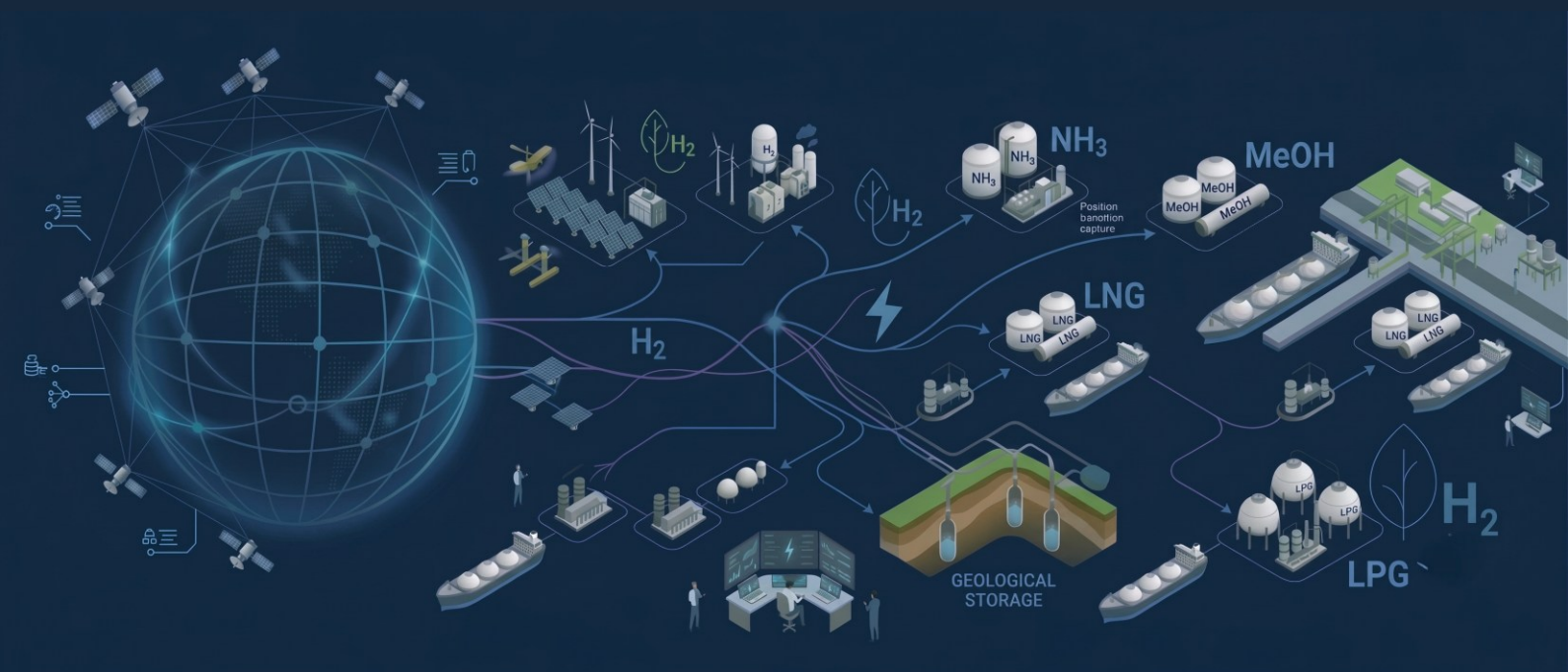




# E&CO

*EPC for a Better Future*

**GLOBAL TOTAL  
SOLUTION PROVIDER**





# CEO Greeting

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## SONG, BYUNG-GEUN

Chief Executive Officer

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*"Thank you for visiting E&CO."*

E&CO is an EPC company that oversees the entire process of designing, procuring, and constructing plants based on clean energy sources such as LNG, hydrogen, ammonia, and methanol.

Backed by extensive experience from both domestic and international projects, we provide reliable and practical solutions tailored to our clients' needs.

As the world transitions rapidly toward greener energy, E&CO is committed to delivering better technologies, safer systems, and more sustainable energy infrastructure. Believing that "technology exists for people," we always approach our work from the customer's perspective and strive to deliver the best possible results.

We will continue to do our utmost to be a trusted partner in the eco-friendly plant industry.

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*Song, Byung-Geun / Chief Executive Officer, E&CO Ltd.*



# Mission & Vision

# M

## Mission

E&CO highly values our customers' needs for safe, reliable, and efficient designs delivered through cost-effective engineering, procurement, and construction services. Our people have built their careers understanding this truth, developing confidence and long-lasting relationships across the industry by conducting business with integrity, honesty, and hard work.

# V

## Vision

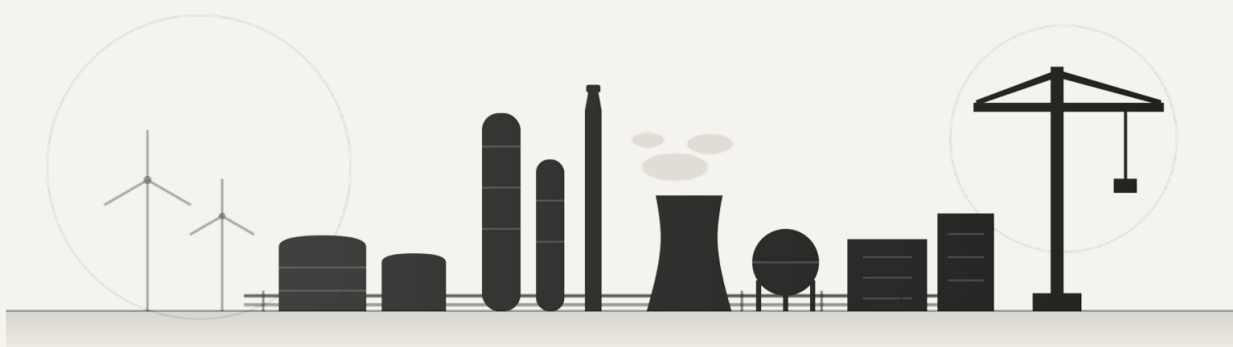
To build trusted relationships and serve our customers through integrity, honesty, hard work, and accountability. E&CO focuses on providing the right and best solution instead of the easy one — in the most efficient and competitive way possible.

**Integrity**

**Technology**

**Sustainability**

**Customer First**





# Company Overview

**2017**

Founded

**Busan, Korea**

HQ

**3+1**

Offices

**Global**

Solution Provider

## Business »

- Project Consulting & Feasibility Study
- Engineering — Process / Mechanical / Piping / Electrical / Civil
- Fuel Gas Supply System (On-Shore & Marine)
- ISO Tank Container — LNG, LPG, NH<sub>3</sub>, LH<sub>2</sub>, LHe
- Test Bed Facility — Valve, Engine, Pump
- Hyper Cryogenic Solutions (in development)
- Vacuum Pipe Technology (in development)

## Location »

Head Office — Busan

Gyeonggi Branch — Hwaseong-si

Jeonbuk Branch — Gunsan-si

Indonesia Branch — PT. ENCO ENERGY JAYA

### KOREA



**Hwaseong**  
Gyeonggi Branch

**Gunsan**  
Jeonbuk Branch

**Busan**  
Head Office

### INDONESIA



**Jakarta**  
PT. ENCO ENERGY JAYA



# Organization Chart

## Chief Executive Officer

Song, Byung-Geun

R&D Center

### I Operations Management Group

#### Marketing Team

- Domestic Marketing
- International Marketing
- Procurement

#### Management Team

- Human Resources
- General Affairs
- Accounting Management
- Cost Management

### II Technology Management Group

#### Key Functions

- Conducting Project — Engineering / Commissioning
- Technical Review and Approval
- New Business Development

### III Machinery Business Group

#### Machinery Business Team 1 & 2

*Shared responsibilities across both teams*

- Conducting Project — Engineering, Quality Control, Construction and Commissioning
- Production Management
- Project Cost Control
- Vendor Management

*All three business groups and the R&D Center report directly to the Chief Executive Officer, ensuring unified technical and operational oversight across E&CO's engineering, procurement, and manufacturing functions.*



# E&CO History

## 17–18

### Foundation & Early Business

- 2017.06 — E&CO established (Busan)
- 2017.08 — Corporate R&D Center Established
- 2017.08 — Gyeonggi Branch Offices Established
- 2018.04 — Jeonbuk Branch Offices Established
- 2018.08 — Samsung Heavy Industries LNG Test-Bed Engineering
- 2018.11 — Indonesia subsidiary established (PT. ENCO ENERGY JAYA)
- 2018.12 — LNG / LPG / Diesel Supply System Engineering (Jeonbuk)

## 19–25

### Growth & Expansion

#### Major Certification & Qualifications

- 2019.12 — Certified Inno-Biz & Venture Company Status
- 2020.04 — Registered Class 1 Gas Facility Construction Business
- 2024.05 — Selected for Government Projects: 「Legend 50+」 & Innovative Enterprise 1000

#### Vendor Registrations & Strategic Partnerships

- 2019.04 — Registered Vendor: HD Hyundai Heavy Industries
- 2024.07 — Registered Vendor: Hyundai Corporation
- 2024.11 — Registered Vendor: Hanwha Ocean
- 2025.07 — Signed Strategic MOU with Suez Canal Authority
- 2025.11 — Registered Vendor: Hanwha Engine

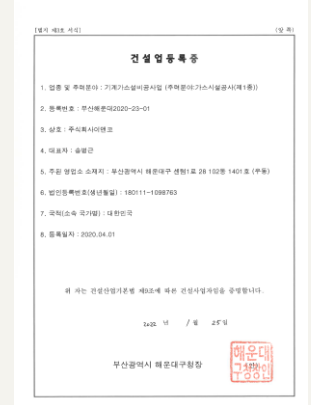
## 26~

### New Chapter

- 2026.02 — Obtained ASME "U" & "S" Stamps Certification
- 2026.06 — Groundbreaking: New Manufacturing Factory in Yangsan



## Approval in Principle



## Construction License

[illegible]

## Intellectual Property



## AIP (Approval in Principle)



# Business Overview

01

## Project Consulting

Feasibility studies, business planning & technical proposals for gas infrastructure projects.

02

## Engineering

100% in-house EPC-based design across Process, Mechanical, Piping, Electrical & Civil disciplines.

03

## Fuel Gas Supply System

Complete on-shore & marine fuel gas handling systems, from bunkering station to engine.

04

## ISO Tank Container

Cryogenic storage, transport & supply solutions for LNG, LPG, NH<sub>3</sub>, LH<sub>2</sub> and LHe.

05

## Test Bed Facility

Turnkey R&D test-bed design and construction for valves, engines & pumps.

06

## Hyper Cryogenic

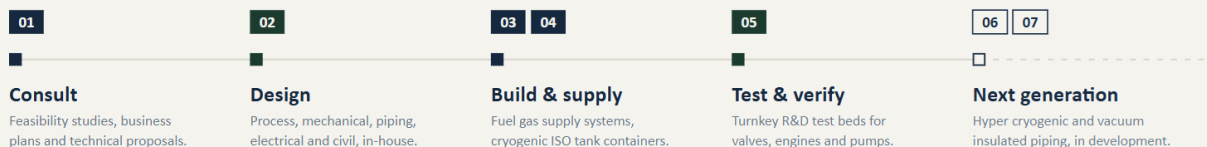
Next-generation ultra-low-temperature technology — currently in development.

07

## Vacuum Pipe

Advanced vacuum-insulated piping technology — currently in development.

One integrated delivery chain, from feasibility study to commissioning.



Media in service, by liquefaction temperature.





# Project Consulting

E&CO provides strategic consulting services across the full spectrum of gas industry infrastructure development — from feasibility analysis and optimal facility proposals to budget planning — delivering end-to-end solutions for successful project execution.

## Feasibility Analysis

Assess project viability through technical, financial, and operational evaluations.

## Business Planning

Develop tailored strategies that align with client goals and market conditions.

## Technical Proposals

Provide optimized solutions based on site-specific requirements.

## How We Work

1

### Initial Consultation

Understand your project vision, operational context, and key challenges.

2

### Feasibility Study

In-depth technical and financial evaluation of practicality, risks, and ROI.

3

### Customized Proposal

Tailored technical proposal with system design options and cost-efficient solutions.

4

### Strategic Planning

Build an executable roadmap with milestones, procurement strategy, and risk mitigation.





# Engineering

We strive to realize a better future through engineering. With extensive experience in cryogenic and multi-fuel gas systems, our engineering services are designed to provide optimal, performance-driven solutions tailored to each project.

- EPC-based integrated design
- Custom design for cryogenic gases (LNG, LPG, LH<sub>2</sub>, NH<sub>3</sub>, LHe)
- Domestic & international project experience
- Compliance with KGS, ISO, ASME and other standards

## Engineering Disciplines

### Process

- Process Description
- Heat & Material Balance
- PFD
- P&ID
- Line List
- Valve List

### Mechanical

- Equipment List
- General Drawing
- Data Sheet

### Piping

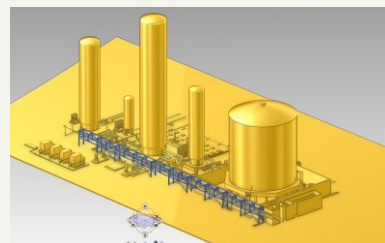
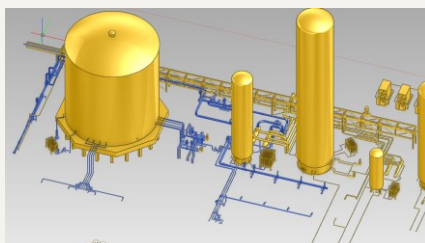
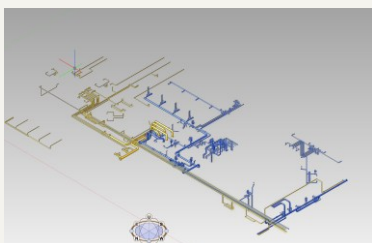
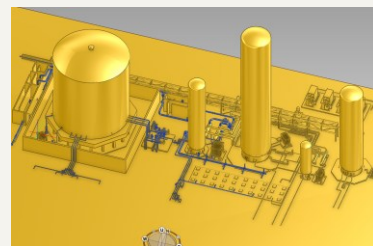
- Pipe Wall Thickness
- PRV / TRV Calculation
- Piping GA
- ISO Piping Drawing

### Electrical

- ELA
- Cable Sizing & Schedule
- Single Line Diagram
- Hazardous Area Classification

### Civil

- Plot Plan
- Road & Drainage Layout
- Foundation Plan
- Seismic Design Report





# Fuel Gas Supply System

E&CO provides fully engineered fuel gas supply systems for industrial facilities, power plants, and marine propulsion applications — from system engineering to procurement and construction, delivered as EPC turnkey solutions.

## On-Shore

### Key Components

- Storage Tank
- Vaporizer
- LP / HP Pump
- IHM Heater
- Transfer Pump / GSU
- Valve & Instrument

### Application

- Power Plant
- Storage Facility
- City Gas Facility
- Regasification Facility



## Marine

### Key Components

- Fuel Tank
- LP / HP Pump (Submerged)
- Glycol Heating System
- Bunkering Station
- Automation (AMS/Safety)

### Application

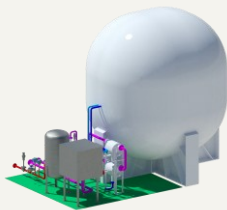
- Tug Boat / PSV
- Cruise Ferry
- RoRo / RoPax
- Small Ferry





# Fuel Gas Supply System

| Class           | Engine Type                      | bar G     |
|-----------------|----------------------------------|-----------|
| Low Pressure    | DF Generator / Engine (4-stroke) | 5 ~ 7     |
| Middle Pressure | WinGD X-DF (2-stroke)            | 11 ~ 16   |
| Middle Pressure | Gas Turbine                      | 26 ~ 36   |
| High Pressure   | MAN ME-GI (2-stroke)             | 280 ~ 320 |



## Why E&CO ?

1

### 100% In-House Design & PM

Full lifecycle management — design, procurement, construction, commissioning — including FAT and SAT, with internal PM resources.

2

### Flexible Multi-Fuel Response

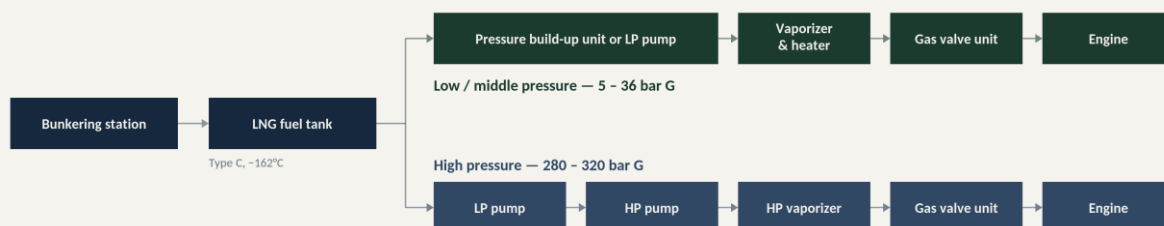
Engineering tailored to LNG, LPG, LNH<sub>3</sub>, and LHe fuel properties, backed by a robust multi-fuel engineering database.

3

### Field-Proven EPC Execution

Proven performance across combined-cycle power plants, industrial complexes, ports, and LNG bunkering systems.

Where each pressure class sits in the supply line.



Gas valve unit configuration and pump arrangement vary by engine maker and class requirements.



# ISO Tank Container

E&CO delivers fully engineered solutions for transporting, storing, and supplying cryogenic fuels via ISO Tank Containers, tailored to diverse operational demands and international safety standards.

## Suitable Fuels

|     |     |                  |                 |     |
|-----|-----|------------------|-----------------|-----|
| LNG | LPG | LNH <sub>3</sub> | LH <sub>2</sub> | LHe |
|-----|-----|------------------|-----------------|-----|

## Application

- Remote site fuel delivery (industrial & utility)
- Mobile or emergency energy support
- LNG satellite stations
- Offshore or port-based LNG supply
- Cryogenic test facilities and pilot plants



# Test Bed Facility

Optimized R&D test-bed solutions for the gas industry — E&CO delivers fully customized test solutions from basic design to commissioning, ensuring optimal performance and scalability.

## Scope of Work

|                                                                                                              |                                                                                                       |                                                                                                          |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>01</b><br><b>Requirement Definition</b><br>Conceptual design based on project objectives                  | <b>02</b><br><b>Detailed Engineering</b><br>P&ID, 3D modeling, spec & control integration             | <b>03</b><br><b>Procurement &amp; Fabrication</b><br>Equipment procurement, skid fabrication, welding QC |
| <b>04</b><br><b>Installation &amp; Commissioning</b><br>Site installation, integration, functional test, SAT | <b>05</b><br><b>Documentation &amp; Support</b><br>As-built drawings, test reports, operation manuals | <b>06</b><br><b>Optional Scope</b><br>HAZOP / LOPA, fire & gas detection, performance test               |



# Clients & Achievements

## Major Clients



HD Korea Shipbuilding & Offshore (KSOE)



HD Hyundai Heavy Industries (HHI)



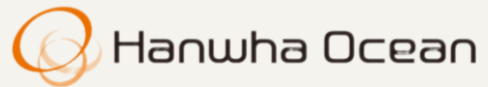
Samsung Heavy Industries (SHI)



Hanwha Engine



Suez Canal Authority (SCA)



Hanwha Ocean



Fire Insurers Laboratories of Korea (FILK)



Agency for Defense Development



Korea Marine Equipment Research Institute



Korea Research Institute of Ships and Ocean Engineering

TRACK RECORD

## Recent Achievements (2026)

1

### Ammonia Cracker Engineering

Contract signed with a MOTIE-affiliated research institute to engineer ammonia cracker infrastructure for the hydrogen value chain.

2

### Liquid Hydrogen ISO Tank AIP

KR Approval in Principle obtained for a 40ft ISO Tank Container for cryogenic liquid hydrogen (-253°C).

3

### New Yangsan Manufacturing Factory

Groundbreaking ceremony held for a new 3-building manufacturing complex expanding production & R&D capacity.



# Maintenance (A/S)

## Maintenance & Supervision

- FGSS (Storage / Fuel Gas Supply / Propulsion)
- ISO Tank Container, Tank Lorry, Tank Trailer
- Site Construction, Erection, Piping, Fabrication, Electrical

### Planned maintenance



### Emergency support



## Vacuuming

- On-site vacuuming works; duration depends on tank status & environment
- Normal Vacuum (max. 0.05 Torr): Centrifugal Pump
- High Vacuum (max. 0.001 Torr): Diaphragm Diffusion Pump

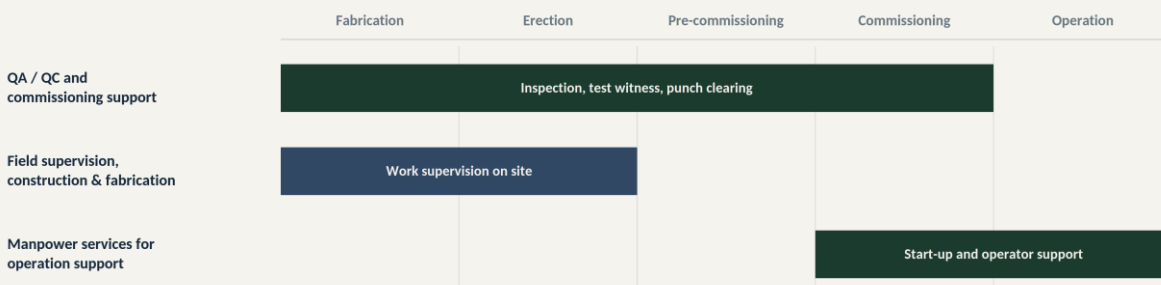
### Normal vacuum — centrifugal pump



Absolute pressure in Torr, logarithmic scale. Atmospheric pressure at left.

## Supervision

- On-site QA / QC and commissioning support
- Field supervision for construction & fabrication
- Manpower services for operation support



## CONTACT US

# Let's Build a Better Future Together

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### Head Office

WBC the PALACE 102/1401, 28 Centum1-ro, Haeundae-gu, Busan, Korea

### Gyeonggi Branch

#18404, 156 Byeongjeomjungang-ro, Hwaseong-si, Gyeonggi-do, Korea

### Jeonbuk Branch

Gunsan-si, Jeollabuk-do, Korea

### Indonesia Branch

PT. ENCO ENERGY JAYA

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### E-Mail

[enco@enco-energy.co.kr](mailto:enco@enco-energy.co.kr)

### TEL

+82-51-925-1235

### Web

[www.enco-energy.co.kr](http://www.enco-energy.co.kr)

### SNS

Facebook / LinkedIn / Instagram — @enco\_korea



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