Technology & Tai-wa for Tomorrow



## **Investor Day 2024**

SECTION 1 June 18, 2024

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## Today's Agenda

Part 1	9:00 🔿	Industry Update from Applied Materials – Mr. Terrance Lee, Corporate VP, Applied Materials
	9:20 🔘	Overview of Kokusai Electric – Fumiyuki Kanai, Representative Director, President and CEO
	9:30 🔘	Q&A
	9:50 🔘	Break
Part 2	10:00 🔘	Management Strategies (Market and Growth Outlook) – Kazunori Tsukada, Executive VP
	10:10 🔘	Equipment (NAND · DRAM) – Shigeru Odake, Corporate VP
	10:20 🔘	Equipment (Logic • Mature Logic • Treatment) – Kenji Kanayama, Senior VP
	10:30 🔘	Service – Naotoshi Yamamine, Senior VP
	10:40 〇	Global Operation – Masayuki Yamada, Senior VP
	10:50 🔘	Financial – Yoshitaka Kawakami, Senior VP
	11:00 〇	Q&A

### **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

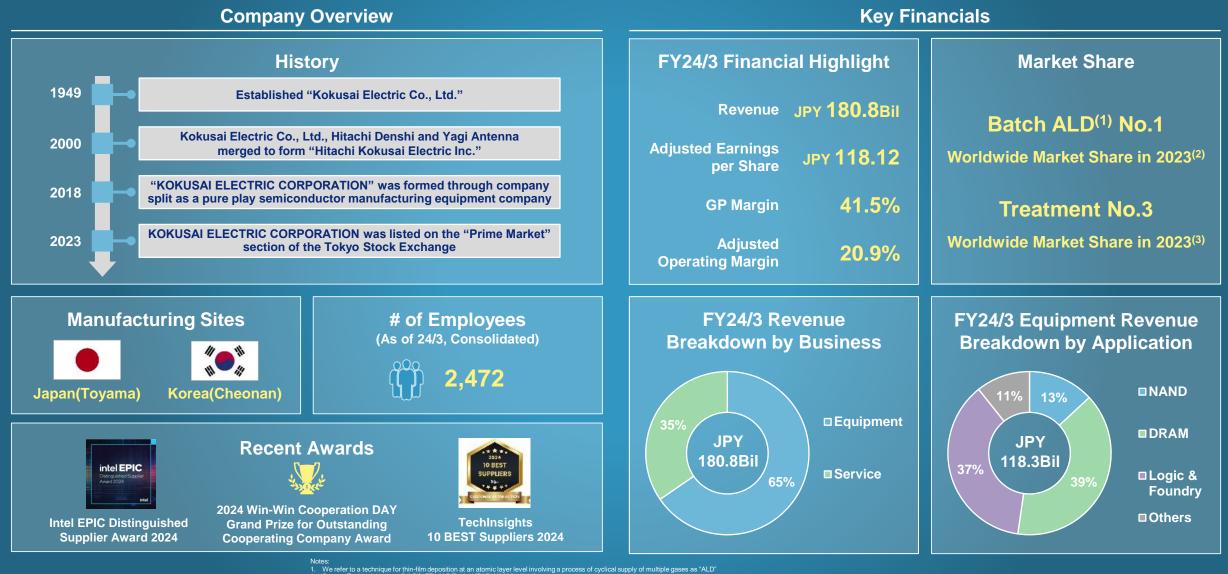
#### **Executive Officers**



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## **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



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## **Management Policy**

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

#### **KOKUSAI ELECTRIC Way**

**Sustainability Management** 

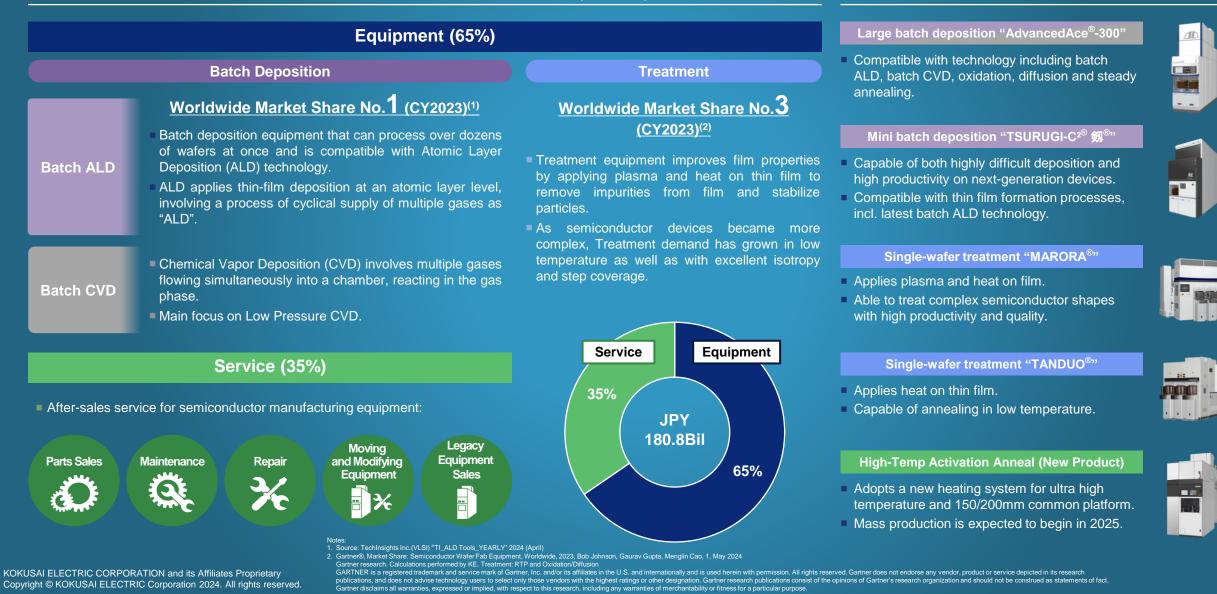


## **Our Business and Major Products**

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

**Major Products** 

#### Business Profile and Revenue Breakdown (FY24/3)

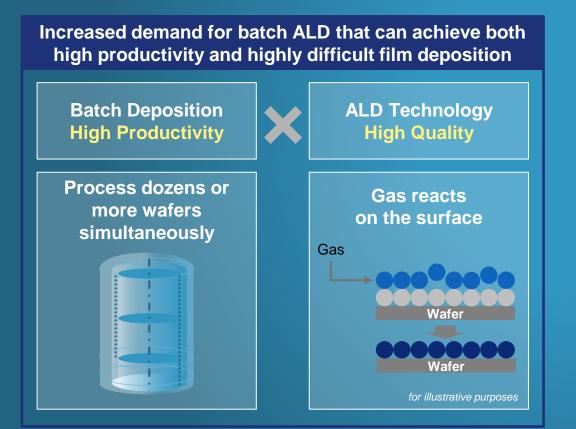


## **Our Technological Strength**

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

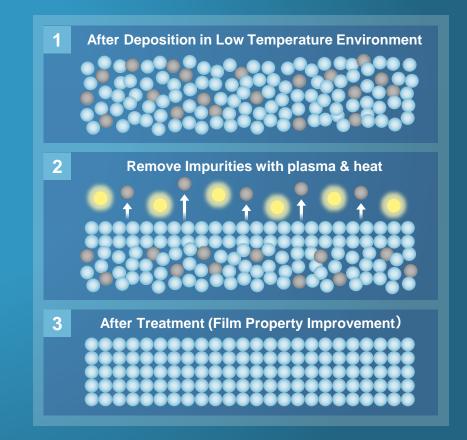
#### **Batch ALD Technology**

- 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



#### **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





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





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**

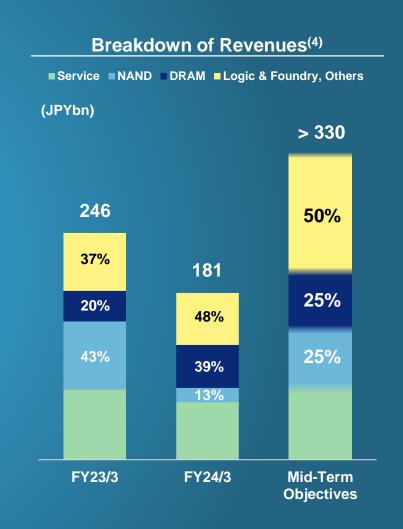
Clear Growth Drivers across Device Types, Contributing to Higher and More Stable Growth and Profitability



## Mid-Term Objectives<sup>(1)</sup> - 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) <sup>(2)</sup>	<b>\$100 Bil</b> (CY2023) <sup>(2)</sup>	> \$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 <sup>(3)</sup>	26.1%	20.9%	> 30%
R&D (% Revenue)	5.1%	7.0%	> 6%



#### Notes:

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 2. KE estimates

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. Percentage of equipment 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 by such forward-looking information

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## **Investor Day 2024**

SECTION 2 June 18, 2024

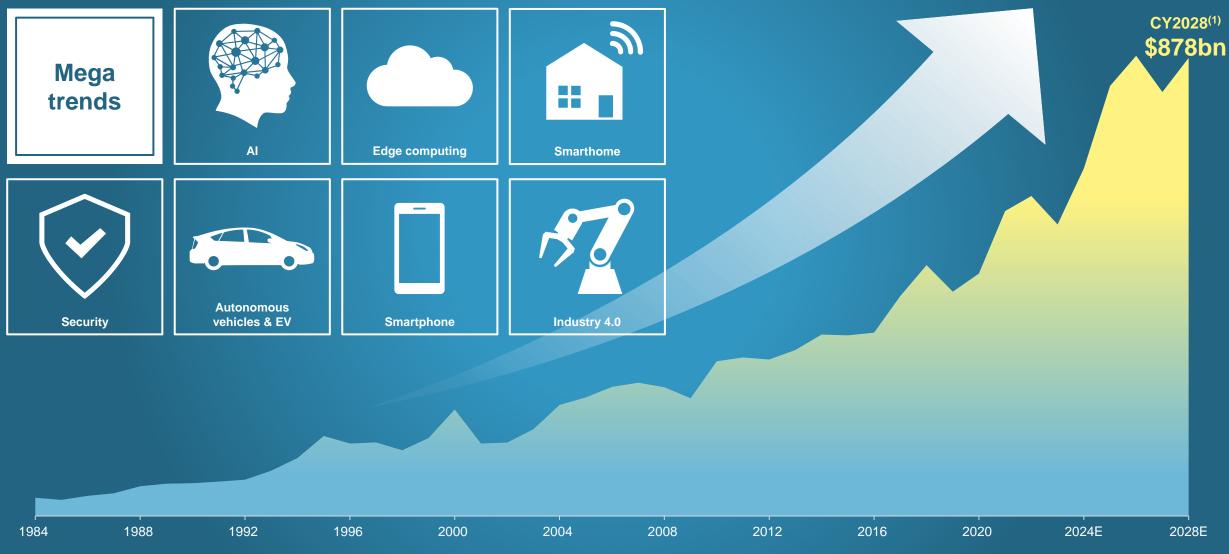


## **Market and Growth Outlook**

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

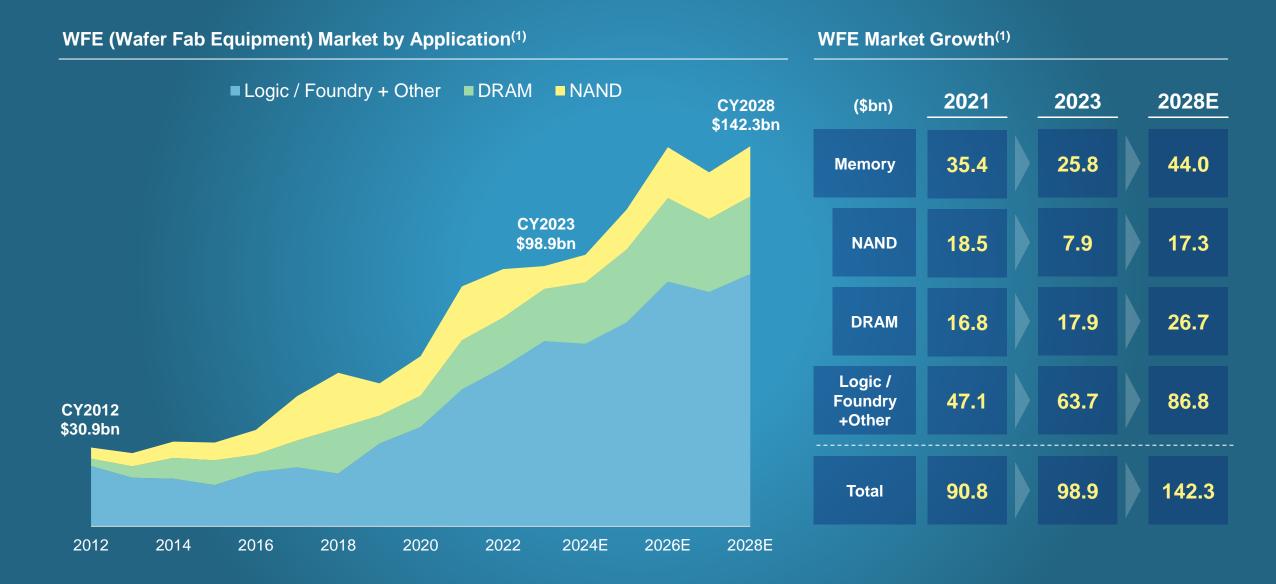


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1. TechInsights Inc. (VLSI) "WORLDWIDE SEMICONDUCTOR HISTORY AND FORECAST" 2024 (March)

## **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

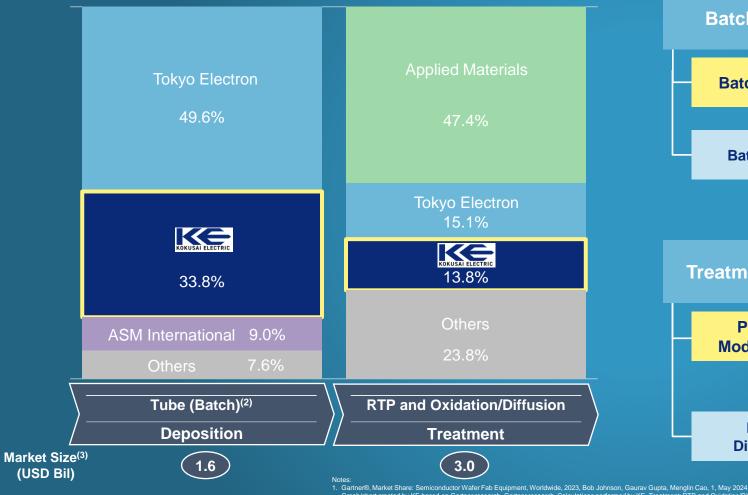


Note: 1. TechInsights Inc. (VLSI) "Wafer Fab Equipment Sales by Application" 2024 (March)

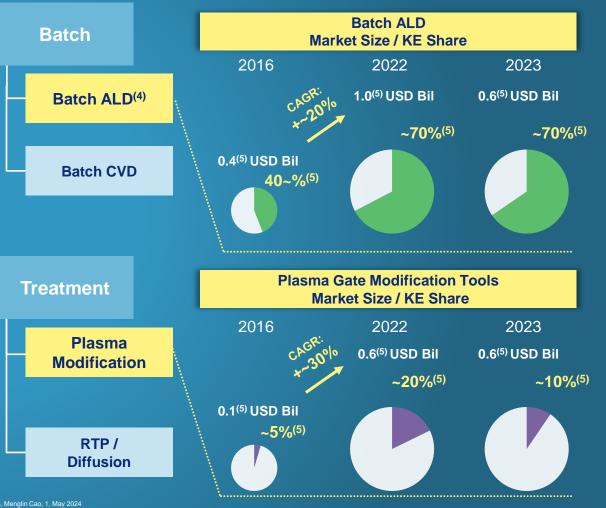
## **Specialty Position in Batch Deposition / Treatment Market**

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<sup>(1)</sup>



**Breakdown of Batch and Treatment Market** 



Graph/chart created by KE based on Gartner research, Gartner research, Calculations performed by KE. Treatment: RTP and Oxidation/Diffusion

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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)

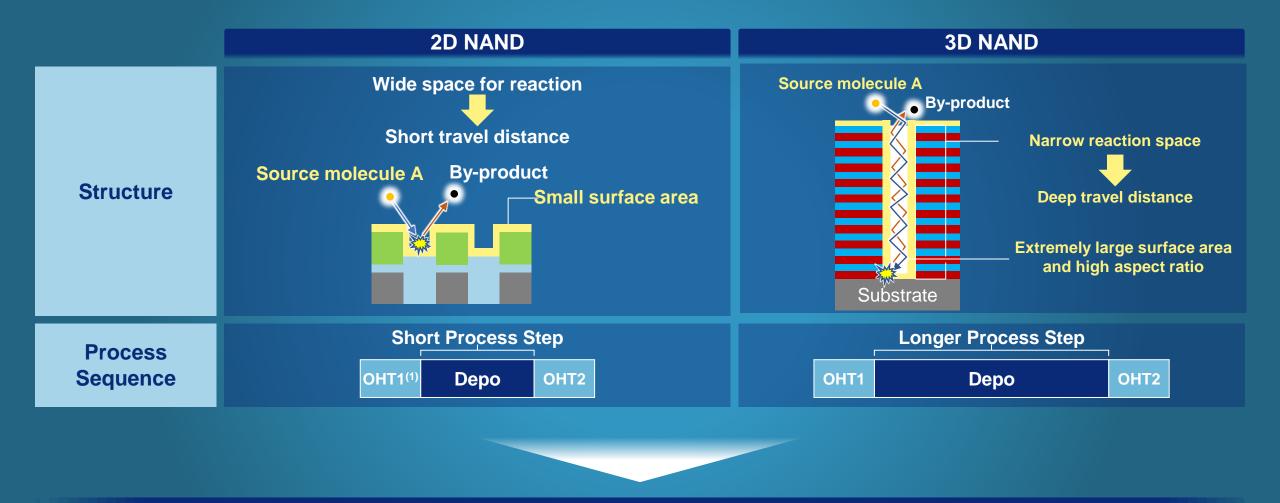
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 Total market in each of Gartner's category
 We refer to a technique for thin-film deposition at an atomic layer level involving a process of cyclical supply of multiple gases as "ALD" 5. Kokusai estimate based on public information and internal sales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

## 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

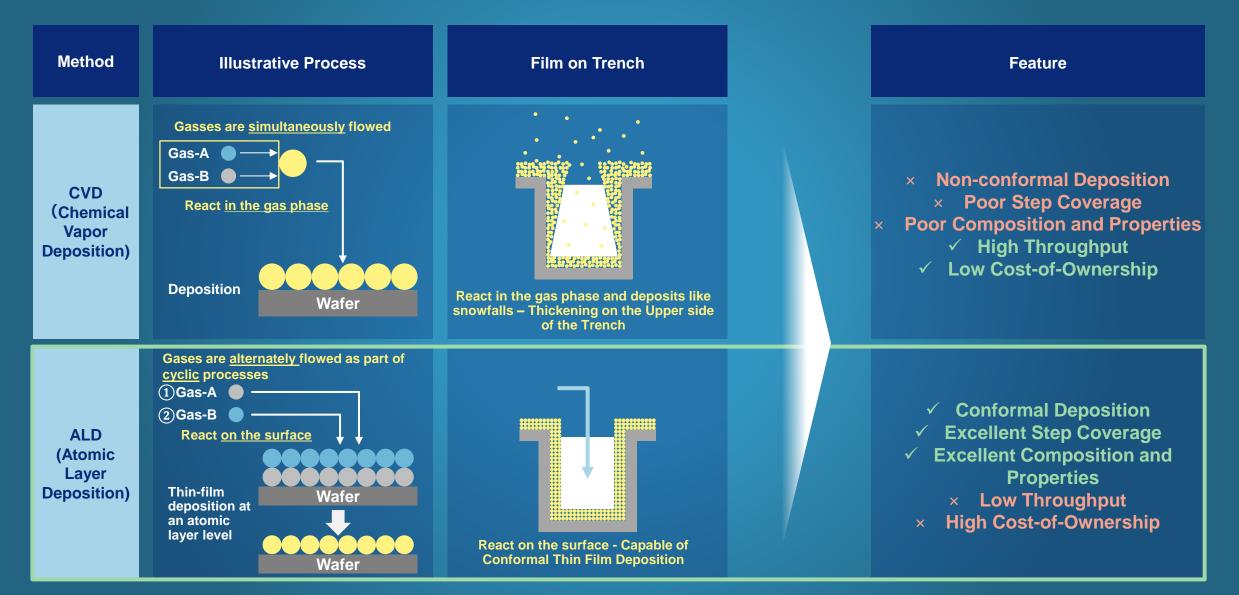


Due to the shift of Device Structures from 2D to 3D, the productivity of the Deposition has become a severe challenge

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

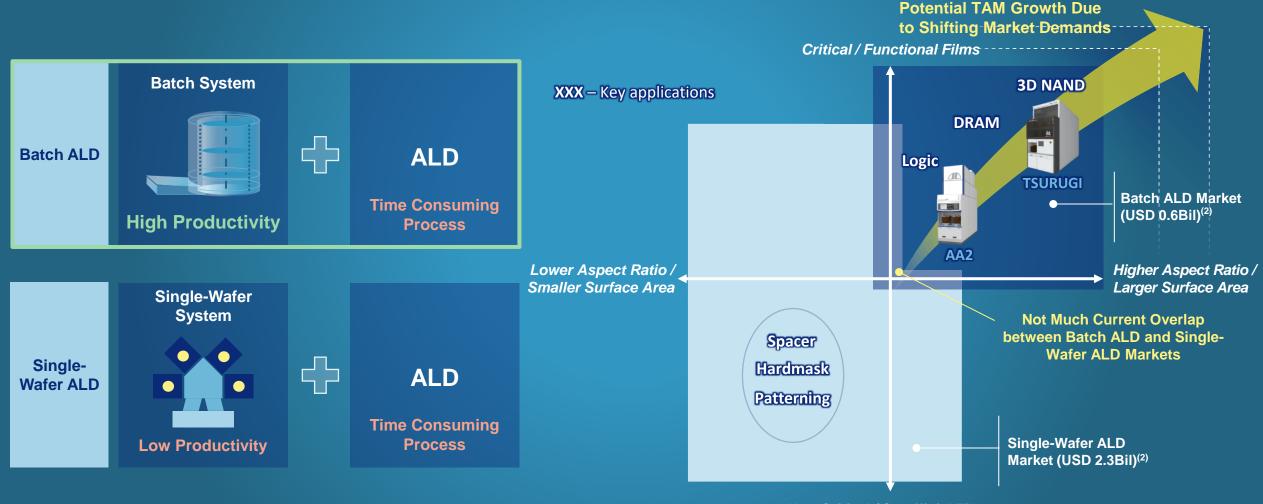


## **Comparison of Batch ALD Market and Single-Wafer ALD Market**

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<sup>(1)</sup>



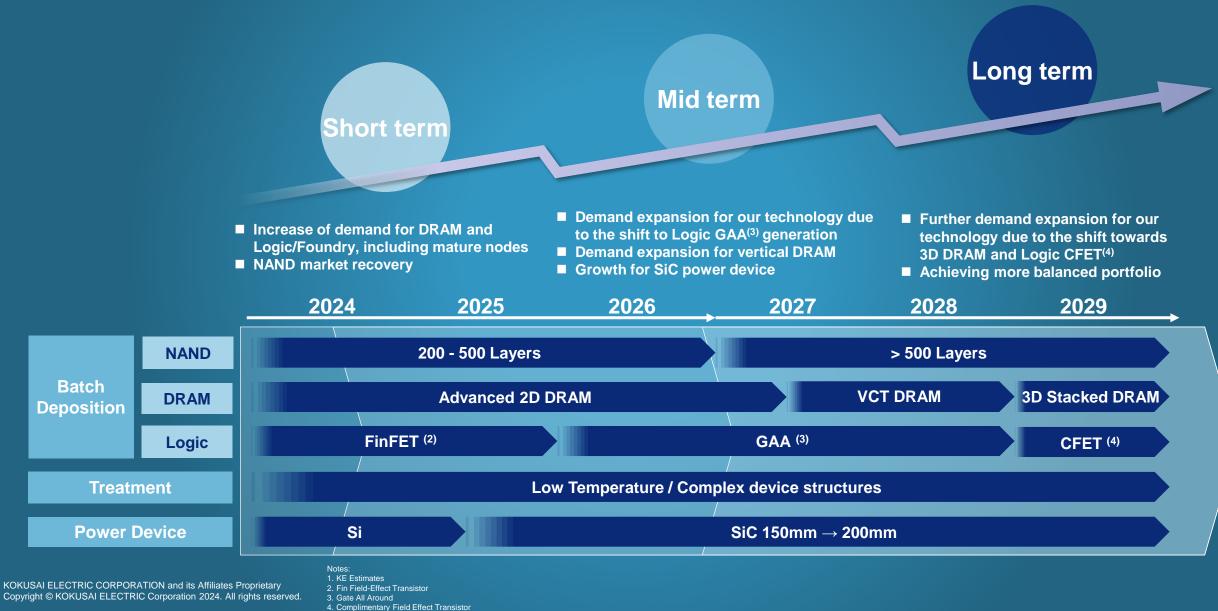
Non-Critical / Sacrificial Films

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Notes: 1. Company Information 2. Kokusai estimate based on public information and internal sales data

## Near-Term and Mid-to-Long Term Catalysts<sup>(1)</sup> and Roadmap of KOKUSAI ELECTRIC

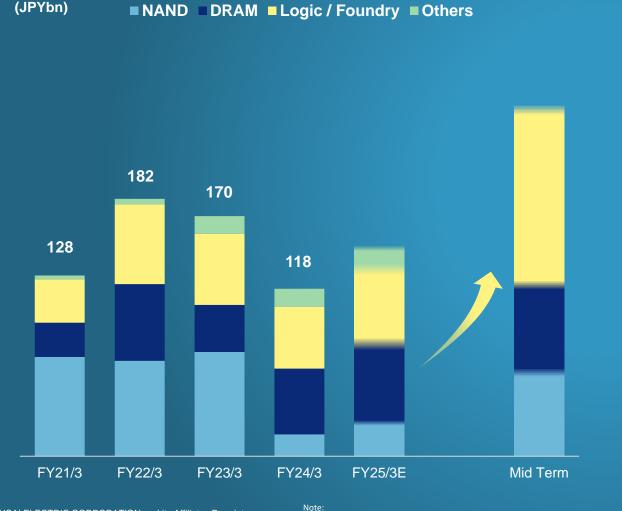
Memory to Keep Strong Position, Logic to Expand in GAA, and Additional Pillars such as Treatment and Power Device Tools



## **Equipment Revenue Breakdown by Application**

Expecting NAND Market Recovery and Aiming to Further Expand New PORs<sup>(1)</sup> 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

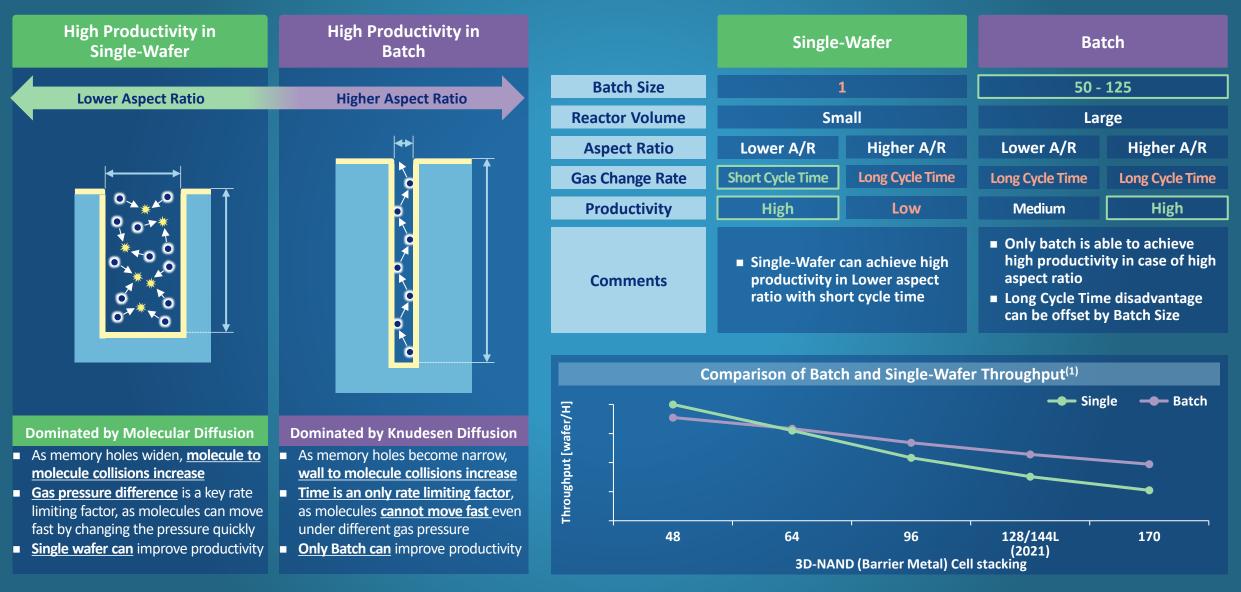


## NAND

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

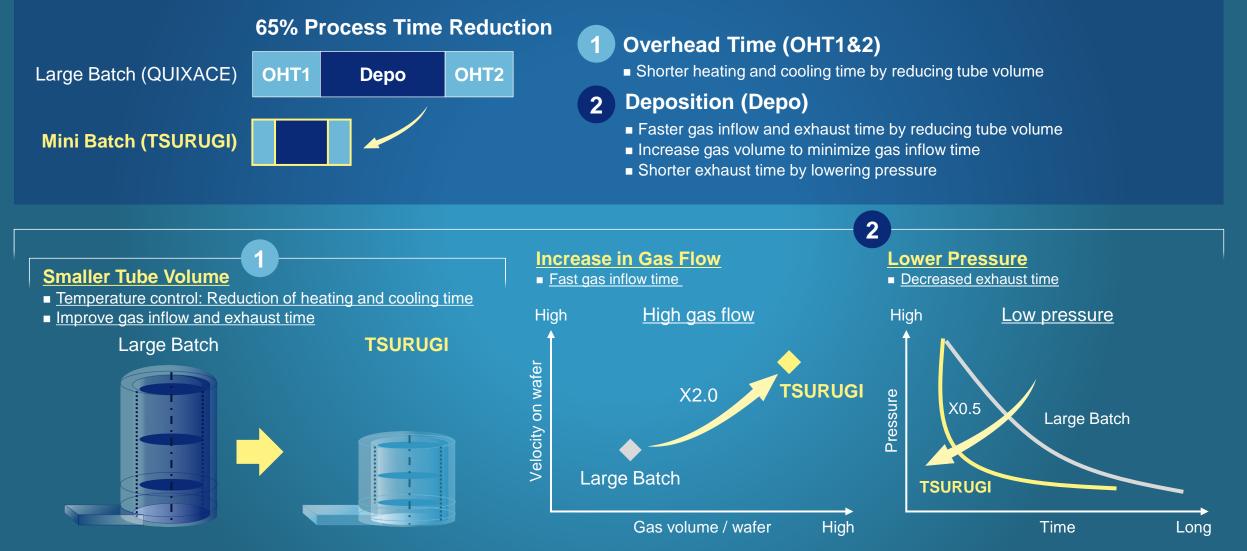


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## **TSURUGI Enables Both Complex Structure Depositions and High Productivity**

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

#### Improved Productivity by Reducing Process Time



## Leading Positions in 3D NAND Memory CELL Applications

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

		2021	2023	<b>2025</b> <sup>(2)</sup>	202	7 <sup>(2)</sup>	<b>2029</b> <sup>(2)</sup>
	NAND	$\sim$ 200 laye	rs	200~500 layer		500 I	ayers~
	Process		OR Share 0 layers	KE POR Share 200~500 layer			POR Share ) layers ~
-02	1 Blocking Oxide	~~	<b>~~</b> ~	~~~~	/	~~	/ / / /
	2 Charge Trap Nitride	~~	<b>~~</b> ~	~~~~		<b>~</b> ~	/ / / /
	<b>3</b> Tunnel Dielectric	~~	<b>~~</b> ~	~~~~	/	~~	/
5	<b>4</b> Channel Si (×2) <sup>(3)</sup>	~	<ul> <li></li> </ul>	~~~		~	<b>~~~</b>
6	<b>5</b> Blocking Metal Oxide	A	<b>~</b>	~~		•	/ ~ ~
	6 Barrier Metal A		<b>~</b>	~~		•	/

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Notes: 1. Company Information 2. KE estimates 3. Channel Si has two processes

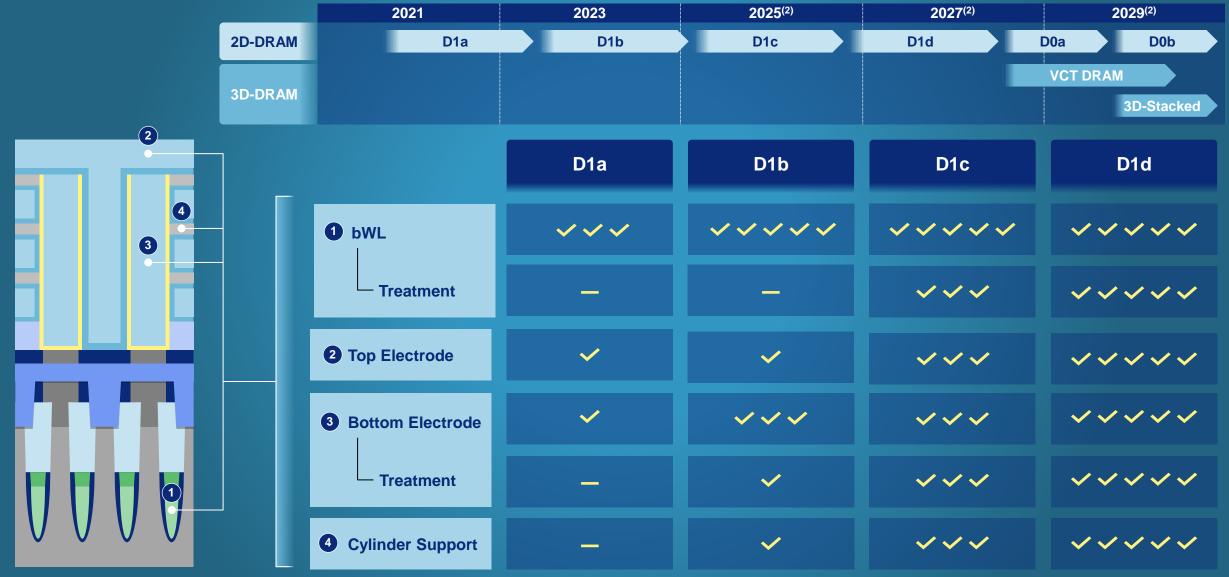


## DRAM

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



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## 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

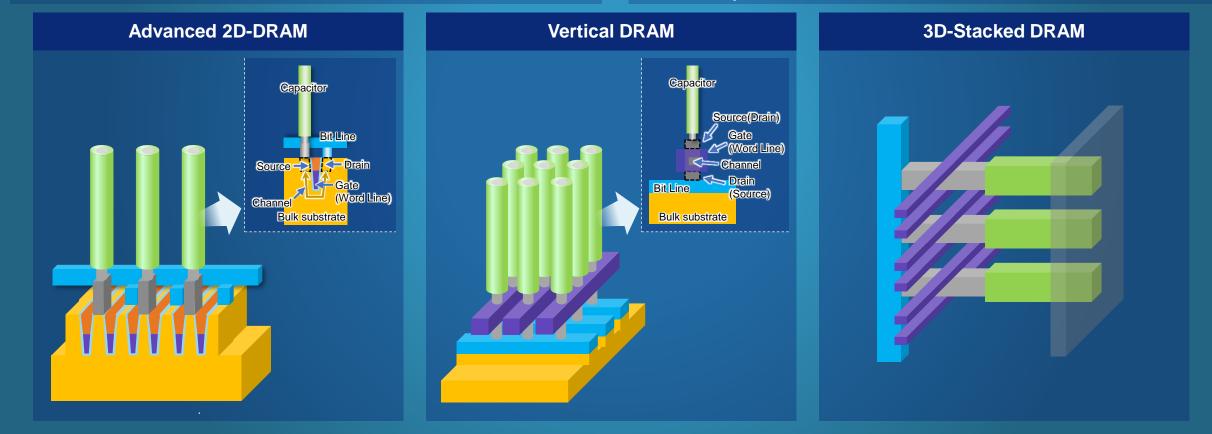
#### <u>Advanced 2D DRAM $\rightarrow$ Vertical DRAM</u>

- (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

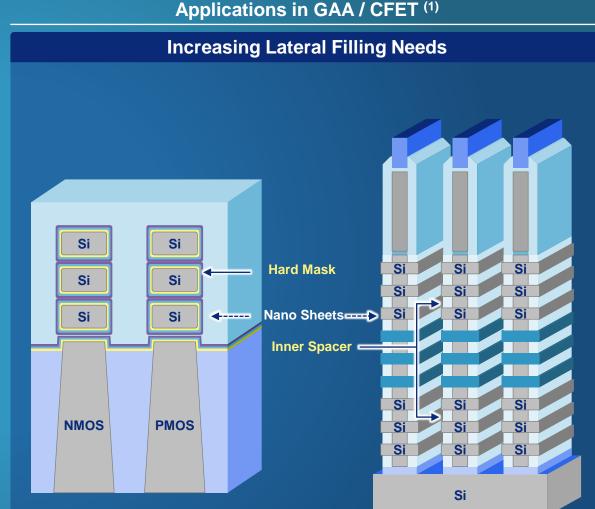
Kenji Kanayama, Senior VP Technology Management, Process Technology Development

## 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** Superiority of Batch Thermal Becomes Apparent w / 3D **General Plasma Process KE Thermal Process Plasma : Short Lifetime** Thermal : Long (Stable) Lifetime Exhaust by-product Residual by-product /S Thermal has a long lifetime and In plasma, the lifetime is short, and enables higher productivity and radicals do not penetrate deeply, so

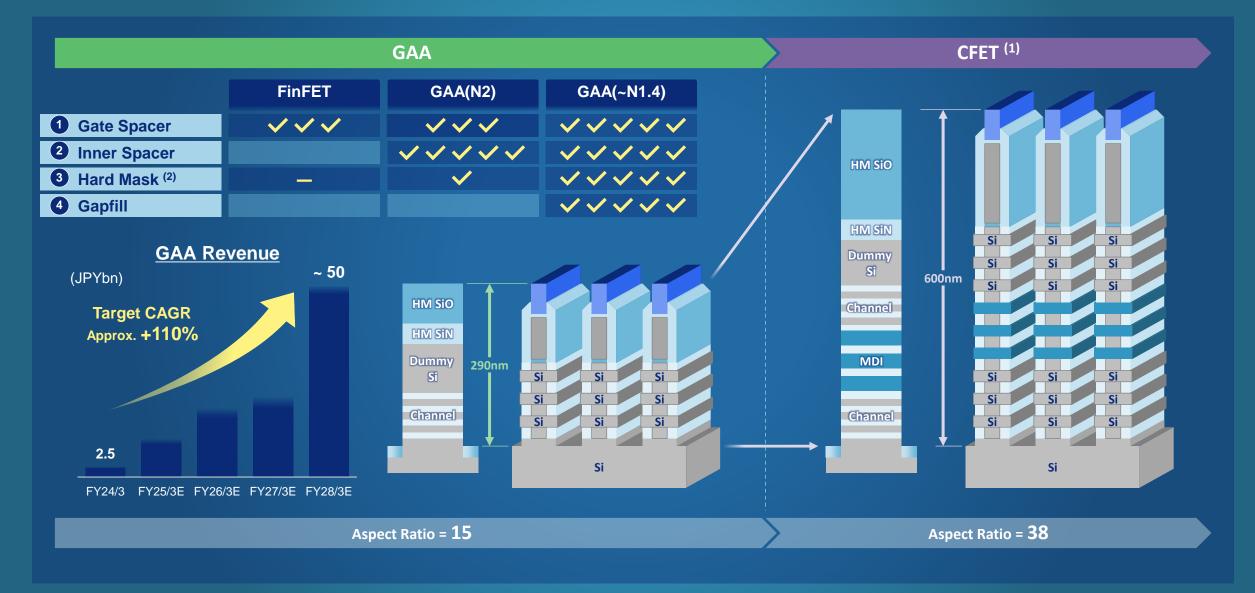
- film uniformity cannot be obtained
- In addition, by-products are generated when chemical reactions occur, and it does not take enough time to remove them in single-wafer process
- excellent film quality in high aspect ratio structures
- Compared to single-wafer, batch process could take a sufficient amount of time, allowing by-products to be exhausted



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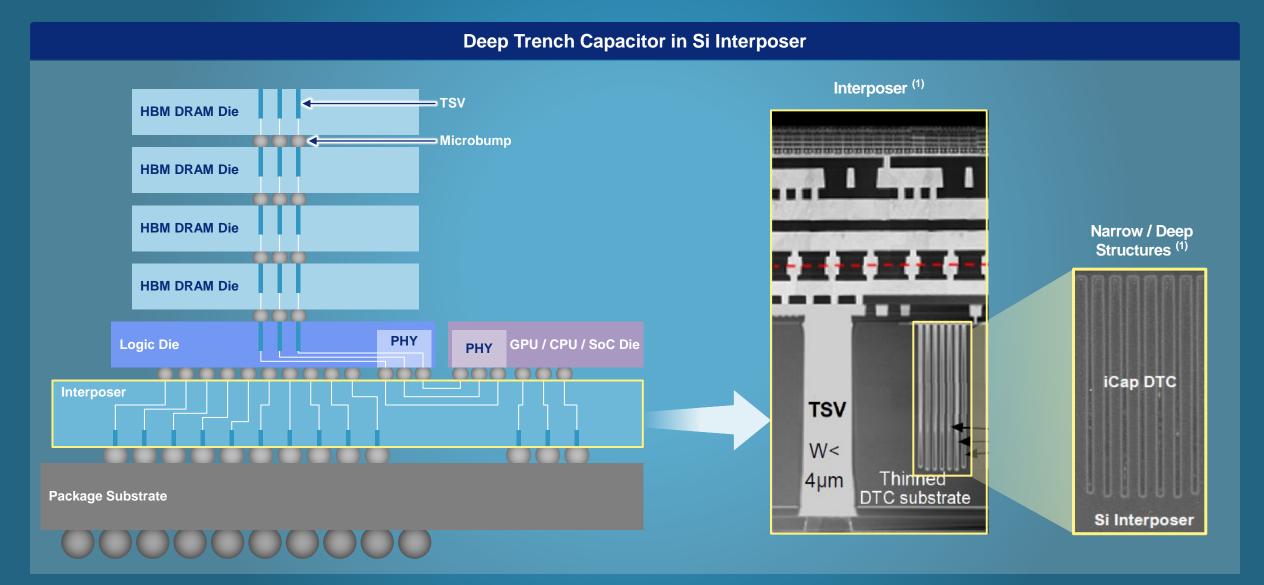
### Strong Momentum in GAA, and Next Inflection Point towards CFET

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



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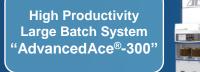
1. S. Felix et al. Wafer-Level Stacking of High-Density Capacitors to Enhance the Performance of a Large Multicore Processor for Machine Learning Applications, ISSCC2023

## **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

#### **Batch Thermal Processing Products of 300mm Wafers**



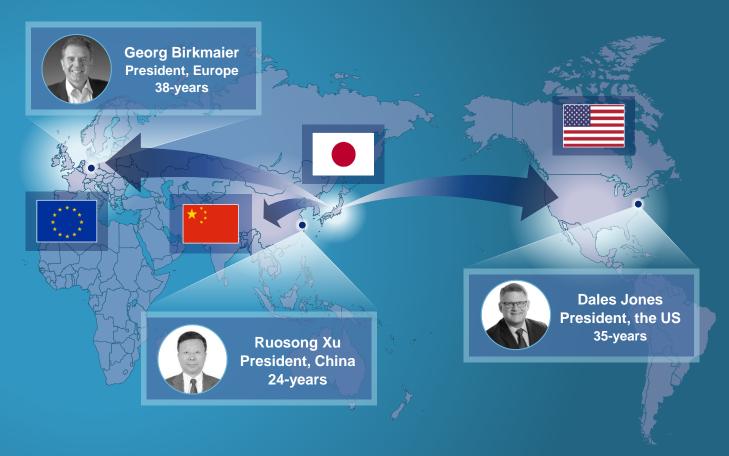
High Productivity Large Batch System "QUIXACE<sup>®</sup>-Ⅱ"

- Over 10,000 delivery record
- Variety of batch process platforms available

Features and Benefits of KOKUSAI Batch Thermal Process Solution



#### 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



## Wide Temperature Range

## **Excellent Step Coverage in a Deep Hole**

4

Demand for deposition in lowtemperature environment has increased due to <u>device</u> <u>complexity</u> 2 <u>Degradation of film quality</u> in lowtemperature environments due to <u>insufficient heat</u>

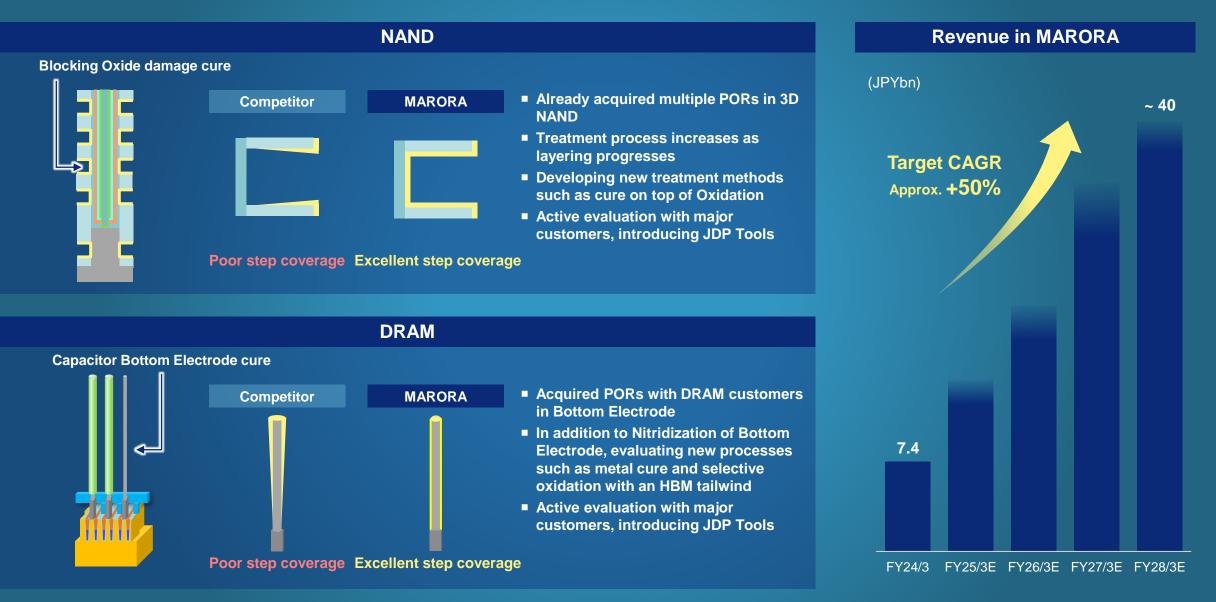
Increasing demand for treatment that improve film quality in lowtemperature environments to improve the quality of existing films

3

In such an environment, MARORA has advantages in <u>wide</u> <u>temperature range</u> and <u>excellent</u> <u>step coverage in high aspect ratio</u> <u>structures</u> 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





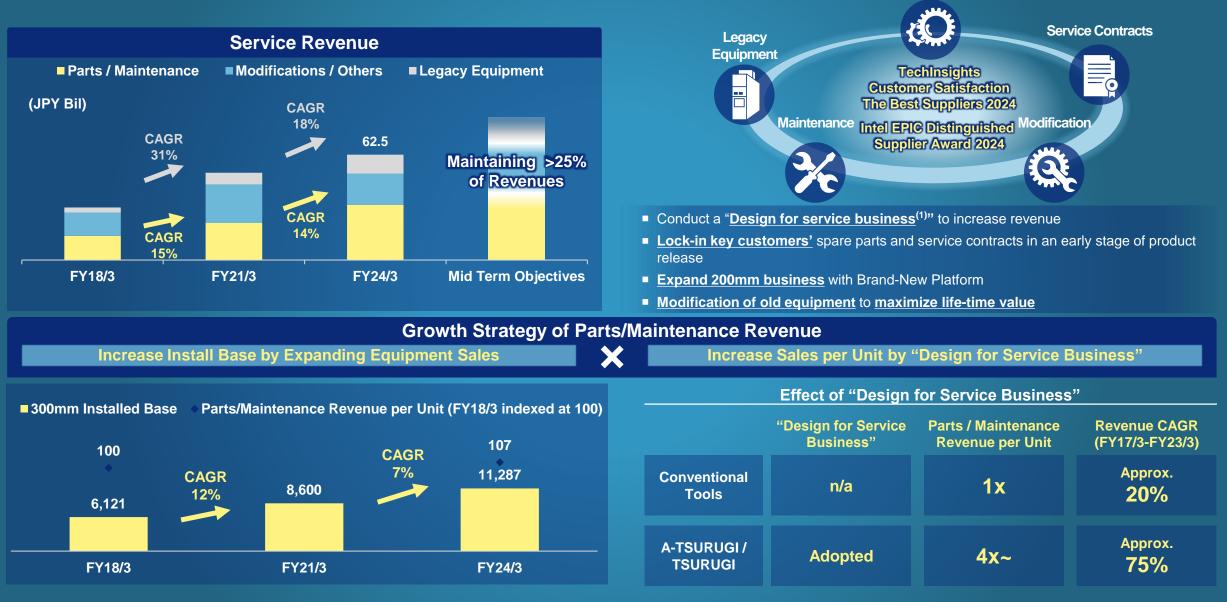
# Service

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

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

Parts

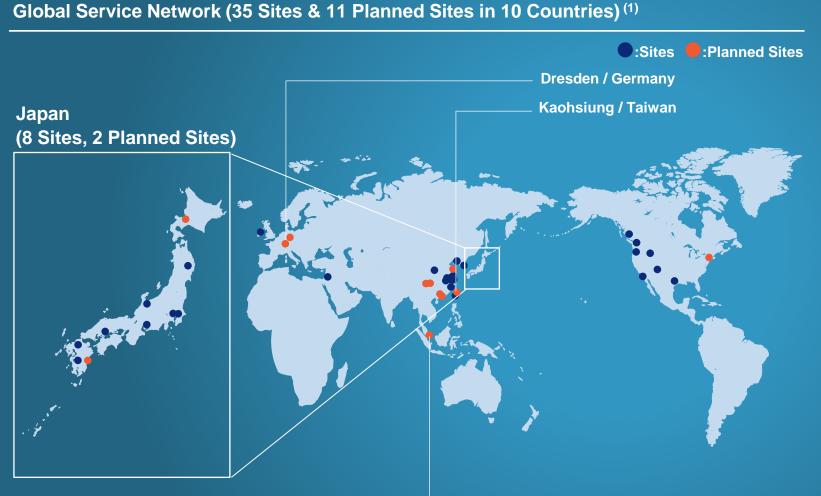
Achieved strong growth in Service revenue through resilience even in downcycles



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# **Expansion of Service Business Foundation**

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



#### **Strategy of New Service Network**



 Strategically expanding business by opening service sites near key customer factories

**KESG** 

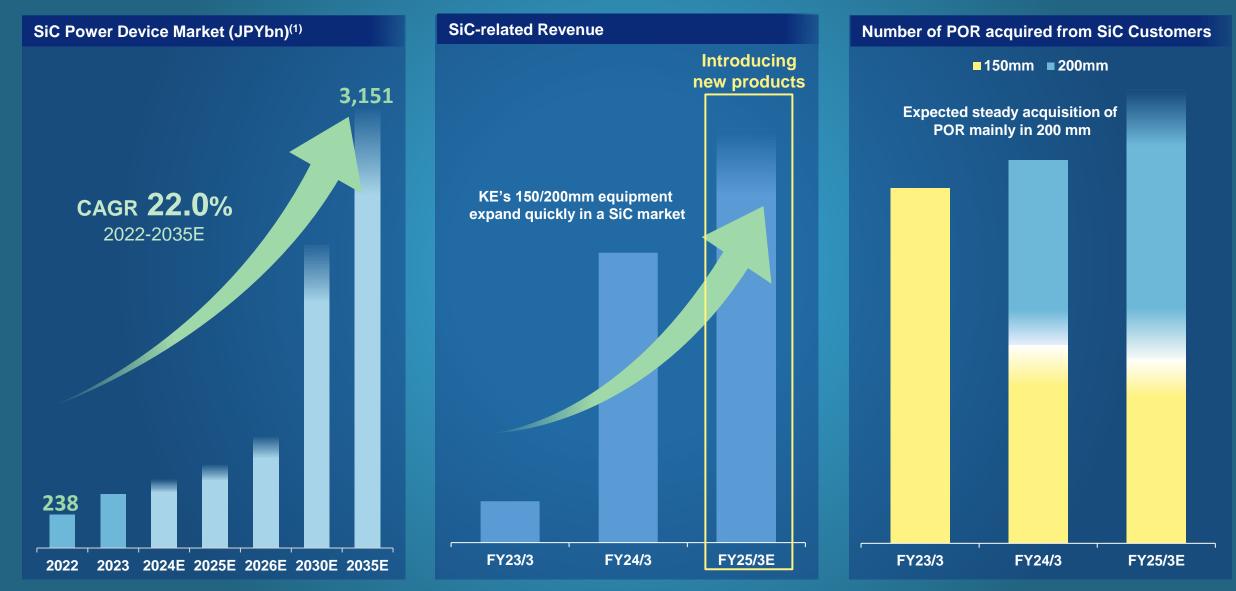


 Expanding business in Southeast Asia, including Singapore and Malaysia, as well as South Asia, such as India, and strengthening the service support system

Kokusai Semiconductor Singapore Pte. Ltd

## SiC Power Devices: Strong Revenue Growth Boosted by Market Expansion

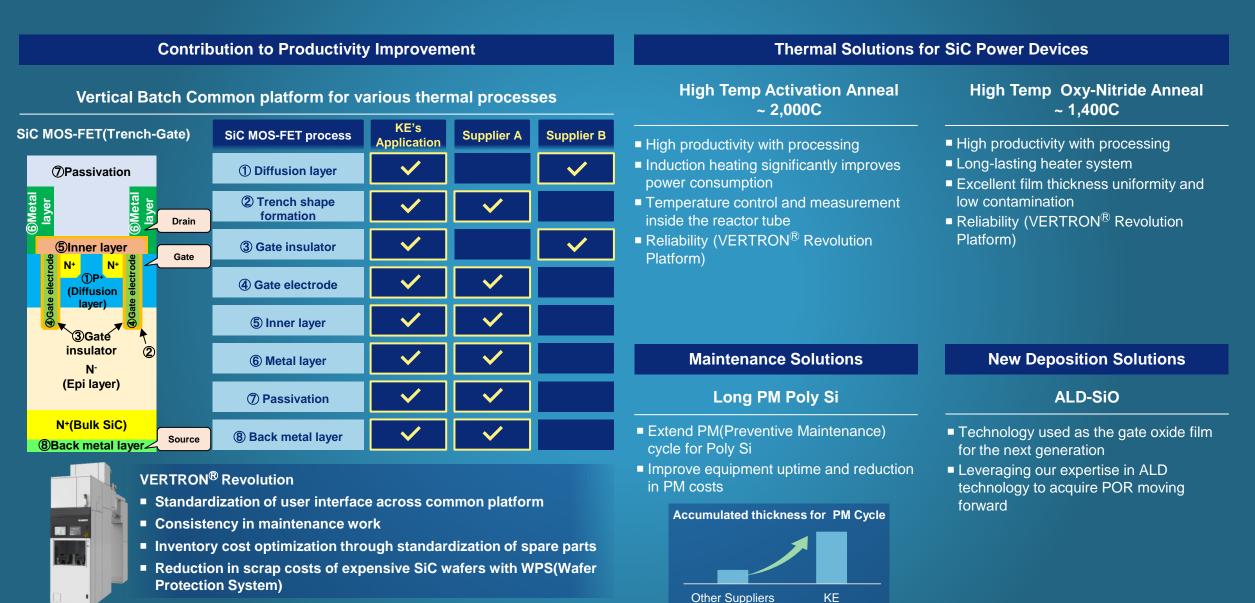
Aiming for steady POR acquisitions mainly for 200mm equipment



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# **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



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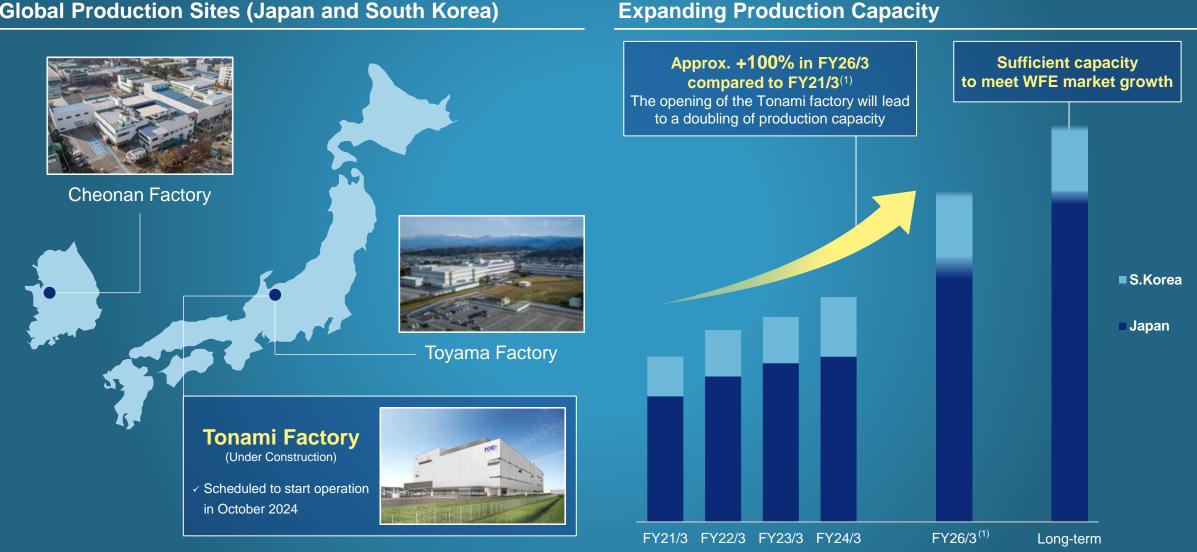


# **Global Operation**

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)**

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# **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)<sup>(1)</sup>

#### New Factory Overview<sup>(2)</sup>



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		
	Notes:		

#### Tonami Factory – SFX 200<sup>(3)</sup> Concept



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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

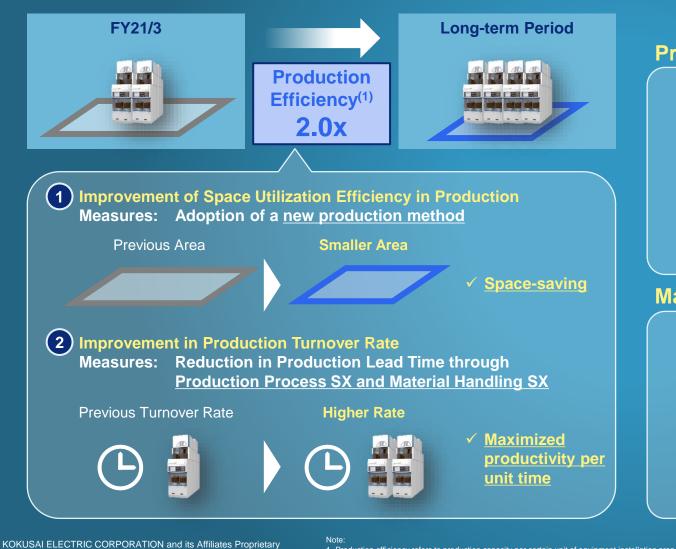
# **Tonami Factory Concept – Production Efficiency Goals through SX**

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



#### **Production Efficiency Goals**

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#### Improvement in Turnover Rate through SX

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

#### **Production Process SX**





**Engineering Skill Support** 

#### **Document and Data Management**



#### **Material Handling SX**

1. Production efficiency refers to production capacity per certain unit of equipment installation area. Production efficiency in Toyama factory in FY21/3 serves as benchmark

**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



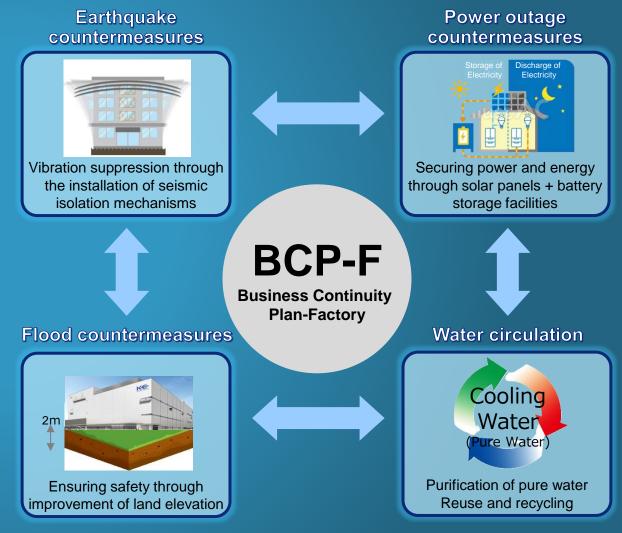
#### 100% Renewable Energy System



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

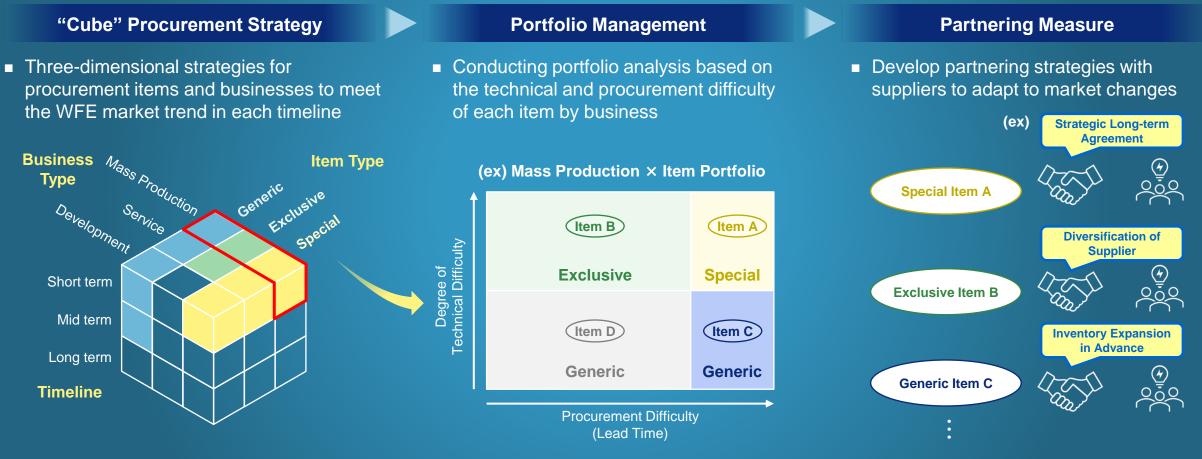
# Fully Equipped BCP System



# **Strategy for Procurement Expansion**

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

#### **Robust Procurement Framework**



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

Supplier Engagement Sustainable Collaboration

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

#### Partner Web System (KE Original)

#### **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



#### **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

#### Obtained Platinum Status VAP<sup>(1)</sup> Audits by RBA<sup>(2)</sup>



#### ✓ 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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2. Responsible Business Alliance. Consisting mainly of US-based companies, it includes members from around the world. Since the alliance's formation, its main purpose has been to exercise social responsibility. It has formulated a Code of Conduct which includes suppliers and works to promote its widespread adoption



# **Financial**

Yoshitaka Kawakami, Senior VP Finance & Accounting

## Financial Model – Mid-Term Objectives<sup>(1)</sup>

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
WFE Assumption	\$100 Bil (CY2023) <sup>(2)</sup>	> \$120 Bil
Revenue	JPY 181 Bil	> JPY 330 Bil
Equipment (% Revenue)	65%	~ 75%
Service (% Revenue)	35%	> 25%
Adjusted OP Margin <sup>(3)</sup>	20.9%	> 30%
R&D (% Revenue)	7.0%	> 6%
ROE (Reference)	15.7%	> 25%
ROIC (Reference)	10.1%	> 23%

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 2. KE estimates

Notes:

<sup>3.</sup> 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

<sup>4.</sup> 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 by such forward-looking information

### 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**

- <u>20-30% Dividend Pay-out</u>, on par with international and domestic comps
- Once net cash<sup>(1)</sup> 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<sup>(2)</sup></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

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

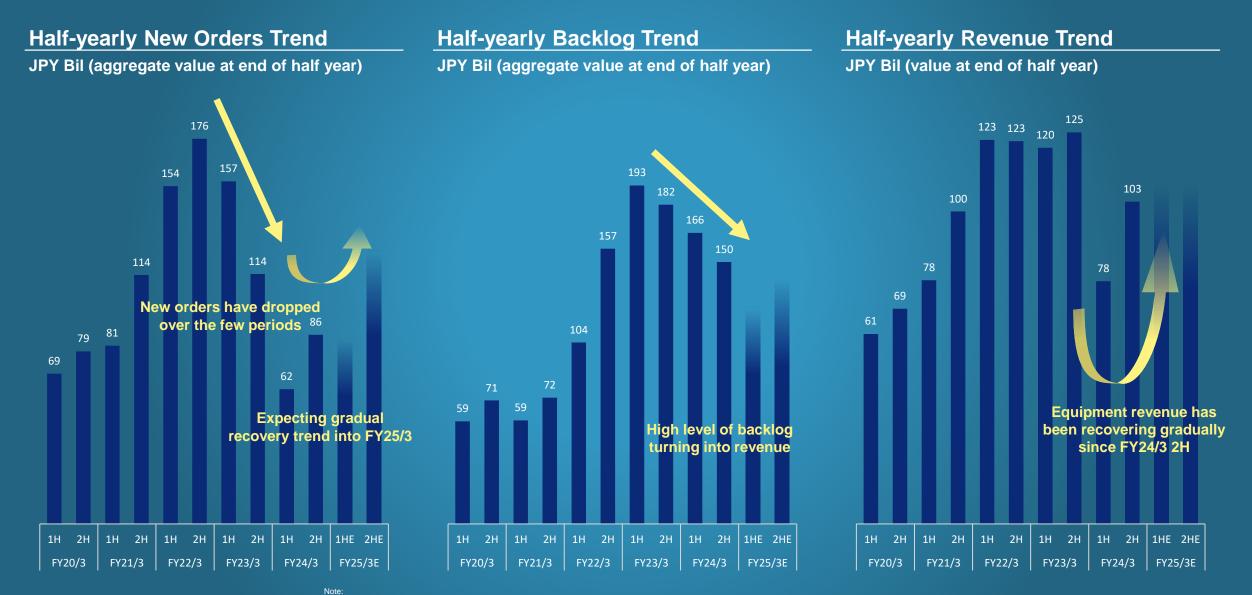
Notes:

<sup>1.</sup> Net cash = Cash and Cash Equivalents - interest-bearing debt

<sup>3.</sup> 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 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



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# **Selected Consolidated Statements of Profit or Loss Data**

(JPY Mil)	FY23/3	FY24/3
Revenues	245,721	180,838
% ҮоҮ	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 <sup>(1)</sup>	(270)	(679)
Other Expenses <sup>(1)</sup>	1,562	487
PPA Amortization <sup>(2)</sup>	6,369	6,369
Stand-alone Related Expenses <sup>(3)</sup>	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 <sup>(4)</sup>	3,934	4,576
Adjusted EBITDA	68,185	42,415
% Margin	27.7%	23.5%

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

Includes restructuring expenses
 Excludes PPA Amortization

Notes:

# **Reconciliation of Adjusted Net Income**

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

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- 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**