

Power Electronics Systems Energy Business Strategies

May 31, 2021 **Masashi Kawano** Managing Executive Officer Corporate General Manager Power Electronics Systems Energy Business Group Fuji Electric Co., Ltd.

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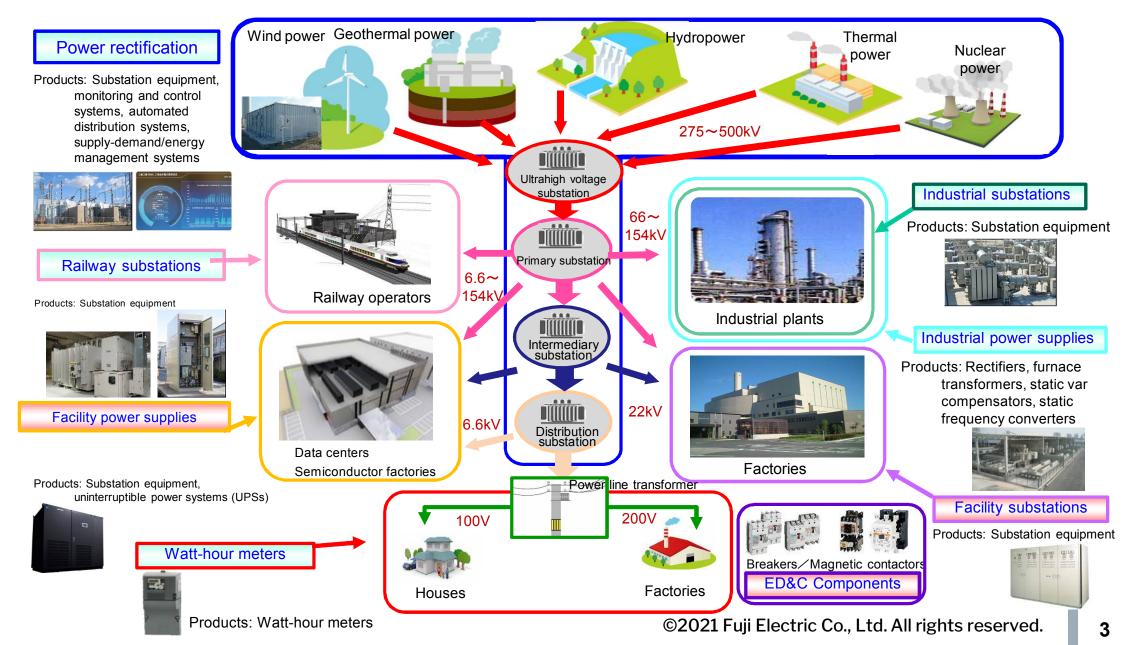
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Business Overview

■FY2021 Management Plan

- Market Outlook
- Business Policies
- Business Plan
- Priority Measures
- Capital Investment / Research and Development

Contributions to stabilization, optimization, and reliable supply of power





Contributions to stabilization, optimization, and reliable supply of power

Energy Management 33% of total net sales	Image: the set of	Main Customers Energy Management Electric power company, new power company, public utilities, steel, nonferrous metals, oil, chemicals, railways
Power Supply and Facility Systems 33% of total net sales	Leading domestic share Image: Construction of the systems (UPSs) Switchgears and controlgears	Power Supply and Facility Systems Data center Semiconductor General industries
ED&C Components 34% of total net sales	No. 1 domestic share* No. 2 domestic share* Image: Contractors Molded-case circuit breakers	ED&C Components • Machine manufacturer • Power distribution board manufacturer

* Based on FY2020 performance; Source: Fuji Electric Co., Ltd.

Note: Percentages of total net sales represent FY2020 performance and are calculated before deduction and ©2021 Fuji Electric Co., Ltd. All rights reserved. adjustment for inter-segment sales.

Market Outlook



	Field	Japan / Overseas	YoY Change	Market Outlook (FY2021)
Energy Management Ind	Power	Japan		Intensifying competition due to retail deregulation, ongoing investment curtailment (minimal investment) Ongoing move to address aging substation facilities, conserve electricity, and increase power lines in response to internet data center demand
		Overseas		Rising power distribution system investment in India and Indonesia due to growth in power demand Strong conditions in Middle East but reduced investment due to move away from oil and political unrest
		Japan		Trend toward curtailing capital investment, but ongoing investment for reinforcing operating foundations
	Industrial	Overseas		High level of opaqueness, but resumption of previously dormant capital investment following gradual recovery after conclusion of COVID-19 pandemic, upgrade demand targeting aged facilities in Asia, and production capacity augmentation demand
	Railway	Japan		Losses recorded by railway operators in FY2020 due to COVID-19 pandemic Massive reduction in capital investment, only minimal necessary investments for ensuring safe and reliable transportation
		Overseas		Progress in railway construction plans centered on Asian emerging countries, investment execution projected in FY2021 and beyond
Power Supply and Facility Systems Fa	Power supplies	Japan		Ongoing construction investment by foreign internet data center operators, sluggish investment by domestic internet data center operators Recovery in small to medium-sized projects in Japan anticipated following conclusion of COVID-19 pandemic
		Overseas		Internet data center demand construction plans broadening out of Singapore and into surrounding countries in Southeast Asia Brisk investment accompanying increased semiconductor demand, investment first targeted at construction in South Korea
	Facility electrical equipment	Japan		Recovery in machine tool and semiconductor fields
		Overseas		Ongoing investment in public infrastructure facilities and commercial facilities and based on semiconductor investment plans
		Japan		Machine tool export recovery centered on products for China coupled with gradual recovery in domestic demand Low level of switchboard projects, and consequently flat growth, despite favorable performance in certain projects for internet data centers
ED&C Components	Overseas		Favorable conditions in China continuing from second half of fiscal 2020; uncertainty in Asia with regard to impacts of COVID-19 pandemic on investment plans, but brisk investment anticipated centered on semiconductors	

FY2021 Business Policies / Business Plan

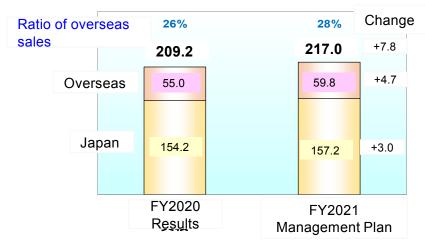


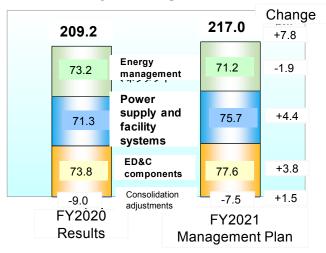
Deployment of sales promotion measures and reinforcement of management constitution to accomplish medium-term management plan targets

Amount of Orders Received (Billion yen)



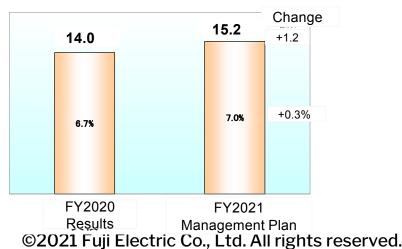
Net Sales in Japan / Overseas (Billion yen)





Net Sales by Subsegment (Billion yen)

Operating Income / Operating Margin (Billion yen)





Energy Management

Expansion of overseas operations centered on Southeast Asia
 Improvement of system accommodation capabilities

Power Supply and Facility Systems

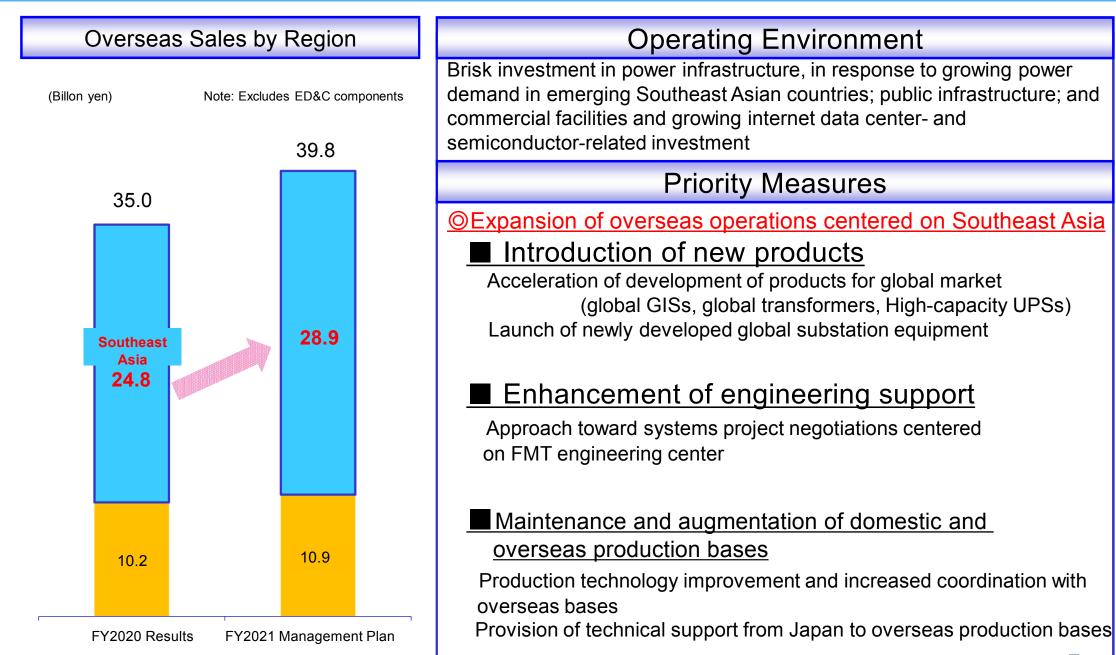
- Ongoing acquisition of large-scale internet data center and semiconductor project orders
- Promotion of comprehensive electrical equipment orders and reinforcement of service structures

ED&C Components

Implementation of drastic structural reforms (exhaustive reinforcement of sales, model lineup, and manufacturing operations)

<Energy Management / Power Supply and Facility Systems> Expansion of Overseas Operations





GIS: Gas insulated switchgears: UPS: Uninterruptible power system; FMT: Fuji Electric Manufacturing (Thailand) Co., Ltd.)

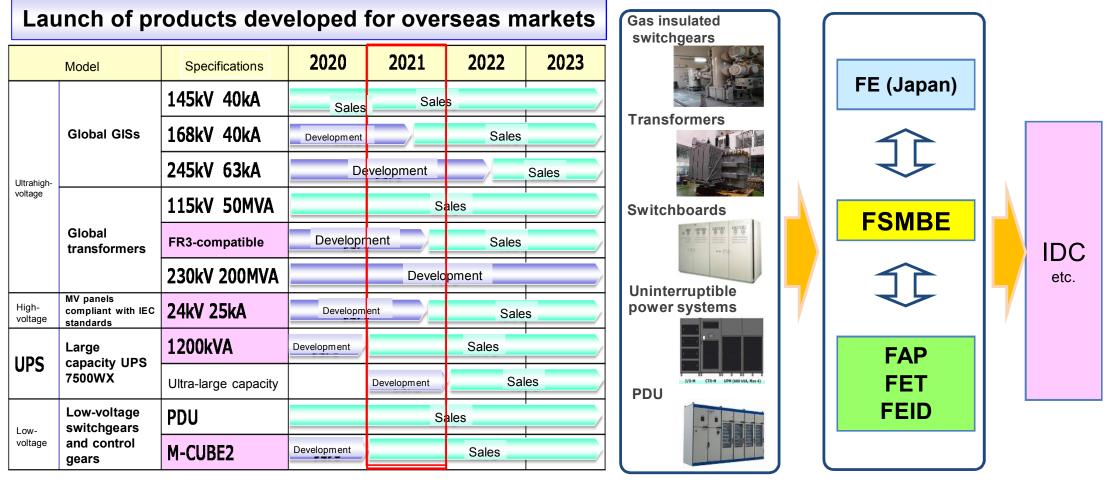
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Growth of Asian Market (Launch of New Products)



- Launch of substation equipment newly developed for overseas markets
- Promotion of vendor registration by capitalizing on track record of serving foreign internet data center operators in Japan
- Coordination with FSMBE to promote sales of Fuji Electric and FSMBE products through mutual sales channel

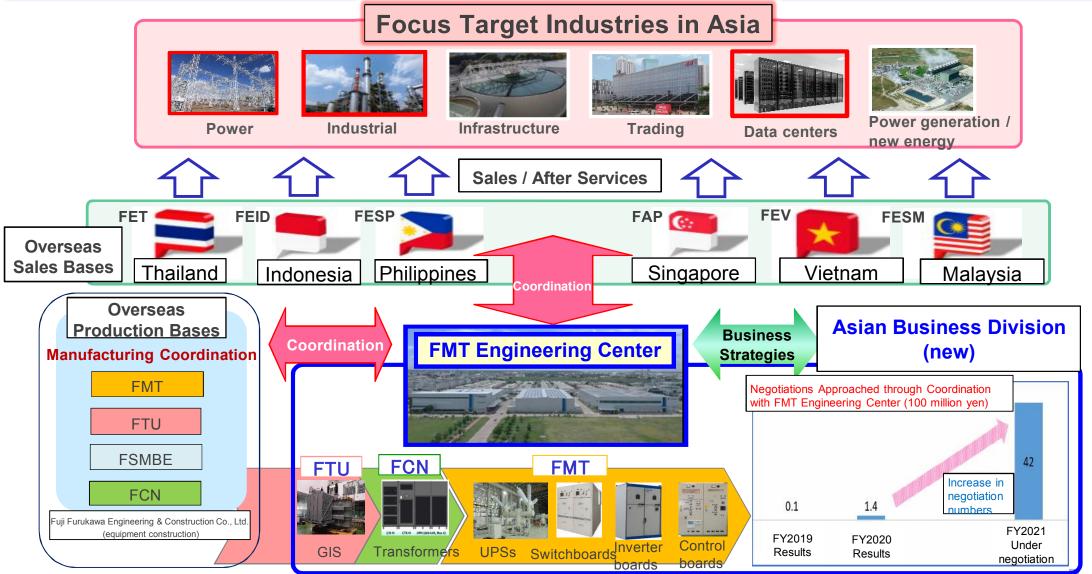


FSMBE: Fuji SMBE Pte. Ltd.; FAP: Fuji Electric Asia Pacific Pte. Ltd.; FET: Fuji Electric (Thailand) Co., Ltd.; FEID: PT Fuji Electric Indonesia FR3: (Soja / Native Ester Oil)



Expansion of Asian plant businesses through enhanced engineering support

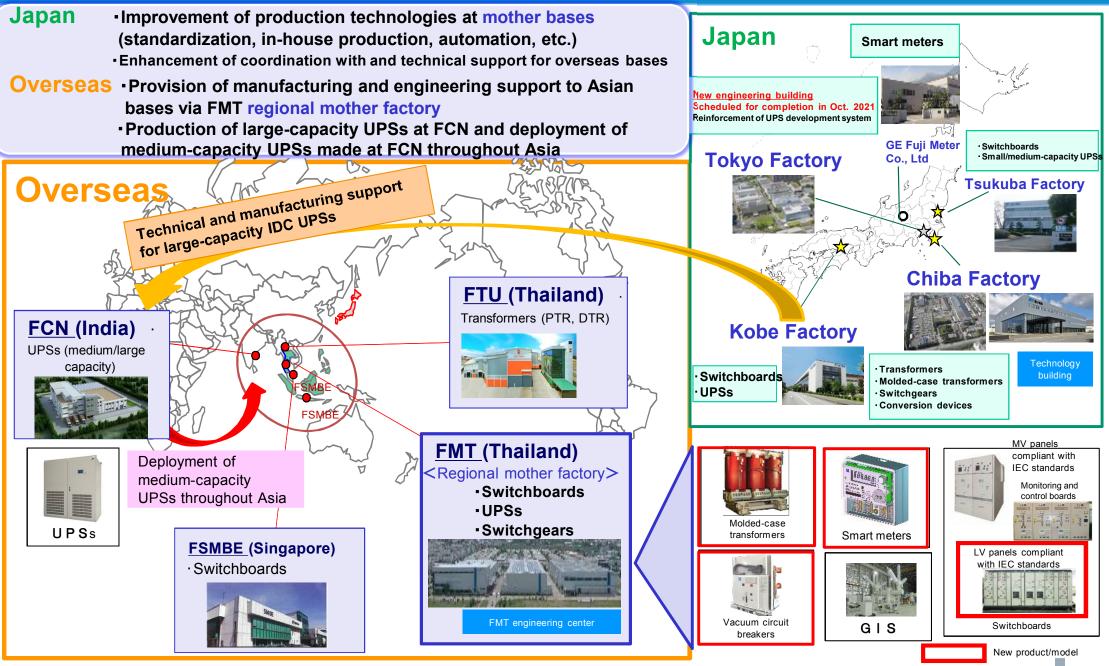
Coordination between FMT engineering center and production bases to approach systems project negotiations



FMT: Fuji Electric Manufacturing (Thailand) Co., Ltd.; FTU: Fuji Tusco Co., Ltd.; FSMBE: Fuji SMBE Pte. Ltd.; ©2021 Fuji Electric Co., Ltd. All rights reserved. FCN: Fuji Electric Consul Neowatt Private Limited

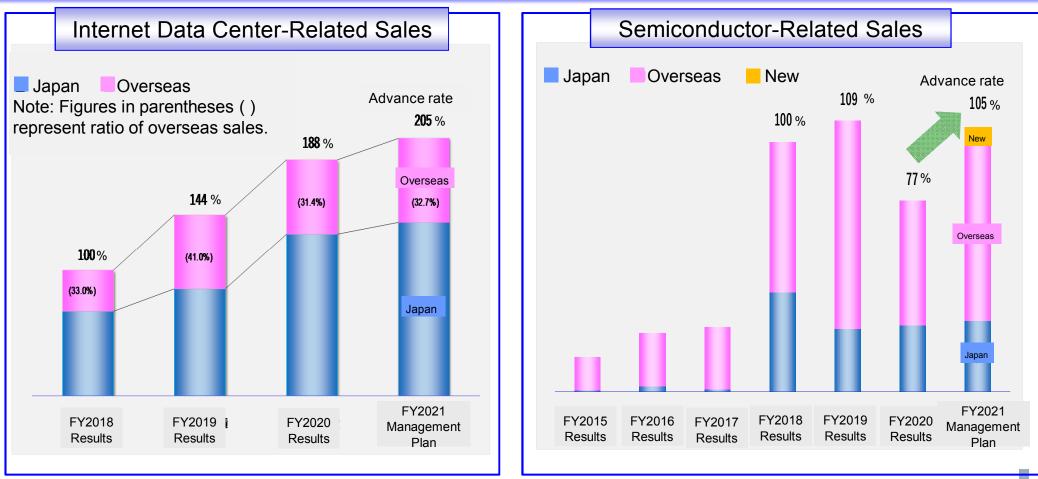
Principal Measures at Domestic and Overseas Production Bases





FMT: Fuji Electric Manufacturing (Thailand) Co., Ltd.; FTU: Fuji Tusco Co., Ltd.; FSMBE: Fuji SMBE Pte. Ltd.; ©2021 Fuji Electric Co., Ltd. All rights reserved. FCN: Fuji Electric Consul Neowatt Private Limited <Power Supply and Facility Systems> Expansion of Comprehensive Electrical Equipment Business (Internet Data Centers / Semiconductors)

- For Fuji Electric
- Growth of share by proposing large-capacity UPSs (7500WX) for internet data centers increasing capacity
- Proposal of comprehensive electrical equipment orders to acquire ongoing orders from existing customers and approach new customers
- Bolstering and training of staff to increase number of engineers capable of proposing comprehensive electrical equipment orders
- Acceleration of production rationalization and development through factory standardization and in-house production

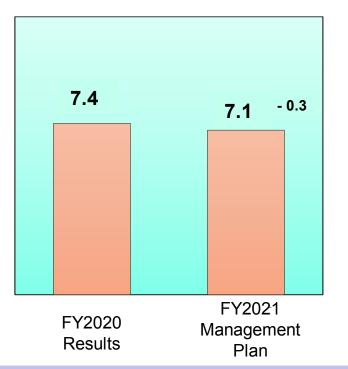




Construction of structure resilient to demand fluctuations through business structure reforms Breakdown of ED&C Components by Industry **Operating Environment Overseas Ratio** Mixture uncertainty despite current demand recovery 2019 2020 2021 trend 30% 34% 32% Overseas ratio Machine manufacturer Power distribution Policies for FY2021 board manufacturer Continuation of measures to reform constitution and lower break-even point from FY2020 to build strong management structure resilient to demand Order Received by Machine fluctuations **Tool Manufacturers** 180 (Billion yen) 160 140 120 Priority Measures for FY2021 100 80 ·Enhancement of competitiveness of existing models and development of 60 ED&C component sales trends differentiated products correlate with machine tool 40 manufacturer order trends • Revision of domestic sales business structures and overseas business strategies 20 Pursuit of exhaustive fixed cost reductions through manufacturing streamlining 0 10 20 30 40 10 20 30 40 10 20 30 40 10 20 30 40 FY2017 FY2019 FY2018 FY2020

Source: Japan Machine Tool Builders' Association

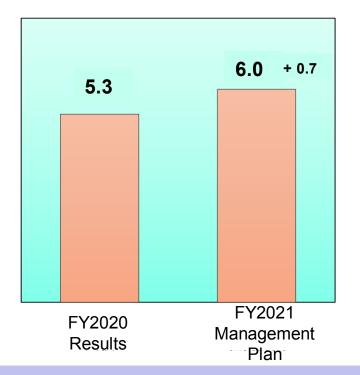




Capital Investment (Billion yen)

- Energy Management
- Factory rationalization, upgrades, and repairs
- Power Supply and Facility Systems
- Factory rationalization, upgrades, and repairs
- ED&C Components
- Equipment augmentation (switch control, low-voltage power distribution, IoT)

Research and Development (Billion yen)



- Energy Management
- Transformers, gas insulated switchgears
- Power Supply and Facility Systems
- Global products (large-capacity UPSs)
- ◆ED&C Components
- Core products (magnetic switches, command switches)

Note: The R&D expenditure figures above represent expenditures that have been allocated to segments based on theme and may therefore differ from figures contained in consolidated financial reports.

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