Technology & Tai-wa for Tomorrow **Investor Day 2024 SECTION 1** June 18, 2024

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Today's Agenda



Special Guest from Applied Materials



TERRANCE LEE

Corporate Vice President, GM
Etch Products Business Unit
Semiconductor Products Group



- Terrance Lee is a corporate vice president for the Etch Products Business Unit. He is responsible for defining the strategic roadmap and marketing of Etch products.
- Previously, he worked in DCVD, Chemical Mechanical Planarization and Plating Business Units. Before joining Applied Materials, he held executive positions in Business Development and Finance in the capital equipment sector.
- Mr. Lee earned a Bachelor of Science degree in Chemical Engineering from UC Berkeley and holds patents in CVD, CMP and Etch.

KOKUSAI ELECTRIC's Experienced Management Team

Strong Leadership by Semiconductor Industry Specialists × Disciplined Governance

Executive Officers



Fumiyuki Kanai Representative Director **President and CEO**



Hidehiro Yanagawa **Executive VP Head of Business** Development, Sales, **DX/IT, Information Security**



Kazunori Tsukada **Executive VP** Head of Corporate Planning, Head of Global Supply **Export Control, Legal,** Intellectual Property, PR & IR, Sustainability



Masayuki Yamada **Senior VP** Chain, Quality Assurance, Site **Operations**



Yoshitaka Kawakami **Senior VP**



Kenji Kanayama **Senior VP** Finance & Accounting Technology Management, Process Technology Development



Naotoshi Yamamine **Senior VP** Services, Field Engineering, **Group Governance**



Masami Miyamoto Corporate VP Sales

Years of Experience in Industry:

43yrs

36yrs

38_{yrs}

41_{yrs}

35_{yrs}

33yrs

34_{yrs}

Executive Officers

Business Strategy

Accounting

Directors

Independent Directors



Shigeru Odake **Corporate VP System Technology**



Corporate VP HR & Corporate Development, Technical Support Administration, Ethics & Compliance



Takashi Hashimoto **Business Strategy**



Hajime Oyama Accounting



Yuji Kamiya **Director**



Unryu Ogawa Director Executive Fellow



Masaaki Tsuruta ex-CEO of Samsung Japan; ex-Deputy of Sony's Semi Business

SAMSUNG/SONY



O'Melveny / 🌃

Years of Experience in Industry:

32_{vrs}

32_{vrs}

41_{vrs}

29_{vrs}

43_{vrs}

27yrs

Knowledge and Experience ! in Semiconductor Industry

Values:

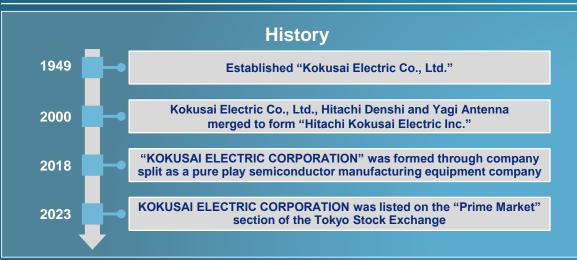
Disciplined Governance, International Legal **Expertise**

KOKUSAI ELECTRIC at a Glance

70+ Year History with a Specialty Position in the Batch Deposition Market, with High-Quality Products / Services Valued by Customers

Company Overview

Key Financials



FY24/3 Financial Highlight		
Revenue	JPY 180.8 Bil	
Adjusted Earnings per Share	JPY 118.12	
GP Margin	41.5%	
Adjusted Operating Margin	20.9%	









Korea(Cheonan)

of Employees
(As of 24/3, Consolidated)



2,472

intel EPIC Distinguished Supplier Award 2024

Intel EPIC Distinguished Supplier Award 2024

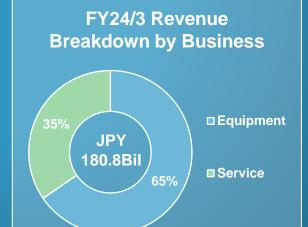
Recent Awards

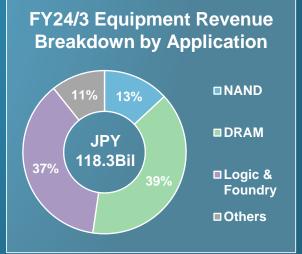


2024 Win-Win Cooperation DAY Grand Prize for Outstanding Cooperating Company Award



TechInsights
10 BEST Suppliers 2024





Motor

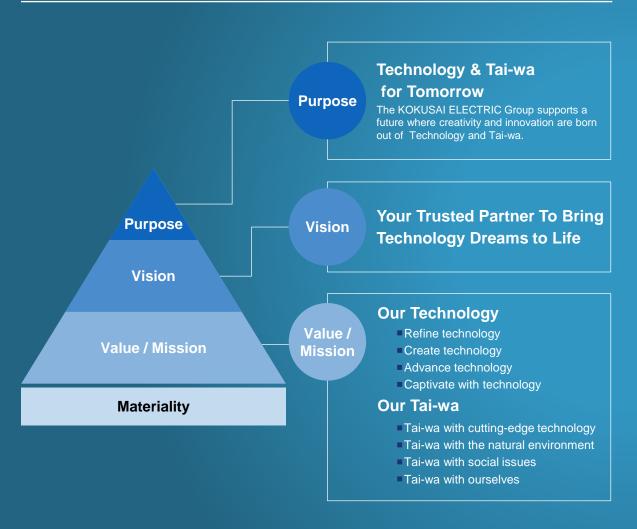
- sa. Wa rafar to a technique for thin-film deposition at an atomic layer level involving a process of cyclical supply of multiple gases as "Al
- rce: TechInsights Inc. (VLSI) "TI ALD Tools YEARLY" 2024 (April)
- Gartner®, Market Share: Semiconductor Wafer Fab Equipment, Worldwide, 2023, Bob Johnson, Gaurav Gupta, Menglin Cao, 1, May 2024
 Gartner research. Calculations performed by KE. Treatment: RTP and Oxidation/Diffusion

Management Policy

Driving Economic, Environmental, and Social Value through "KOKUSAI ELECTRIC Way"

KOKUSAI ELECTRIC Way

Sustainability Management



Contribute to the realization of a sustainable society and the achievement of SDGs





















Expanding corporate value and sustainable development

Business activities

Environmental & Social activities

Strengthening governance

Our Business and Major Products

Specializing in Film Deposition, with Batch ALD and Treatment Equipment as Our Main Products, Leading in Global Market Share

Business Profile and Revenue Breakdown (FY24/3)

Equipment (65%)

Batch Deposition

Worldwide Market Share No. 1 (CY2023)(1)

Batch ALD

- Batch deposition equipment that can process over dozens of wafers at once and is compatible with Atomic Layer Deposition (ALD) technology.
- ALD applies thin-film deposition at an atomic layer level, involving a process of cyclical supply of multiple gases as "ALD".

Batch CVD

- Chemical Vapor Deposition (CVD) involves multiple gases flowing simultaneously into a chamber, reacting in the gas phase.
- Main focus on Low Pressure CVD.

Service (35%)

After-sales service for semiconductor manufacturing equipment:









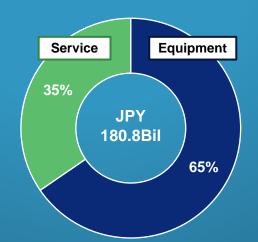




Treatment

Worldwide Market Share No. 3 (CY2023)(2)

- Treatment equipment improves film properties by applying plasma and heat on thin film to remove impurities from film and stabilize particles.
- As semiconductor devices became more complex. Treatment demand has grown in low temperature as well as with excellent isotropy and step coverage.



Major Products

Large batch deposition "AdvancedAce®-300"

Compatible with technology including batch ALD, batch CVD, oxidation, diffusion and steady annealing.



Mini batch deposition "TSURUGI-C^{2®} 剱[®]"

- Capable of both highly difficult deposition and high productivity on next-generation devices.
- Compatible with thin film formation processes, incl. latest batch ALD technology.



Single-wafer treatment "MARORA®"

- Applies plasma and heat on film.
- Able to treat complex semiconductor shapes with high productivity and quality.



Single-wafer treatment "TANDUO®"

- Applies heat on thin film.
- Capable of annealing in low temperature.



High-Temp Activation Anneal (New Product)

- Adopts a new heating system for ultra high temperature and 150/200mm common platform.
- Mass production is expected to begin in 2025.



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Our Technological Strength

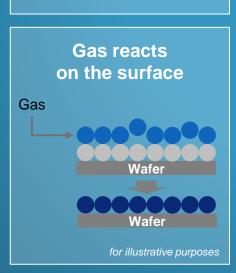
As Semiconductor Manufacturing Processes Evolve, Our Technological Strengths are Becoming Increasingly Important

Batch ALD Technology

- ✓ The complexity of semiconductor devices boosts the need for batch ALD with high productivity and quality
- ✓ Implementation in NAND is already advanced, and future demand increase is expected in DRAM and Logic/Foundry

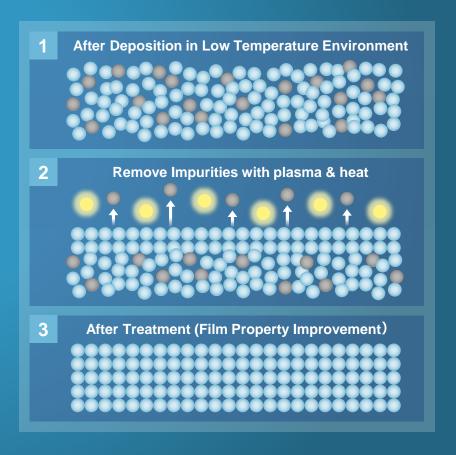
Increased demand for batch ALD that can achieve both high productivity and highly difficult film deposition Batch Deposition High Productivity ALD Technology High Quality





Treatment Technology

- ✓ As the deposition process advances towards lower temperatures, the need for plasma-assisted treatment is increasing
- ✓ Our unique plasma method creates abundant radicals, achieving excellent isotropy and step coverage, enhancing film quality with high productivity



Mid-term Management Strategies

Mid-term Management Strategies to Achieving Growth Higher than WFE

1 Expand Sales of Batch ALD and Treatment Equipment that Process the Increasing Complexity and 3D Devices of Various Applications



2 Expand Sales of Batch Equipment for Mature Nodes and Equipment for SiC Power Devices

(3) Expand the High-Profit Service Business that Meets Customer Needs throughout the Entire Product Lifecycle

Our Key Growth Drivers

Clear Growth Drivers across Device Types, Contributing to Higher and More Stable Growth and Profitability

NAND

- Market recovery from CY2025
- Even higher market shares as the device moves to >200 layers

DRAM

- Increasing market shares in D1b and D1c, with strong tailwind of HBM
- Structural shift to vertical DRAM and 3D-Stacked DRAM

Logic / Foundry

- Increasing market shares in GAA (N2 and N1.4)
- New application in Si Interposer
- Mature nodes in US / Europe



Treatment

- NAND market recovery
- New PORs⁽¹⁾ in DRAM, with HBM tailwind
- Aiming to expand to Logic

SiC Power Device

- Already expanding sales in conventional processes
- New high-temp anneal equipment in CY2025
- New solution of ALD-SiO

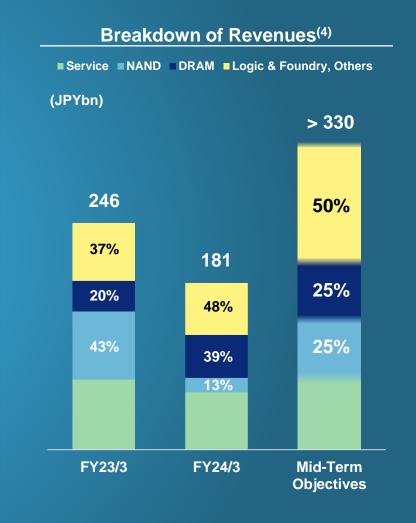
Service

- Increase of installed base and service sales per unit
- Expansion of global service network to address localization

Mid-Term Objectives⁽¹⁾ - Summary

We Updated Mid-Term Objectives with Higher Margins and More Balanced Application Mix

	FY2023/3	FY2024/3	Mid-Term Objectives
WFE Assumption	\$100 Bil (CY2022) ⁽²⁾	\$100 Bil (CY2023) ⁽²⁾	> \$120 Bil
Revenue	JPY 246 Bil	JPY 181 Bil	> JPY 330 Bil
Equipment (% Revenue)	69%	65%	~ 75%
Service (% Revenue)	31%	35%	> 25%
Adjusted OP Margin ⁽³⁾	26.1%	20.9%	> 30%
R&D (% Revenue)	5.0%	7.0%	> 6%



- 1. Regarding the Mid-Term Objectives, the landing prospects for the Mid-to-Long Term Objectives at the current point in time are described based on the current environment and progress
- 3. Adjusted Operating Profit is calculated as operating profit other income + other expenses + purchase price allocation amortization + stand-alone related expenses + stock-based compensation (except for performance-linked stock compensation). Adjusted Operating Profit Margin is calculated as Adjusted Operating Profit / Revenue

^{5.} The forward-looking statements included above are based on the current assumptions and beliefs of KE in light of the information currently available to it and involve known and unknown risks, uncertainties and other factors. Such risks, uncertainties and other factors may cause KE's actual results, performance, achievements or financial position to be materially different from any future results, performance, achievements or financial position expressed or implied by such forward-looking information

Technology & Tai-wa for Tomorrow **Investor Day 2024** SECTION 2 June 18, 2024

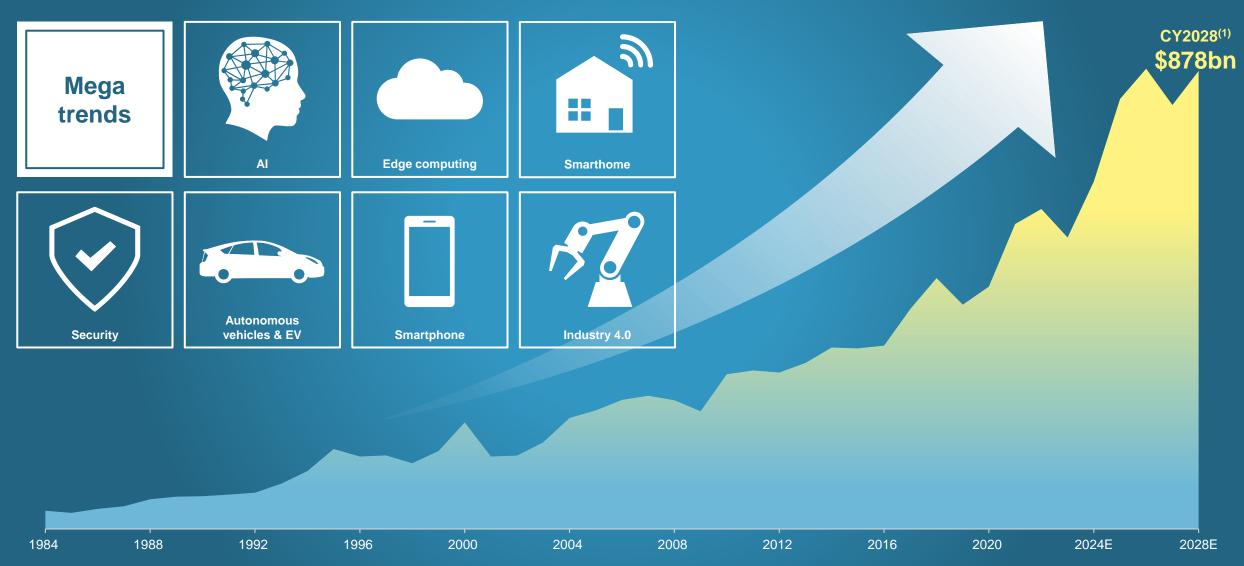


Market and Growth Outlook

Kazunori Tsukada, Executive VP
Head of Corporate Planning, Export Control, Legal, Intellectual Property, PR & IR, Sustainability

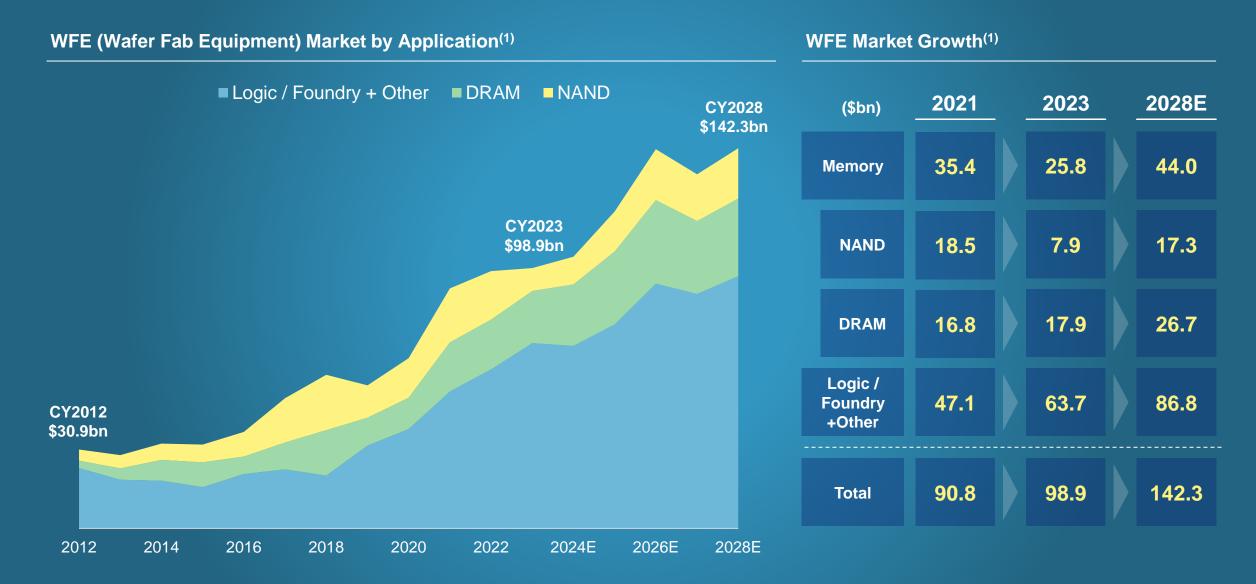
Trends and Outlook of Semiconductor Device

Semiconductor Market Recovering from CY2024, and Megatrends Driving the Semiconductor Market Towards \$1Tn



Trends and Outlook of WFE Markets by Application

DRAM and Logic/Foundry Expected to Exceed Previous Peak Levels, and NAND Expected to Recover to a Peak Level of 2021



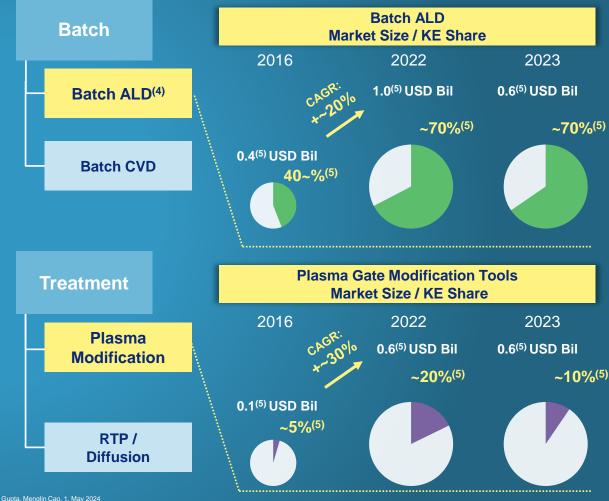
Specialty Position in Batch Deposition / Treatment Market

Aim to Increase Market Share in Batch ALD / Plasma Modification, Fast Growing Markets due to Higher Device Complexity

Worldwide Compelling Position in Batch / Treatment Equipment Market (CY2023A) Market Share Based on Gartner's Categories (1)



Breakdown of Batch and Treatment Market



(USD Bil)

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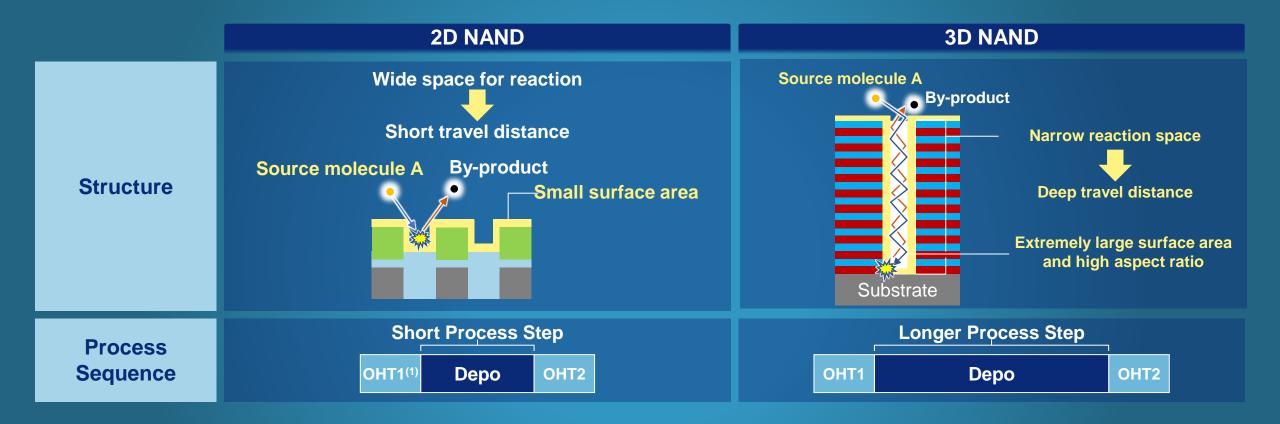
^{2.} We define "Tube CVD" in Garner's WFE segmentation as "Tube (Batch)" in this chart (Calculations performed by KOKUSAI ELECTRIC CORPORATION)

Total market in each of Gartner's category
 We refer to a technique for thin-film deposition at an atomic layer level involving a process of cyclical supply of multiple gases as "ALD" 5. Kokusai estimate based on public information and internal sales data

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Productivity Challenges of Deposition for Increasingly Complex and 3D Devices

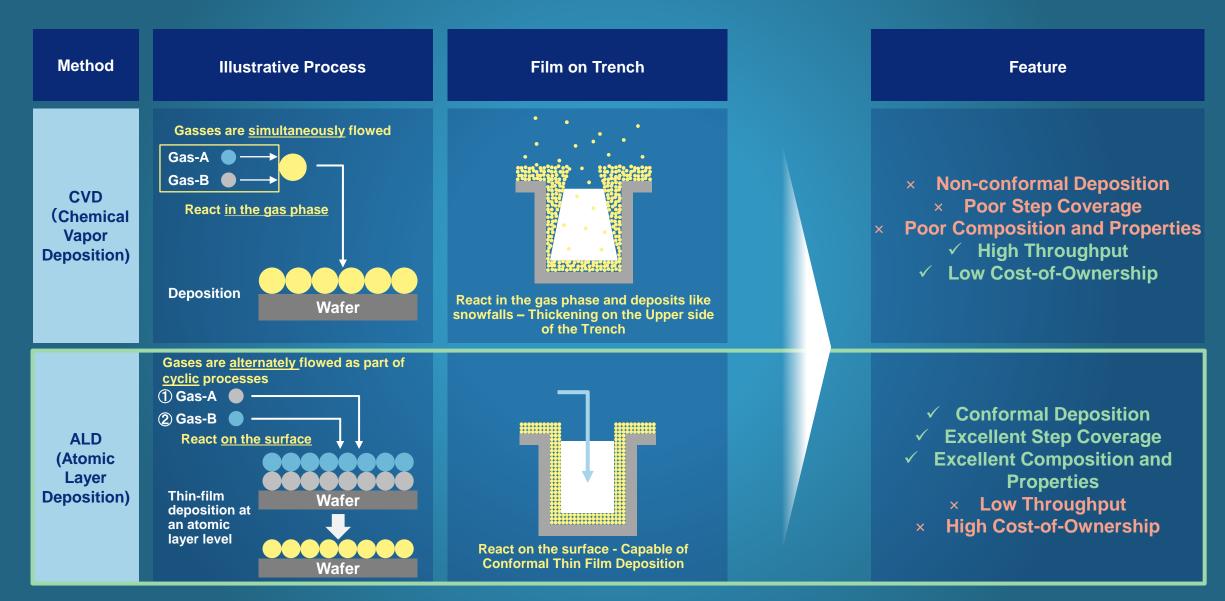
3D Structure Requires High Productivity Deposition Tools, Capable of Conformal Thin Film Deposition onto Large Surface Area



✓ Due to the shift of Device Structures from 2D to 3D, the productivity of the Deposition has become a severe challenge Batch technology is a solution to enable critical film deposition onto complex devices, achieving both film quality and high productivity

ALD – Key Solution to Achieve Conformal Deposition for Leading-Edge Devices

There Has Been a Demand Shift from CVD to ALD for Higher Film Quality, While ALD Has Productivity Issues

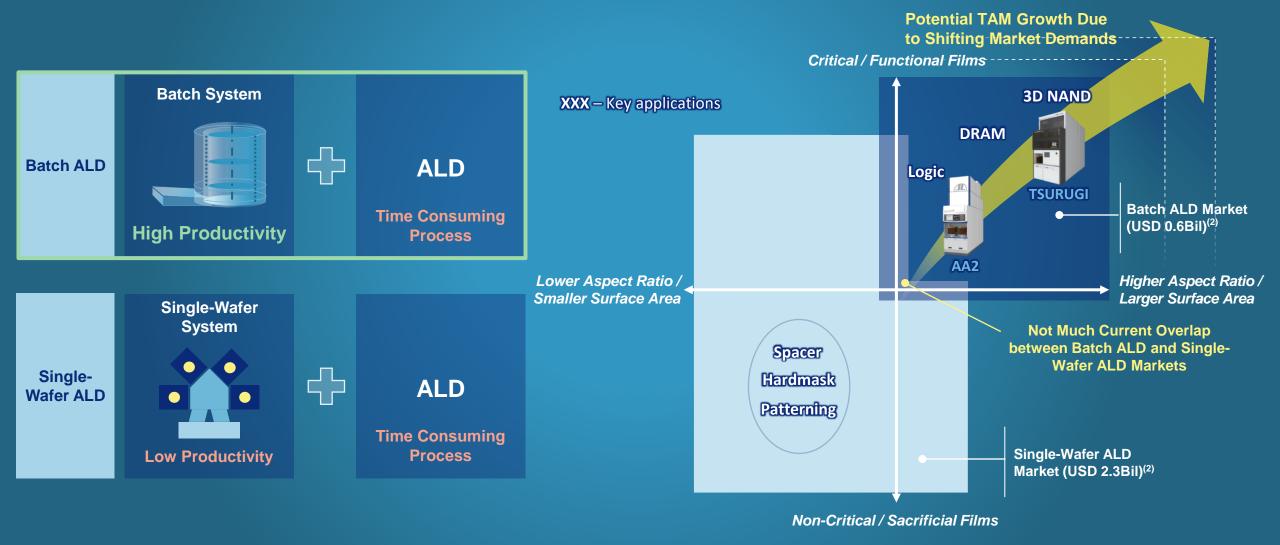


Comparison of Batch ALD Market and Single-Wafer ALD Market

ALD's Cyclic Process Requires Multiple Steps of Gas Supply and Exhaust, Causing Productivity Issues - Solved Well by Batch System

Batch is a Logical Combination with ALD – Complementary Relationship

Currently Not Much Overlap, While We Expect the Market Demands Shifting Towards Batch's Applications due to Device Complexity⁽¹⁾



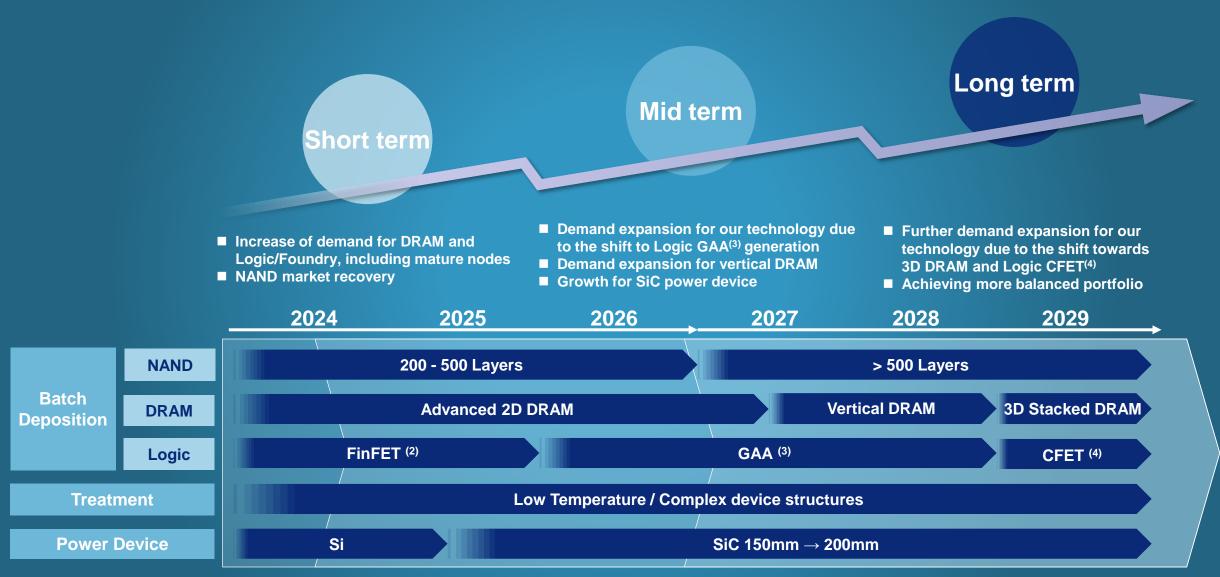
Notes:

[.] Company Information

Kokusai estimate based on public information and internal sales data

Near-Term and Mid-to-Long Term Catalysts⁽¹⁾ and Roadmap of KOKUSAI ELECTRIC

Memory to Keep Strong Position, Logic to Expand in GAA, and Additional Pillars such as Treatment and Power Device Tools

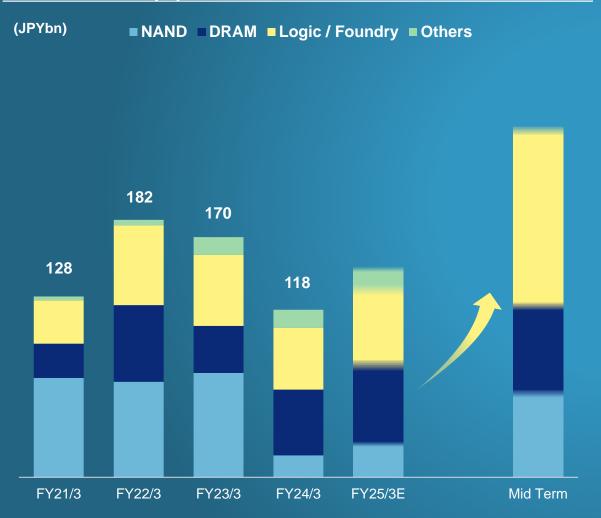


3. Gate All Around

Equipment Revenue Breakdown by Application

Expecting NAND Market Recovery and Aiming to Further Expand New PORs⁽¹⁾ in DRAM and Logic

Breakdown of Equipment Revenue



Overall

 Aiming for a well-balanced portfolio consisting of 50% Logic/Foundry and others, 25% DRAM, and 25% NAND in the mid-term

Logic/Foundry

- Aiming to expand our market share in GAA where we have acquired newly developed POR, and to further acquire new PORs in second-generation GAA
- · Also aiming to expand revenues globally for mature nodes

DRAM

- Acquired new POR with high-difficulty film deposition of cutting edge DRAM
- · Aiming for further new POR acquisition as TAM is expanding

NAND

- Already gained high market share in 3D NAND
- Expect market recovery and continuous growth with higher 3D stacking

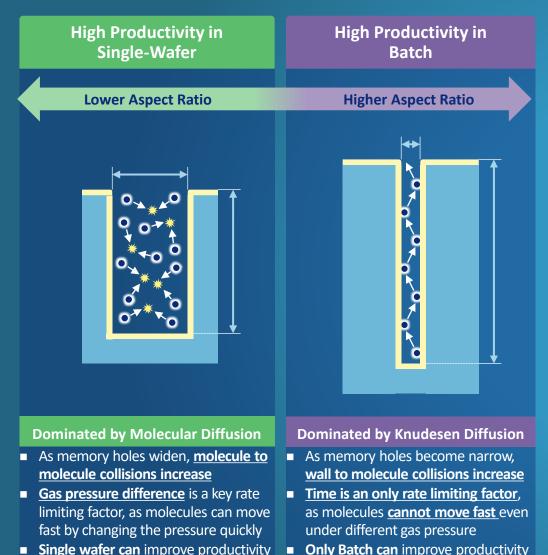


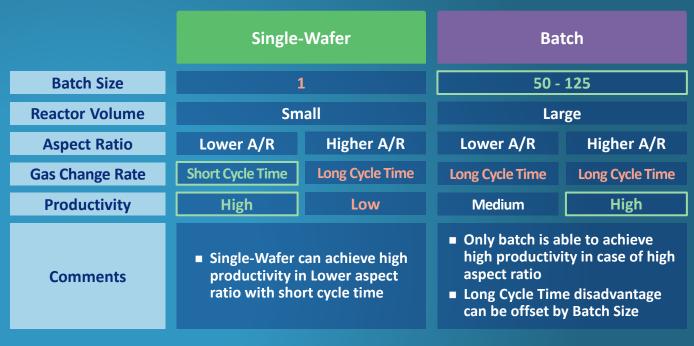
NAND

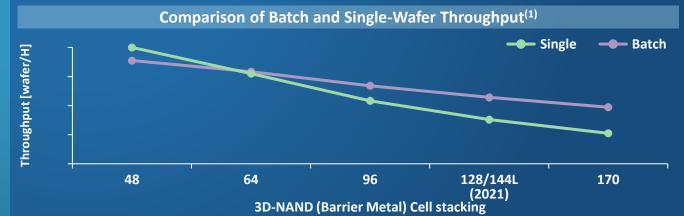
Shigeru Odake, Corporate VP
System Technology Development, Technical Support Center

Only Batch Can Achieve High Productivity in Case of High Aspect Ratio Deposition

Single-Wafer Could Achieve High Productivity in Lower Aspect Ratio with Short Cycle Time, While Low Productivity to High Aspect Ratio



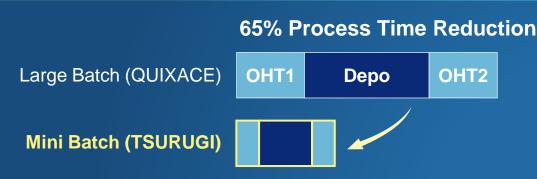




TSURUGI Enables Both Complex Structure Depositions and High Productivity

Optimum Design of Gas Inflow and Exhaust Control Provides the Best Solution to the Complex Structure

Improved Productivity by Reducing Process Time

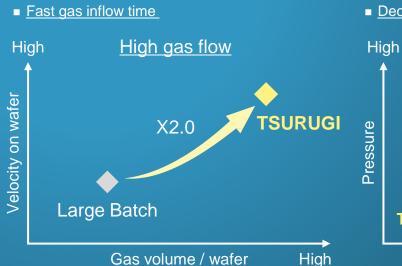


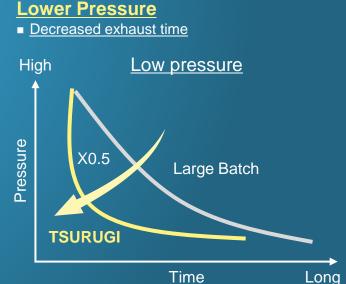
- 1 Overhead Time (OHT1&2)
 - Shorter heating and cooling time by reducing tube volume
- 2 Deposition (Depo)

Increase in Gas Flow

- Faster gas inflow and exhaust time by reducing tube volume
- Increase gas volume to minimize gas inflow time
- Shorter exhaust time by lowering pressure

Smaller Tube Volume ■ Temperature control: Reduction of heating and cooling time ■ Improve gas inflow and exhaust time Large Batch TSURUGI





Leading Positions in 3D NAND Memory CELL Applications

Further Expanding our Share through Active Evaluation in the Remaining Processes where Competitors had been Adopted



Motoo

^{1.} Company Information

^{2.} KE estimates

Channel Si has two processes



DRAM

Shigeru Odake, Corporate VP System Technology Development, Technical Support Center

Expanding New PORs in DRAM with an HBM Tailwind

DRAM Market Share Expected to Grow as Devices Evolve into the Next Generation



Structural Shift of DRAM towards Next Generations

The Same Structural Shift as 3D NAND Going to Happen in DRAM in 2 Steps – Vertical DRAM and 3D DRAM

<u>Advanced 2D DRAM</u> → <u>Vertical DRAM</u>

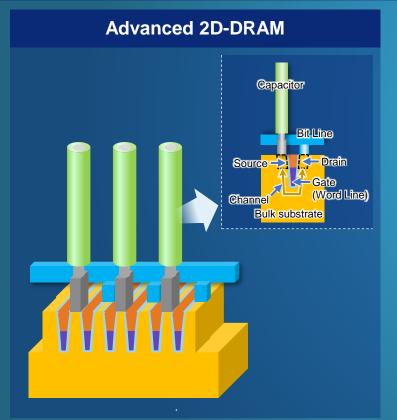
(Bit Line is placed directly under the channel)

- · New POR opportunity for Bit Line
- As die shrink progresses, the distance between Bit Line and Word Line becomes closer, increasing the need for stray capacity reduction and opportunity of using Low-k dielectric

Vertical DRAM → 3D-Stacked DRAM

(Channel direction is rotated by 90 degrees from Vertical DRAM)

- · Increase in Lateral Deposition
- · Increase in embedding processes
- Increasing Treatment demand with a need to supply sufficient radicals horizontally









Logic

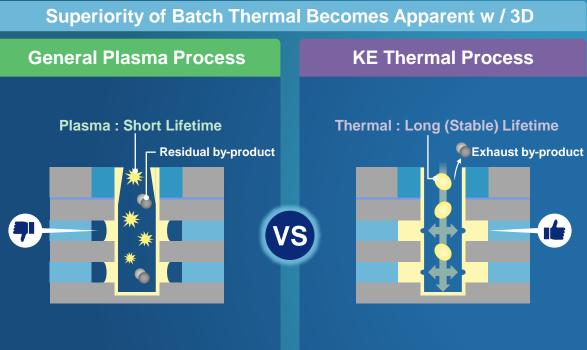
Kenji Kanayama, Senior VP Technology Management, Process Technology Development

Logic Applications in GAA / CFET Increases Lateral Film Deposition

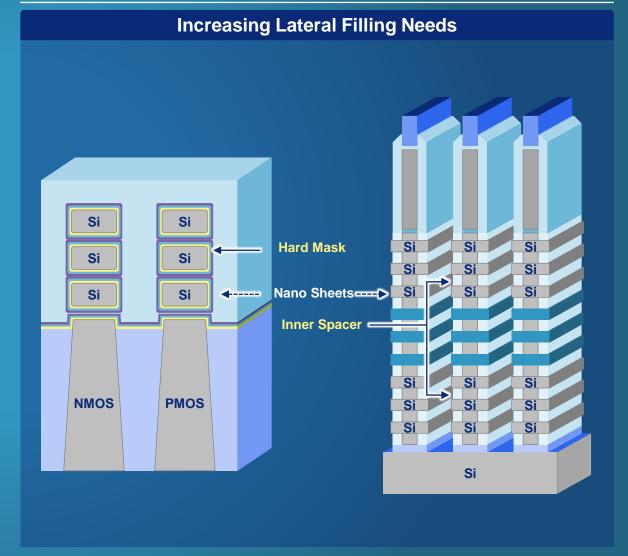
Proven Success of KE Batch Thermal System in Lateral Film Deposition and Further Growth Acceleration in Logic

Advantages against Plasma Process

Applications in GAA / CFET (1)

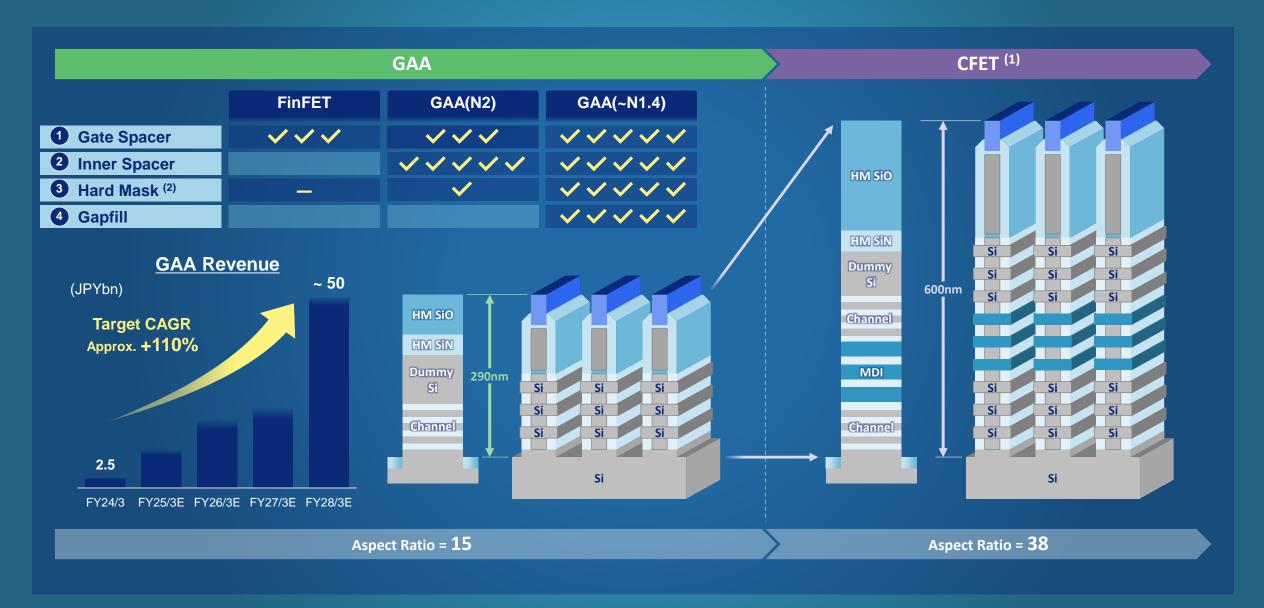


- In plasma, the lifetime is short, and radicals do not penetrate deeply, so film uniformity cannot be obtained
- In addition, by-products are generated when chemical reactions occur, and it does not take enough time to remove them in single-wafer process
- Thermal has a long lifetime and enables higher productivity and excellent film quality in high aspect ratio structures
- Compared to single-wafer, batch process could take a sufficient amount of time, allowing by-products to be exhausted



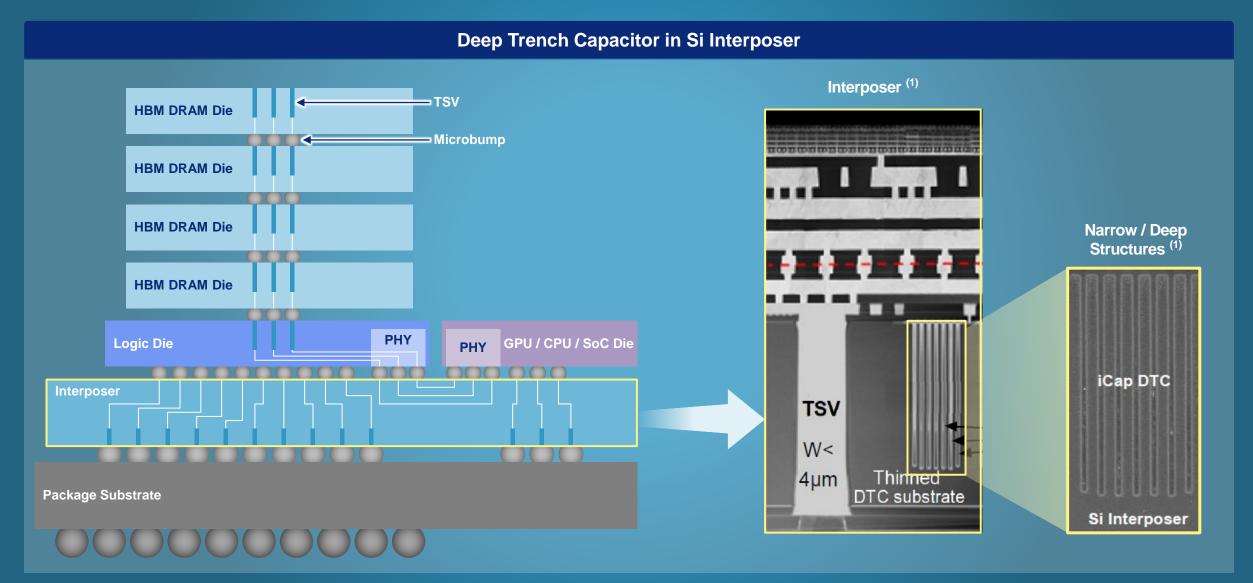
Strong Momentum in GAA, and Next Inflection Point towards CFET

Already Received PORs in GAA and Further Expanding PORs - CFET's 3D Structures would Require More Batch Processes



New Application in Silicon Interposer

On Top of Applications in Leading-edge DRAM and Logic, Our Batch ALD Application Has Expanded to Si Interposer



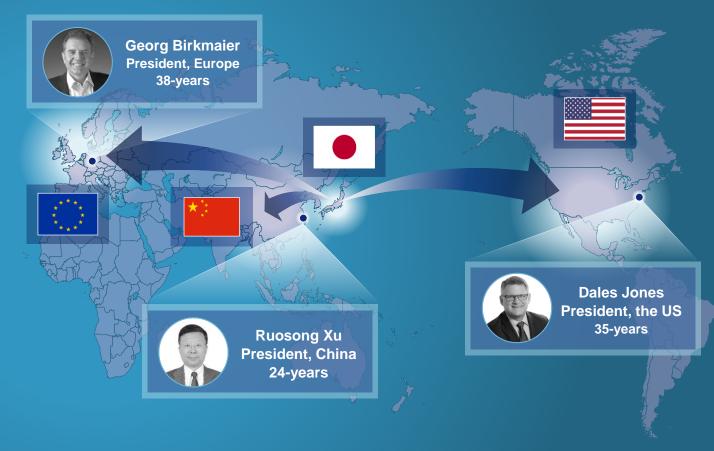
Expanding Mature Logic in Europe and the U.S.

Proven Success in China and Japan, Further Expanding into Europe and the U.S. to Achieve More Stable Revenue Base

Our Products for Mature Logic



Expanding Mature Logic in Asia, Europe, and the U.S.



Achieving More Stable Revenue Base Through Geographical Diversification,



Treatment

Kenji Kanayama, Senior VP Technology Management, Process Technology Development

MARORA's Advantages Aligned to Shifting Market Demand - Device Complexity and Lower Temperature

MARORA Has Been Adopted in 3D NAND and DRAM with Wide Process Temperature and Excellent Step Coverage

Single-wafer treatment MARORA®



Wide Temperature Range

Excellent Step Coverage in a Deep Hole

Demand for deposition in lowtemperature environment has increased due to <u>device</u> <u>complexity</u>

Increasing demand for treatment that improve film quality in low-temperature environments to improve the quality of existing films

2 <u>Degradation of film quality</u> in lowtemperature environments due to insufficient heat

In such an environment, MARORA has advantages in wide temperature range and excellent step coverage in high aspect ratio structures and is expanding PORs

Proven Success as a Solution for Maintaining Film Quality in Complex Device Structure

Already Strong Positions in NAND and DRAM, and Further Expanding across All Major Customers







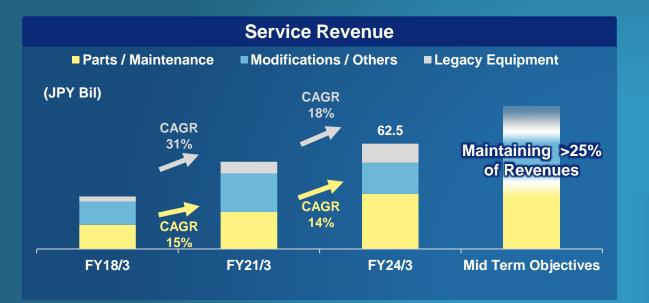


Service

Naotoshi Yamamine, Senior VP Services, Field Engineering, Group Governance

Expanding Service Business as a Source of Recurring, Stable and Higher-Margin Revenue

Achieved strong growth in Service revenue through resilience even in downcycles





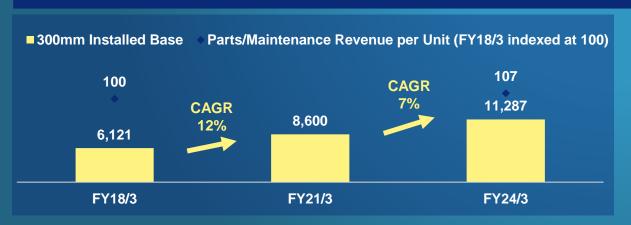
- Conduct a "Design for service business(1)" to increase revenue
- Lock-in key customers' spare parts and service contracts in an early stage of product release
- Expand 200mm business with Brand-New Platform
- Modification of old equipment to maximize life-time value

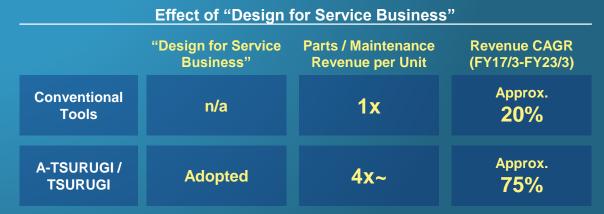
Growth Strategy of Parts/Maintenance Revenue

Increase Install Base by Expanding Equipment Sales



Increase Sales per Unit by "Design for Service Business"

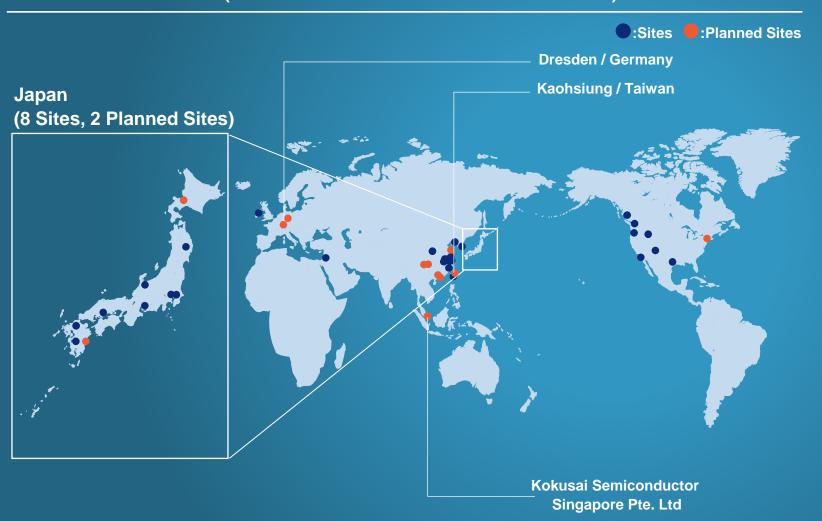




Expansion of Service Business Foundation

Establishing new sites in Dresden and Kaohsiung and a subsidiary in Singapore

Global Service Network (35 Sites & 11 Planned Sites in 10 Countries) (1)



Strategy of New Service Network



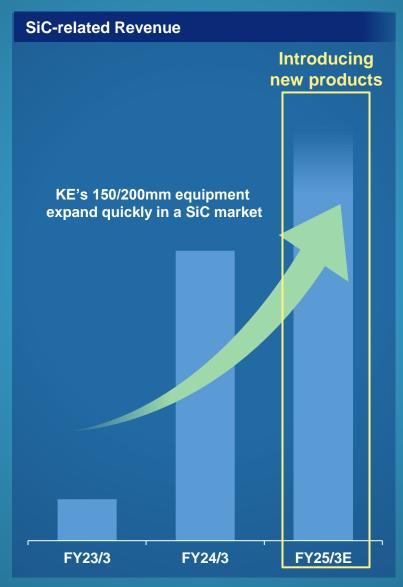


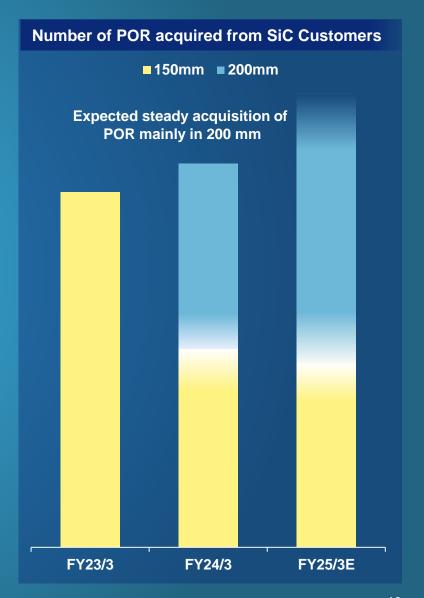
 Expanding business in Southeast Asia, including Singapore and Malaysia, as well as South Asia, such as India, and strengthening the service support system

SiC Power Devices: Strong Revenue Growth Boosted by Market Expansion

Aiming for steady POR acquisitions mainly for 200mm equipment





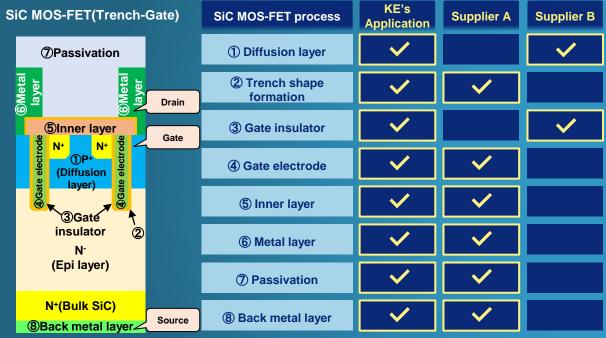


Strengths of KE's Equipment for SiC Power Devices

Customers value KE's new products for SiC power devices as well as contribution to improved productivity, leading to POR acquisitions

Contribution to Productivity Improvement

Vertical Batch Common platform for various thermal processes



VERTRON® Revolution

- Standardization of user interface across common platform
- Consistency in maintenance work
- Inventory cost optimization through standardization of spare parts
- Reduction in scrap costs of expensive SiC wafers with WPS(Wafer Protection System)

Thermal Solutions for SiC Power Devices

High Temp Activation Anneal ~ 2.000C

- High productivity with processing
- Induction heating significantly improves power consumption
- Temperature control and measurement inside the reactor tube
- Reliability (VERTRON® Revolution Platform)

High Temp Oxy-Nitride Anneal ~ 1.400C

- High productivity with processing
- Long-lasting heater system
- Excellent film thickness uniformity and low contamination
- Reliability (VERTRON[®] Revolution Platform)

Maintenance Solutions

Long PM Poly Si

- Extend PM(Preventive Maintenance) cycle for Poly Si
- Improve equipment uptime and reduction in PM costs



New Deposition Solutions

ALD-SiO

- Technology used as the gate oxide film for the next generation
- Leveraging our expertise in ALD technology to acquire POR moving forward



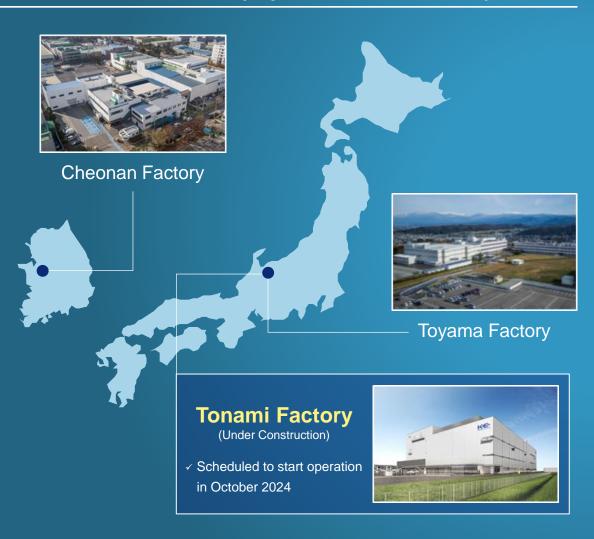
Global Operation

Masayuki Yamada, Senior VP Head of Global Supply Chain, Quality Assurance, Site Operations

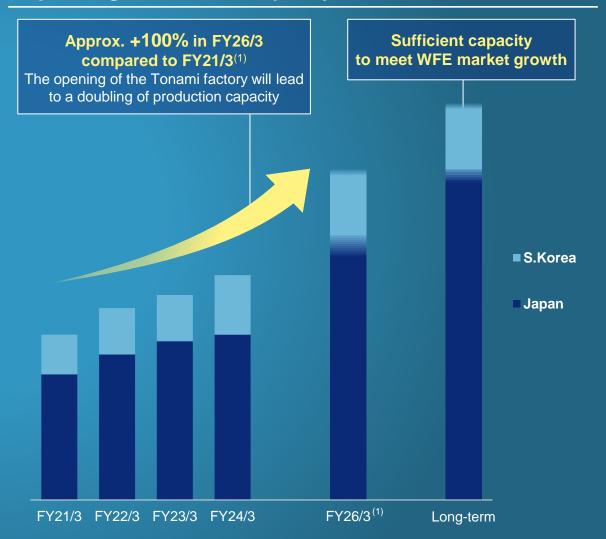
Global Production Sites and Capacity

The New Factory is Expected to Start Operating this Fall, Significantly Increasing Production Capacity

Global Production Sites (Japan and South Korea)



Expanding Production Capacity



Overview and Concept of the New Factory (Tonami)

In the New Factory, We Aim for More than Twice the Traditional Production Efficiency through Smart Transformation (SX)(1)

New Factory Overview⁽²⁾



Name	Tonami Factory (Provisional)			
Address	Shimonakajou, Tonami City, Toyama Prefecture			
Site Area	Approx. 40,000 square meters			
Construction Cost	Approx. JPY 24bn			
Use / Purpose	Manufacturing and R&D of semiconductor manufacturing equipment			

Tonami Factory – SFX 200⁽³⁾ Concept



- 1. Transformation activities towards smart production and management utilizing cutting-edge technology and data from IoT, IT, and digitalization
- 2. CG (computer graphics) image as picture
- 3. Project name refers to concept of increasing production capacity by 200% through Smart Factory Transformation 4. Production efficiency refers to production capacity per certain unit of equipment installation area. Production efficiency in Toyama factory in FY21/3 serves as benchmark

Tonami Factory Concept – Production Efficiency Goals through SX

Space-saving in Production Area and Higher Turnover Rate will Drive Efficiency Improvements



Production Efficiency Goals





Previous Area

Smaller Area



(2) Improvement in Production Turnover Rate
Measures: Reduction in Production Lead Time through
Production Process SX and Material Handling SX

Previous Turnover Rate











✓ <u>Maximized</u> <u>productivity per</u> <u>unit time</u>

Space-saving

Improvement in Turnover Rate through SX

"Smartification through IT / IoT / digitalization / data utilization / automation"

Production Process SX

Production Planning and Management



Engineering Skill Support



Document and Data Management





Material Handling SX

On-site Storage and Logistics System





Process Synchronization Distribution Management





Operations of a High-Performance Large-Scale Warehouse







Tonami Factory Concept – Renewable Energy and BCP System

System that Utilizes Renewable Energy and Enables Business Continuity in Emergencies



Renewable Energy System BCP Equipped System

100% Renewable Energy System



Realization of a facility that fully utilizes renewable energy sources and smart management

- 1. Solar power generation system that can operate the entire factory
- 2. Efficient operation of electricity through EMS implementation
- 3. Efficient operation of lighting and air conditioning using cameras and sensors
- 4. Smartification of remote monitoring and maintenance of equipment
- 5. Smartification of equipment failure diagnosis

Fully Equipped BCP System

Earthquake countermeasures



Vibration suppression through the installation of seismic isolation mechanisms



Securing power and energy through solar panels + battery

storage facilities

Power outage

countermeasures



Flood countermeasures



BCP-F
Business Continuity
Plan-Factory



Water circulation



Reuse and recycling

Strategy for Procurement Expansion

Multifaceted Expansion of Procurement Capabilities that Can Meet the WFE Market Trends Flexibly

Robust Procurement Framework

"Cube" Procurement Strategy

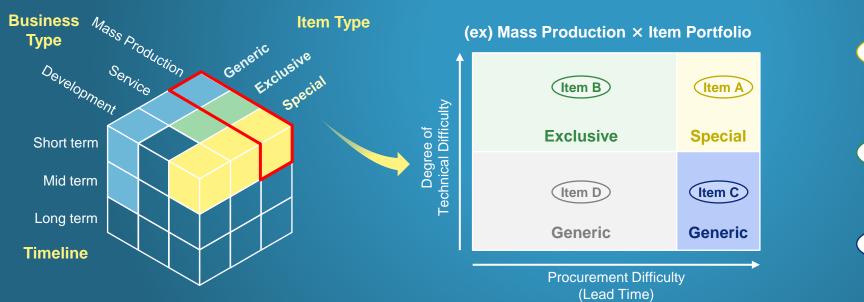
■ Three-dimensional strategies for procurement items and businesses to meet the WFE market trend in each timeline

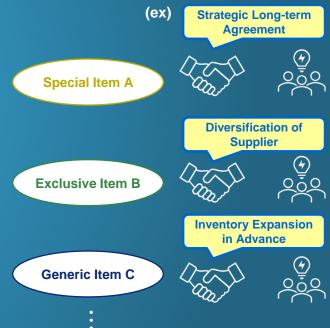
Portfolio Management

 Conducting portfolio analysis based on the technical and procurement difficulty of each item by business

Partnering Measure

 Develop partnering strategies with suppliers to adapt to market changes







Achieve Expansion of Capacity, Stable Procurement and Cost Competitiveness, towards Building Robust Procurement System

Promotion of Sustainability in Supply Chain

Sharing our Philosophy and Compliance with Global Standards, Collaboration in Labor, Safety, Environment, Quality, Compliance, and **BCP**

KOKUSAI ELECTRIC Way

Basic Policy for Material Procurement

Business Partner Code of Conduct Green Procurement Guideline Declaration of Partnership Building

Partner Web System (KE Original)

Supplier Engagement **Sustainable Collaboration**



Basic Policy for Material Procurement

Established Basic Policy for Material Procurement and code of conduct to ensure compliance, achieving sustainable procurement practices in collaboration with our business partners

- Compliance with laws and regulations and social norms
- Prioritization of the environment
- **Partnerships**
- **Open door**
- Responsible minerals procurement
- Provision of information and maintaining of confidentiality

Strong Sustainable Partnership

Share timely updates on short- to medium-term business strategies, market trends, procurement, production, quality, and CSR information to establish collaborative "Win-Win" initiatives

Once a year

Partners Day New Year Reception

Quarterly

Business Partner Meeting

Monthly

6-Month Outlook Meeting

Obtained Platinum Status VAP⁽¹⁾ Audits by RBA⁽²⁾



- ✓ Our Toyama Factory has achieved RBA Platinum Status (full score) in May 2024
- Recognized the compliance with RBA Code of Conduct for labor, health and safety, environmental, ethics, and management systems

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Financial

Yoshitaka Kawakami, Senior VP Finance & Accounting

Financial Model – Mid-Term Objectives⁽¹⁾

Targeting Higher Revenue and Margins, while generating ROE and ROIC that exceed WACC (approximately 9-10% in FY2024/3) through Excellent Capital Efficiency

FY2024/3	Mid-Term Objectives	
\$100 Bil (CY2023) ⁽²⁾	> \$120 Bil	
JPY 181 Bil	> JPY 330 Bil	
65%	~ 75%	
35%	> 25%	
20.9%	> 30%	
7.0%	> 6%	
15.7%	> 25%	
10.1%	> 23 %	
	\$100 Bil (CY2023) ⁽²⁾ JPY 181 Bil 65% 35% 20.9% 7.0% 15.7%	

forward-looking information

^{1.} Regarding the Mid-Term Objectives, the landing prospects for the Mid-to-Long Term Objectives at the current point in time are described based on the current environment and progress

^{3.} Adjusted Operating Profit is calculated as operating profit – other income + other expenses + purchase price allocation amortization + stand-alone related expenses + stock-based compensation (except for performance-linked stock compensation). Adjusted Operating Profit Margin is calculated as Adjusted Operating Profit / Revenue

^{4.} The forward-looking statements included above are based on the current assumptions and beliefs of KE in light of the information currently available to it and involve known and unknown risks, uncertainties and other factors. Such risks, uncertainties and other factors may cause KE's actual results, performance, achievements or financial position to be materially different from any future results, performance, achievements or financial position expressed or implied by such

Disciplined Capital Deployment Plans

Capex, While Achieving Strong Returns to Shareholders

Stable Annual Capex Once One-time Growth Capex Completed

- Annual Capex of approx. JPY 4-6bn to keep expanding manufacturing and developing capacity to enable steady growth and efficiency, increase from a historical JPY 2-3bn level
- Completing one-time Capex for a new factory in Toyama, Japan and a demo room in S. Korea in FY25/3

Selective M&A in Adjacent Technologies

■ Pursue M&A in adjacent areas with unique technologies, as well as key materials / components, but only selectively where strong synergy can be achieved

Strong Return to Shareholders

- 20-30% Dividend Pay-out, on par with international and domestic comps
- Once net cash⁽¹⁾ becomes positive, aim to use an amount equivalent to <u>approx. 70% of Free Cash Flow</u> <u>after the redemption of interest-bearing debt⁽²⁾</u> towards <u>flexible share repurchases</u> and dividends
- The total payout ratio combining dividends and share buybacks is expected to be <u>approximately 50%</u> around the end of mid-term objectives

Note

^{1.} Net cash = Cash and Cash Equivalents - interest-bearing debt

^{2.} Defined as the sum of net cash from operating activities and net cash from (used in) investing activities, minus redemption of interest-bearing debt

^{3.} The forward-looking statements included above are based on the current assumptions and beliefs of KE in light of the information currently available to it and involve known and unknown risks, uncertainties and other factors. Such risks, uncertainties and other factors may cause KE's actual results, performance, achievements or financial position to be materially different from any future results, performance, achievements or financial position expressed or implied by such forward-looking information

New Orders, Backlog and Revenues Trend

Strong Recovery of New Orders and Revenue Has Been Confirmed, with Backlog Turning into Sales

Half-yearly New Orders Trend

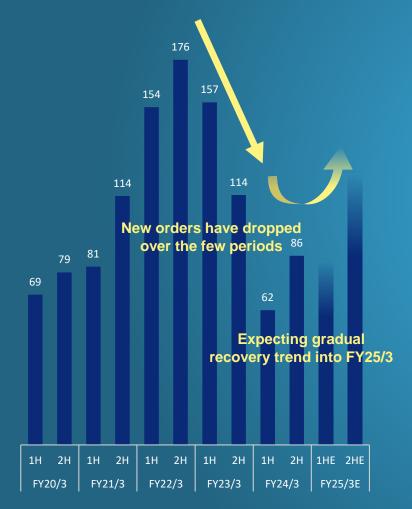
JPY Bil (aggregate value at end of half year)

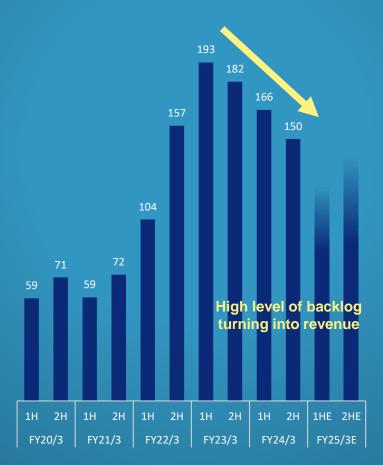
Half-yearly Backlog Trend

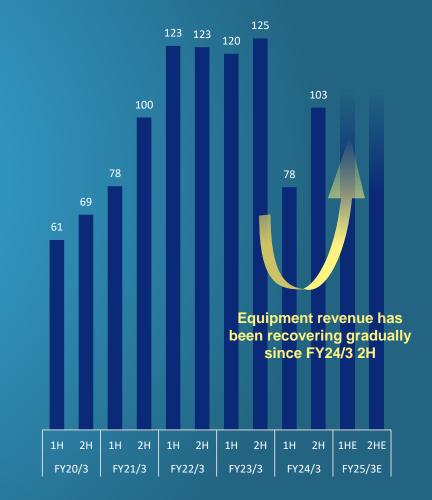
JPY Bil (aggregate value at end of half year)

Half-yearly Revenue Trend

JPY Bil (value at end of half year)







Note:

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Selected Consolidated Statements of Profit or Loss Data

(JPY Mil)	FY23/3	FY24/3
Revenues	245,721	180,838
% YoY	0.1%	(26.4)%
Cost of Sales	(144,916)	(105,873)
Gross Profit	100,805	74,965
% Margin	41.0%	41.5%
Selling, General and Administrative Expenses	(43,449)	(44,412)
Other Income	270	679
Other Expenses	(1,562)	(487)
Operating Profit	56,064	30,745
% Margin	22.8%	17.0%
Financial Income	909	339
Financial Expenses	(1,078)	(1,327)
Pre-tax Income	55,895	29,757
Income Tax Expenses	(15,590)	(7,383)
Net Income	40,305	22,374
% Margin	16.4%	12.4%

Reconciliation of Adjusted Operating Profit / Adjusted EBITDA

(JPY Mil)	FY23/3	FY24/3
Operating Profit	56,064	30,745
% Margin	22.8%	17.0%
Other Income (1)	(270)	(679)
Other Expenses (1)	1,562	487
PPA Amortization (2)	6,369	6,369
Stand-alone Related Expenses (3)	353	223
Stock Based Compensation	173	694
Total Adjustments	6,895	7,286
Adjusted Operating Profit	64,251	37,839
% Margin	26.1%	20.9%
Depreciation & Amortization (4)	3,934	4,576
Adjusted EBITDA	68,185	42,415
% Margin	27.7%	23.5%

Notes:

KOKUSAI ELECTRIC CORPORATION and its Affiliates Proprietary

^{1.} Other income and other expenses from our statement of profit or loss, which are one-time and temporary items

^{2.} Amortization of purchase price allocation asset which was recognized in connection with former Hitachi Kokusai Electric Inc.'s divestiture of its thin-film process solutions business to HKE Holdings Co., Ltd

Includes restructuring expenses
 Excludes PPA Amortization

Reconciliation of Adjusted Net Income

(JPY Mil)	FY23/3	FY24/3
Net income	40,305	22,374
% Margin	16.4%	12.4%
Other Income (1)	(270)	(679)
Other Expenses (1)	1,562	487
PPA Amortization (2)	6,369	6,369
Stand-alone Related Expenses (3)	353	223
Stock Based Compensation	173	694
Total Adjustments	6,895	7,286
Tax Adjustment to Total Adjustments (4)	(2,507)	(2,172)
Adjusted Net Income	45,985	27,296
% Margin	18.7%	15.1%

^{1.} Other income and other expenses from our statement of profit or loss, which are one-time and temporary items

Amortization of purchase price allocation asset which was recognized in connection with former Hitachi Kokusai Electric Inc.'s divestiture of its thin-film process solutions business to HKE Holdings Co., Ltd.
 Includes restructuring expenses

^{4.} Tax Adjustment calculated by multiplying tax rate to taxable items in adjustment items

Selected Consolidated Statements of Financial Position Data

(JPY Mil)	FY23/3	FY24/3		FY23/3	FY24/3
Assets			Liabilities and Equity		
Cash and Cash Equivalents	106,053	92,619	Loans Payable	6,000	7,500
Trade and Other Receivables	50,617	31,994	Lease Obligations	596	519
Inventories	67,197	87,682	Trade and Other Payables	41,790	36,667
Other Current Assets	2,053	2,619	Accrued Expenses	11,036	10,179
			Other Current Liabilities	42,031	32,678
Total Current Assets	225,920	214,914	Total Current Liabilities	101,453	87,543
Property, Plant and Equipment	18,775	35,382	Loans Payable	91,500	84,000
Right-of-use Assets	1,718	1,543	Lease Obligations	1,110	999
Goodwill	59,065	59,065	Retirement and Severance Benefits	3,032	3,153
Intangible Assets	62,968	56,995	Provisions	95	132
Other Financial Assets	1,564	1,652	Deferred Tax Liabilities	15,396	12,138
Deferred Tax Assets	943	1,403	Other Non-current Liabilities	72	80
Other Non-current Assets	2,586	4,479	Total Non-current Liabilities	111,205	100,502
			Total Liabilities	212,658	188,045
			Common Stock and Capital Surplus	38,346	38,880
			Retained Earnings	119,783	142,448
			Others	2,752	6,060
Total Non-current Assets	147,619	160,519	Total Equity	160,881	187,388
Total Assets	373,539	375,433	Total Liabilities and Equity	373,539	375,433

KOKUSAI ELECTRIC