



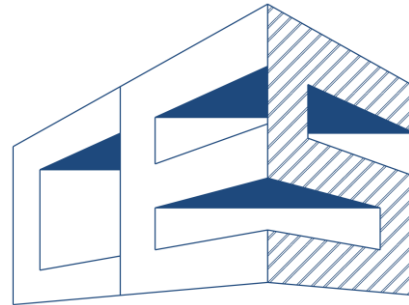
CONSTRUCTION
ENGINEERING SERVICE



CES : CATALOGUE

CHAPTER 1

COMPANY OVERVIEW



CONSTRUCTION ENGINEERING SERVICE

8 Pages

Welcome / Brief History

Organization / Manpower

Strong Points / Project Procedure

Certificates / 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~

ISO 45001 Certification (2022)
Hydrogen Production Using NH3 Cracking (2021)



2011~2020

Registration of Overseas Construction Association (2016)
The opening of the Yeosu branch (2016)
Certification of new and renewable energy facilities, Installation company (2011)
Selected Enterprises: Inno-Biz (2011)



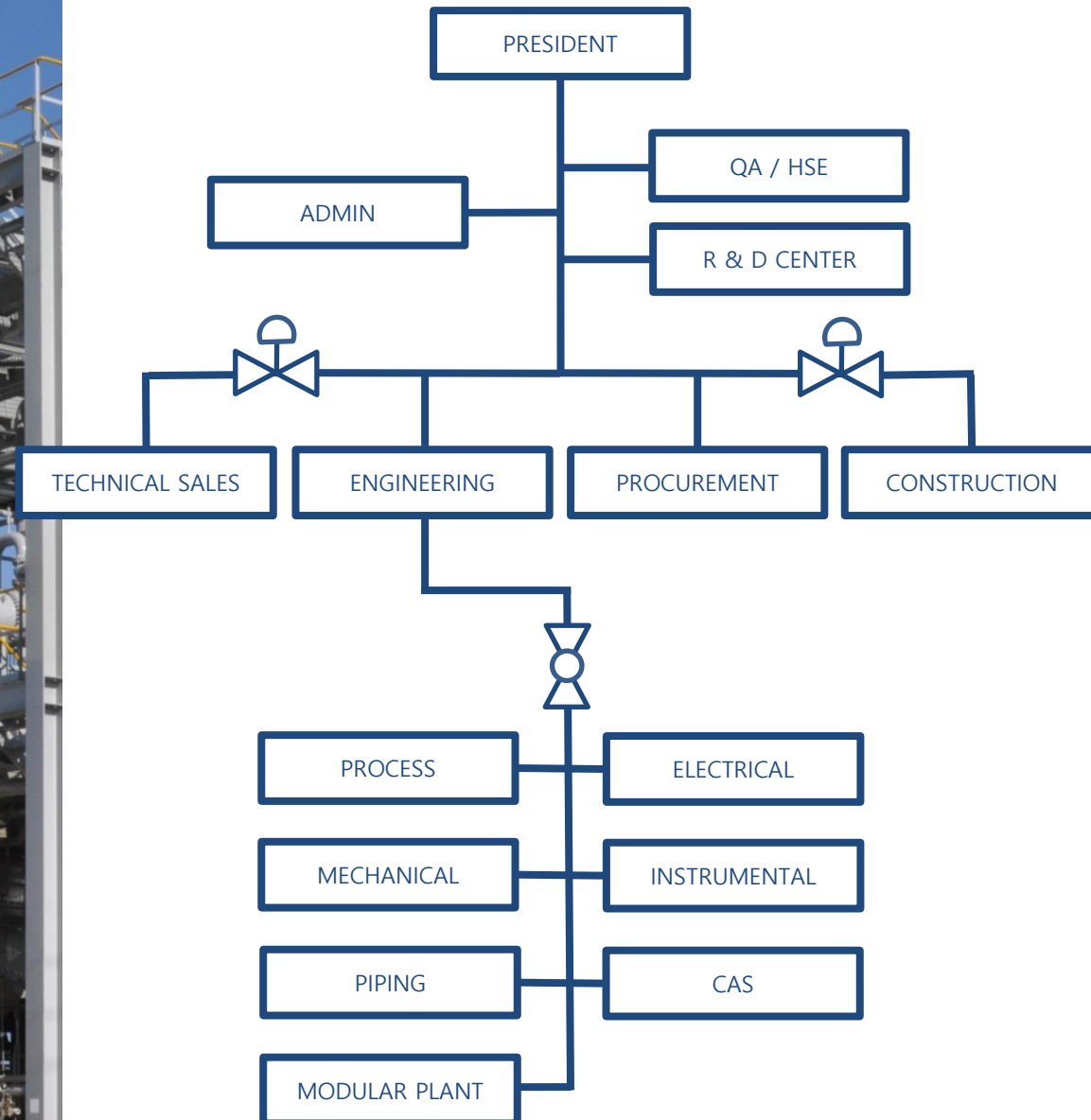
2005~2010

Factory relocation registration (2009)
Venture Business Certification (2006)
ISO 9001 Certification (2005)
Establishment of Research Institute (2005)
Acquired a Construction, Engineering license (2005)
Establishment of CES Corporation Co., Ltd (2005)





ORGANIZATION



MANPOWER

CES Co., Ltd. is working closely with suppliers who have proven their capabilities in plant-related fields to improve project completion.

STATISTICS			
Classification	Terms	Persons	Remark
By Work Scope	Process	21	Outsourcing (If Necessary)
	Mechanical	6	
	Piping	2	
	Electrical	2	
	Instrumental	2	
	CAS	1	
By Degree	Ph. D	7	CE 4, ME 2, MT 1
	MS	3	CE 3
	BS	24	CE 14, ME 5, EE 3, EL 1, AE1
By Official Qualification	Professional Engineers	3	CE 3
	Licensed Engineers	13	17 Licenses
By Experience	Over 20 Years	22	CE 10, ME 7, MT1, EE 2, AE 1, EL 1
	11~20 Years	1	CE 1
	0~10 Years	11	CE 10, EE 1
	Average Experience		20.3 Years

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





STRONG POINTS

CES Co., Ltd. has skilled technical personnel, ranging from feasibility analysis to project-related advice, basic engineering and FEED, to purchase and construction, and provides total solutions to customers.

Rich Engineering Experience

21 Engineers over 20 Years Experience from Major Company

Analysis / Simulation

7 Ph.D.'s / 3 Professional Engineers
Elite Manpower Skilled in Process Simulation, CFD



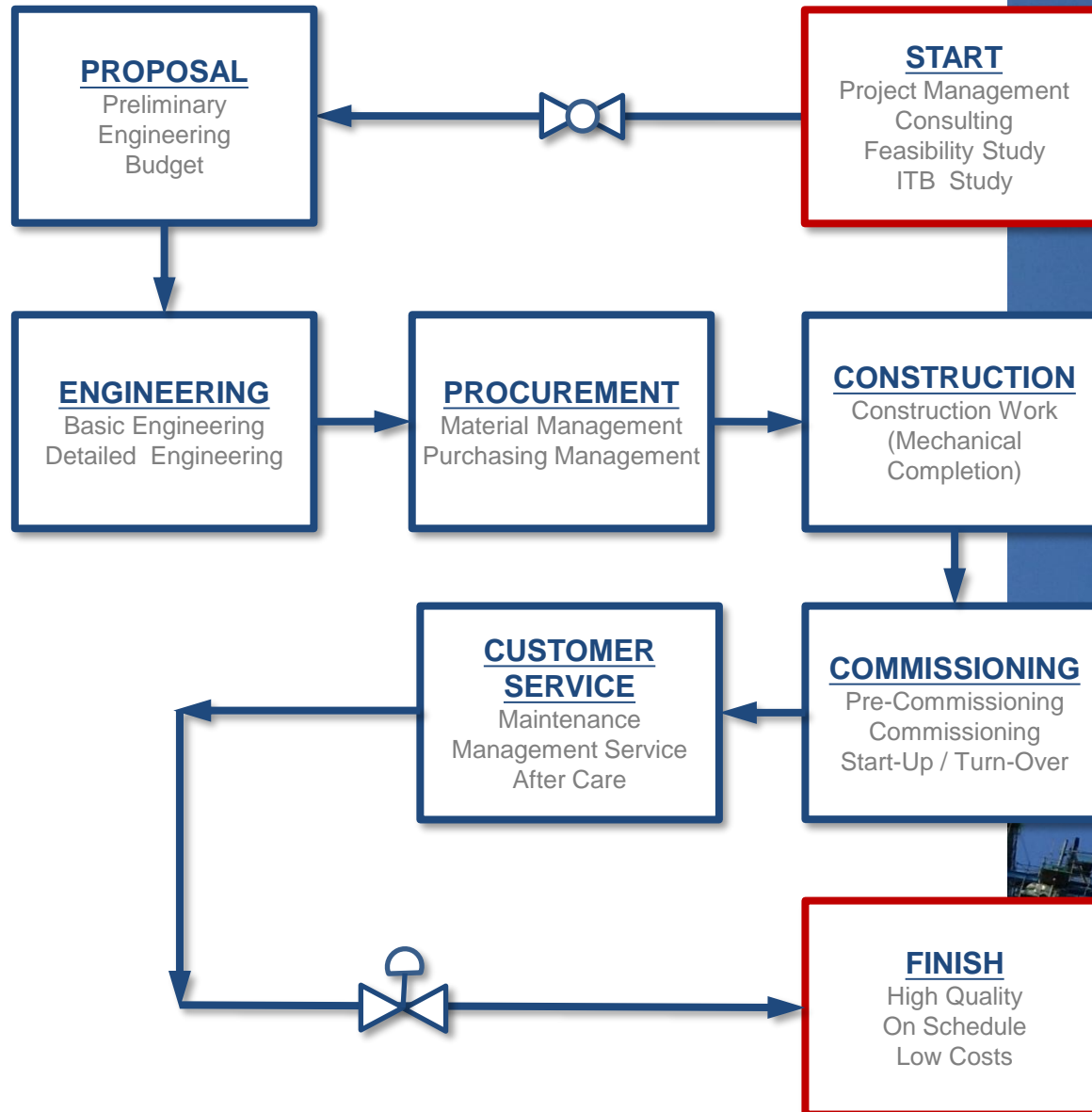
We Provides

**TOTAL
SOLUTION**

=

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

PROJECT PROCEDURE



CERTIFICATES

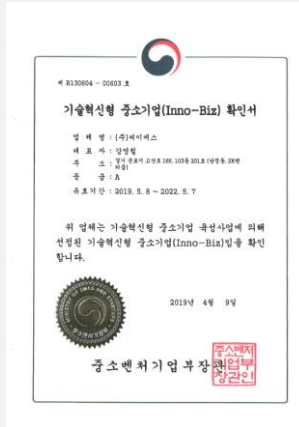
Click on the image to see the big picture on the CES homepage (www.ceseng.co.kr).



ISO 45001 Certificate



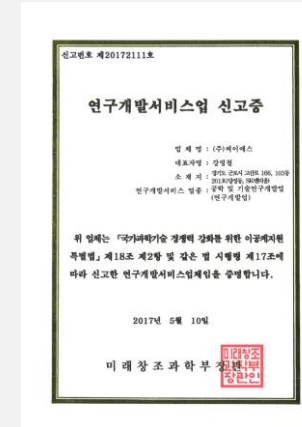
ISO 9001 Certificate



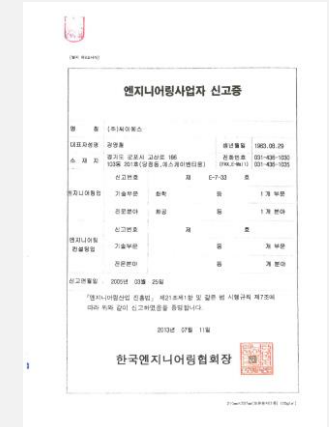
Technical Innovative Business Confirmation



Certificate of Company Research Institute



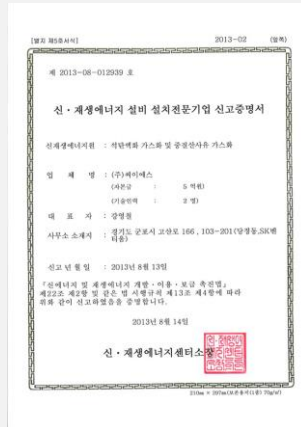
R&D Service Certificate



Engineering Operator Certificate



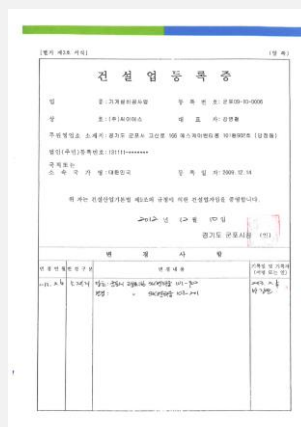
Certificate of Technical Achievement



Certificate of New and Renewable Energy Equipment Installation



Certification of International Contractor



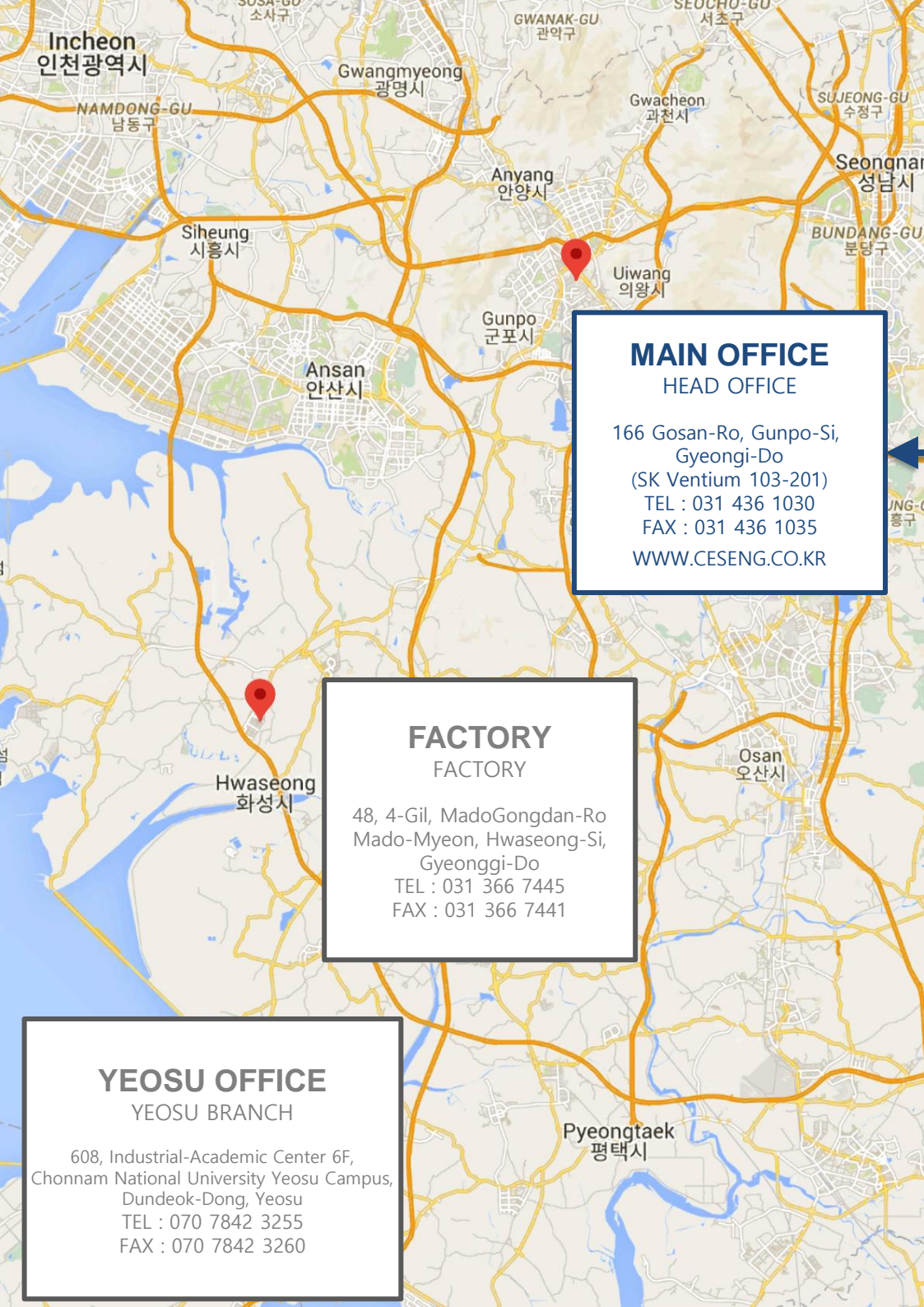
Construction Registration Certificate



Service Mark Registration Certificate



Business License



MAIN OFFICE HEAD OFFICE

166 Gosan-Ro, Gunpo-Si,
Gyeonggi-Do
(SK Ventium 103-201)
TEL : 031 436 1030
FAX : 031 436 1035
WWW.CESENK.CO.KR

FACTORY FACTORY

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

YEOSU OFFICE YEOSU BRANCH

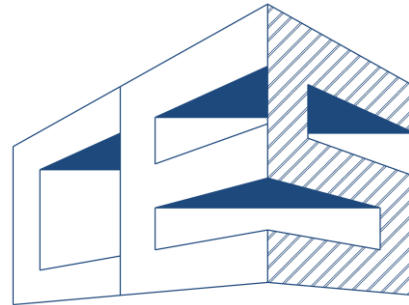
608, Industrial-Academic Center 6F,
Chonnam National University Yeosu Campus,
Dundeok-Dong, Yeosu
TEL : 070 7842 3255
FAX : 070 7842 3260

LOCATION



CHAPTER 2

WORK SCOPE



**CONSTRUCTION
ENGINEERING SERVICE**

6 Pages

Work-Scope Classified by Technical Fields / Tasks / Project Scale
What We Do Best : Polyolefin Plant / Pilot Plant / LAB Engineering / Modular or Skid-mounted Plant



WHAT WE DO

Work Scope by Technical Fields

CES Co., Ltd 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
NH₃ from Clean Hydrogen
Integrated Gasification Combined Cycle





WHAT WE DO

Works Scope by Tasks

Starting with feasibility study/simulation of the projects, CES Co., Ltd 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 Items Procurement
Inspection & Expediting
Sub-Contractors 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 Co., Ltd has the ability to carry out labs, pilot plants, to large commercial plants, needed for customer R&D, and is committed to every projects regardless of the size of the project.

PILOT PLANT

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



DEMO PLANT

CO₂ Recovery
Desulfurization Process
SNG Purification ... and More
E / EP / EPC Turnkey



COMMERCIAL PLANT

PB-I Project
IGCC – WSA Project
High Purity N-Hexane Project ... and More
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 are rich in experience and skills in the field. Our major experiences for polyolefin plants are :

<i>Clients</i>	<i>Project</i>	<i>Experience</i>
<i>Ylem</i>	<i>PB1 Commercial</i>	<i>EPC</i>
<i>Hanwha Total</i>	<i>PIB Commercial</i>	<i>Basic Engineering</i>
<i>Hanwha Total</i>	<i>ADL (PO Pilot)</i>	<i>Detail Engineering</i>
<i>LG Chemical</i>	<i>PO Pilot</i>	<i>Detail Engineering</i>
<i>Sibur (Russia)</i>	<i>PO Pilot</i>	<i>Conceptual Design</i>
<i>Sibur (Russia, Ongoing)</i>	<i>PO Pilot</i>	<i>Basic Engineering</i>
<i>Hyosung Chemical (Korea)</i>	<i>PO Pilot</i>	<i>Basic Engineering</i>
<i>Hyosung Chemical (Korea)</i>	<i>PO Pilot</i>	<i>EPC, Ongoing</i>
<i>S-Oil (Aramco Subsidiary Company)</i>	<i>PO Pilot</i>	<i>EPC, Under Discussion</i>

CO₂ SEPARATION & RECOVERY

CES has a variety of technologies to reduce CO₂ that adversely affects our environment, and has proven economic feasibility and performance in many projects. CES' carbon dioxide treatment process can be applied to various fields such as power plants and chemical plants.

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.



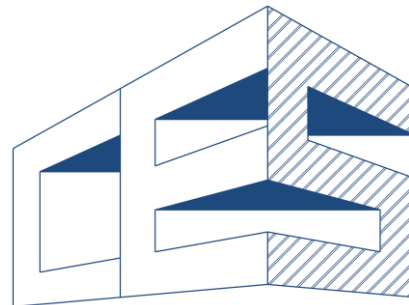
MODULAR / SKID-MOUNTED PLANT

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

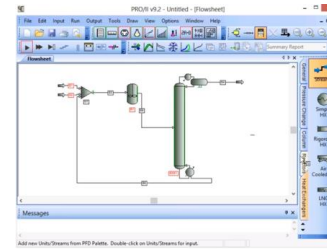
Process
Mechanical
Piping
Electric / Instrumental
CAS / General Tools



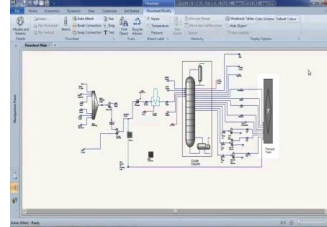
ENGINEERING TOOLS (1/5)

CES Co., Ltd acquires customer's needs with various engineering tools that is difficult for competitors to have.

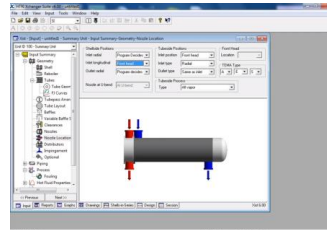
PROCESS TOOLS



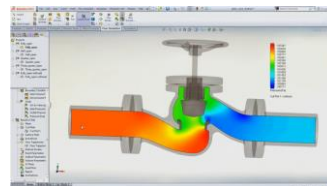
PRO II
Process Simulation



ASPEN / ASPEN HYSYS
Process Simulation



HTRI
H/E Thermal Rating & Design



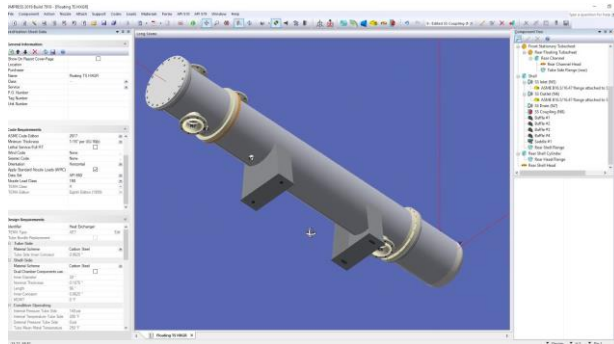
SOLIDWORKS FLOW SIMULATION
Computational Fluid Dynamics



ENGINEERING TOOLS (2/5)

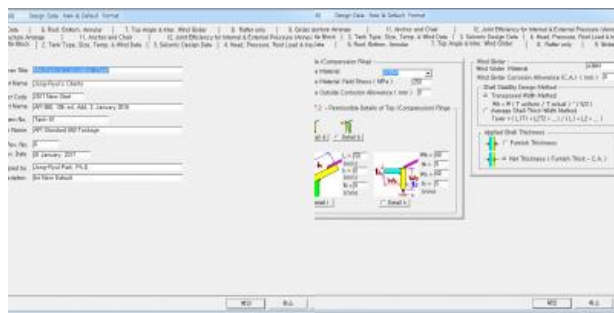
CES Co., Ltd acquires customer's needs with various engineering tools that is difficult for competitors to have.

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)

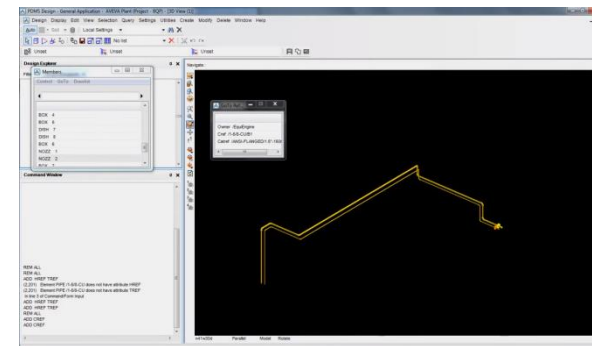




ENGINEERING TOOLS (3/5)

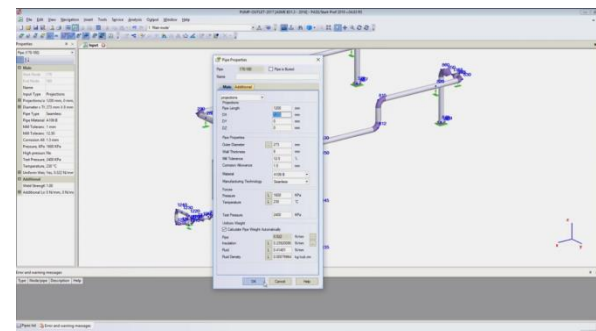
CES Co., Ltd acquires customer's needs with various engineering tools that is difficult for competitors to have.

PIPING TOOLS



PDS, PDMS

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



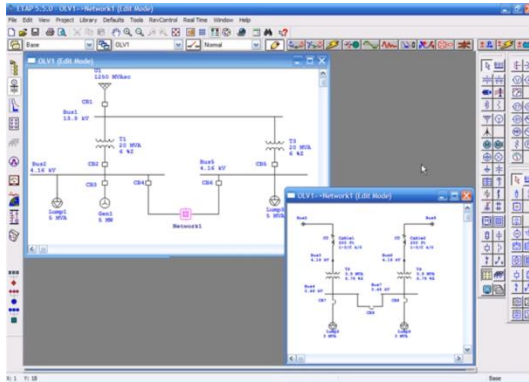
CAESAR II

Stress & Dynamic Analysis
(Available via Business Partner)

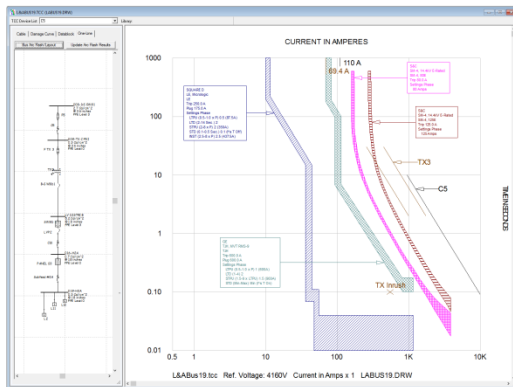
ENGINEERING TOOLS (4/5)

CES Co., Ltd acquires customer's needs with various engineering tools that is difficult for competitors to have.

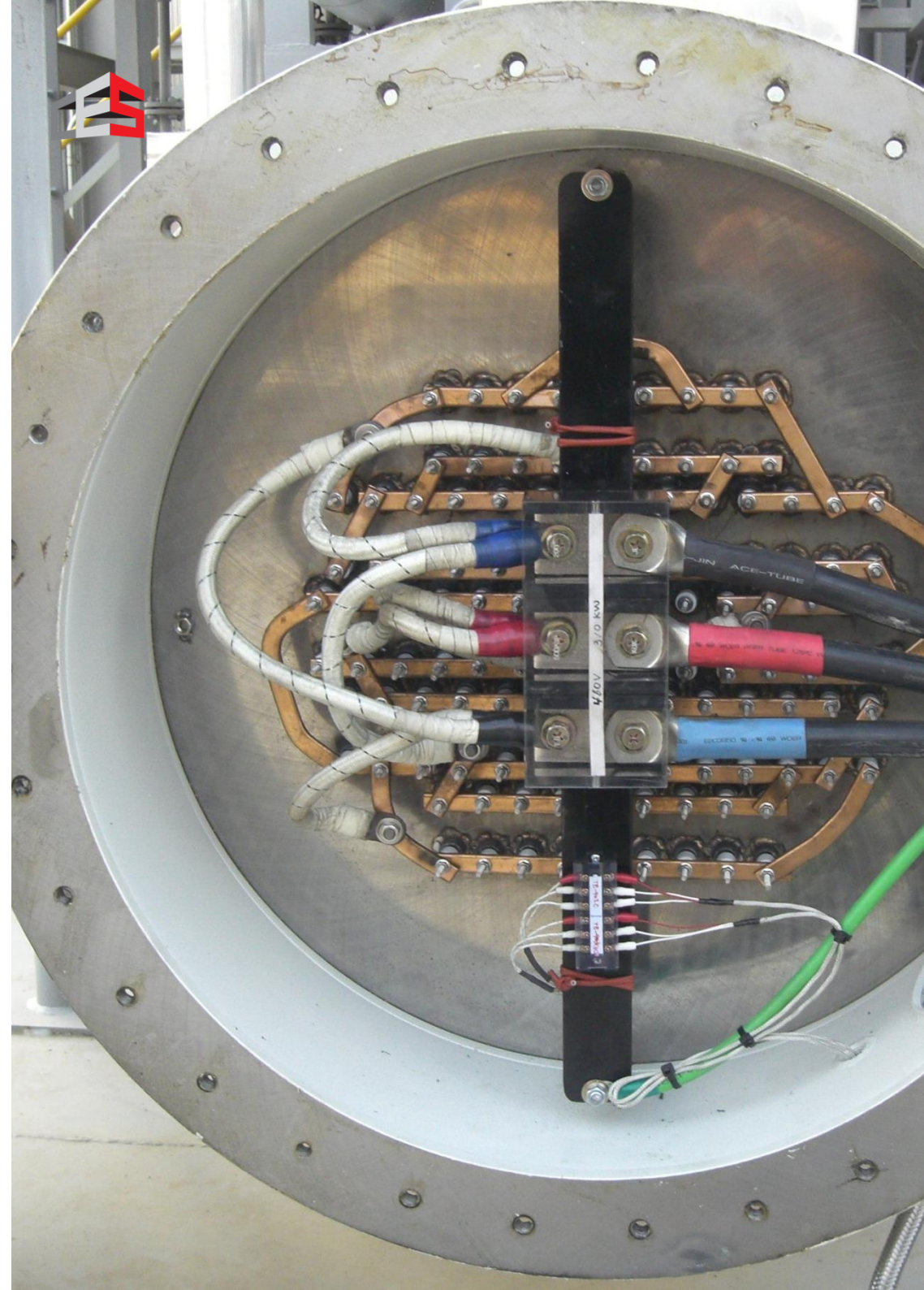
ELECTRICAL / INSTRUMENTAL TOOLS



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



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

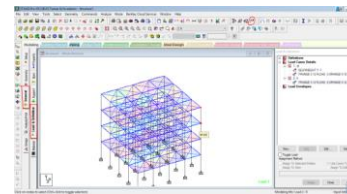




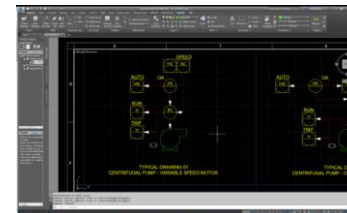
ENGINEERING TOOLS (5/5)

CES Co., Ltd acquires customer's needs with various engineering tools that is difficult for competitors to have.

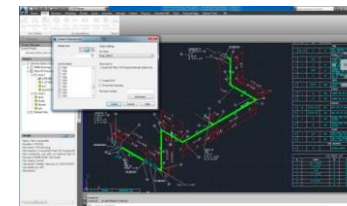
CAS / GENERAL TOOLS



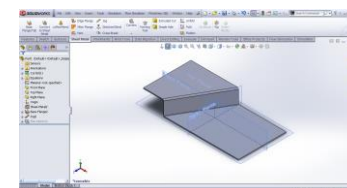
STAAD Pro
Structure Analysis
(Available via Business Partner)



AUTOCAD
2D Drafting



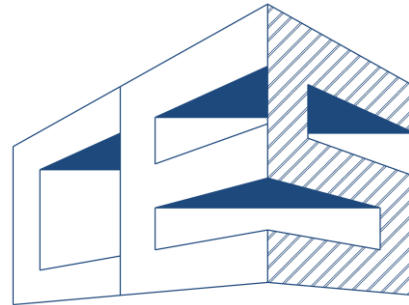
AUTOCAD 3D PLANT
3D Modeling & Design Review



SOLIDWORKS PREMIUM
3D Modeling & Design Review

CHAPTER 4

MAJOR PROJECTS : LIST











**CONSTRUCTION
ENGINEERING SERVICE**

5 Pages

Major Projects List
R&D List / Patents

MAJOR PROJECTS LIST (1/4)



E : Engineering / P : Procurement / C : Construction / S : Supervising
PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Contractor	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		2021	HPC Laboratory Service Project	EPC	
6		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 /hr 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 PROJECTS LIST (2/4)

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

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

No.	CLIENT	Year	Project	Contractor	Remark
21		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		2021	2MW P2G System Detail Engineering	E	
29		2015	WSA Commissioning Supervision Service	E	
30		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		2020	PC (V1) Project	E	
34		2018	SCPE & PO Tank Project	E	
35		2017	SDC BEP Project	E	
36		2017	Oil Sand SAGD CPF Pilot Detail Engineering	E	Electrical / Instrument
37		2016	Oil Sand Pilot Plant Feasibility Study / Cost Estimation	E	
38		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		2022	UC Wastewater recycling facility Engineering service	E	










MAJOR PROJECTS LIST (3/4)

E : Engineering / P : Procurement / C : Construction / S : Supervising
 PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Contractor	Remark
42	 RIST <small>산업포항산업과학연구원</small> <small>INDUSTRY PORT OF ULSAN RESEARCH & TECHNOLOGY</small>	2016	Basic Design Service for COG Refining Facilities for H2S 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		2018	MO DECOMM Project	C	
48		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		2022~	EPC for PO Pilot Plant	EPC	
56		2021~	Basic and Detail Engineering for Polypropylene Pilot Plant	E	
57		2022	Basic Design Package of Ammonia Supply System	E	
58		2014	PFC Disassembly Facility Start-up Supervision	E	
59		2014	PFC Disassembly Facility Design Supervision	E	
60		2019	MDI Expansion Basic And Detail Engineering	E	

MAJOR PROJECTS LIST (4/4)

E : Engineering / P : Procurement / C : Construction / S : Supervising
PP : Pilot Plant / DP : Demo Plant / CP : Commercial Plant

No.	CLIENT	Year	Project	Contractor	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		2021	T1 Project Detail Engineering (PBAT)	E	
66		2017	HTC SM3 BEP Support : CAD, P&ID Service	E	
67		2013	KNPC CFP Project Design Service	E	
68		2022	Investment Cost Estimation of Polymer Plant		
69		2021	Polymer Plant Investment cost Calculation Service	E	
70		2019	New Polymer Pilot Plant Design Service	E	
71		2018	PIB Basic Engineering Package	E	
72		2022	Simulation of 10TPA CO ₂ Capture Process	E	
73		2017	UF6 Cylinder Cleaning And Periodic Inspection Facility	EPC / PP	
74		2011	Detailed Design And Construction of NH ₃ Stripping Package in Tangjeong D.C. Wastewater Treatment Facility	EPC / CP	
75		2020	PSC Pilot Project Basic Engineering	E	
76		2011	Process Improvement for Improving MOD-MDI And Variant Productivity	EPC / CP	
77		2008	PB-I Project	EPC / CP	

R & D PROJECT LIST

No.	CLIENT	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 (on going)	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 (on going)	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 (on going)	Development of the Ethylene Oligomerization Technology for the Selective Production of 1-Hexene/1-Octene (stage 2)

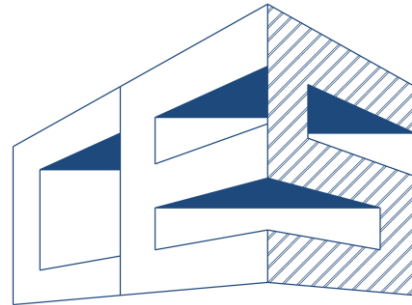
Patents

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 (FINAL) MAJOR PROJECTS BRIEFING



**CONSTRUCTION
ENGINEERING SERVICE**

11 Pages

Pictures & Descriptions

MAJOR PROJECTS BRIEFING (1/12)

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



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



**Hysung Chemical
EPC for PO Pilot Plant**
Ulsan, Korea (Ongoing)

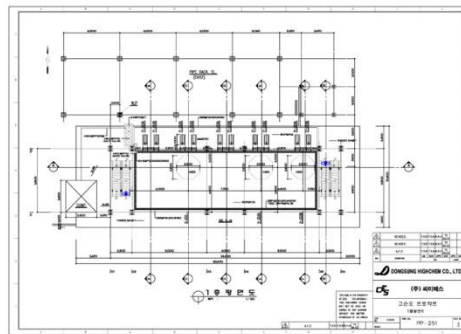
MAJOR PROJECTS BRIEFING (2/12)

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 PROJECTS BRIEFING (3/12)

DOOSAN HEAVY INDUSTRY IGCC-WSA PROJECT



**DOOSAN
HEAVY INDUSTRY
IGCC - WSA**

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



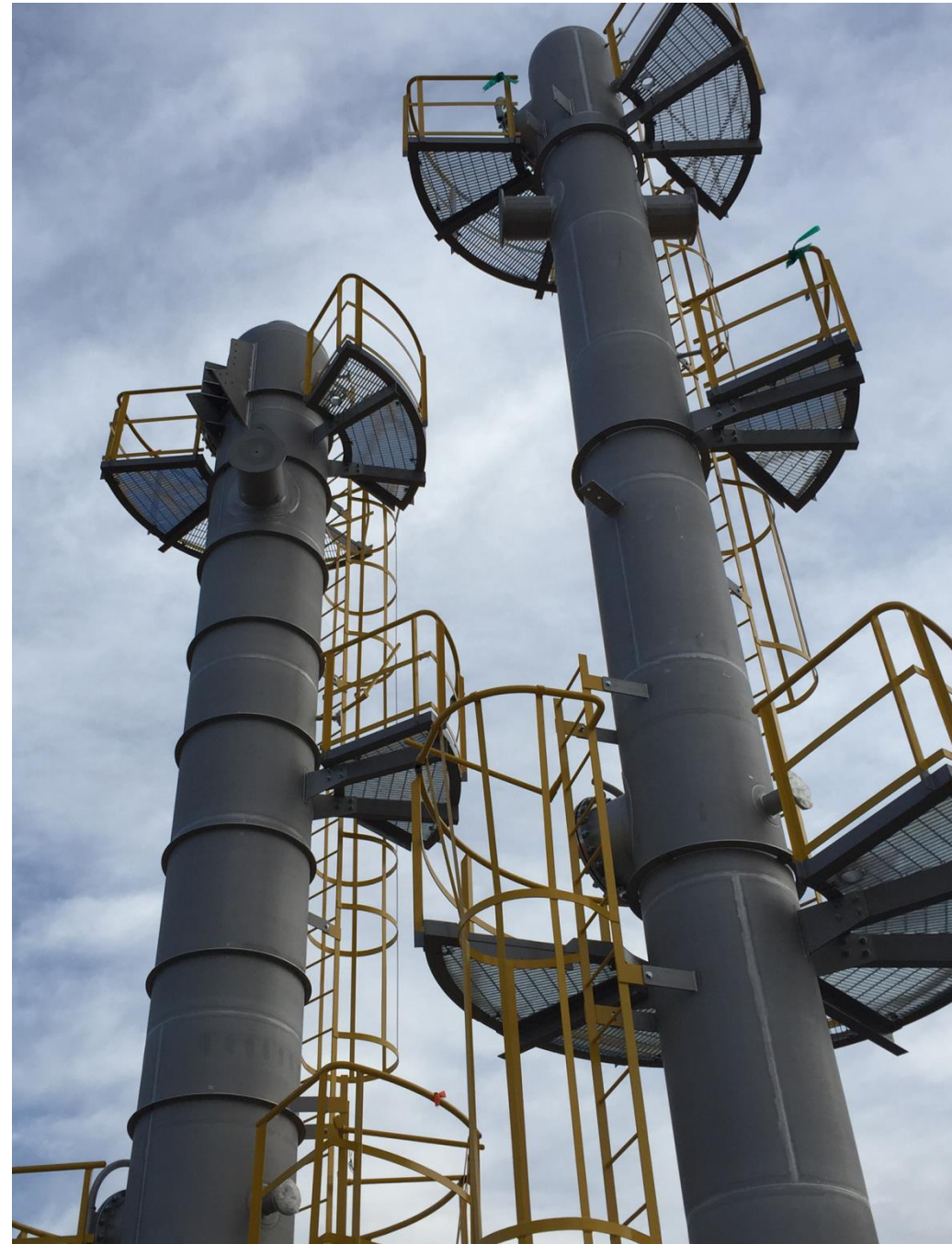
MAJOR PROJECTS BRIEFING (4/12)

LTC SOLVENT RECOVERY PROJECT



LTC SOLVENT RECOVERY

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



MAJOR PROJECTS BRIEFING (5/12)

CO₂ RECOVERY / SEPARATOR, NH₃ STRIPPING



RIST CO₂ RECOVERY DEMO PLANT

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



MAJOR PROJECTS BRIEFING (6/12)

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 PROJECTS BRIEFING (7/12)

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 (8/12)

LAB ENGINEERING : HYUNDAI CHEMICAL



HYUNDAI OILBANK RESEARCH CENTER

Youngin, Korea
EP / Installation

HYUNDAI CHEMICAL LABORATORY BUILD

5412m²
Seosan, Chungnam, Korea
EP / Installation



MAJOR PROJECT BRIEFING (9/12)

LAB ENGINEERING



MGP PROJECT / LABORATORY

Oman / EPC Turnkey



**TORE PROJECT
LABORATORY**

Turkmenistan
EPC Turnkey



**TACE PROJECT
LABORATORY**

Turkmenistan
EPC Turnkey

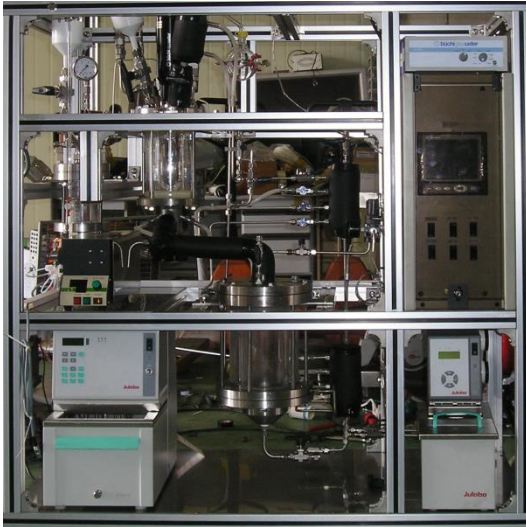
**UKAN PROJECT
GAS CHROMATOGRAPHY ROOM**

Uzbekistan
EPC Turnkey



MAJOR PROJECTS BRIEFING (10/12)

PILOT PLANTS / MISCELLANEOUS PROJECTS



JOHNS METTHEY SCR PROJECT

EPC Turnkey

LG CHEMICAL PMI REACTION PILOT PLANT

Yeosu, Korea
EPC Turnkey

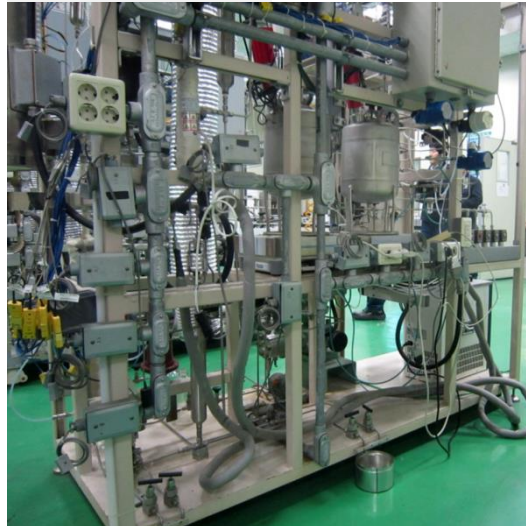


GS CALTEX PILOT BLD. DETAIL DESIGN

Engineering / Licensing

SK CHEMICAL HPPO PROJECT

EPC Turnkey



IAE WGS REACTION PILOT PLANT

Yongin, Korea
EPC Turnkey

MAJOR PROJECTS BRIEFING (11/12)

PILOT PLANTS / MISCELLANEOUS PROJECTS



**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

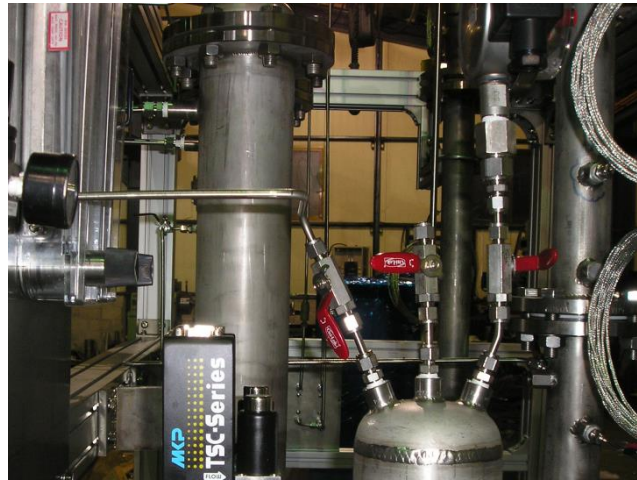
MAJOR PROJECTS BRIEFING (12/12)

PILOT PLANTS / MISCELLANEOUS PROJECTS



**UNION
CHEMICALS
TPU PROJECT**

Construction



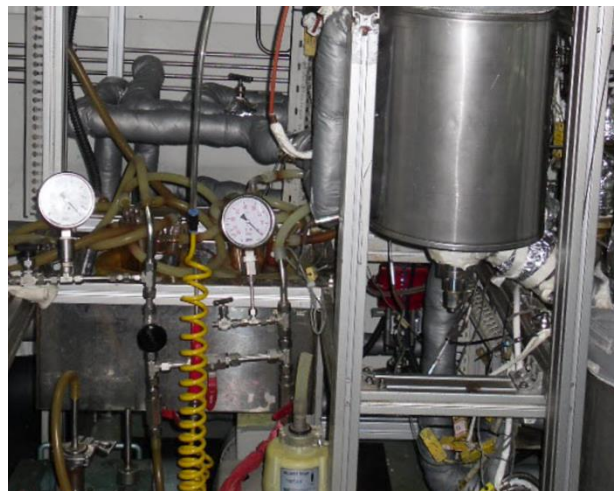
**TPT PACIFIC
CO₂ REDUCTION
PILOT PLANT**

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**



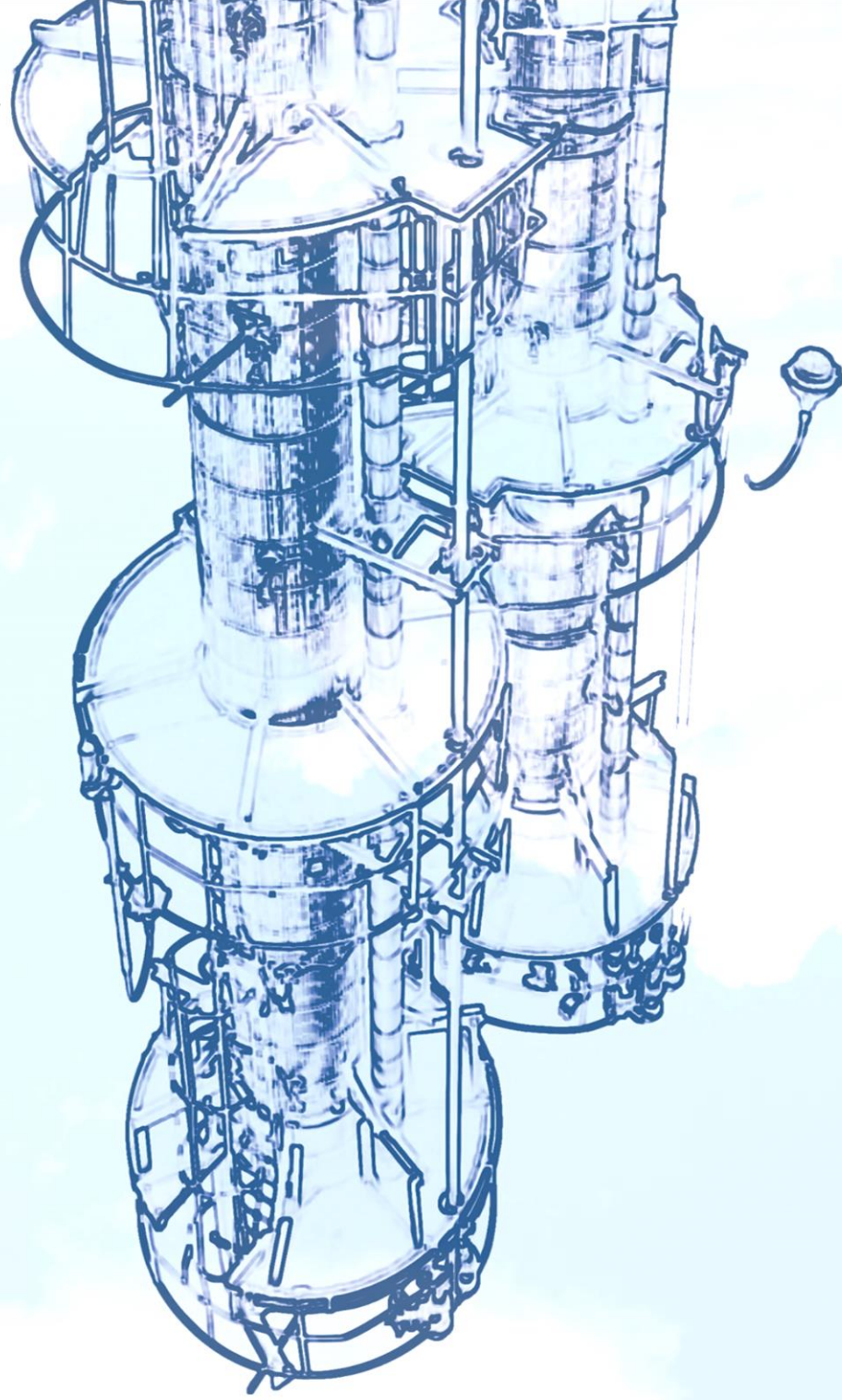
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THANK YOU

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