

Industrial Infrastructure Business Strategies

May 26, 2014 Fuji Electric Co., Ltd. Industrial Infrastructure Business Group



Business Overview

Market Trends

Business Targets

Priority Measures



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Transmission and Distribution

Power supply facilities providing stable supplies of energy



Power grid substations (Large-capacity transformers)



Industrial substations (Power receiving and distribution substation

equipment)



Industrial power supplies (Large-capacity rectifiers) (No. 2 global share)

Machinery and Electronics Systems

Integrated machinery and electronic systems and heat management focused on combining electricity and heat







Drive control systems (Motors for plants)

Industrial electric heating (Induction furnace) (Top domestic share)

g Air-environment (Internet data centers)

Instrumentation and Control Systems

Environmental measures and safe and secure equipment based on measuring instruments and control systems



Instrumentation systems



Measuring instruments (Gas analyzer) (Top domestic share)

Equipment Construction

Equipment construction services supporting industrial infrastructure



Construction



Air conditioners



Plant installation

Major customers: Steelmaking, chemical, automotive, and other industries, and power and railway companies



Market Trends

Japan Market Trends



Rising capital investment in Japan

- Expansion in replacement and rationalization investments that had been postponed
- Substantial increases in the steelmaking and chemicals sectors, automotive remains high

Capital Investment Trends at Major Companies (Capital of ¥1.0 Billion or More)

| | | Year-on-Year li | Capital Investment | | |
|-------------------|-------------------------|-----------------|--------------------|--------|---|
| | Sector | FY2012 | FY2013 | FY2014 | Forecast for FY2014 (Trillions of Yen) |
| Manufacturing | | +1.7 | +2.8 | +3.9 | 9.0 |
| | Steelmaking | +11.3 | - 12.4 | +6.3 | 0.7 |
| | Chemicals | +8.5 | - 6.1 | +5.2 | 1.2 |
| | Automotive | +15.2 | +6.6 | +5.7 | 1.5 |
| | Electrical Equipment | - 10.1 | +9.1 | +2.1 | 1.9 |
| Non-Manufacturing | | +2.5 | +3.6 | +1.3 | 16.6 |
| All Industries | | +2.2 | +3.3 | +2.2 | 25.6 |

Source: Bank of Japan's quarterly short-term economic survey (April 2, 2014)

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(%)

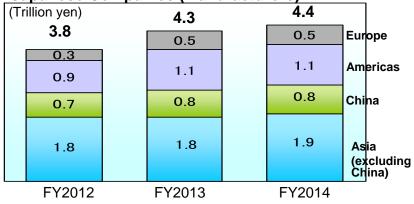
Ongoing infrastructure investment and investment by Japanese companies in Asian markets

Overseas GDP Growth Rate (Year-on-Year)

| _ | | | | | \ | | / | | | | | (70) |
|---|------|-------|-----------|----------|----------|---------|-----------------|--------|-------|-------|----------|--------|
| | | | ASEAN-5 | | | | | | | | | |
| | | Total | Indonesia | Thailand | Malaysia | Vietnam | Philippin es | NIEs-4 | India | China | Americas | Europe |
| | 2012 | 6.2 | 6.3 | 6.5 | 5.6 | 5.3 | 6.8 | 1.8 | 4.8 | 7.7 | 2.8 | -0.6 |
| | 2013 | 5.1 | 5.8 | 2.9 | 4.7 | 5.4 | 7.2 | 2.7 | 4.6 | 7.7 | 1.9 | -0.4 |
| | 2014 | 5.1 | 5.4 | 2.7 | 5.4 | 6.0 | 6.4 | 3.3 | 4.5 | 7.5 | 2.5 | 1.2 |

Source: Mizuho Research Institute Ltd. (March 10, 2014)





Source: Survey of Overseas Operations, Ministry of Economy, Trade and Industry (April 25, 2014) and GLOBAL INSIGHT

Japanese Companies Operating in ASEAN-5 Countries Industrial Parks

| | Industrial parks | Parks with Japanese companies | Number of Japanese companies | Industrial parks with Japanese injected capital |
|-------------|---------------------|-------------------------------------|------------------------------------|---|
| Indonesia | 77 | 15 | 352 | 6 |
| Thailand | 74 | 32 | 809 | 1 |
| Malaysia | 296 | 101 | 510 | - |
| Vietnam | 213 | 51 | 552 | 7 |
| Philippines | 108 | 40 | 427 | - |

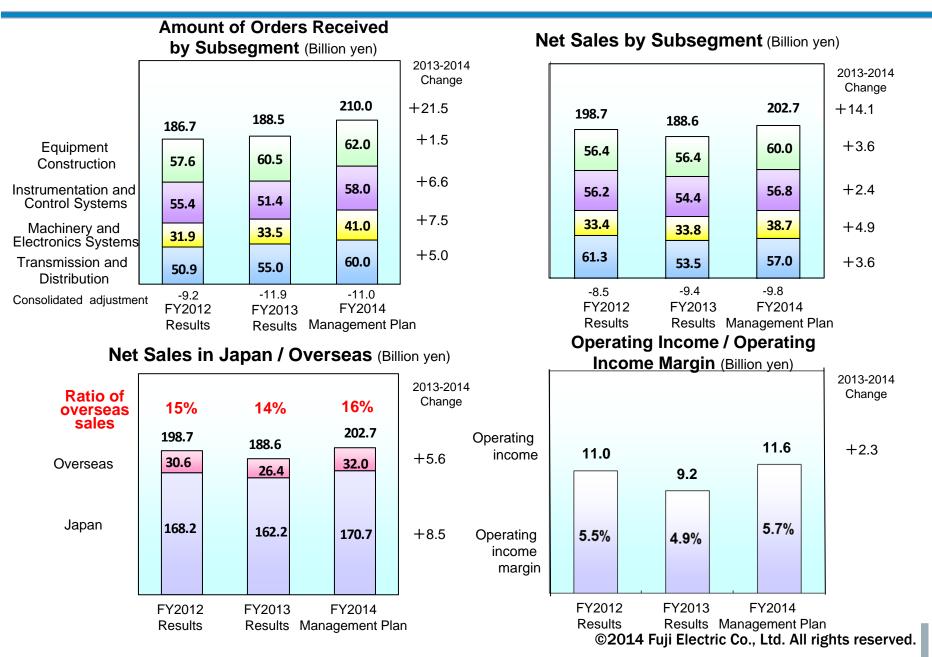
Source: ASEAN-Japan Centre's website (data as of May 2014)



Business Targets

Business Targets



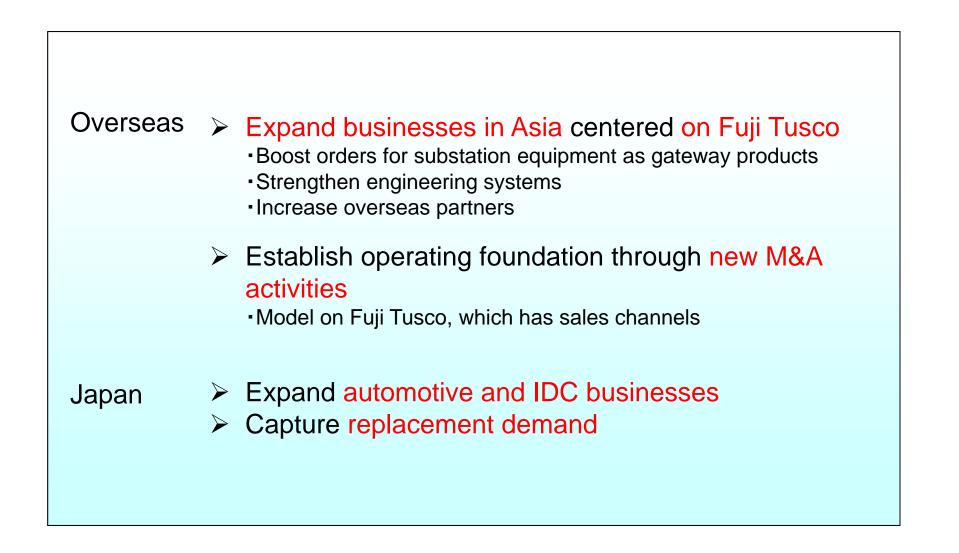


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Priority Measures



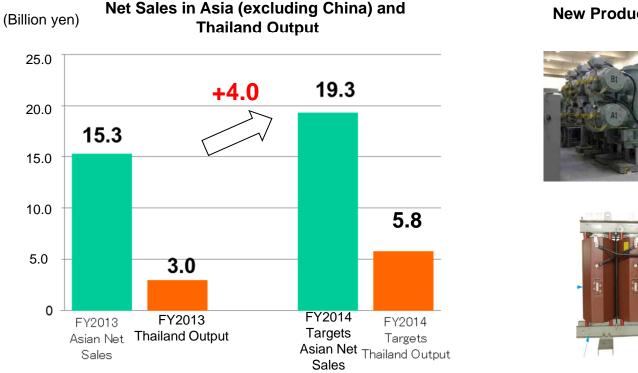


Overseas Priority Measures Expand Businesses in Asia



Boost orders for highly competitive substation equipment as gateway products

- In Thailand, make capital investment in substation equipment and ramp up production capacity (double year on year)
- Expand models manufactured in Thailand (new production of such products as switchgear and cast resin transformers)
- Leverage Fuji Tusco's sales channels (in Thailand, the Middle East and other locations) to boost sales



New Production Models in Thailand

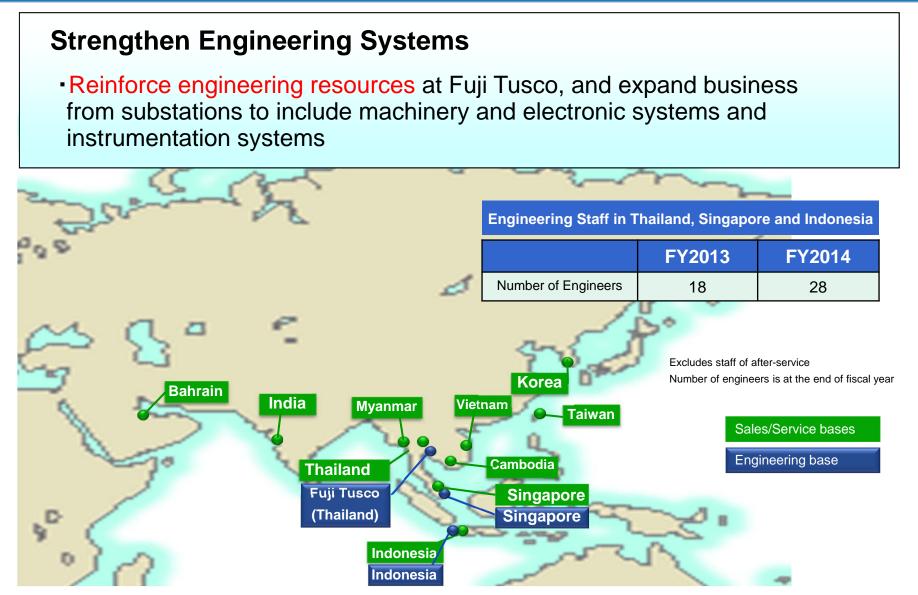


Switchgear

Cast resin transformers

Overseas Priority Measures Expand Businesses in Asia







Increase overseas partners

 Expand local business through collaboration with overseas partners, offering system package equipped with instruments as products

System package equipped with instruments Package together system-level control systems and equipment

- Targets : Boilers, pumps, incinerators, heating furnaces...expand these menus
- Structure: Provide packages comprising Fuji sensors, control software and know-how
- Partners' roles: Package selection and incorporation into systems, delivery, installation, testing/adjustment, maintenance

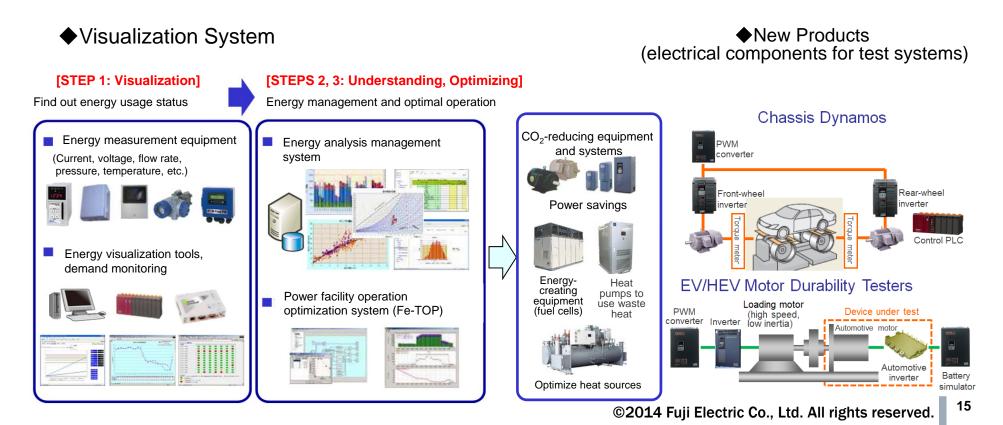
Japan Priority Measures Expand Automotive Business



Support customers' activities to reduce carbon emissions (visualization systems)

- Transfer from "Visualization" to "Understanding and Optimizing"
- Through optimization proposals, expand sales of CO₂-reducing equipment and systems

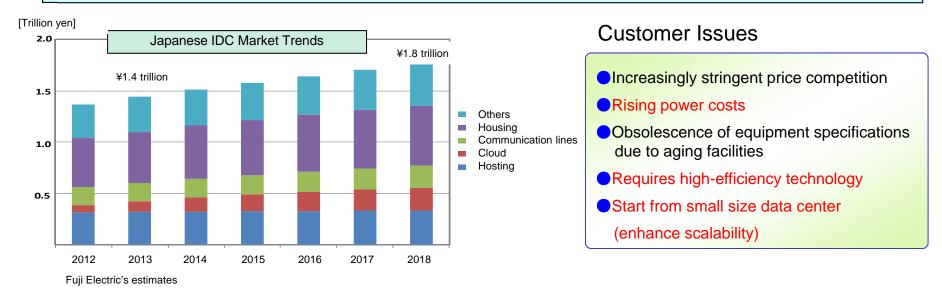
Reinforce new product development (such as electrical components for test systems) and at-spec development



Japan Priority Measures Expand IDC Business



Expand orders by providing solutions centered on Fuji Electric's core technologies and product strengths



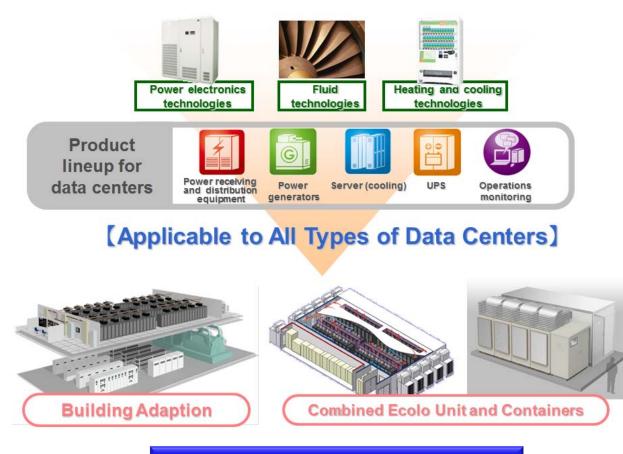
| | Provide solution by entire plant technology | | | | | |
|---|---|---|--|--|--|--|
| | Power system stabilization | Transmission and distribution equipment, power generators, UPSs, fuel cells | | | | |
| | Energy savings | Indirect outside air conditioning unit, spot cooling unit, EMS (DCIM) | | | | |
| | Security | Fire-prevention system, security system (direct intrusions), remote monitoring system | | | | |
| | EPC | Building facilities (containers, prefab, buildings), construction | | | | |
| Core technologies (power electronics technologies, fluid technologies, heating and cooling technologies) | | | | | | |

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Japan Priority Measures Expand IDC Business



Provide highly efficient modular data centers with energy-saving functions



Provide solutions meet several customer needs

Characteristics

- Realize to reduce the construction period and energy consumption of data center by using Builtin-Block method of module type data center
- Realize to save energy (annual average COP:10) by applying indirect outside air conditioning unit into air conditioning system of data center
- Achieve high efficiency (97%) by using UPS that is adopted 3-level inverters controller



Take an aggressive service approach targeting replacement of aging facilities and making operations "smarter"

- Develop residual life diagnosis activities and lifecycle replacement proposals
- Enhance product lineup (MICREX-VieW, retrofit products)

| (Example) Steelmaker (Blast Furnace) Investment Objectives Note: Fuji Electric's estimates | | | | | | | | |
|--|-----------------------------------|-----------------------|----------------------|------------------------|--------------|--|--|--|
| R&D 13% | Manufacturing equipment 37% | Utility Genera 10% | ation business 8% | Overseas plants 22% | Other 10% | | | |

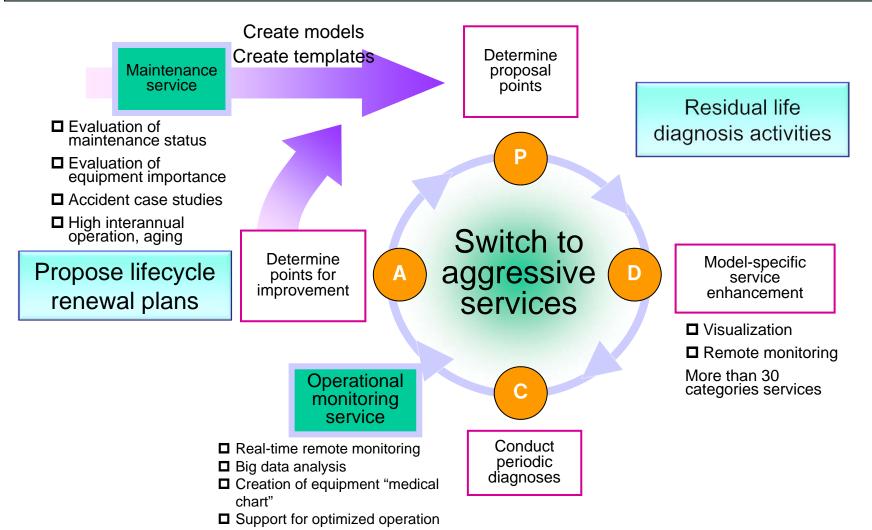
Investment in replacement of aging facilities accounts for half, and investment to make operations "smarter" for an estimated 30%

Japan Priority Measures Capture Replacement Demand



Switch to aggressive services \Rightarrow Minimize customers' lifecycle costs

Conduct equipment diagnosis prior to breakdown, link to predictive detection





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