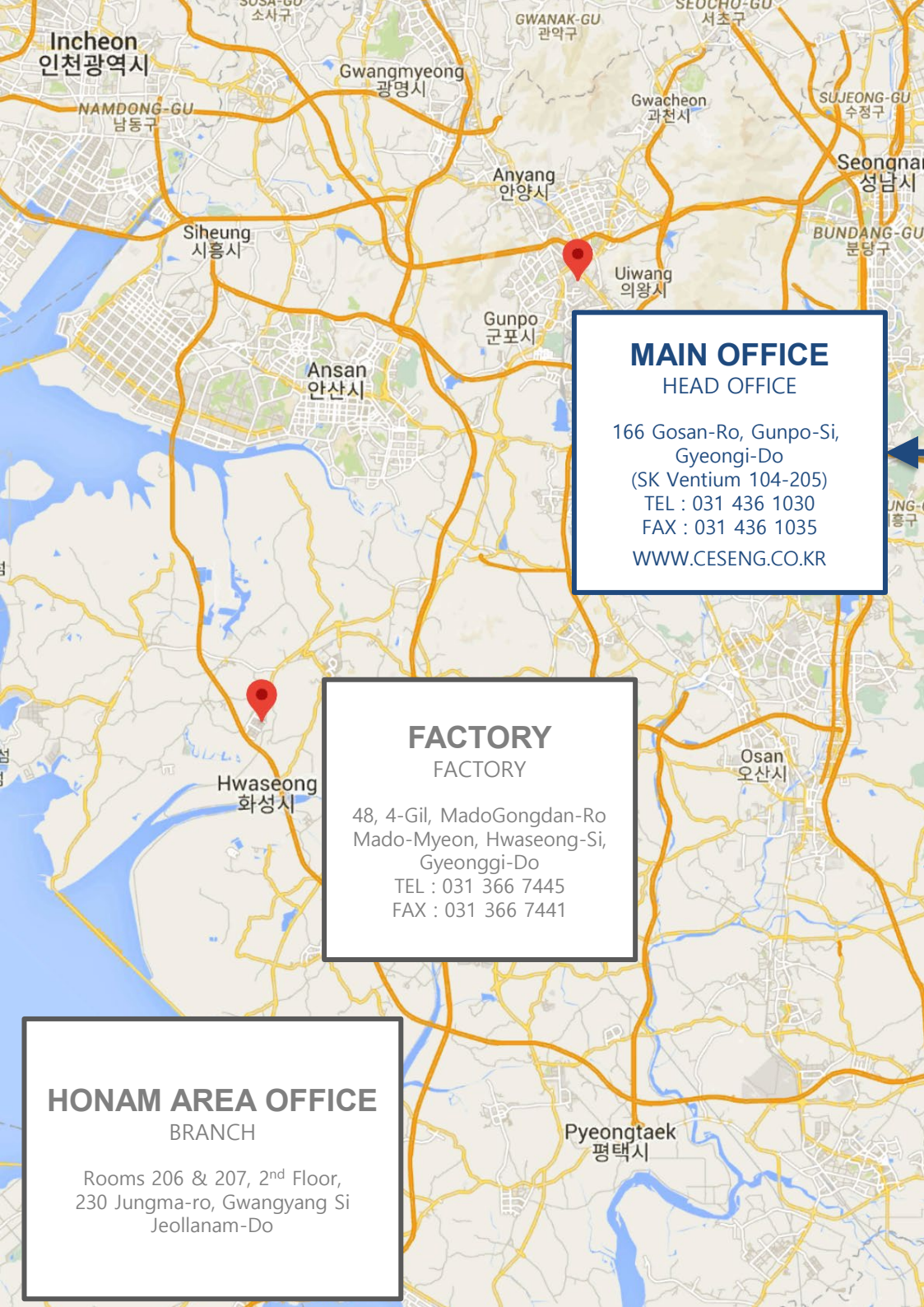
Service Mark Registration Certificate



Business License



Certificate of Venture Enterprise



MAIN OFFICE HEAD OFFICE

166 Gosan-Ro, Gunpo-Si,
Gyeonggi-Do
(SK Ventium 104-205)
TEL : 031 436 1030
FAX : 031 436 1035
WWW.CESEN.CO.KR

FACTORY FACTORY

48, 4-Gil, MadoGongdan-Ro
Mado-Myeon, Hwaseong-Si,
Gyeonggi-Do
TEL : 031 366 7445
FAX : 031 366 7441

HONAM AREA OFFICE BRANCH

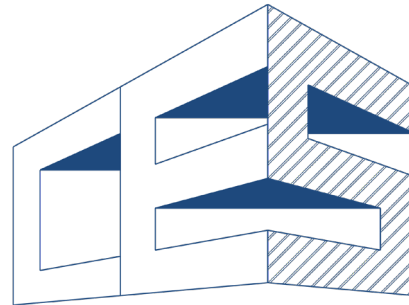
Rooms 206 & 207, 2nd Floor,
230 Jungma-ro, Gwangyang Si
Jeollanam-Do

LOCATION



CHAPTER 2

WORK SCOPE



**CONSTRUCTION
ENGINEERING SERVICE**

6 Pages

Work Scope Classified by Technical Field / Task / Project Scale
What We Do Best : Polyolefin Plant / Pilot Plant / Lab Engineering / Modular or Skid-mounted Plant



WHAT WE DO

Work Scope by Technical Field

CES has accumulated a wide range of experiences and skills, especially in chemical/petrochemical, environmental and energy sectors, among the broad range of industrial plants.

CHEMICAL / PETROCHEMICAL

Polymer Production Plant
Chemical Production Plant
Solvent Recovery



ENVIRONMENT

CO₂ Recovery / Separator
Dry / Wet / Membrane CO₂ Capture
NH₃ Stripping Process
WGS Reaction
Desulfurization



ENERGY

DME, DMC Production
Clean Hydrogen from Ammonia
Integrated Gasification Combined Cycle





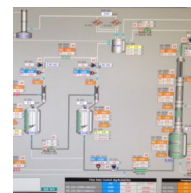
WHAT WE DO

Works Scope by Task

Starting with feasibility study/simulation of the projects, CES is carrying out the entire process of basic/detail engineering, project management, purchase as well as construction and licensing, and commissioning.

ENGINEERING

Feasibility Study / Simulation
Basic Engineering
FEED / Detail Engineering
Project Management Consulting



PROCUREMENT

Long Lead Item Procurement
Inspection & Expediting
Sub-Contractor Control



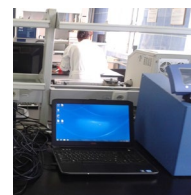
CONSTRUCTION

Construction / Commissioning
Site Supervising
Plant Start-Up
Licensing



SPECIAL ENGINEERING

Heat Transfer, Flow Analysis
Material Analysis
Lab. Engineering
Modular Plant Design
Customized Engineer Training
Customized Zig Design



WHAT WE DO

Work Scope by Project Scale

CES has the ability to handle from labs and pilot plants to large commercial plants, supporting customer's needs. It is committed to every project, regardless of its size.

PILOT PLANT

Small Facilities for R & D
Catalyst Performance Test
Cu, Zn Recovery
E / EP / EPC Turnkey



DEMO PLANT

CO₂ Recovery
Desulfurization Process
SNG Purification
E / EP / EPC Turnkey



COMMERCIAL PLANT

PB-I Project
IGCC – WSA Project
High Purity N-Hexane Project
E / EP / EPC Turnkey





WHAT WE DO BEST

POLYOLEFIN, PILOT PLANT

Worldwide plastic production is over 300 million tons per year. And more than half of them are polyolefin products such as polyethylene and polypropylene. Polyolefin is cheaper than other materials and has excellent physical properties, so its consumption is steadily increasing. Accordingly, the competition of companies trying to preoccupy the market is getting more intense.

More efficient processes, improved product characteristics, and optimized catalysts all secured through numerous experiments and trials and errors are needed to improve the competitiveness of polyolefin plants. And because it is difficult to perform these tasks in commercial plants, many companies are doing R&D using a separate pilot plant.



We have extensive experience and expertise in the field. Our major experiences for polyolefin plants are :

<i>Client</i>	<i>Project</i>	<i>Experience</i>
Ylem	PB1 Commercial	EPC
Hanwha Total	PIB Commercial	Basic Engineering
Hanwha Total	ADL (PO Pilot)	Detail Engineering
LG Chemical	PO Pilot	Detail Engineering
Sibur (Russia)	PO Pilot	Conceptual Design
Sibur (Russia)	PO Pilot	Basic Engineering
Hyosung Chemical	PO Pilot	Basic Engineering
Hyosung Chemical	PO Pilot	EPC
S-Oil	PO Lab	EPC

CO₂ SEPARATION & RECOVERY

CES has a variety of technologies to capture CO₂, which negatively impacts our environment. These technologies have demonstrated economic feasibility and performance in many projects. CES' carbon dioxide treatment process can be applied to various industries such as power plant and chemical plant.

WHAT WE DO BEST

LAB ENGINEERING

CES' LAB ENGINEERING is a service that reliably supports all the needs of the customers who operate the laboratory. CES determines the specifications of laboratory equipment, furniture, reagents, glass, etc. to design and purchase/construct the laboratory, and is responsible for various advice including technical support for equipment and safety consulting.

CES' veteran engineers with extensive laboratory experience will provide your lab with a true 'engineering solution', not just buying or installing equipment.

CARBON – FREE HYDROGEN

Clean hydrogen is gaining attention as the energy of the future, but producing hydrogen without generating carbon dioxide is not easy. CES possesses patented technology for a reactor and process that extracts clean hydrogen from ammonia without producing carbon dioxide, and is committed to working towards a cleaner future.



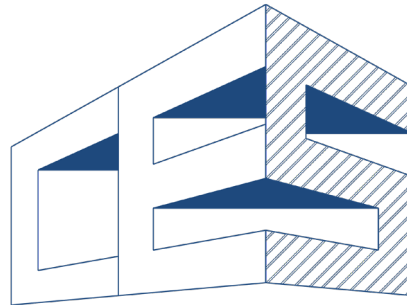
MODULAR / SKID-MOUNTED PLANT

Modular construction is one of the most efficient and cost-effective methods to build a plant. It needs just 1- 2 weeks for on-site setup, so plant can be in operation in weeks instead of months



CHAPTER 3

ENGINEERING TOOLS



**CONSTRUCTION
ENGINEERING SERVICE**

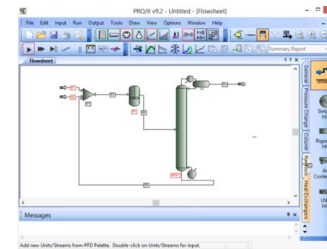
5 Pages

Process
Mechanical
Piping
Electric / Instrumental
CAS / General Tools

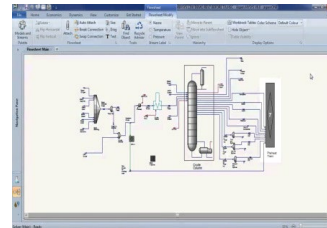


ENGINEERING TOOLS (1/5)

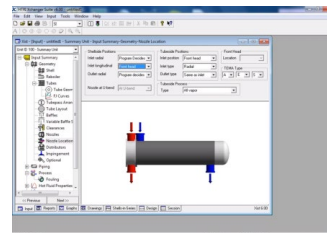
PROCESS TOOLS



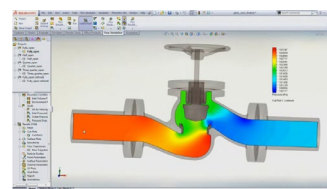
PRO II
Process Simulation



ASPEN / ASPEN HYSYS
Process Simulation



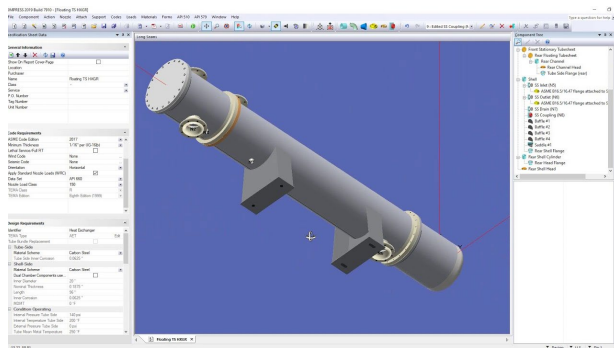
HTRI
H/E Thermal Rating & Design



SOLIDWORKS FLOW SIMULATION
Computational Fluid Dynamics

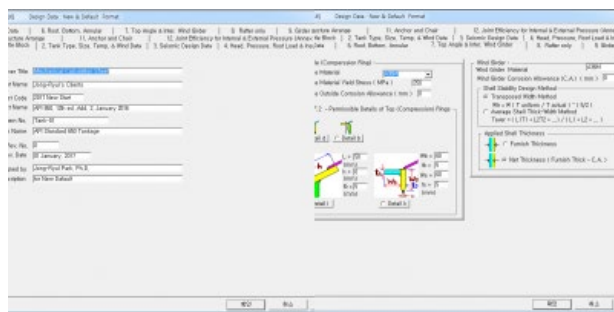
ENGINEERING TOOLS (2/5)

MECHANICAL TOOLS



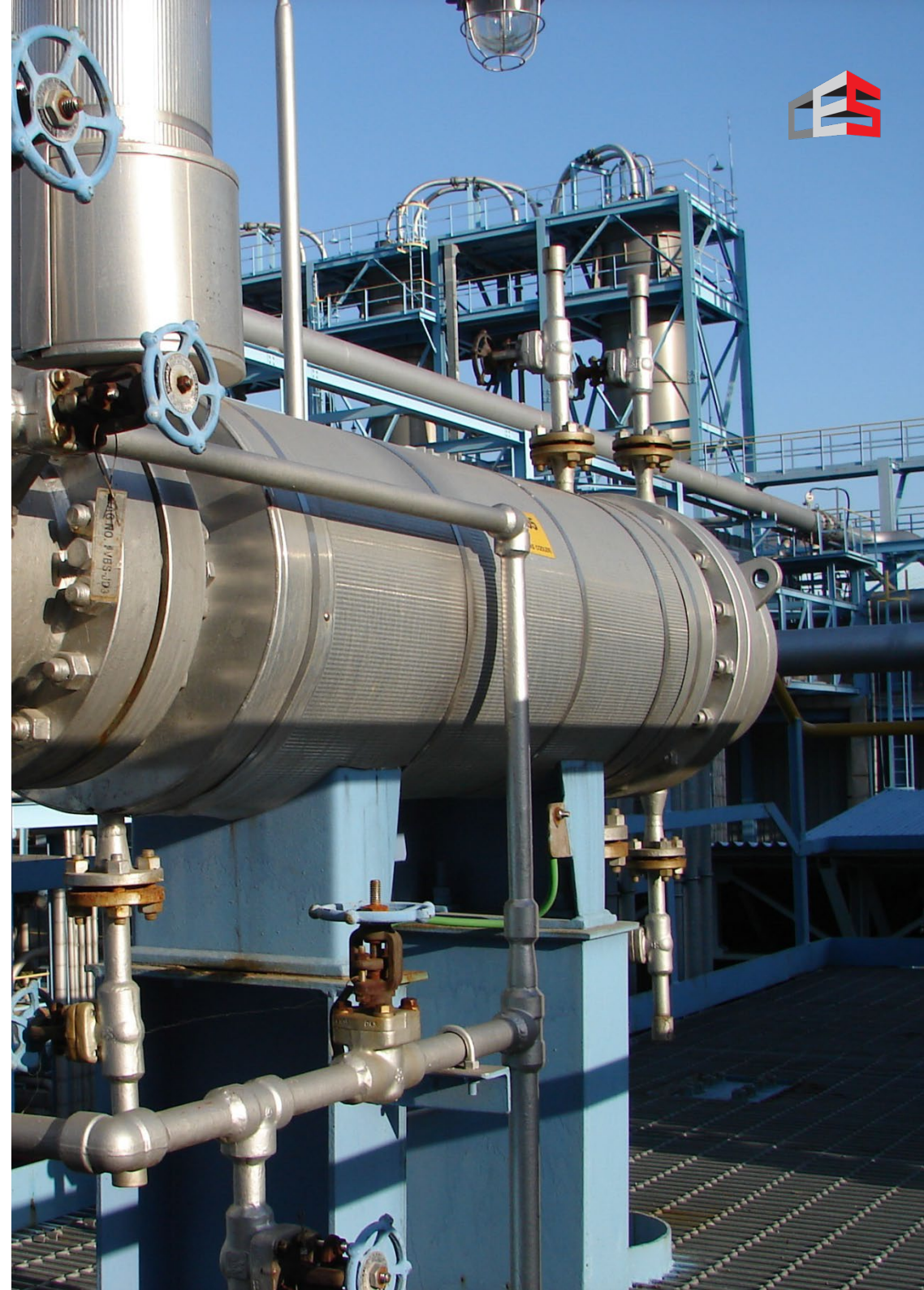
COMPRESS

Pressure Vessel and TEMA Type H/E Design
(Available via Business Partner)



OPTIMA TANK 650

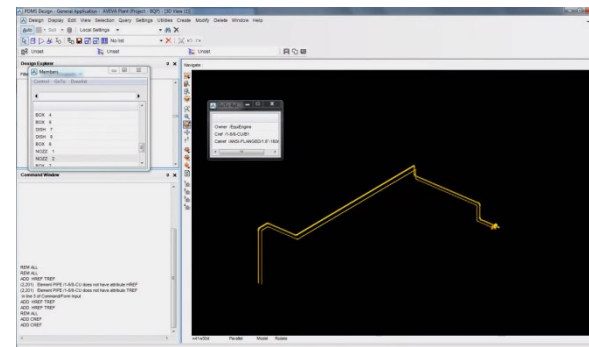
API Standard 650 Tank Analysis
(Available via Business Partner)





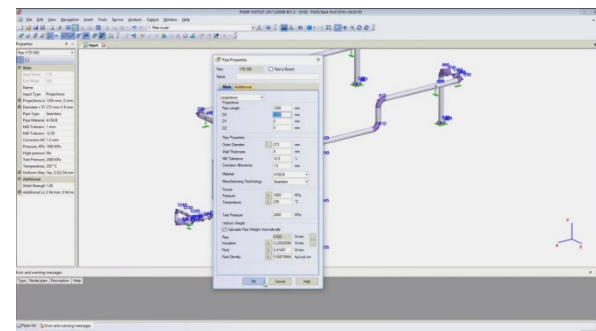
ENGINEERING TOOLS (3/5)

PIPING TOOLS



PDS, PDMS

3D Modeling & Design Review
(Available via Business Partner)

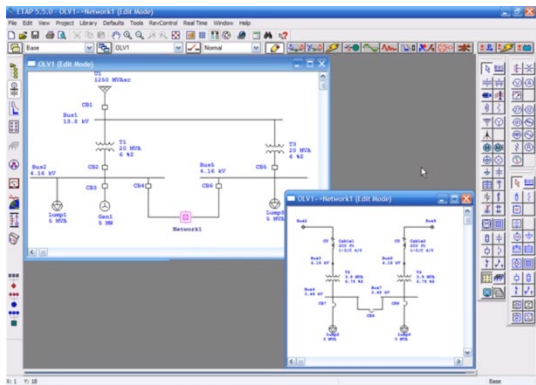


CAESAR II

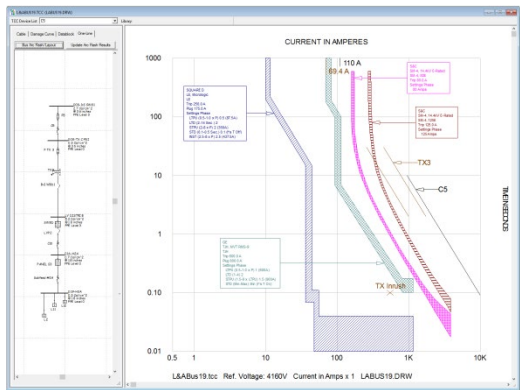
Stress & Dynamic Analysis
(Available via Business Partner)

ENGINEERING TOOLS (4/5)

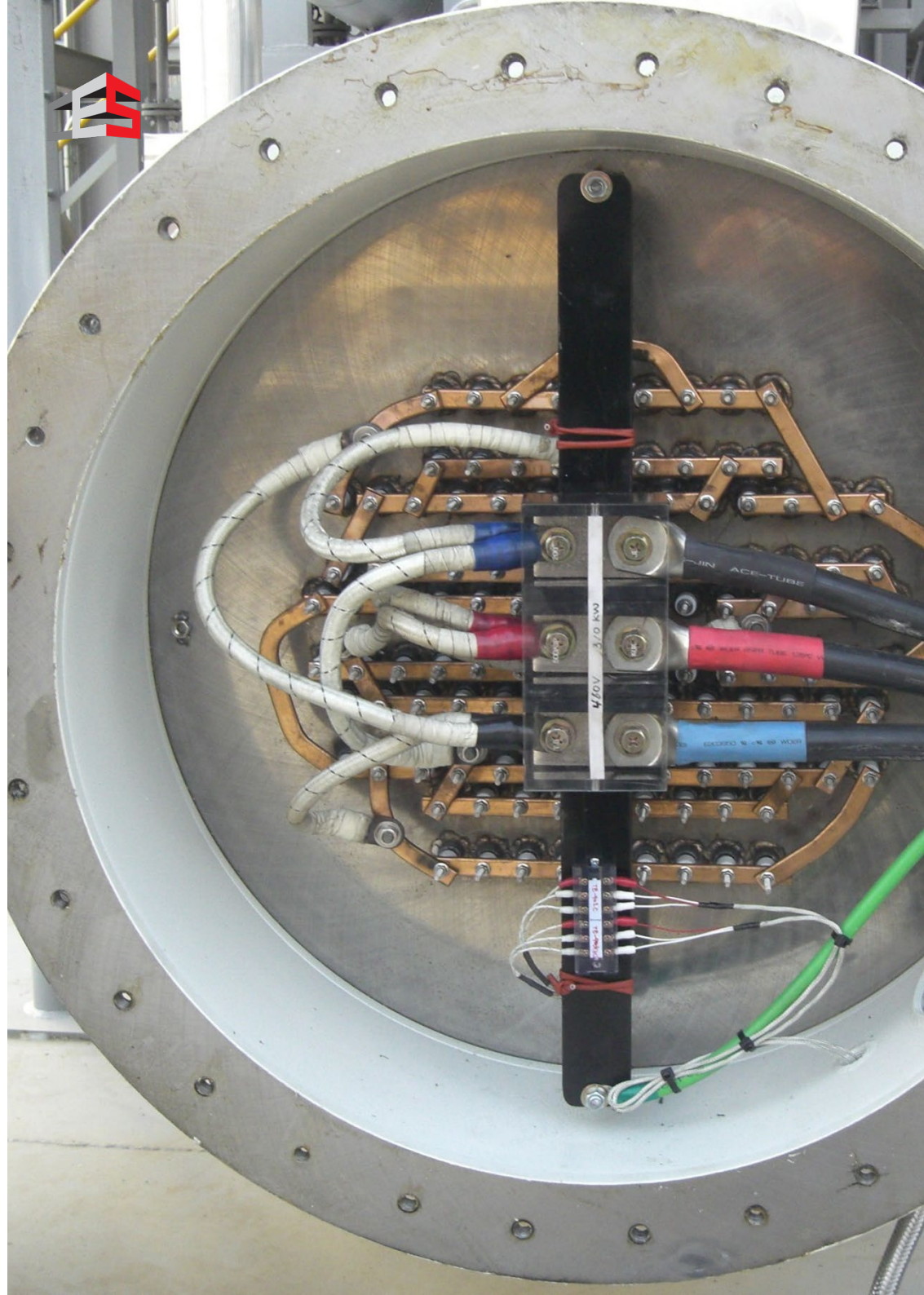
ELECTRICAL / INSTRUMENTAL TOOLS



ETAP POWER STATION
Power System Analysis
(Available via Business Partner)



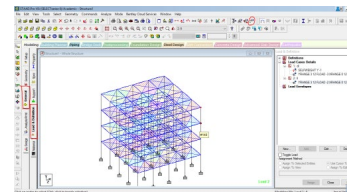
POWER TOOLS
Power Systems Analysis & Design
(Available via Business Partner)



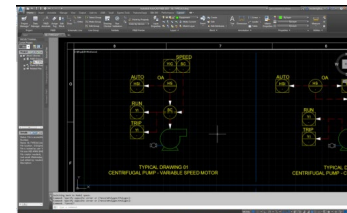


ENGINEERING TOOLS (5/5)

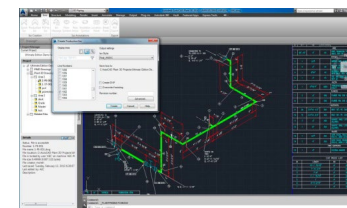
CAS / GENERAL TOOLS



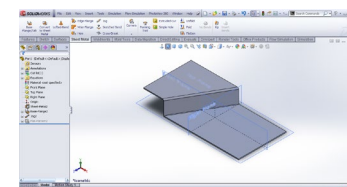
STAAD Pro
Structure Analysis
(Available via Business Partner)



AUTOCAD
2D Drafting



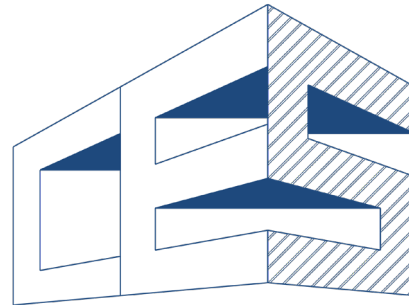
AUTOCAD 3D PLANT
3D Modeling & Design Review



SOLIDWORKS PREMIUM
3D Modeling & Design Review

CHAPTER 4

MAJOR PROJECT LIST



**CONSTRUCTION
ENGINEERING SERVICE**









5 Pages

Major Project List
R&D List / Patent

MAJOR PROJECT LIST (1/5)

E : Engineering / P : Procurement / C : Construction / S : Supervising

PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Scope	Remark
1		2017	POSNEP PP-3 Acid Recovery System	EPC / DP	Posco E&C
2		2015	O ₂ Backup System Design And Review Service	E	Posco E&C
3		2015	Project Service for Underground Crude Base	E	Posco E&C, Vietnam
4		2015	CO ₂ Separator Package	EPC / DP	Posco Engineering
5	 HYUNDAI CHEMICAL	2021	HPC Laboratory Service Project	EPC	
6	 Hyundai Oilbank	2020	Research Center Laboratory Project	EPC	
7		2020	Structure Review According to Storage Tank Type Change	E	
8		2018	Flare Load Summary Update	E	
9		2018	PSV, Ruptured Plate Breather Valve design service	E	
10		2020	KNPC Stripper PSV Dynamic Study	E	
11		2020	HPC ESD Logic Diagram Project	E	
12		2017	Wet Pilot Collection Process Heat Integration Process Establishment	E	
13		2017	Fabrication And Installation of Dry / Separator Capture Process Plant	EPC / PP	KIER
14		2016	Gas Feed Blower / Additional Installation Other than Heat exchanger	PC	
15		2015	100Nm ³ /h Scale Wet Capture Process Projection Installation	EPC / PP	
16		2016	Solvent Recovery System Additional Construction	PC	
17		2015	Solvent Recovery System Design And Construction	EPC / CP	
18		2016	UNIT-7 Revamping Project And Additional Construction	EPC / CP	
19		2016	C - PROJECT FEED Supervision	E	
20		2012	High Purity N-Hexane Project	ECP / CP	DONGSUNG HICHEM

MAJOR PROJECT LIST (2/5)

E : Engineering / P : Procurement / C : Construction / S : Supervising

PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Scope	Remark
21	 IAE 고등기술연구원 Institute for Advanced Engineering	2019	Thermodynamic CO ₂ Methanation Process Detail Engineering	E	
22		2019	1MW IGFC System Economic Feasibility	E	
23		2018	S – Project Pilot Plant	EPC / PP	
24		2015	0.1MW CO ₂ Capture And Supplementary Equipment	EPC / PP	
25		2015	CU / Zn Recovery Pilot Plant Construction	EPC / PP	
26		2013	WGS Reaction Project	EPC / PP	
27		2013	MeOH Pilot Plant Renovation Work	EPC / PP	
28	 DOOSAN 두산중공업	2021	2MW P2G System Detail Engineering	E	
29		2015	WSA Commissioning Supervision Service	E	
30	 TPT PACIFIC TAEYANG PROCESS TECHNOLOGY	2013	PH Recovery Project	EPC / PP	
31		2013	CO ₂ Capture Absorber Pressurizing Project	EPC / PP	POSCO
32		2012	Recovery System of Induced Water-Soluble Induced Substances	E	KIMM
33	 SFC	2020	PC (V1) Project	E	
34		2018	SCPE & PO Tank Project	E	
35		2017	SDC BEP Project	E	
36	 SUNGJIN	2017	Oil Sand SAGD CPF Pilot Detail Engineering	E	Electrical / Instrument
37		2016	Oil Sand Pilot Plant Feasibility Study / Cost Estimation	E	
38	 KEPCO E&C	2022	10 TPD CO ₂ Process Simulation	E	
39		2015	0.1MW CO ₂ Fabrication / Installation of Capture And Incidental Facilities	EPC / PP	
40		2014	1MW Production of Pollution Gas Refining Facility	EPC / PP	
41	 LOTTE CHEMICAL	2022	UC Wastewater recycling facility Engineering service	E	

MAJOR PROJECT LIST (3/5)

E : Engineering / P : Procurement / C : Construction / S : Supervising







PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Scope	Remark
42	 RIST <small>산업포항산업과학연구원</small> <small>Research Institute of Industrial Science & Technology</small>	2016	Basic Design Service for COG Refining Facilities for H ₂ S Removal	E	
43		2015	CO ₂ Capture Facility Using DME	EPC / PP	
44		2014	Modifying / Complementing CO ₂ Absorption Device for COG Processing	PC	
45		2014	Modifying / Complementing CO ₂ Absorption Device for COG Processing	E	
46		2013	SNG CO ₂ Removal Project	EPC / PP	
47	 Dow	2018	MO DECOMM Project	C	
48	 GreenComm <small>TECHNOLOGIES</small>	2021	Ethiopia GTL Project	PMC	Project Management Consulting
49	 KIER <small>한국에너지기술연구원</small> <small>KOREA INSTITUTE OF ENERGY RESEARCH</small>	2018	Development and Economic Review of CO ₂ Processing Process PDP for 200t/hr Natural Gas Facilities	E	
50		2018	Optimal Process Analysis for Improving the Development Efficiency of Chemical Looping Power Generation System	E	
51		2018	Analysis of the Performance of Chemical Looping Power Generation System According to Changes in Composition And Operating Conditions	E	
52		2017	0.5MW CLC Project	EPC / PP	
53		2016	0.5MW Chemical Looping Power Generation System Fabrication Installation And Optimal Process Analysis	E	
54		2015	Sour WGS Reaction System Production And commissioning	EPC / PP	
55	 HYOSUNG <small>CHEMICAL</small>	2022	EPC for PO Pilot Plant	EPC	
56		2021	Basic and Detail Engineering for Polypropylene Pilot Plant	E	
57	 SUNBO FAMILY	2022	Basic Design Package of Ammonia Supply System	E	
58	 EcoPro	2014	PFC Disassembly Facility Start-up Supervision	E	
59		2014	PFC Disassembly Facility Design Supervision	E	
60	 Gudow Chem.	2019	MDI Expansion Basic And Detail Engineering	E	

MAJOR PROJECT LIST (4/5)

E : Engineering / P : Procurement / C : Construction / S : Supervising



PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Scope	Remark
61		2020	Ultrason MOC Engineering	E	
62		2020	TDI PSV Scenario / Calculation	E	
63		2019	Ultrason PSV Scenario / Calculation	E	
64		2017	AnMNB Plant Expansion PSV Capacity Review Service	E	
65	 HI-TECH Engineering	2021	T1 Project Detail Engineering (PBAT)	E	
66	 Hanwha E&C	2017	HTC SM3 BEP Support : CAD, P&ID Service	E	
67		2013	KNPC CFP Project Design Service	E	
68		2023	CO ₂ Capture Pilot Plant Engineering Design & Procurement	EP	
69		2023	BDP Development Service for Waste Polystyrene Depolymerization Process Development Project		
70		2023	No.1 polymer pilot modification(I1-Modification)		
71		2022	Investment Cost Estimation of EVOH	E	
72		2021	EVOH Investment cost Calculation Service	E	
73		2019	New Polymer Pilot Plant Design Service	E	
74		2018	PIB Basic Engineering Package	E	
75		2011	Detailed Design And Construction of NH ₃ Stripping Package in Tangjeong D.C. Wastewater Treatment Facility	EPC / CP	
76		2020	PSC Pilot Project Basic Engineering	E	
77		2024	SIBUR Silica Catalyst Basic Design Package Design	E	
78		2008	PB-I Project	EPC / CP	

MAJOR PROJECT LIST (5/5)

E : Engineering / P : Procurement / C : Construction / S : Supervising

PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Scope	Remark
79		2022	Simulation of 10TPA CO ₂ Capture Process	E	
80		2017	UF ₆ Cylinder Cleaning And Periodic Inspection Facility	EPC / PP	
81		2023	Manufacture and installation of CO ₂ absorption tower	P	

R & D PROJECT LIST

No.	R&D Agency	PERIOD	PROJECT
1	Korea Evaluation Institute of Industrial Technology (KEIT)	2016. 10. 1 ~ 2019. 09. 30	Engineering Education System of Integrated Design by Case Based Plant Process and Safety
2	Korea Institute of Energy Technology Evaluation and Planning (KETEP)	2017. 5. 1 ~ 2020. 4. 30	Development of LNG-grade Synthetic Natural Gas Production Technology Based on Coal Gasification
3	Korea Institute of Energy Technology Evaluation and Planning (KETEP)	2018. 6. 1 ~ 2021. 5. 31	Development of Hydrogen Production And Purification System Using Ammonia Cracking
4	Korea Evaluation Institute of Industrial Technology (KEIT)	2020. 8. 1 ~ 2022. 12. 31	Development of the Ethylene Oligomerization Technology for the Selective Production of 1-Hexene/1-Octene
5	Korea Agency for Infrastructure Technology Advancement (KAIA)	2022. 4. 1 ~ 2028. 12. 31	Development of hybrid thermal recovery and circulation system technology to produce unconventional oil in high yield and low-environmental impact
6	Korea Institute of Energy Technology Evaluation and Planning (KETEP)	2022. 11. 1 ~ 2025. 8. 31	Development of cryogenic CO ₂ capture process using LNG cold heat
7	Korea Evaluation Institute of Industrial Technology (KEIT)	2023 1. 1 ~ 2024. 12. 31	Development of the Ethylene Oligomerization Technology for the Selective Production of 1-Hexene/1-Octene (stage 2)

PATENT LIST

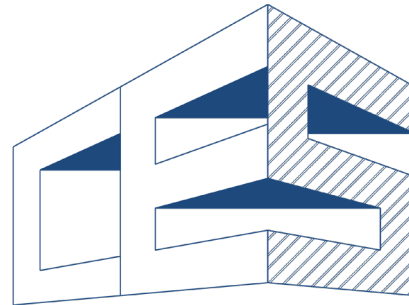
No.	STATUS	PATENT NUMBER	TITLE OF THE INVENTION
1	Registered	KR 101886964	Manufacturing Method of Metal-Silica Catalyst
2	Registered	KR 102051037	Apparatus for Educating Plant Process and Safety Integrated Design and Method Thereof
3	Registered	KR 102203335	Method for Preparing Synthetic Natural Gas Having Improved Caloric Value And Systems for the Same
4	Registered	KR 102315763	Production System of Purified Hydrogen Gas by Decomposing Ammonia Gas
5	Registered	KR 102482521	A Reactor for Ammonia Decomposition Simultaneously Heated from both Inside and Outside the Tube
6	Registered*	KR 102423625	Hydrogen Production Reactor without Carbon Emission
7	Pending*	AU 2020267318	Hydrogen Production Reactor without Carbon Emission

* Technology Transfer from Korea Institute of Energy Research (non-Exclusive License)



CHAPTER 5

MAJOR PROJECT BRIEFING



**CONSTRUCTION
ENGINEERING SERVICE**

11 Pages

Pictures & Descriptions

MAJOR PROJECT BRIEFING (1/14)

YLEM TECHNOLOGY PB-I PROJECT / HYOSUNG CHEMICAL PO PILOT PLANT



**Ylem Technology
PB - I Project**
Yeosu Industrial Complex, Korea
PB-I 10,000 ton / yr
EPC Turnkey



**Hyosung Chemical
EPC for PO Pilot Plant**

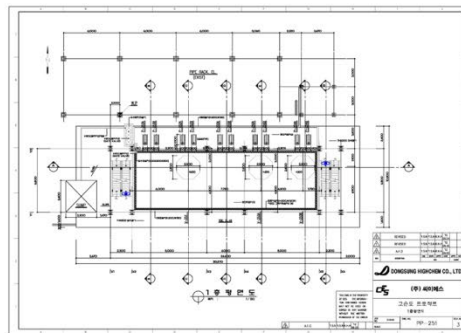
MAJOR PROJECT BRIEFING (2/14)

DONGSUNG HICHEM HIGH PURITY N-HEXANE PROJECT



Dongsung Hichem High Purity N-Hexane Project

Yeosu Industrial Complex, Korea
N-Hexane 5,000 ton / yr
EPC Turnkey



MAJOR PROJECT BRIEFING (3/14)

DOOSAN HEAVY INDUSTRY IGCC-WSA PROJECT



DOOSAN HEAVY INDUSTRY IGCC - WSA

Teon, Korea
Clean Gas 19,200 kg / hr
EP & Construction Supervising



MAJOR PROJECT BRIEFING (4/14)

LTC SOLVENT RECOVERY PROJECT



LTC SOLVENT RECOVERY

Hwaseong Bio Valley, Korea
Solvent Recovery 830 kg/hr
EPC Turnkey



MAJOR PROJECT BRIEFING (5/14)

CO₂ RECOVERY / SEPARATOR, NH₃ STRIPPING



RIST CO₂ RECOVERY DEMO PLANT

Pohang, Korea
Process Gas 1,200 kg / hr
EPC Turnkey



MAJOR PROJECT BRIEFING (6/14)

NH₃ STRIPPING / SNG PURIFICATION PROJECT



SAMSUNG ENGINEERING NH₃ STRIPPING PROJECT

Asan, Korea
NH₃ 1,500 kg / hr
EPC Turnkey

IAE HT HP SNG PURIFICATION

Yongin, Korea
SNG 100 m³ / hr
EPC Turnkey



MAJOR PROJECT BRIEFING (7/14)

CO₂ SEPARATOR / DMC PROJECT



POSCO ENGINEERING CO₂ SEPARATOR PROJECT

Posco, Gwangyang, Korea
Process Gas 1,200 kg/hr
EPC Turnkey

RIST DMC PROJECT

Pohang, Korea
UREA 40 kg / hr
EPC Turnkey



MAJOR PROJECT BRIEFING (8/14)

KOMIPO CO₂ COLLECTION FACILITY ABSORPTION TOWER PROJECT



**KOMIPO
CO₂ Collection Facility
Absorption Tower Project**
Boyrung Power Headquarters, Korea
EP / Installation



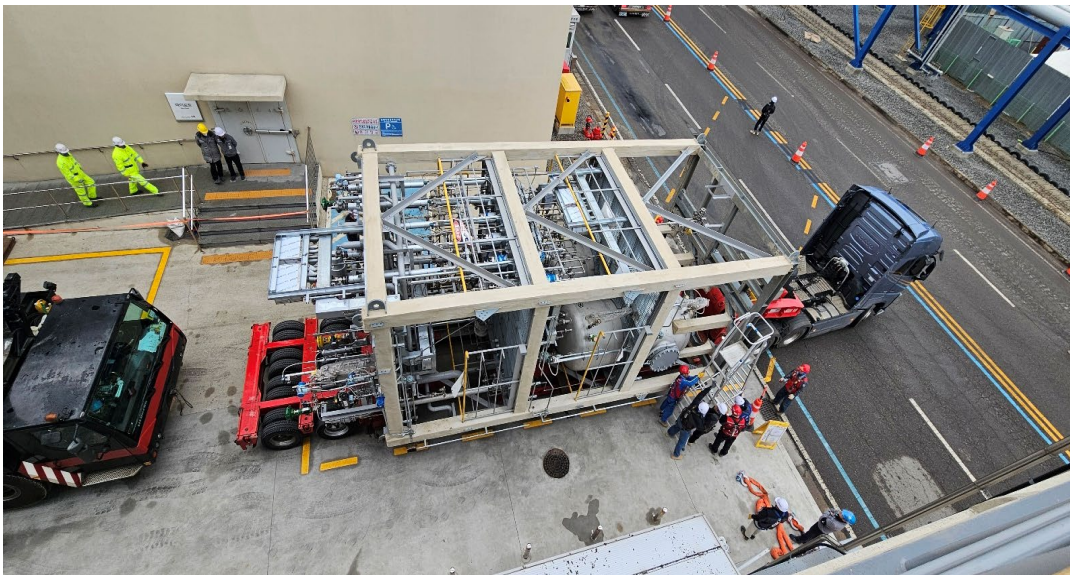
MAJOR PROJECT BRIEFING (9/14)

HTC I1 MODIFICATION PROJECT



HTC I1 Modification Project

Daesan, Korea
EPC



MAJOR PROJECT BRIEFING (10/14)

LAB ENGINEERING : HYUNDAI CHEMICAL



HYUNDAI OILBANK RESEARCH CENTER

Youngin, Korea
EP / Installation

HYUNDAI CHEMICAL LABORATORY

5412m²
Seosan, Chungnam, Korea
EP / Installation



MAJOR PROJECT BRIEFING (11/14)

LAB ENGINEERING



MGP PROJECT / LABORATORY

Oman / EPC Turnkey



**TORE PROJECT
LABORATORY**

Turkmenistan
EPC Turnkey



**TACE PROJECT
LABORATORY**

Turkmenistan
EPC Turnkey

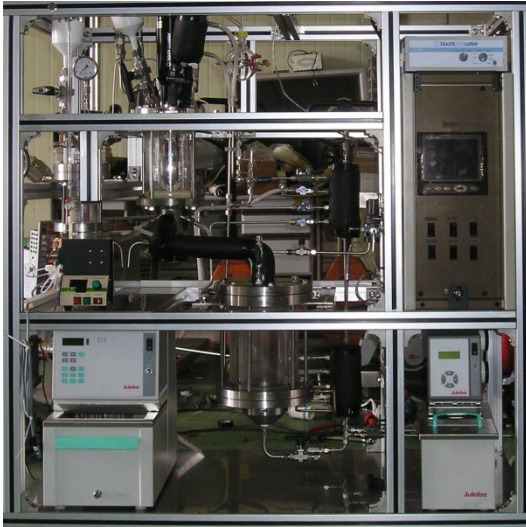
**UKAN PROJECT
GAS CHROMATOGRAPHY ROOM**

Uzbekistan
EPC Turnkey



MAJOR PROJECT BRIEFING (12/14)

PILOT PLANT / MISCELLANEOUS PROJECT



JOHNSON MATTHEY SCR PROJECT

EPC Turnkey

LG CHEMICAL PMI REACTION PILOT PLANT

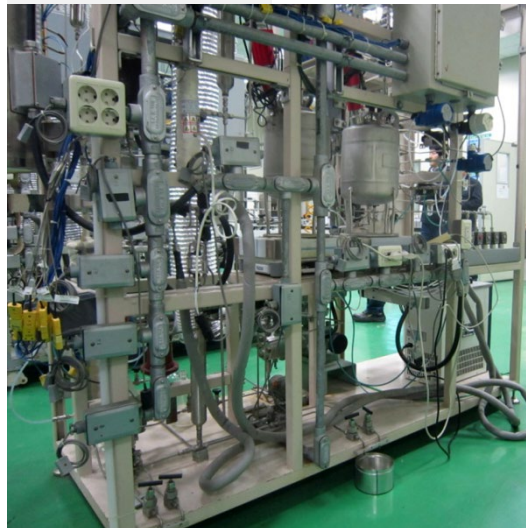
Yeosu, Korea
EPC Turnkey

GS CALTEX PILOT BLD. DETAIL DESIGN

Engineering / Licensing

SK CHEMICAL HPPO PROJECT

EPC Turnkey



IAE WGS REACTION PILOT PLANT

Yongin, Korea
EPC Turnkey

MAJOR PROJECT BRIEFING (13/14)

PILOT PLANT / MISCELLANEOUS PROJECT



**KCRC
WASTE GAS CAPTURE PILOT PLANT**

Daejeon, Korea
Membrane Type / Dry Type
EPC Turnkey



**KIER
CONTINUOUS
CO₂ RECOVERY
PILOT PLANT**

Daejeon, Korea
CO₂ : 10 Nm³ / hr
EPC Turnkey



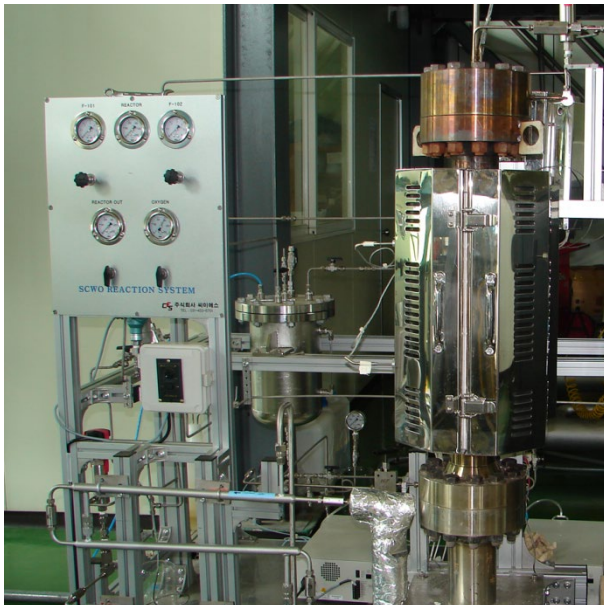
**KIER
HEAT TRANSPORT PLANT
USING METHANOL**

Daejeon, Korea
EPC Turnkey



**IAE
Cu / Zn RECOVERY
PILOT PLANT**

Yongin, Korea
Solid Waste : 600 kg / hr
EPC Turnkey



**KEPCO
SCWO REACTION
PILOT PLANT**

EPC Turnkey



**KIER
WGS REACTION
PILOT PLANT**

Daejeon, Korea
EPC Turnkey

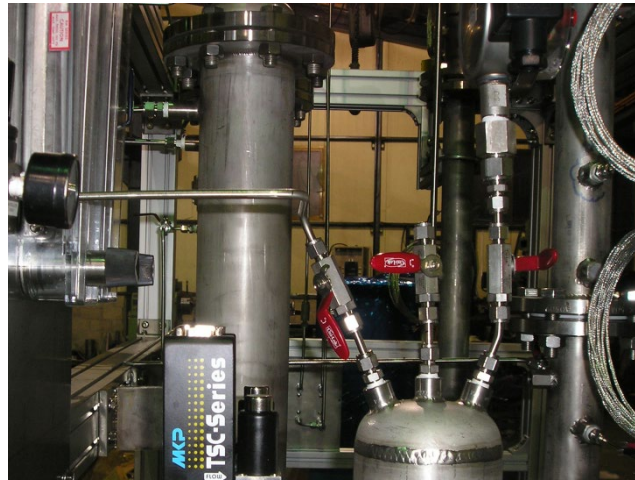
MAJOR PROJECT BRIEFING (14/14)

PILOT PLANT / MISCELLANEOUS PROJECT



**UNION
CHEMICALS
TPU PROJECT**

Construction



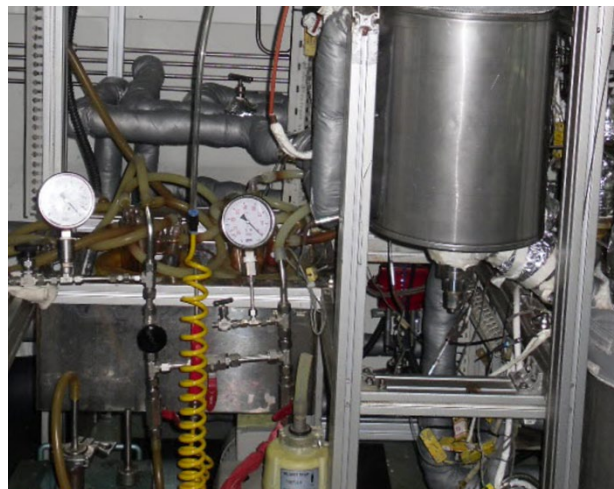
**TPT PACIFIC
CO₂ REDUCTION
PILOT PLANT**

Pohang, Korea
EPC Turnkey



**LG CHEMICAL
PE PILOT
IMPROVE PROJECT**

Yeosu, Korea
Detail Engineering



**SK CHEMICAL
DEIODINE
PILOT PLANT**

EPC Turnkey

The Next ...

**MAYBE YOUR
PROJECT**



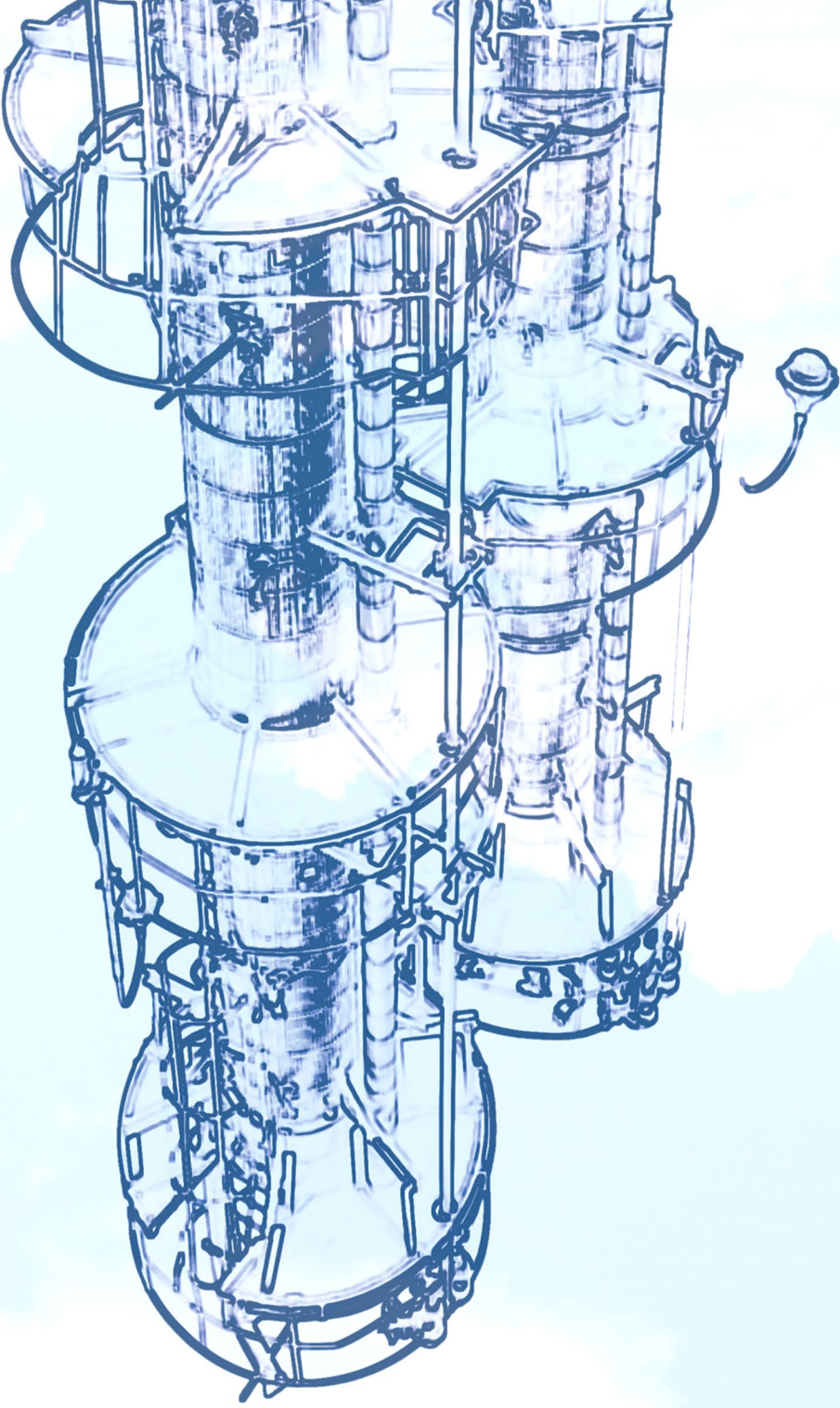
CONSTRUCTION
ENGINEERING SERVICE





CONSTRUCTION
ENGINEERING SERVICE





One of the most important values we pursue is customer satisfaction. The reason why the company name is CES is because it considers customer "service" as the most important value along with "construction" and "engineering". We pride ourselves on being the best in this field and we will prove it to you.

CONSTRUCTION
ENGINEERING SERVICE



THANK YOU

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