

2024

Global Standard Technology Investor Relations

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Overview

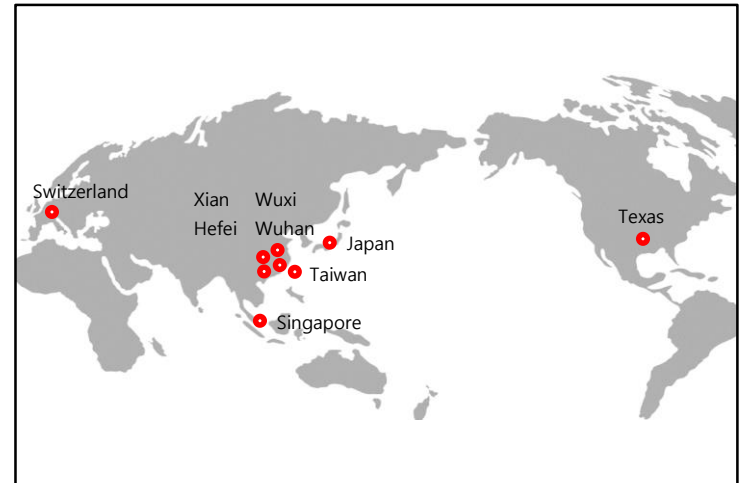
□ Company

Name	Global Standard Technology Co., Ltd
CEO	KIM DUK JUN, JANG KWANG SOO
Founded	2001
Capital	₩ 9,300,000,000
Employees	712
Products	Scrubber / Chiller
Headquarters	15-13, Dongtansandan 6-gil, Hwaseong-si, Gyeonggi-do, Republic of Korea
Website	www.gst-in.com

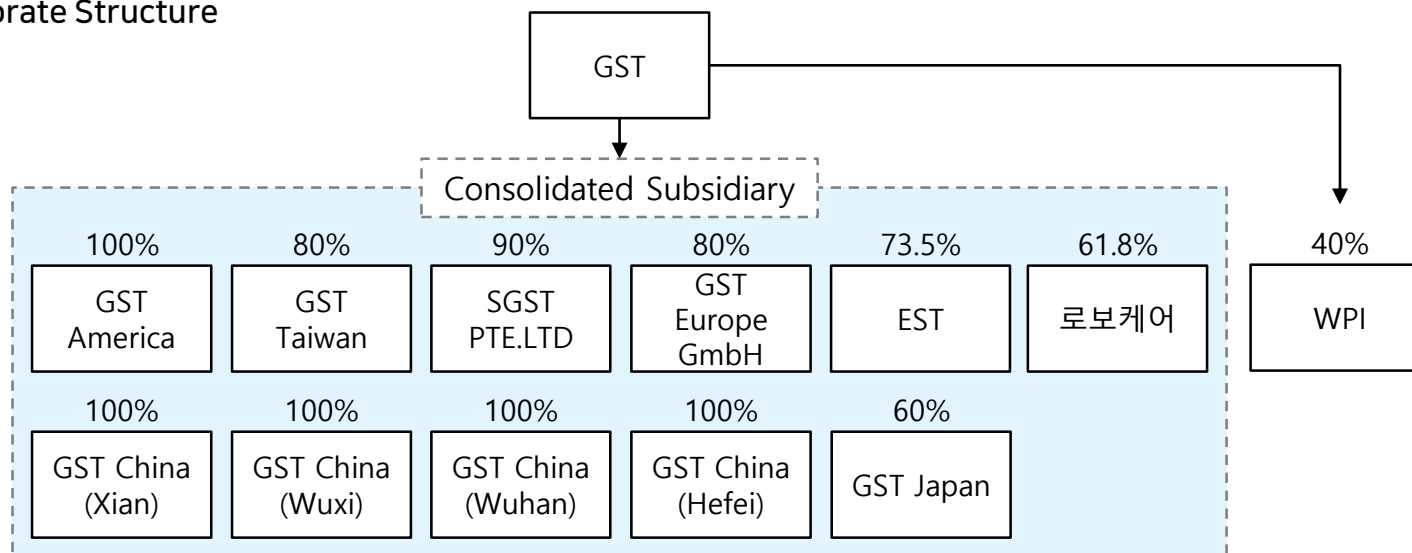


□ Overseas Subsidiaries

Name	Location
GST America	Pflugerville, Texas, USA
GST China	Xi'an, Shaanxi Province, China
GST Taiwan	Hsinchu, Taiwan
GST China(Wuxi)	Wuxi, Jiangsu Province, China
GST China(Hefei)	Hefei, Anhui Province, China
GST China(Wuhan)	Wuhan, Hubei Province, China
SGST	Singapore
GST Europe	Switzerland
GST Japan	Hiroshima, Japan



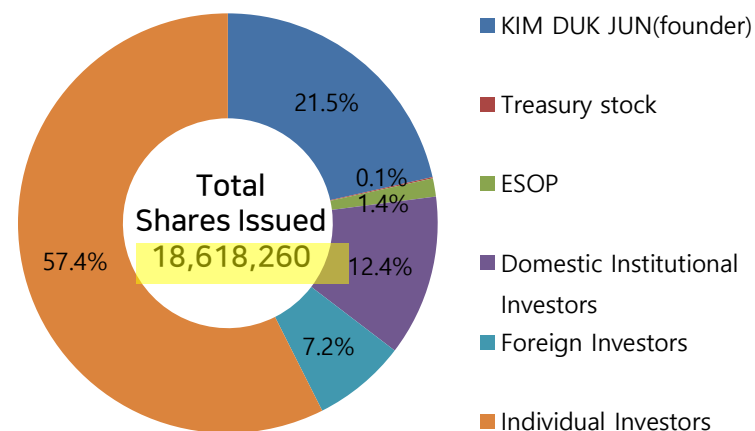
□ Corporate Structure



□ Shareholder Composition

2024.09.30.

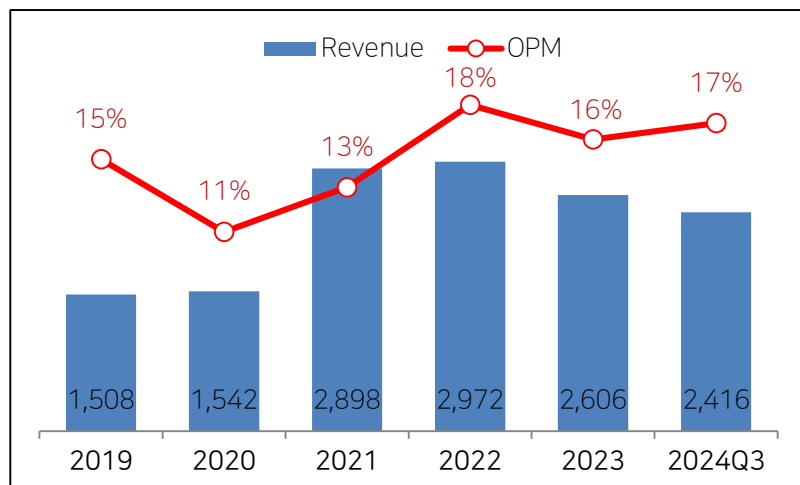
	Shares Outstanding	Percentage
KIM DUK JUN	4,000,000	21.5%
Treasury stock	17,230	0.1%
Employee Stock Ownership Plan (ESOP)	251,488	1.4%
Domestic Institutional Investors	2,315,074	12.4%
Foreign Investors	1,346,071	7.2%
Individual Investors	10,688,397	57.4%
Total Shares Issued	18,618,260	100.0%



Review

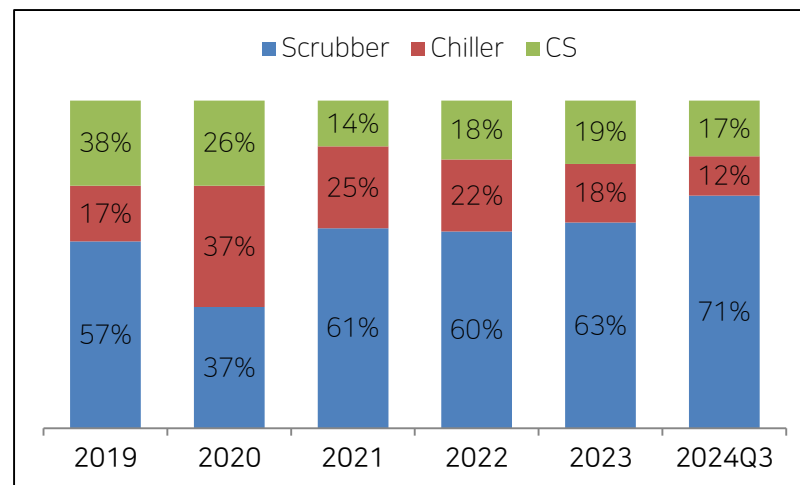
□ Trends in Revenue and OPM

(Unit: 100M ₩)



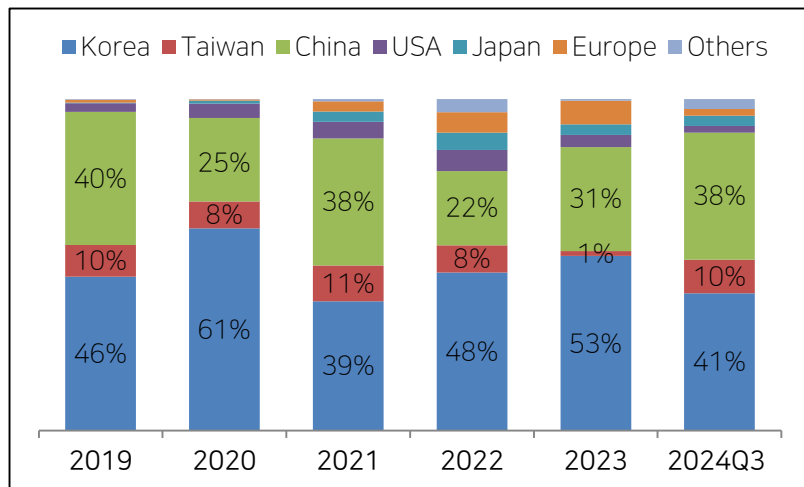
□ Sales Composition by Product

(Unit: %)



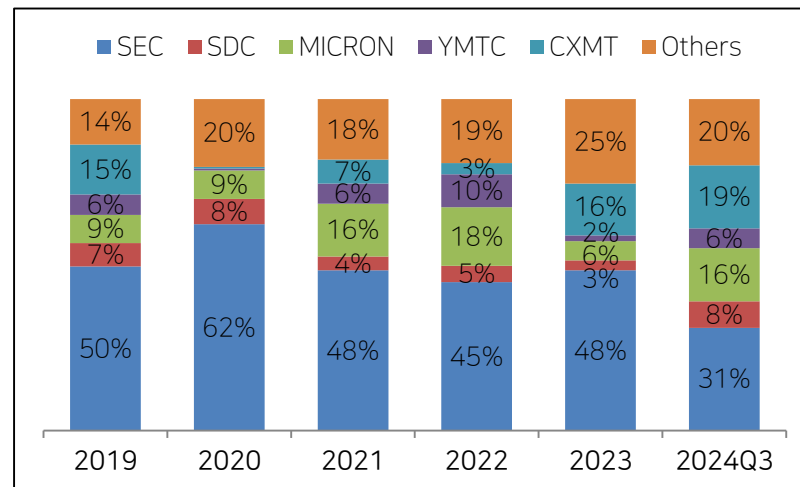
□ Regional Sales Trends

(Unit: %)

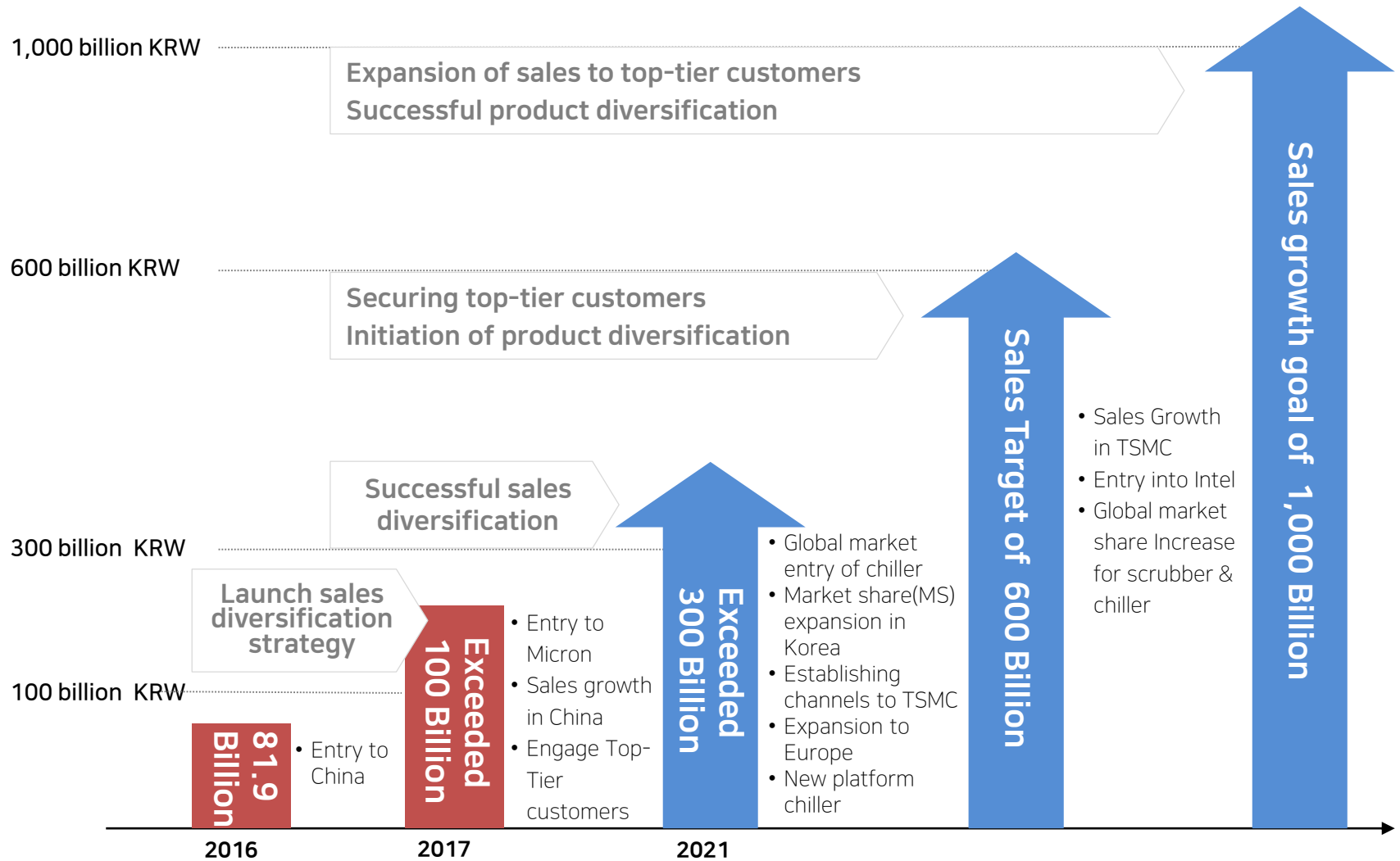


□ Major Customers Revenue Trends

(Unit: %)



Growth Roadmap



※ The figures and graphical representations on the growth strategy page are illustrative and should not be interpreted as sales forecasts

Growth Strategy

Sustained sales growth

▪ Securing top-tier customers

- ① Micron : MS expansion primarily in Taiwan, Japan
- ② TSMC : chiller 2nd demo driven by main tool changes, New scrubber demo
- ③ SK Hynix : Order secured, supply initiated
- ④ Intel : Business proposal presented, follow-up planned

▪ Expansion of domestic MS

- ① P4 : CVD, Metal, Diff
- ② Carbon neutral
 - Sales expansion of plasma scrubber
 - Increase in the proportion of Heat, Catalyst, Wet scrubber
- ③ SDC : Conversion Investment

▪ Overseas CS sales growth

- ① Service revenue Increase

Accelerated global expansion of chiller

▪ Securing overseas customers

- ① Micron : Entry of electric chiller
- ② TSMC : preparing chiller demo for cutting-edge etching tool
- ③ Europe : electric chiller target

▪ Expansion of the domestic market

- ① Medium-low-temperature chiller : Expansion of refrigerator chiller market
- ② Cryogenic chiller : Currently in Demo

▪ Business expansion

- ① Expansion to the power semiconductor, solar industry

Development of new products

▪ Immersion Cooling System

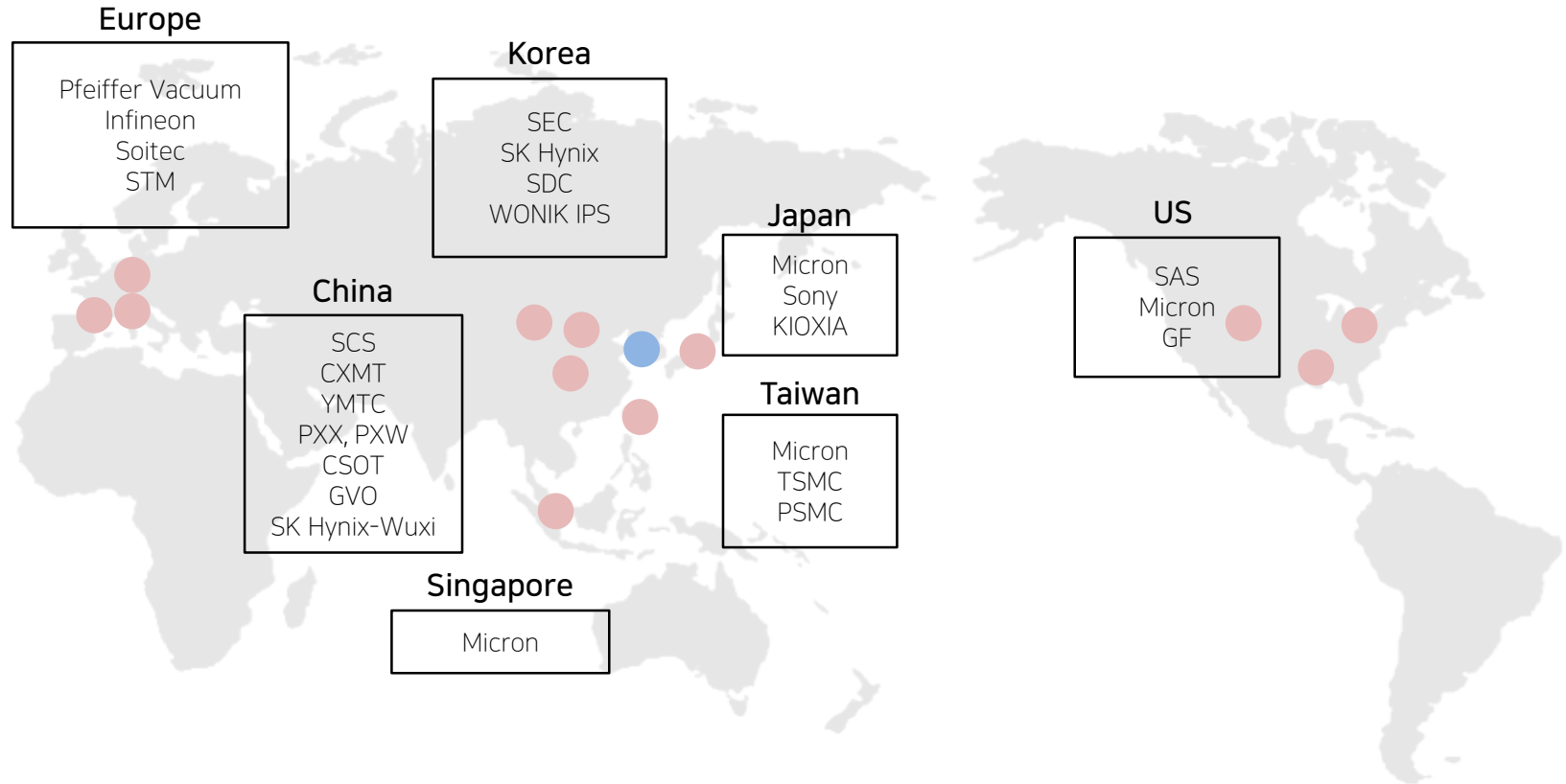
- ① Phase 1 & 2 prototype successfully delivered
- ② Start the data gathering for the prototype
- ③ Expanding collaboration with market stakeholders
- ④ Patent application pending

▪ Building an R&D Center in Pangyo

- ① Research on new growth engines
- ② Securing laboratory personnel

Sustained Sales Growth

□ Major customer



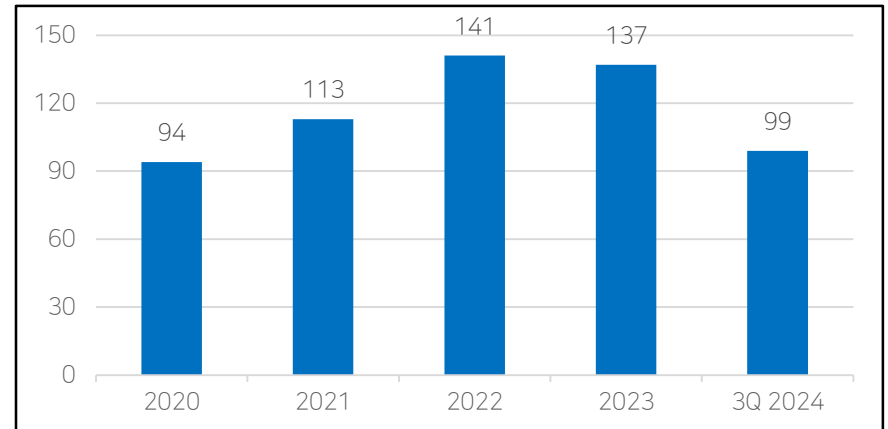
Establishing a diverse customer base across all continents



"Carbon neutral "

Sales in Korea

(Unit: 1 billion KRW)



Strategies toward major customer

SEC

- Exclusive plasma scrubber demo for HBM-specific main tool
- Ultra-low temperature chiller demo for etching main tool
- Order fulfillment for P4 investment
- Response to customers investments for new, supplementary and conversion

SDC

- Response to conversion investment in existing Fabs

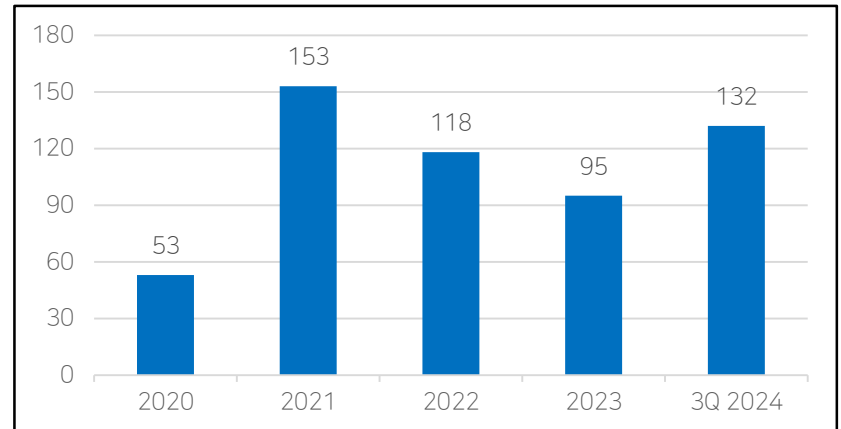
SK Hynix

- Qualified and Entry for New Plasma-wet Scrubbers
- Qual and Entry for High-Capacity Plasma-wet Scrubbers
- Expected Boost in sales



Sales in Aisa

(Unit: 1 billion KRW)



“Securing global top tier customers”

▪ Strategies toward major customer

Micron

- CAPEX increase in FY2025 compared to FY2024
 - Focusing on Taiwan and Japan
- Establishment and Commencement of GST Japan
- Efforts to expand market share
 - Entry of the electric chiller

CXMT, YMTC

- Limited impact of the U.S.-China conflict
- YMTC, CXMT started the second phase of investment
- Response to CXMT's new Fab investment in 2025

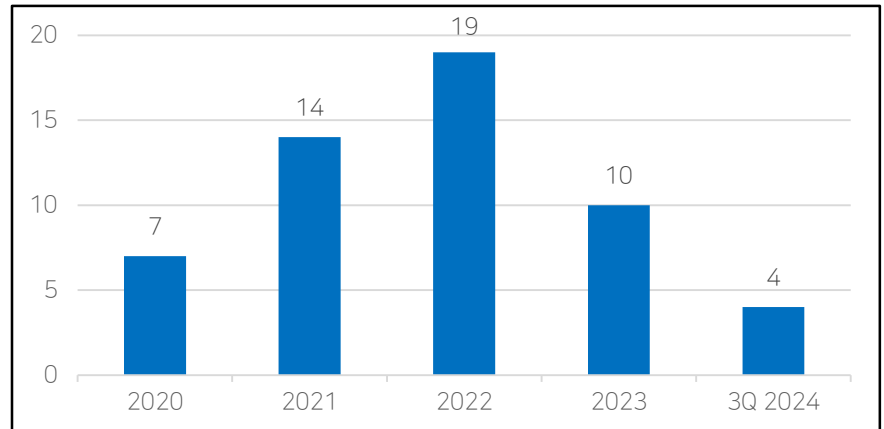
TSMC

- Review stage for 2nd demo of electric chiller due to main tool changes
- Review stage for proposal of new scrubber demo



Sales in USA

(Unit: 1 billion KRW)



“Capex on new projects”

▪ Strategies toward major customer

Micron

- Expand market share in Boise & Virginia
- New investment in New York state
- Propose electric chiller to replacement demand
 - Energy saving
 - Replace demand for refrigerant chiller using refrigerants & coolants

Samsung

- Taylor project
 - Monitoring investment restart point
 - Salse reference at Austin fab
 - Excellent evaluation result
- Proposing upgrades for existing equipment at Austin fab

Global Foundry

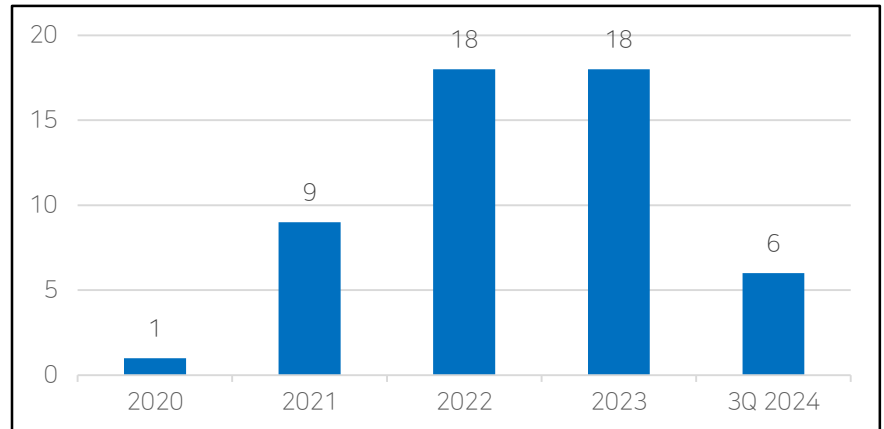
- Trust built from existing business relationships
- Provide high-quality services by local engineers
- Proposal for upgrading old equipments



“Eco-friendly”

Sales in Europe

(Unit: 1 billion KRW)



Europe

- Small fabs with automotive semiconductors
 - ST micro, Infineon
- Expected annual sales of approximately 10 billion KRW
- Initial target market of eco-friendly chiller(electric chiller, CO₂ chiller)

Product Diversification

□ SCRUBBER

Burn Wet



GAIA-I SINGLE



GAIA-EV6



iVAS

Plasma Wet



GAIA-P SINGLE

Wet



GAIA GARAM

- Burn Wet
 - Toxic gas abatement from semiconductor/display manufacturing processes by using LNG Burner
 - Achieving Nox reduce abatement efficiencies from semiconductor manufacturing processes
- Plasma
 - Toxic gas abatement from semiconductor/display manufacturing processes by using plasma
 - Effective in carbon neutrality
 - Currently under review for adoption by S company

[Energysaving & Downsizing]

- Energysaving
 - Reducing electricity consumption with plasma wet
- Downsizing
 - Responing to trend of downsizing based on installation environments
- Burn wet type with hydrogen burners
 - LNG gas replaced by hydrogen

Product Diversification

□ CHILLER

Electric



EES-08-DL

Refrigerant



RS-18

Heat Exchanger



HS-04

Cryogenic



RSHD-833T

Eco friendly



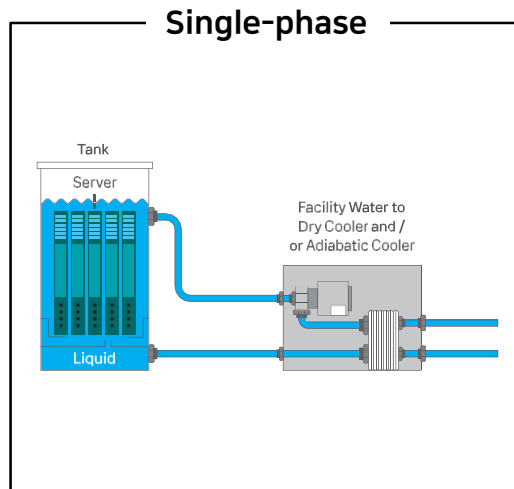
CO₂ Chiller

- Cryogenic Chiller Demo in Progress
 - connected with cryogenic etching main tool
- Developing of eco-friendly chiller
 - Launching new chiller with CO₂ as refrigerant. Introducing to overseas markets
- Global market entry of electric chiller
 - TSMC, Micron , ST micro
- Increase sales of mid low temperature chiller(refrigerant based)
- Accelerate chiller sales to global market, based on scrubber sales customers

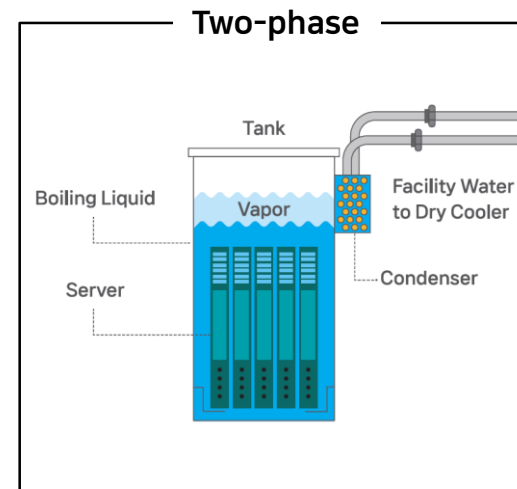
New Business Opportunities

□ Immersion Cooling System

- **Background**
 - Exponential growth of the data center business
 - Increased burdens of securing real estate sites and costs of electricity consumption.
 - CPUs and GPUs with high density integration
 - Switch from conventional air cooling to immersion cooling
- **Energy saving** : Immersion cooling achieves PUE levels of 1.0 to 1.04, compared to air cooling(PUE 1.68),
- **Partners** : LS Electric, global server maker, domestic major companies, and domestic/global oil refinery companies.



- Delivered to customer in Sep 2024



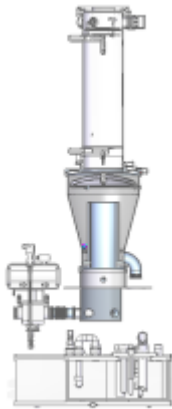
- Delivered to customer in Oct 2023
Ongoing collection of PoC data

- **Market size**
 - Immersion Cooling Market: USD 0.4 Billion in 2023 → USD 1 Billion by 2030
(Based on a comprehensive data from 9 global research firms)

Service

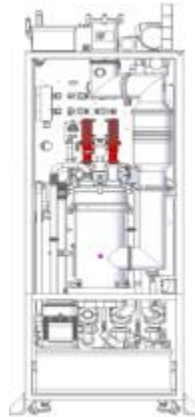
□ Extension of PM cycle

Flameless scrubber



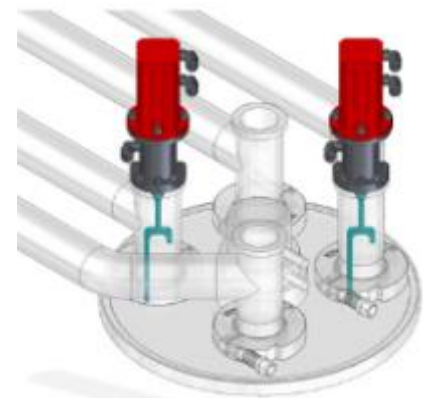
- Replace old models
- Eco-friendly flameless scrubber
- Joint patent with S company

GAIA Origin



- Replace old models
- Improved GAIA technology without changing the appearance of the existing model
- Revolutionary extension of PM cycle

Screw Scraper

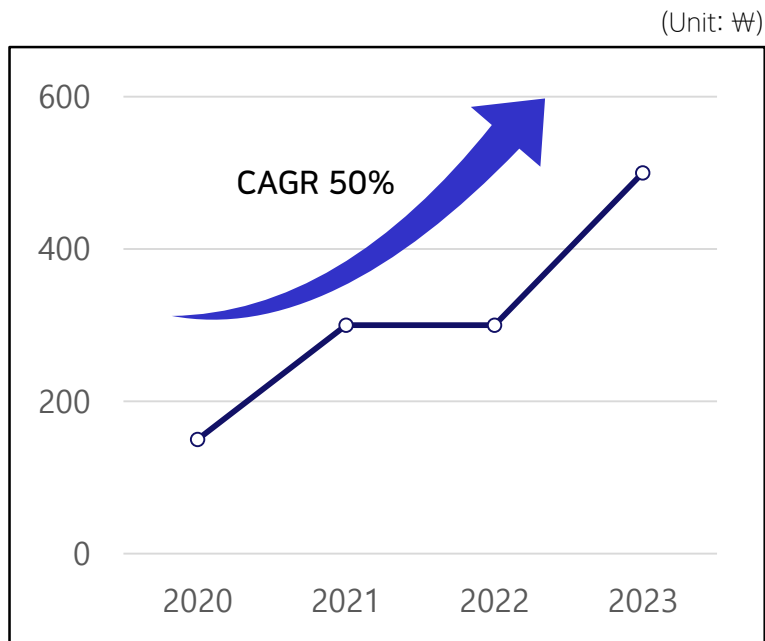


- Troubleshooting in powder issue
- Removing powder by vertical, rotational motion
- Extension of PM cycle

An excellent PM cycle compared to competitors through a paradigm shift

Shareholder return

Increase in dividends per share
based on stable profitability





Conducted share buyback and bonus
issue to enhance shareholder value

Date	Buyback	Bonus Issue
2024. 12. 4	KRW 4.3 billion	-
2024. 11. 7	KRW 5 billion	-
2024. 8. 5	KRW 3 billion	-
2024. 6. 11	-	KRW 4.7 billion (1:1 ratio)

Continuing to Enhance Shareholder Returns

Synergy with subsidiaries

(Unit: 1 million KRW)

	Finanacials		Business Area	Status
	Assets	34,852	Engineering	▪ Customized parts processing business
	Equity	23,128	Heat Jacket	▪ Components for maintaining pipe temperature to prevent powder generation of harmful gases
	Revenue	31,173		
	Profit	1,152	Energy	<ul style="list-style-type: none"> ▪ Freezing/refrigeration in maintaining low temperatures for long periods ▪ Energy saving with PCM material
	Assets	8,577	Social Robot	▪ Operates 25 locations including cognitive training education system and dementia care center
	Equity	3,667		▪ Cooperate with Robot Cognitive Therapy Center
	Revenue	8,506		▪ Local government Project <ul style="list-style-type: none"> ▪ Dementia care robot ▪ support benefits for the socially disadvantaged
	Profit	2,955		▪ Planning to enter B2C business

APPENDIX

□ Consolidated Financial statements

(Unit: 1 million KRW)

	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024Q3
Current assets	54,652	88,979	91,827	142,215	178,862	183,766	204,933
Non-current assets	50,375	47,773	50,008	64,028	72,969	96,015	119,651
Total assets	105,027	136,752	141,836	206,243	251,831	273,780	324,584
Current liabilities	17,071	31,061	25,004	50,359	43,246	40,416	51,959
Non-current liabilities	2,148	2,380	3,094	4,521	7,237	6,264	6,747
Total liabilities	19,219	33,441	28,099	54,880	50,483	46,680	58,706
Capital stock	4,659	4,659	4,659	4,659	4,659	4,659	9,309
Capital surplus	6,881	6,881	6,881	6,881	6,881	6,881	2,231
Other equity interest	(72)	(32)	(1,667)	(2,140)	2,179	1,895	2,882
Retained earnings	69,539	87,791	100,747	136,546	181,218	212,055	242,798
Equity attributable to non-controlling interests	4,801	4,012	3,116	5,418	6,411	7,611	8,659
Total equity	85,808	103,311	113,737	151,364	201,348	233,101	265,878
Total liabilities and equity	105,027	136,752	141,836	206,243	251,831	279,780	324,584

☐ Consolidated Financial statements

(Unit: 1 million KRW)

	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024Q3
sales	129,850	168,232	166,880	304,487	312,848	279,215	259,254
Operating income	10,405	21,908	18,150	46,407	56,941	42,538	47,432
Ner profit before corporate tax expenses	11,503	23,043	16,786	48,619	59,391	43,025	50,456
Profit	10,303	17,969	15,491	38,970	47,602	36,937	35,846
Net income attributable to controlling interests	9,626	17,876	15,804	37,746	46,808	35,681	35,314
Net income attributable to non-controlling interests	677	93	(313)	1,224	794	1,256	532
Total comprehensive income	9,922	18,348	14,316	38,776	49,018	34,060	36,089
Equity attributable to owners of parent	9,395	18,263	14,680	37,548	48,071	35,682	35,554
Equity attributable to non-controlling interests	527	85	(363)	1,228	947	1,256	535
Basic EPS(Unit: 1 KRW)	1,080	2,010	1,788	4,292	5,243	3,960	1,921
Diluted EPS (Unit: 1 KRW)	1,079	1,964	1,727	4,177	5,243	3,935	1,908
Number of companies included in consolidated financial statement	8	10	11	11	11	11	10