

I am Hosen from the Semiconductor Business Group. Thank you for your time today. I will talk about semiconductor business strategy.

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This slide outlines our business overview.

Our semiconductor business comprises two main areas: automotive and industrial.

Automotive includes automotive power modules used in xEV inverters and DC/DC converters, as well as automotive discrete devices used in engine, brake, and steering controls for xEVs and ICE vehicles.

Industrial includes industrial power modules used in FA inverters, servos, and renewable energy, as well as industrial discrete devices for flat-screen TVs and printers, in addition to photoconductors.

In FY2024, the sales composition was 56% automotive and 44% industrial.



This slide shows our strengths in the power semiconductor business.

Fuji Electric has the No. 3 global share in IGBT modules.

Our chips have the lowest energy loss in the industry. We beat rivals to the market in RC-IGBTs, which have been widely adopted by xEV manufacturers worldwide. Another strength is that we have commercialized the industry's most compact modules by combining low-loss chips with high-density mounting technology.

Our SiC MOSFETs feature best-in-class low on resistance and minimal characteristic variation, allowing optimal design for customer equipment.

Our global network of manufacturing bases, sales offices and design centers enables comprehensive worldwide support for our customers.



Review of FY2024

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In FY2024, Fuji Electric recorded net sales of ¥236.8 billion and operating profit of ¥37.1 billion, both up year-on-year.

Key successes included:

- Development of new products for xEVs and renewables

– Expansion of 8-inch Si device production capacity at Fuji Electric (Malaysia), raising the 8-inch production ratio to 75%

- Start of SiC mass production at Fuji Electric Tsugaru Semiconductor in December 2024

- METI's approval of our SiC supply plan, submitted jointly with DENSO

Challenges going forward include:

- Growing sales in the xEV and renewable energy areas
- Expanding specification wins and acquiring new customers for new products
- Scaling SiC production capacity to meet demand
- Developing competitive next-generation products

We will address these challenges as we move forward.

3 Management Plan for FY2025

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Market Trends

Industrial: Strong market growth for renewable energy field amid delayed recovery in demand centered on factory automation

Automotive: Ongoing growth of overall electrified vehicle market, despite slowdown in growth of EVs

Business Fields	Market Trends (FY2025)		
Industrial	Factory automation	Performance and growth relatively unchanged from FY2024	
	New energy	Ongoing trend toward decarbonization anticipated to sustain firm growth	
	Consumers	Modest growth trend to be supported by subsidies for purchasing new home applications in China	
Automotive	xEVs	Increased sales of HEVs and PHEVs, regardless of sluggish growth for BEVs Double-digit growth despite slowdown in electrified vehicle growth rates when compared to prior market outlook	
	Gasoline vehicles	Ongoing decline in sales	-
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Looking at market trends, in the industrial field, we expect little to flat growth in factory automation from FY2024, while renewables should continue growing strongly due to ongoing decarbonization initiatives. We anticipate modest growth in consumer electronics, supported by China's home appliance trade-in subsidy.

In the automotive field, while EV growth is slowing, xEVs as a whole are projected to grow at a double-digit pace. ICE vehicle sales may continue declining.



FY2025 business plan

We will focus on growth areas such as xEVs and renewable energy by strengthening specification wins and customer acquisition while scaling production capacity to meet demand.

For FY2025, Fuji Electric targets net sales of ¥223.0 billion, with overseas sales accounting for 51%, and operating profit of ¥21.5 billion, for an operating profit ratio of 9.6%. Excluding forex impact, this is 10.4%.



Industrial IGBT modules: Increases in ratios of sales of 7th- and 8th-generation modules





Although sales have not grown much yet, we are working to increase the ratio of product adoptions to expand sales, such as SiC devices and 7th/8th generation modules.

We aim to raise the sales ratio of SiC devices in automotive modules to 11% this fiscal year.

We also expect 7th/8th generation modules to account for 53% of industrial IGBT module sales, as the sales ratio of new products steadily increases.

F Fuji Electric **Priority Measures** Innovating Energy Technology Automotive field Growth in sales of SiC devices and acceleration of specification solicitation efforts Industrial field Growth in sales centered on renewable energy market Enhancement of manufacturing > Front-end: Bolstering of SiC device production capacity and mass production of 8th-generation IGBTs based on demand Back-end: Mass production of new compact automotive RC-IGBT modules Preparation for mass production of new SiC modules Augmentation of industrial IGBT module production capacity in response to demand growth Development of competitive new products Accelerated development of 3rd-generation SiC-MOSFETs and 8th-generation **IGBTs** Development and mass production of IGBTs and SiC modules for automotive and ≻ industrial (large-capacity) applications Development of technologies for 8-inch SiC devices

Next is priority measures.

In automotive, we will focus on expanding SiC device sales and increasing specification wins.

In industrial, we aim to expand sales primarily in the renewable energy market.

In manufacturing, for the front-end, we aim to expand SiC device production capacity and begin mass production of 8th-generation IGBTs. For the back-end, we are preparing to mass produce new products for xEVs. The plan is to scale up industrial IGBT module production in line with demand.

On the new product development side, we are accelerating development of 3rdgeneration SiC MOSFETs and 8th generation IGBTs. We are developing largecapacity IGBT and SiC modules for xEVs and industrial use. Another priority is to advance the development of 8-inch SiC device technology.



Looking at specification wins in automotive, Fuji Electric secured wins from two new customers, one in Japan (Company K) and one in Europe/U.S. (Company J). We are now engaged in specification activities for compact RC-IGBT and SiC modules for delivery after 2027. We will work to convert these specification wins into future orders and grow sales.



Here, I will introduce some new automotive module products.

The compact RC-IGBT module on the left features a small, low-profile package roughly the size of a smartphone. It is 57% smaller by volume than our previous models, while keeping the same specifications.

We have developed a product lineup covering 300A to 600A for mini and compact vehicles. Mass production of the 600A model began in April 2025, with 300A and 450A models to follow next fiscal year.

The SiC module on the right uses 3D wiring technology to reduce size and thickness by 49% and significantly lower inductance within the module, enabling the high-speed switching capabilities of SiC.

We plan to develop and start mass production of the 660A SiC module from the third quarter of FY2026.



Next is next-generation products.

We are developing 4th-generation SiC MOSFETs, targeting a further 35% reduction in loss versus 3rd-generation products, which we aim to commercialize this fiscal year.

We are also developing modules using the 4th-generation chips, aiming for a 25% size reduction versus current SiC modules, the smallest in their class, with launch planned as early as FY2027.



Next we take a look at industrial semiconductors.

While growth in the module market targeted by Fuji Electric remained flat from FY2023 to FY2025, the renewable energy field has grown 6.8%.

The chart on the right indexes the company's sales so that 2023 equals 100. Overall growth is plus 2.6%, while the market flatlines, and renewable energy is plus 7.8%, as sales increase faster than the market average.



We are developing new products for the renewable energy market. For IGBTs, we are developing 2,300V models in addition to 1,200V and 1,700V models.

For SiC devices, we are developing new 1,700V and 2,300V products.

These products use ultrasonic bonding technology for 10x higher reliability than before, and feature a low-inductance design to leverage SiC's high-speed switching capabilities.

Higher voltages allow a shift from three-level to two-level circuit designs in a single module, reducing mounting area and cost.

Mass production of IGBT modules began in April 2025, with SiC modules set to launch in the 4Q of FY2026.



We are also developing next-generation industrial IGBT modules.

Our 8th-generation IGBT modules offer roughly 15% lower loss than 7thgeneration models.

We are pursuing major cost reductions by downsizing IGBT and diode chips, using common structural components, standardizing specs and localizing procurement.

Mass production is scheduled to begin in the 4Q of this fiscal year.



Next is manufacturing.

On the front end, we are expanding SiC device production capacity to meet demand and preparing for mass production of 8th-generation IGBTs. In Japan, we will start mass production of 8th-generation IGBTs in the fourth quarter at the Matsumoto site. We are building and developing production lines for 8-inch SiC devices. At the Tsugaru site, we plan to increase SiC device production capacity to 2.5x the FY2024 level.



Looking at back-end processes,

We are ramping up production for new products and expanding capacity in line with the pace of growth in demand.

In Japan, we began production of new products for xEVs, and will start 8thgeneration IGBT production. In China, we are increasing 7th-generation IGBT production capacity at the Shenzhen plant by 30% versus FY2024.

In the Philippines, we will begin production of new 7th-generation IGBT modules in October.



Last is capital investment and research and development.

This fiscal year, our capital investment budget is ¥42.1 billion, down ¥22.2 billion year-on-year, with a focus on production capacity expansion for SiC and new products, and building a pilot line for 8-inch SiC devices.

Our R&D budget is ¥14.0 billion, up ¥0.7 billion from last year.

We will continue R&D with an eye on the future, and aim to translate R&D successes into higher sales in the future.

That concludes my presentation.

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