

IDK-LOK

CORPORATION



IDK-LOK

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CHAPTER

I

Company Overview



DK-LOK Corporation



DK-LOK

Company Brief



Market Segment



Oil & Gas



Petro Chemical



EPC Plant



Shipbuilding



Equipment



Semi / Display



CNG / NGV



Aerospace

Executive Members

Name	Title	Responsibility
E. S. Noh	Chairman	CEO
H. S. (Steve) Kim	President	COO
Francesco Radini	Vice President	Ball Valve
H. C. Kang	Executive Director	EPC Sales
H. S. Doh	Director	Strategy Planning
J. C. Park	Director	UHP Business
S. J. Kim	Director	R&D

Name

DK-Lok Corporation

Start Date

Jan. 1986

Main Business

Fittings & Valves

Head Quarters

7, Golden root-ro, 129 beon-gil, Gimhae-Si, S. Korea

Seoul Office

Saemoonan-ro 92, Jongro-gu, Seoul, S. Korea

Number of Employees

334 ('As of Feb. 2025)

Table Of Organization

CEO

E. S. Noh
Chairman

COO

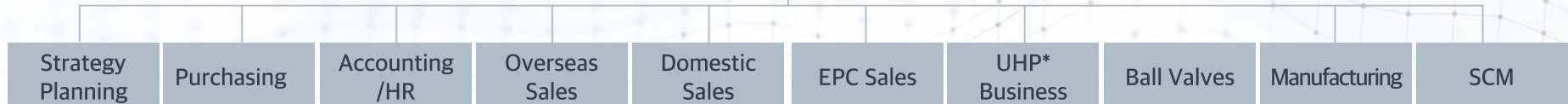
H. S. (Steve) Kim
President



**R&D
Center**



QC/QA



* UHP : Ultra High Purity for Semi/Display

Facilities

Head Quarters



- Area : 16,520m² / 177,820ft²
- Main Products : Instrumentation
- CAPA : \$100Million
- Location : City of Gimhae, S. Korea

Factory No. 2*



- Area : 10,578 m² / 113,860ft²
- Main Products : UHP Fittings and Valves, Display
- CAPA : \$60Million
- Location : City of Gimhae, S. Korea

* Within 2Km from HQ

Italy Corporation (Sitindustrie Valvometal Italy S.R.L.)



- Area : 13,000 m² / 139,930ft²
- Main Products : Process Valves
- CAPA : \$100Million
- Location : Valduggia VC, Italy

Factory No. 3**



- Area : 6,753 m² / 72,688ft²
- Main Products : Process Valves
- CAPA : \$40Million
- Location : City of Gimhae, S. Korea

** Right Next to HQ

Company History

1986

Preparation



- 1986** • Established as Dae-Kwang Nipple
- 1992** • Converted into a Corporation
- 1995** • Best Supplier Award from Samsung Heavy Industry
- 1996** • Moved to a new location in Sasang, Busan
- 1998** • Vendor approval from Hyundai Heavy Industries
- 1999** • Selected as Promising Small and Medium Export Firm by Small and Medium Business Bureau

2000

Development



- 2000** • Lok Fitting Business starts
- 2002** • \$1 Million Export Award
- 2003** • Vendor Approval from Korea Hydro & Nuclear Power
- 2004** • Vendor Approval from POSCO
- 2005** • Moved to a new location in Gimhae
 - \$3 Million Export Award
 - Selected as INNO-BIZ for Tech Innovation
- 2006** • \$5 Million Expert Award
 - Selected as MAIN-BIZ for Management Innovation
- 2008** • \$10 Million Export Award
 - Presidential Award on Trade Day Event

2010



Growth



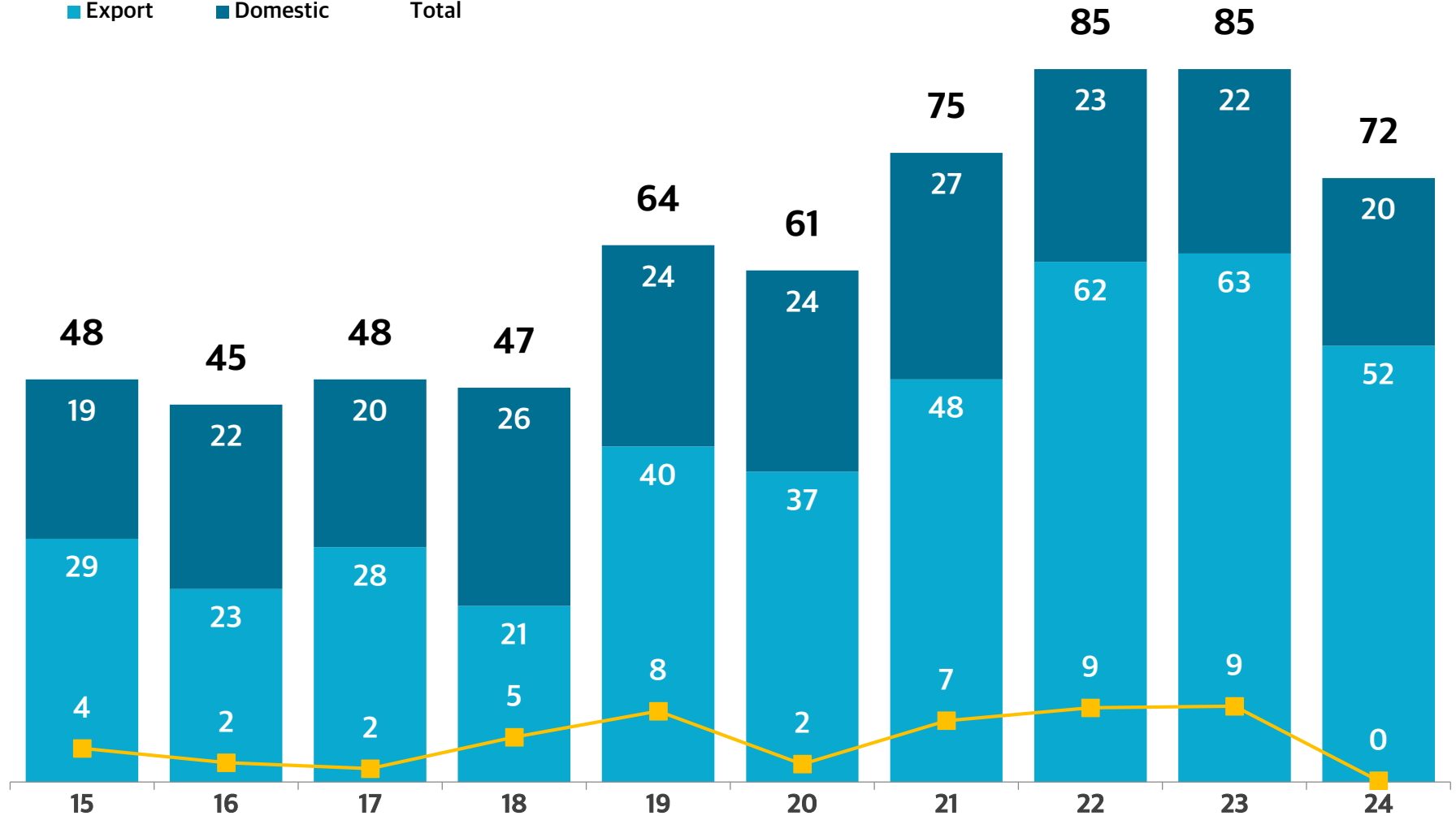
- 2010** • Name change to DK-Lok Corp.
• Listed on KOSDAQ
- 2011** • Selected as an Excellent Job Creation Company
- 2012** • \$20 Million Export Award
- 2013** • Moved to the current HQ location
 - Keep the old factory as Factory No. 2
- 2014** • \$30 Million Export Award.
• Selected as an IP Star Company
- 2015** • Selected as World Class 300 Corp.
- 2017** • Started UHP and ball valve business
- 2019** • Reached the biggest revenue of \$65 Million
- 2021** • Establish a local subsidiary in Italy
 - Purchased Factory No. 3
- 2022** • \$50 Million Export Award
 - Distinguished Gold Tower Order of Industrial Merit
 - Selected as 100 Regional Innovation Leaders
- 2023** • Received the Presidential Award for Regional Industry Promotion

Annual Sales & Profits

Annual Sales & Profits

(Unit : Million USD)

■ Export ■ Domestic Total





CHAPTER

II

Business Area

Product Portfolio (I)

Instrumentation Fittings & Valves

Instrumentation Fittings



Instrumentation Valves



O-Ring Face Seal



High Pressure



High Pressure



Safety/Relief



On/Offshore Plants



Product Portfolio (II)

UHP* Fittings & Valves

Welded / Face Seal Fittings



Diaphragm / Bellows Valves



Regulators



IGS (Integrated Gas System)



* UHP: Ultra High Purity (for Semiconductor Facility and Equipment)

Product Portfolio (III)

Process Valves for Oil & Gas

Ball Valves



Gate Valves



Globe Valves



Check Valves









Manufacturing Process

Machining Workshop



Manufacturing Procedures

01 Raw Material	02 Forging	03 Machining	04 Assembly	05 Inspection	06 Shipping
					
<ul style="list-style-type: none"> • Raw material sourcing, Inventory management, Incoming inspection, Hex or round bar cutting. 	<ul style="list-style-type: none"> • Forging the cut pieces at own facility. 	<ul style="list-style-type: none"> • 180 CNCs and MCTs, Six-spindle machines, Five-axis machines with robotic arm • MES, POP, CAPP system 	<ul style="list-style-type: none"> • Fitting and valve assembly, Laser marking, • Daily production planning monitoring system 	<ul style="list-style-type: none"> • Quality and Reliability tests and visual inspection based on ASTM F-1387 	<ul style="list-style-type: none"> • Packing and shipping, Inventory management, Automatic storage system

Clients

Oil & Gas



Equipment



Petro Chemical



CNG/NGV



EPC Plant



Semi/Display



Shipbuilding



Hydrogen



Certificates and Patents

Certificates



- Quality Management Systems for Oil & Gas (API), Nuclear (ASME) Aerospace (AS),
- Health/Safety/Environment, and Shipbuilding (ABS, BV, DNV-GL, KR, LR)
- Certificates for Canada CRN, Russia RTN and so on.

Patents



- CR (Corrosion Resistance) Ferrule, VR (Vibration Resistant) Fitting , LNG couplers, etc.
- 41 domestic/international patents

System Cert.	ISO 9001	ASME N
	ISO 14001	ASME NPT
	ISO 45001	ASME NS
	EN 9100	KEPIC MN
	NADCAP	

Product Cert.	KR	NK
	ABS	PED (B+D, H)
	DNV	API (6D,6A,6DSS)
	RMRS	TUV (NGV, CNG, ISO 15500, ECE R110 EC79)
	BV	
	LR	
	RINA	

System Cert.	CRN (Canada)	CSEL (CHINA)
	EAC (Eurasia)	CU(Russia)
	EIL (India)	RTN(Russia)
	KGS (Korea)	
	SNCH(Netherlands)	



CHAPTER

III
Core

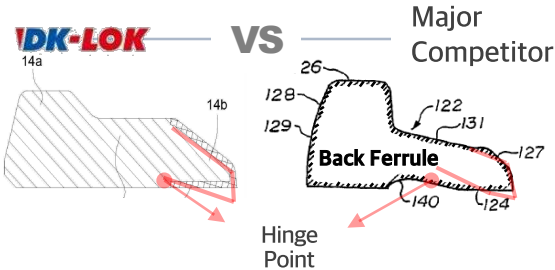
Competencies

Product Reliability

Best-in-class in Corrosion Resistance, Fitting Intermix, Quality Control

Inst. Fittings & Valves

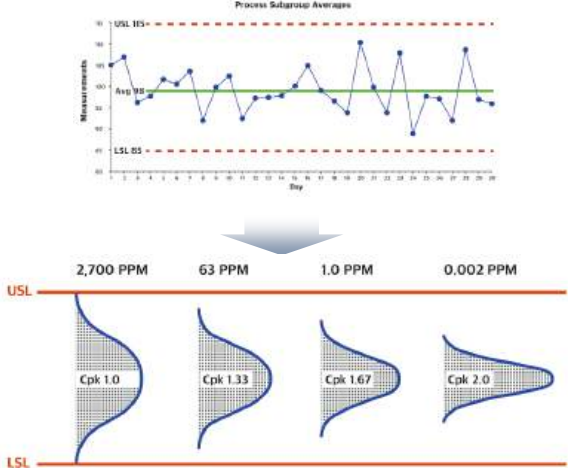
1 CORROSION RESISTANT FERRULE



2 FULL INTERMIX F-1387 TEST

Components	Range	#1	#2	#3	#4	#5	#6	#7	Components	#8	#9	#10	#11	#12	#13	#14	DK-LOK
Standard Nut - 5N	5N	5N	DN	DN	DN	5N	DN	DN	DK Nut - DN	5N	DN	5N	DN	DN	5N	5N	DN
Standard Back Ferrule - 5B	5B	DNB	5B	DNB	5B	5B	DNB	DNB	DK Back Ferrule - DNBF	DNBF	5BF	DNBF	5BF	5BF	5BF	DNBF	DNBF
Standard Front Ferrule - 5F	5F	DNF	5F	DNF	5F	5F	DNF	5F	DK Front Ferrule - DNFF	5FF	DNFF	5FF	DNFF	5FF	DNFF	5FF	DNFF
Standard Body - 5B	5B	DNB	5B	DNB	5B	5B	DNB	5B	DK Body - DN	5B	5B	5B	5B	5B	5B	5B	DN

3 STATISTICAL PROCESS CONTROL



- Corrosion Resistance
- Robustness
- Deep Bite

- 5Size x 14 combinations = 70 Intermixed samples
- 11 tests (9 Mandatory, 2 Supplement) by F-1387
- Certified by TUV Rheinland

- 6σ QC through daily Cpk** monitoring
- Target Cpk ≥ 1.33
- CTQ ***measurements by datum gauge

**Cpk: Process capability Index
 *** CTQ: Critical-to-Quality factor

Business Profile

Market and Product Diversification for Future Growth

Inst. Fittings & Valves



UHP Fittings & Valves



For Semi/Display Facility and Equipment

Quality control by SEMI Standards
SPC for key process (EP and machining)

- Agile response to new product request
- Compliance with ASTM and JIS standards
- Including Regulators and IGS
- Applicable to Bio and Pharmaceutical

Instrumentation Fittings & Valves

Corrosion Resistant/Full Intermix Test
/Quality Control thru SPC

Focus on registration at
global client vendor list

Access to new applications (CNG/NGV,
LNG, Hydrogen) and emerging markets
(Nigeria, Egypt, India etc.)

Process Valves



For Oil and Gas, Chemical, Power Plant

API 6D/6DSS/6A certificates
Italian design made in Korea/Italy

- Close to 70 years of operation in Italy
- Up to 56" or #2500
- Fast delivery within 20 weeks
- Local sales office in Abu Dhabi

Diversified Global Clientele

124 distributors in 45 countries around world
Growing EPC Project Clients, Global MRO Supply Network



Recently Added EPC Clients

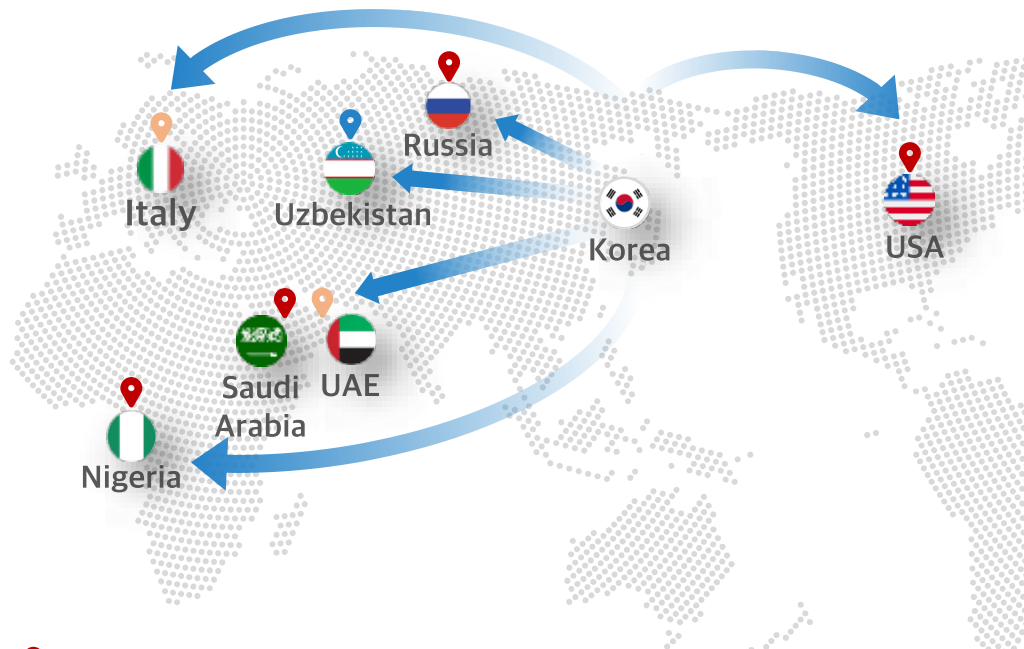
Global Energy Company	Malaysia National Energy Company
Oil & Gas Global Top 5	Global Oil & Natural Gas Company

International MRO Clients

North America Industrial Supplier		Global Industrial Distributor	
Growing investment in energy infrastructure		2,500 locations in N.A./Europe	

Global Localization

Global Reliable Partnership



- 📍 Joint Venture
- 📍 Wholly-Owned Subsidiary
- 📍 Local Sales Office

MARKET EXPANSION

✓ Overseas Local Operation

📍 Joint Venture

- ▶ USA - CNG, NGV Application
- ▶ Russia - GAS, LNG, EPC PJT
- ▶ Saudi Arabia - OIL, GAS, EPC PJT
- ▶ Nigeria - LNG, PLANT PJT

📍 Wholly-Owned Subsidiary

- ▶ UAE - GAS, OIL EPC PJT
- ▶ Italy - Process Ball Valve

📍 Local Sales Office

- ▶ Uzbekistan - Petro chemistry EPC

✓ Vendor Registration

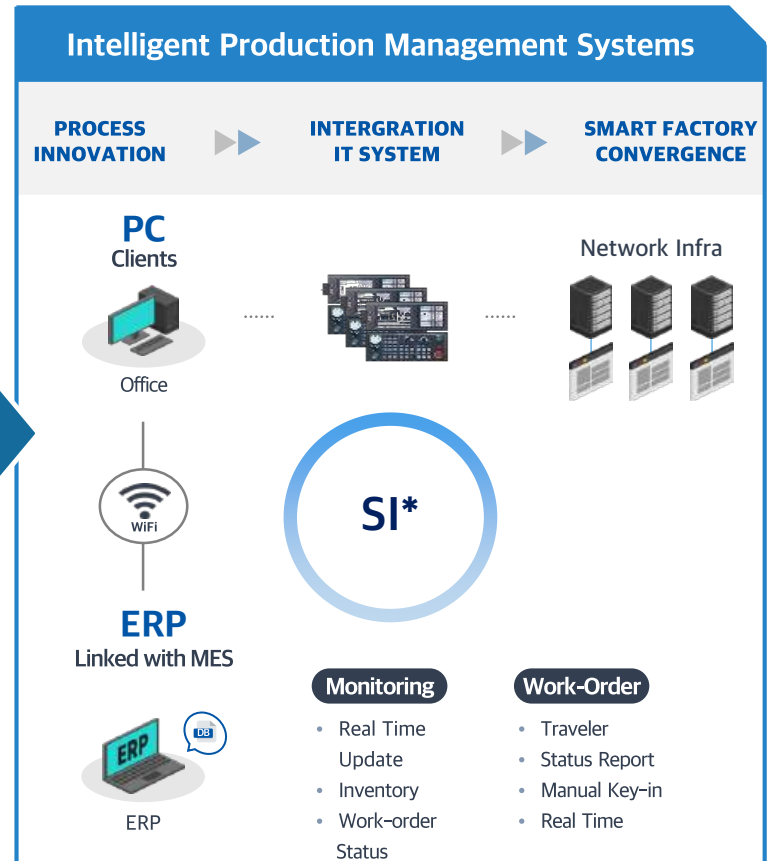
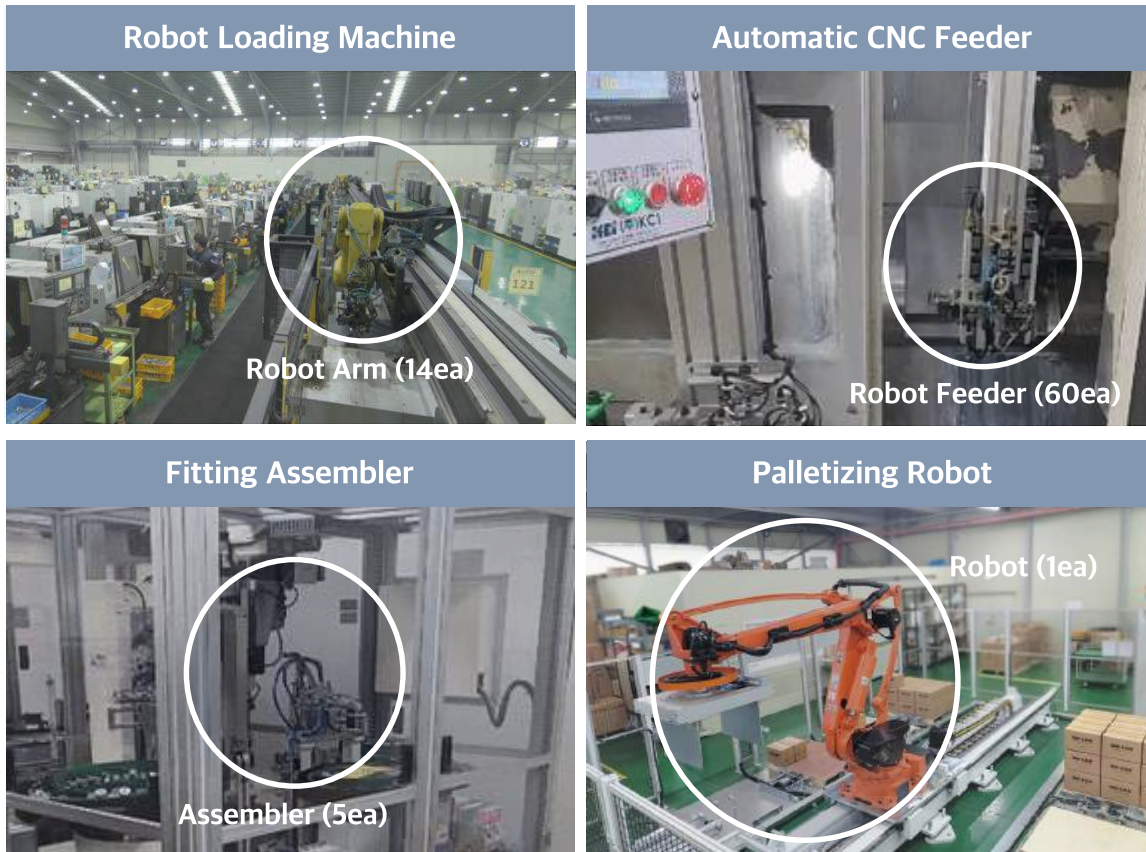
✓ Local Production (USA, Russia, Saudi Arabia, Nigeria)

Smart Factory

Various IT Systems
for Production Management
(PLM·ERP)

Robot Loading System
for Smart Factory since 2018

More Robots than
CNC operators



*SI: System Integration



CHAPTER

IV

Growth Strategies



Energy industry demand and growth

New Paradigm in Energy Industry

Fossil Fuel Energy



- Recovery in oil & gas market
- Supply chain shifts due to geopolitical changes
- Steady replacement demand

Petroleum industry
Shipbuilding & Marine

Alternative Energy



- Stepping stone toward green Energy
- CNG/RNG/NGV prevailing in North America
- RNG with Carbon negative

CNG/RNG/NGV

Green Energy



- Tightening environmental regulations
- Shift to wind & solar energy
- Gains from mixed alternative/green adoption

Hydrogen/Ammonia
/SMR*

*SMR: Small Module Reactor

“



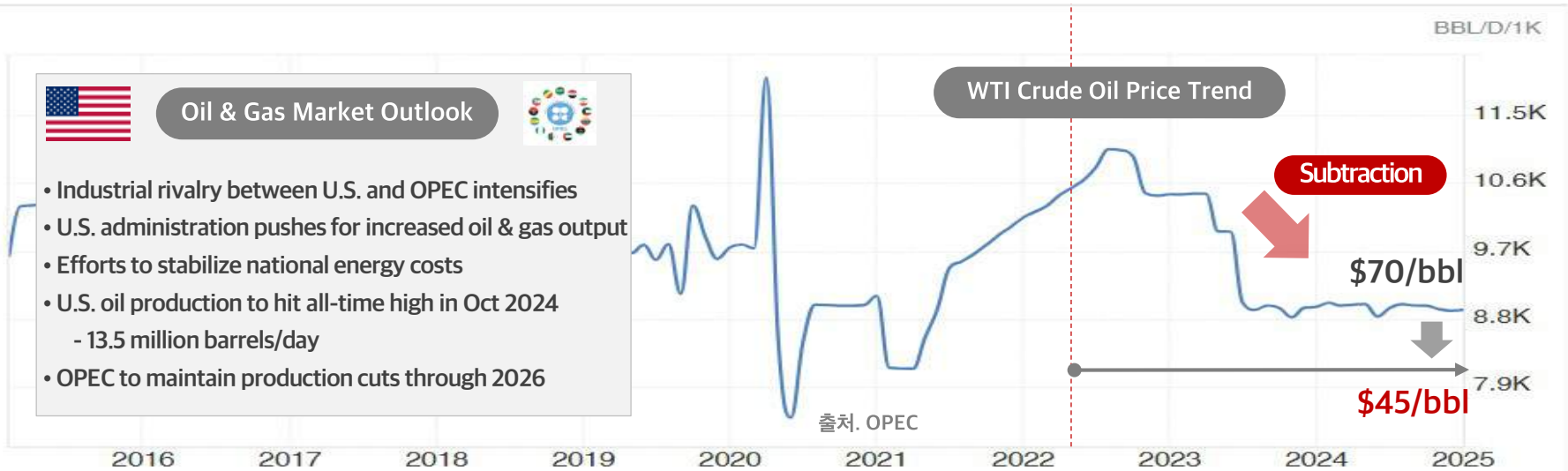
The stone age didn't end
because we ran out of stones

Former Minister of Petroleum and Minerals of Saudi Arabia (Ahmed Zaki Yamani)

”

Revitalization of the Oil & Gas Industry

Oil & Gas Industry Trends and Outlook



1

U.S.A CNG/NGV Market

- Recognized for cost-effectiveness, high fuel efficiency, low noise & vibration
- Seen as an effective ESG solution (adopted by FedEx and UPS)
- Cummins X15N engine launching in 2024, Knight test
- Collaborations with Cummins, Heil/Bent Tube, and Hexagon Agility

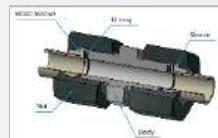
NGV



ORFS/LOK



ORFS Structure



2

India CNG/NGV Market

- Government promotes CNG vehicle adoption to address air pollution
- Tax incentives and subsidies accelerate green fuel transition
- Eco-friendly CNG/NGV sector growing rapidly with policy support
- Surge in demand for long-haul commercial vehicles and CNG retrofits

CNG Infra



- CNG station
- Dispenser
- Compressor

NGV



- NGV Passenger Vehicles
- NGV Commercial Vehicles
- NGV Fuel Piping

Semiconductor Ecosystem Expansion

Global Semiconductor Investment Trends by Region



\$406.2B

- Targeting \$407.4 Billion in private investment by 2027
- Government incentives and support
- Building a high-tech semiconductor mega cluster



\$500B

- Focus on domestic-centered global supply chain strategy
- Announcement of facility investment plan for the next 10 years through 2023
- Alliances with third countries (CHIP4, IPEF etc..)

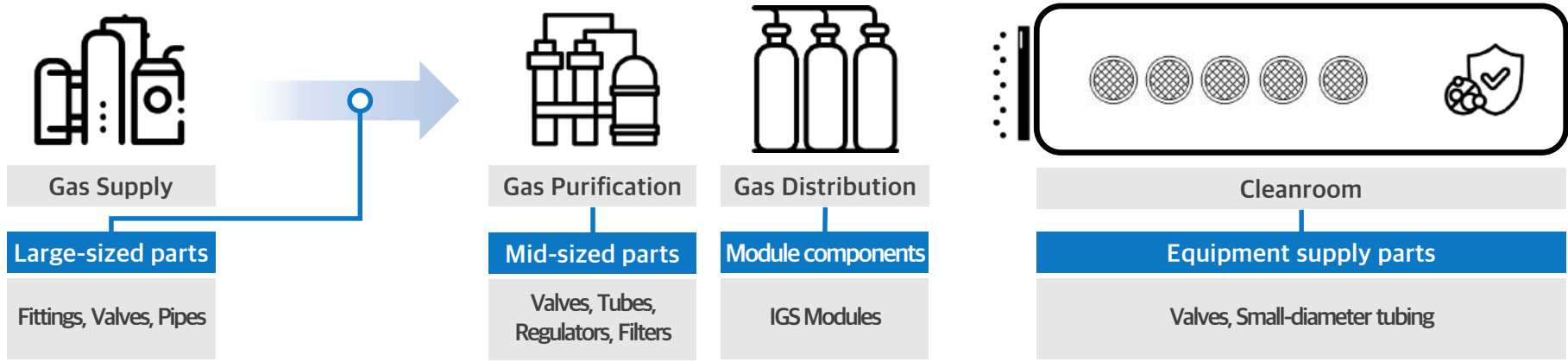


\$130B

- Large-scale investments led by EU CHIPS Act
- EU aims to double global semiconductor market share 10% to 20%
- Intel announced \$88B investment plan in EU region



Expand into the semiconductor equipment parts market



Expansion of Semiconductor Business Portfolio

Product Portfolio

Customer Portfolio



Modularization & Integration



Global Chip Maker	
SAMSUNG Electronics <ul style="list-style-type: none"> Approved Hook up, Canister Valve ('23y) Approved Hastelloy, Diaphragm valve ('24y) Supplied to Giheung, Hwaseong, Pyeongtaek Fabs 	SK Hynix <ul style="list-style-type: none"> Approved Diaphragm Valves ('18) Approved BV, RV, UHP Fittings ('22) Supplied to Icheon, Cheongju, Yongin, Wuxi Fabs
SAMSUNG Display <ul style="list-style-type: none"> Approved UHP Fittings & Valves ('21) Supplied to Asan Fab 	TEXAS INSTRUMENTS <ul style="list-style-type: none"> Registration in progress Global supply chain collaboration under review

Global Equipment Manufacturer	
AMAT <ul style="list-style-type: none"> Registration in progress Reviewing global expansion plans 	LAM Research <ul style="list-style-type: none"> Registration completed(Supply to EU) Promoting UHP Fittings & Valves adoption Collaboration on IGS Gas Box in India
AIR PRODUCTS <ul style="list-style-type: none"> Collaborating on Samsung Pyeongtaek supply Reviewing global supply chain cooperation 	LINDE <ul style="list-style-type: none"> Registration in progress Reviewing global supply chain cooperation

Aerospace & Defense (Expansion of Business Structure)

Aircraft Fluid System Fittings



Nadcap
Certification
Completed
in 2022



Aerospace Strategy Expansion

2024~2030

TA50

FA50

KF21

KUH

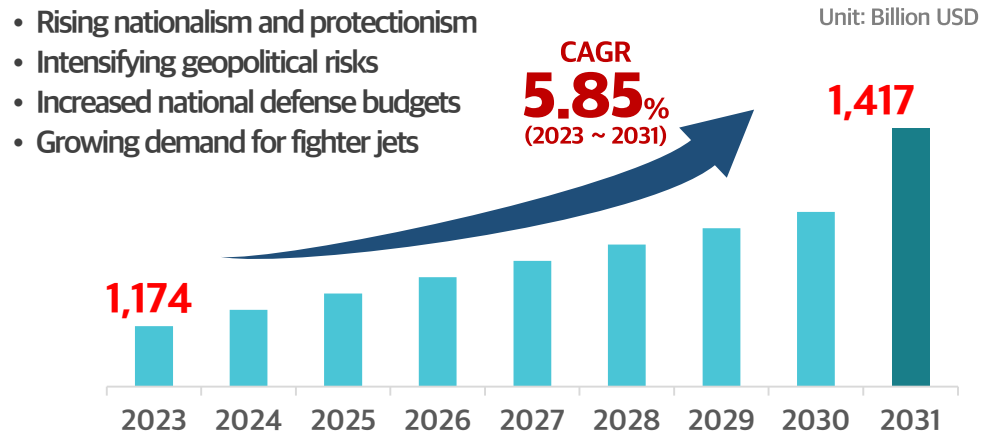
2030~2035

BOEING 787

A220-300

TA50/FA50

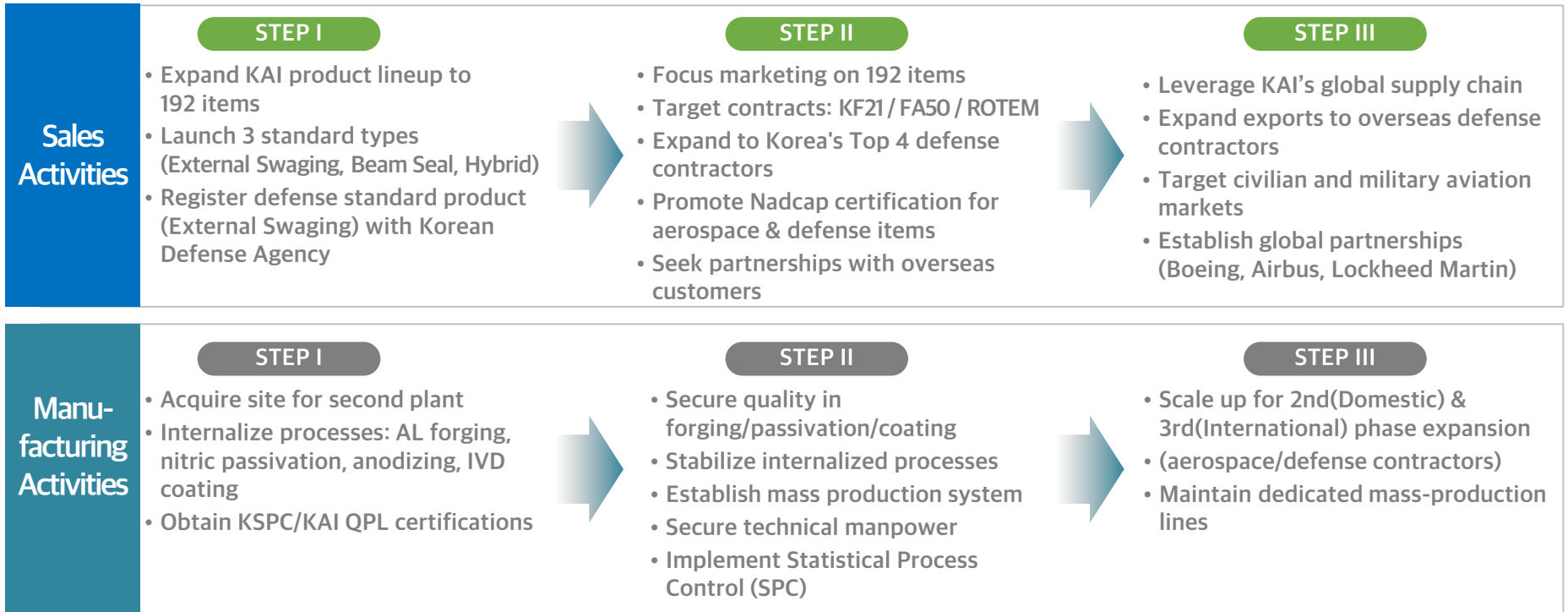
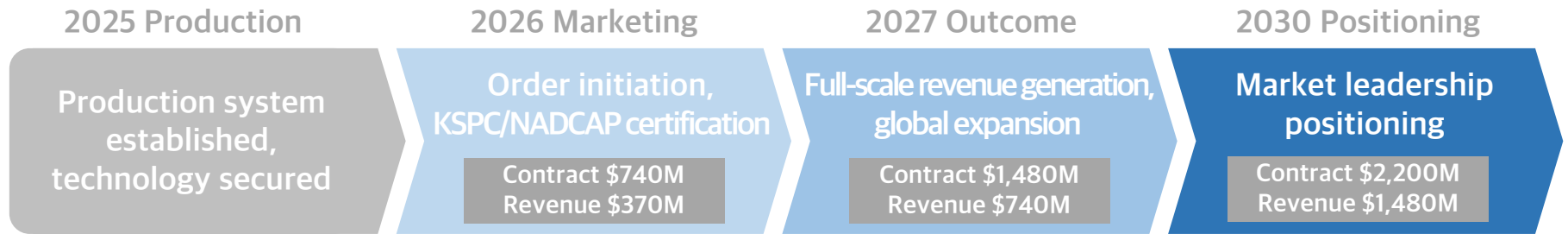
Global Aerospace & Defense Market Outlook



*Source: Fortune Business Insights

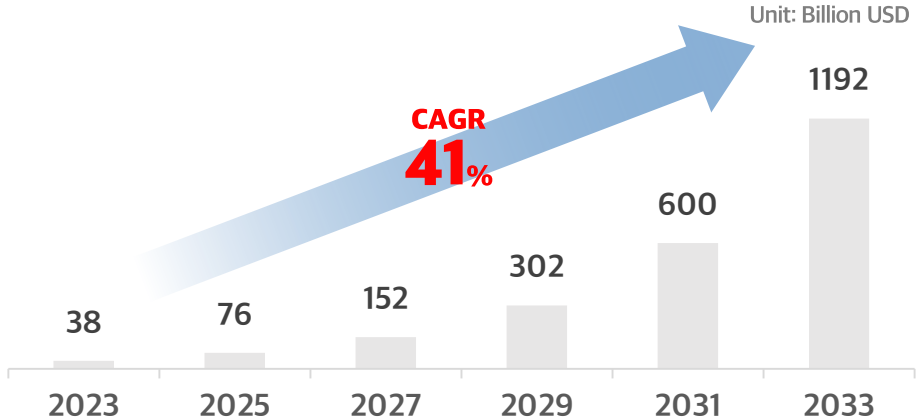
Aerospace & Defense (Strategic Focus)

Increase aerospace & defense revenue share to 15% by 2030



Gradual Growth of the Hydrogen Industry

Hydrogen Commercial Vehicle Market Outlook



*Source: Fortune Business Insights

Supplying 27 product models for hydrogen commercial vehicles

수소버스 구조도 (Hydrogen Bus Structure Diagram)

- 1 배터리 (Battery)
- 2 수소탱크 (Hydrogen Tank) - 중전압 수소를 저장하며 연료전지에 공급
- 3 연료전지(스택) (Fuel Cell Stack) - 중전압 수소와 연료전지막의 화학반응을 이용하여 주행을 위한 전기 생성
- 4 수소 충전기 (Hydrogen Refiller) - 초고압으로 수소를 저장해두는 수소 저장용기 수소디스펜서를 통해 수소전기자에 연료전달

수소트럭 구조도 (Hydrogen Truck Structure Diagram)

- 2 수소탱크 (Hydrogen Tank)
- 3 연료전지(스택) (Fuel Cell Stack)
- 4 모터 (Motor)

에어모시터(CV) **유니버설(PY)** **엑시엔트(OZ)**

LH2C - Ultra-Low Temperature Safety & Control Valves

Safety · Control Valve

2025y 0 ships → 2050y 200 ships (\$96B)

- ✓ “2050 Carbon Neutrality Scenario” by Government
- ✓ Mismatch between green hydrogen production and consumption regions
- ✓ Equipment for LH2 requires high technical barriers, reliability, and proven track record
- ✓ R&D collaboration planned with government support
- ✓ Technology development also progressing for similar applications beyond hydrogen transport

Liquefied Hydrogen Control Valve

Development of Cryogenic Vacuum-Insulated Pneumatic Control Valve

- Structure minimizes heat loss
- Delivers world-class performance
- Certified by KGS AA317 ground test
- Undergoing marine test and NTQ certification

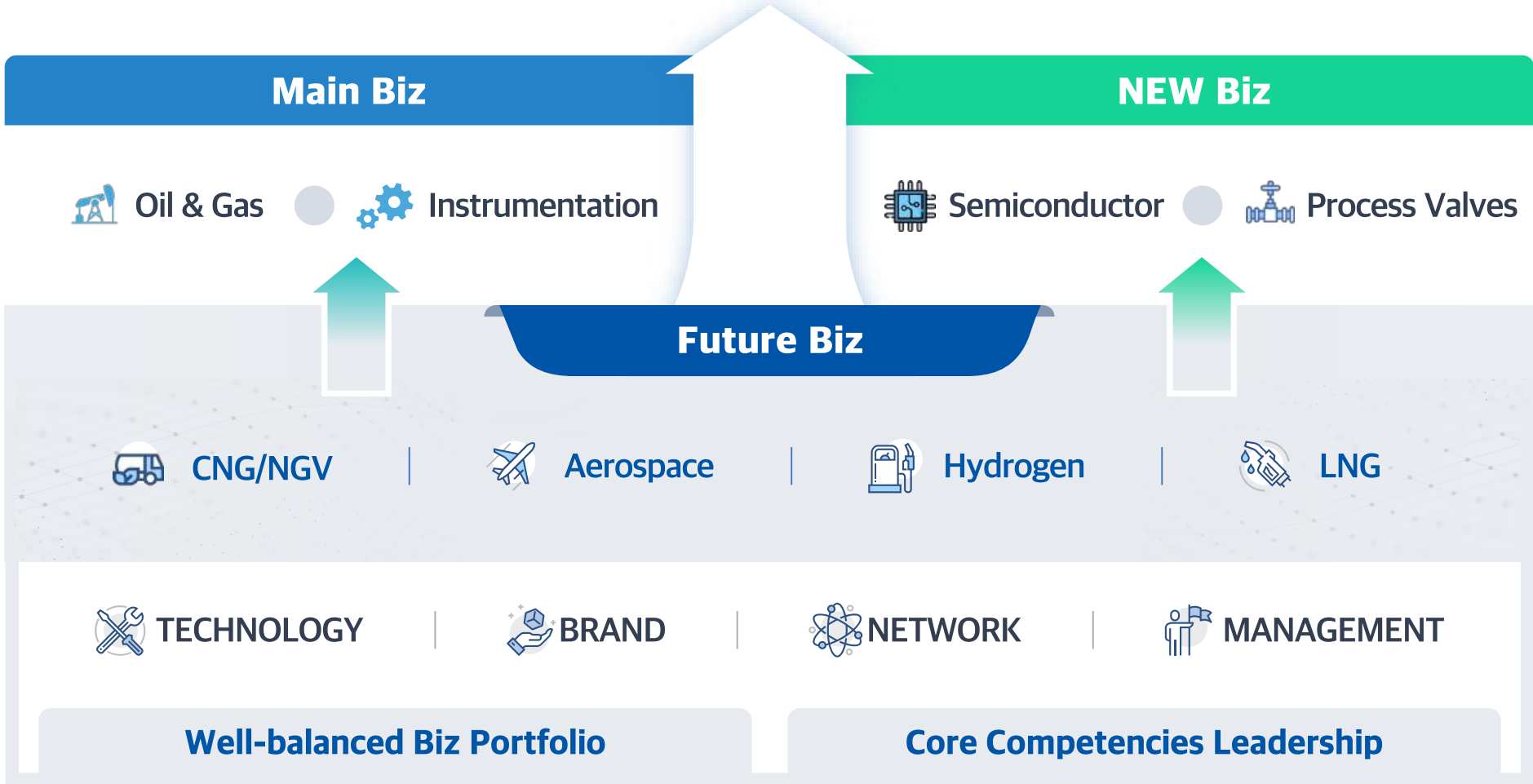
Liquefied Hydrogen Safety Valve

Development of Spring-Actuated Cryogenic Safety Valve

- Delivers world-class performance
- Certified by KGS AA319 ground test
- Marine testing supported
- NTQ certification in progress

VISION

Fitting & Valves **Global Top 3**



THANK YOU