

Securities ID code:6859

ESPEC CORP.

**Results Briefing for The Second Quarter
of Fiscal Ending March 2015**

November 17, 2014

www.espec.co.jp

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Reference

Company Profile

Industry-leading manufacturer of environmental test chambers;
67th year since company was founded in Osaka

Name	ESPEC CORP.
Head Office	3-5-6, Tenjinbashi, Kita-ku, Osaka
Represented By	Masaaki Ishida
Established	July 25, 1947
Incorporated	January 13, 1954
Paid-up Capital	¥6,895 Million
Shares Issued	23,781,394 Shares
Employees	1,354 (consolidated)
Main Business	Manufacture and Sales of Environmental Test Chambers, Energy Device Equipment, Semiconductor Equipment, FPD Equipment and Plant Factory. After-sales Service, Commissioned Tests and others.



Head office

(As of September 30, 2014)

Global Network

Consolidated Subsidiaries
10 companies

Global Network
43 countries
33 companies

Business facilities in Japan:26
Domestic agencies in Japan:48

EU

△ ESPEC EUROPE GmbH

- ESPEC CORP.
- ESPEC TEST SYSTEM CORP.
- ESPEC KYUSHU CORP.
- ESPEC MIC CORP.
- △ MIC FARM OHGUCHI CORP.

JAPAN

*ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.

New production subsidiary

- Established May 2013
- Opening ceremony March 2014



U.S.A.

● ESPEC NORTH AMERICA, INC.

- SHANGHAI ESPEC ENVIRONMENTAL EQUIPMENT CORP.
- ESPEC ENVIRONMENTAL EQUIPMENT (SHANGHAI) CO., LTD.
- ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD.*
- △ ESPEC TEST TECHNOLOGY (SHANGHAI) CO., LTD.
- ESPEC (CHINA) LIMITED
- ESPEC KOREA CORP.
- △ ESPEC SOUTH EAST ASIA SDN. BHD

ASIA

●: Consolidated Subsidiaries
△: Non-consolidated Subsidiaries

TOPICS

Espec included in “Global Niche Top Companies Selection 100” of the Ministry of Economy, Trade and Industry (METI)



Testimonial

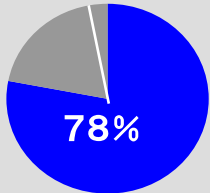
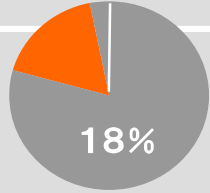
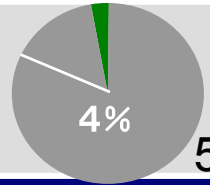
Environmental Test Chambers
Global market share 30% or more



Temperature (& Humidity) Chambers
“Platinous J series”

* A METI initiative to support companies that excel in developing business overseas and are leading Japan's economy, so as to provide direction for other enterprises and contribute to improving the global competitiveness of Japanese enterprises.

Summary of ESPEC Business (Per Market / Use)

		Main Products	Market	Use	Sales composition (FY2014 2Q)
Equipment Business	Environmental Test Chambers	<ul style="list-style-type: none"> •Temperature & humidity chamber •Walk-in type temperature & humidity chamber •Thermal shock chamber •Vibration combined environmental test system •Bench-top type temperature & humidity chamber •HAST chamber 	<ul style="list-style-type: none"> •Electronic component and equipment market •Automobile market •Semiconductor market •Medicine, Cosmetics, Foods and others 	<ul style="list-style-type: none"> •For R & D •For credibility and evaluation •For production and inspection 	
	Energy Device Equipment	<ul style="list-style-type: none"> •Advanced battery tester •LIB electrode oven •LIB safety evaluation system •Solar battery evaluation system 	<ul style="list-style-type: none"> •Next generation automobile •Secondary batteries •Power semiconductors •Fuel cells •Solar battery 	<ul style="list-style-type: none"> •For R & D •For credibility and evaluation •Safety evaluation •For production 	
	Semiconductor Equipment	<ul style="list-style-type: none"> •Burn-in system •Semiconductor evaluation system •Instrumentation system 	<ul style="list-style-type: none"> •Semiconductor market •Automobile market 	<ul style="list-style-type: none"> •For production and inspection •For development and evaluation 	
	FPD Equipment	<ul style="list-style-type: none"> •Single processing system vertical clean oven •Low Oxygen Clean Oven (Temperature Property: Maximum 500°C) 	<ul style="list-style-type: none"> •LCD market •Organic Electro-Luminescence market 	<ul style="list-style-type: none"> • For production (Annealing, baking, drying) 	
Service Business	After-sales Service and Engineering	<ul style="list-style-type: none"> • After-sales service •Construction around equipment 	<ul style="list-style-type: none"> •Electronic component and equipment market •Automobile market •Semiconductor market 	---	
	Commissioned Tests and Facility Rentals	<ul style="list-style-type: none"> •Commissioned test •Equipment rental •Resale •Calibration 		<ul style="list-style-type: none"> •For R & D •For credibility and evaluation 	
Other Business	Environmental Engineering Business	Reforestation (Tree planting) , Waterfront biotope restoration, urban greening			
	New Business	Plant factory, developing and creating new businesses as a major source of profit			

Financial Result for the Second Quarter of Fiscal Ending March 31, 2015

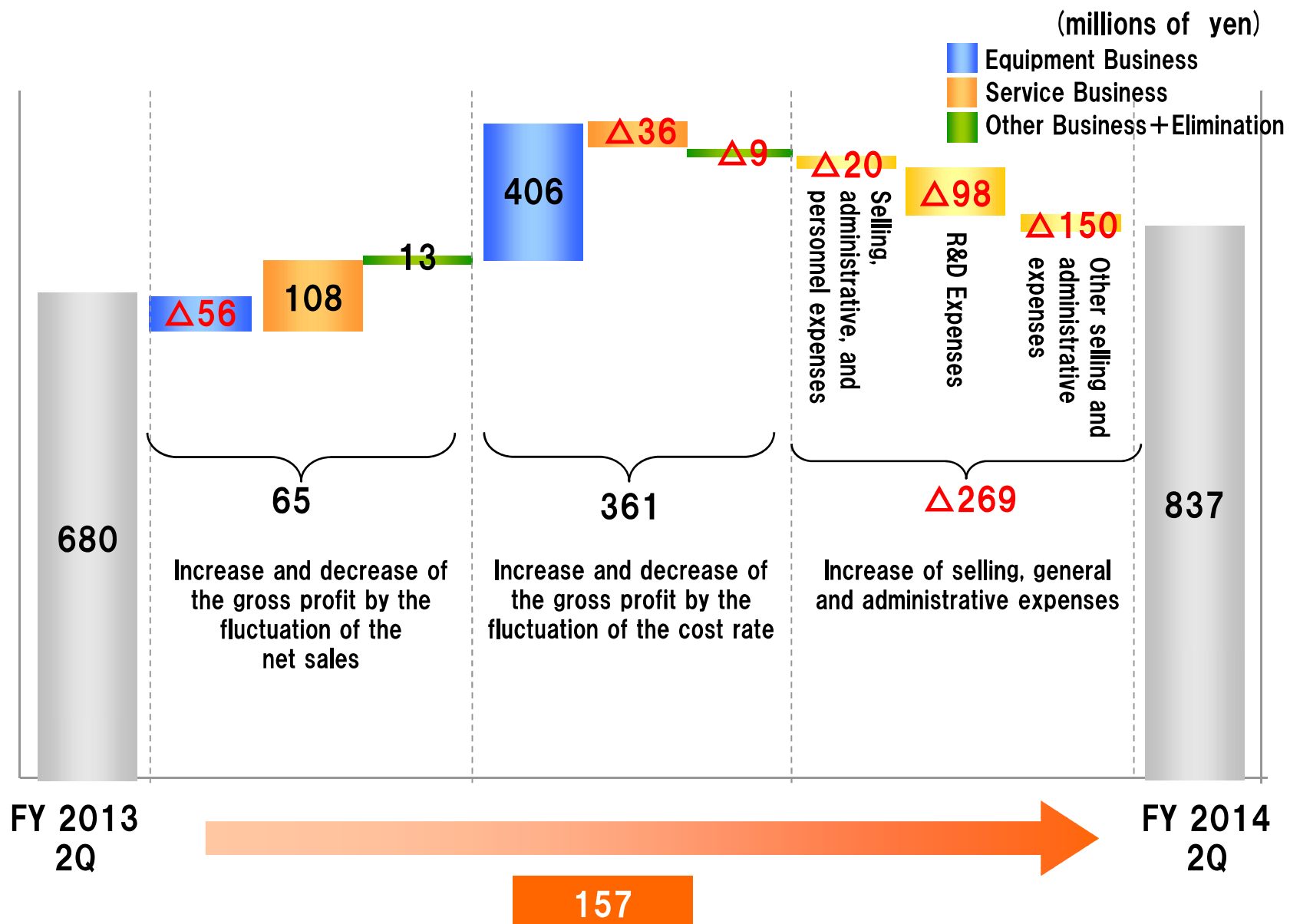
Financial Highlights

- Orders received increased year on year in all business segments.
- Sales increased slightly year on year on the back of an increase in sales in overseas markets, despite a small decline in the Japanese market.
 - Japan Highly versatile standard products performed robustly. Customized products were unable to reach the level achieved in the same period of the previous year, when they sold briskly.
 - Overseas China and Asia exports were firm, but sales at Chinese subsidiaries were unchanged from the same period of the previous year. In Europe and the U.S., exports to Europe were strong and U.S. subsidiaries performed strongly in the automobile market.
- Operating income rose 23.1% year on year due to a robust performance by highly versatile standard products with high operating income ratios.
- As initially planned, the company's interim dividend was 7 yen per share.

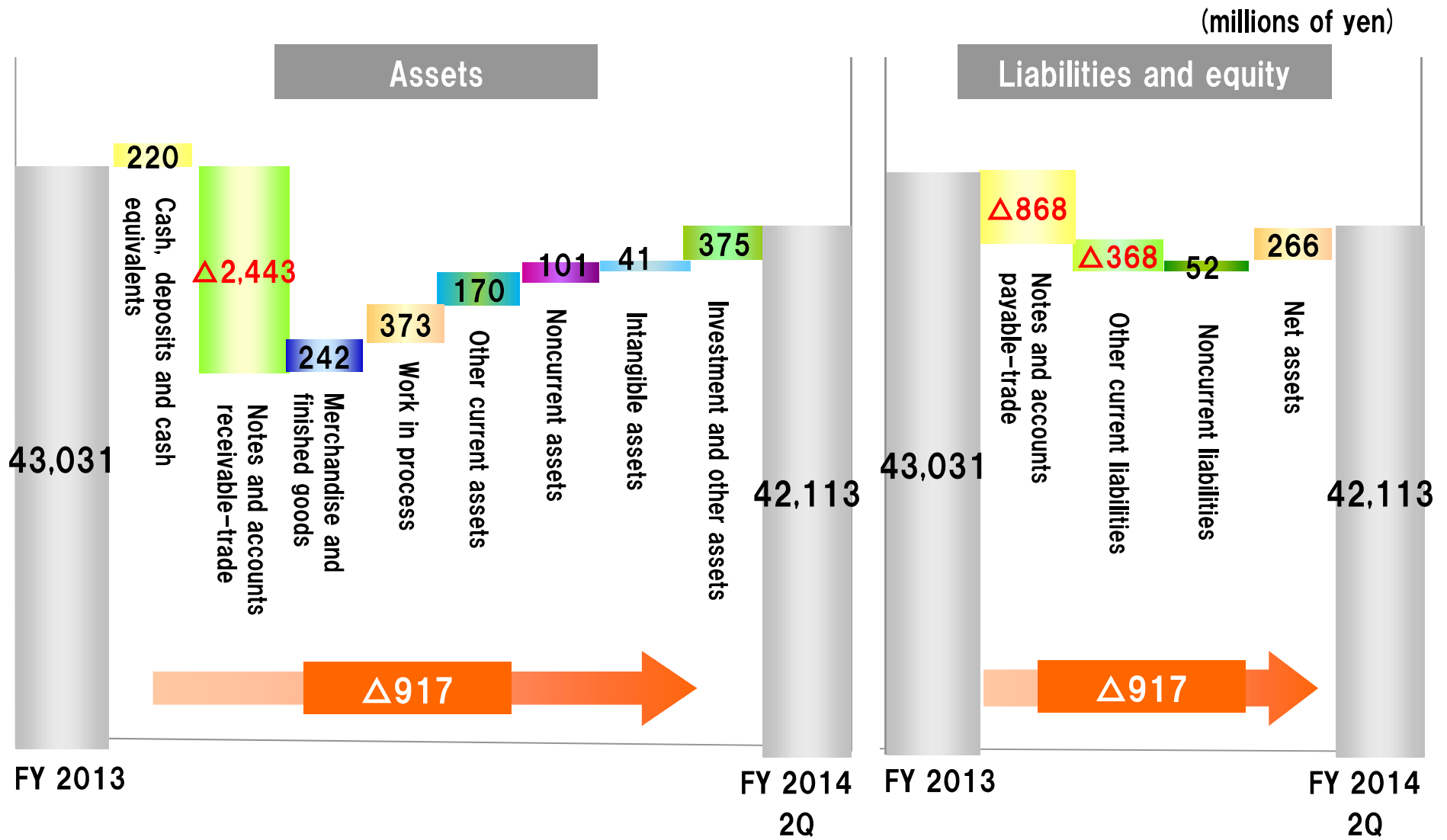
Summary of Profits and Losses

	FY 2013 2Q	FY 2014 2Q	Rate of Change	(millions of yen) Plan (Beginning of the period)
Orders-Received	15,551	17,418	12.0%	16,500
Net sales	14,039	14,196	1.1%	15,000
Cost of Net Sales	9,250 (65.9%)	8,981 (63.3%)	Δ2.9% (Δ2.6pt)	9,950 (66.3%)
Gross profit	4,788	5,215	8.9%	5,050
SG & A	4,108	4,377	6.6%	4,350
Operating income	680	837	23.1%	700
Ordinary income	811	953	17.5%	750
Quarterly net income	503	590	17.2%	400

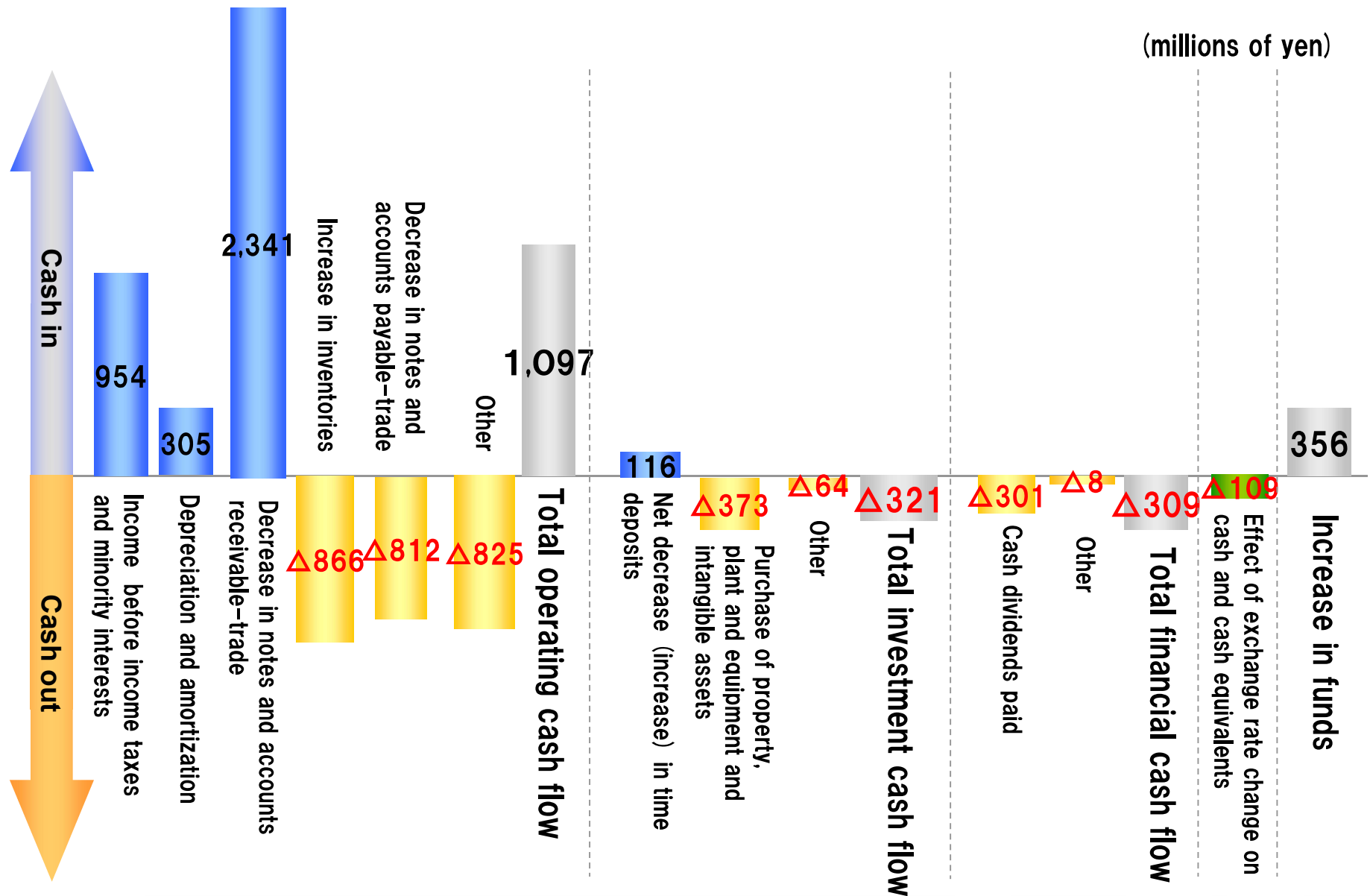
Analysis of Operating Income Increase and Decrease Factor



Analysis of Assets and Liabilities Increase and Decrease Factor



Statement of Cash Flow



Analysis per Segment for the Second Quarter of Fiscal Ending March 31, 2015

Performance by Segment

		(millions of yen)			
Segment		FY 2013 2Q	FY 2014 2Q	Rate of Change	Plan (Beginning of the period)
Equipment Business	Orders-Received	12,682	14,004	10.4%	13,500
	Net Sales	11,320	11,166	△1.4%	12,150
	Operating Income	575	698	21.5%	550
Service Business	Orders-Received	2,493	2,860	14.7%	2,600
	Net Sales	2,306	2,594	12.5%	2,450
	Operating Income	177	186	5.0%	200
Other Business	Orders-Received	464	678	46.0%	500
	Net Sales	496	553	11.3%	500
	Operating Income	△72	△47	—	△50
Elimination	Orders-Received	△88	△124	—	△100
	Net Sales	△84	△118	—	△100
	Operating Income	0	0	—	0
Total	Orders-Received	15,551	17,418	12.0%	16,500
	Net Sales	14,039	14,196	1.1%	15,000
	Operating Income	680	837	23.1%	700

Equipment Business

Environmental Test Chambers

- In the Japanese market, sales decreased.
 - Sales and orders of highly versatile standard products both increased from the same period of the previous year.
 - Customized products saw brisk orders, but sales did not match the robust sales seen in the same period of the previous year.
- In overseas markets, sales increased.
 - Exports to China were firm and Chinese subsidiaries performed to about the same level as the same period of the previous year. Exports to Europe and performance at U.S. subsidiaries were brisk.
- Overall, both the amount of orders received and sales increased from the previous year.

Energy Device Equipment

- Won orders for Charge-Discharge Evaluation Systems for secondary batteries for automobiles.
- Power semiconductor evaluation equipment performed firmly and overall, both the amount of orders received and sales increased from the previous year.

Semiconductor Equipment

- Due in part to orders from certain semiconductor and automotive-related manufacturers, the amount of orders-received was on par with the previous year.
- Sales performed well but did not reach the robust level of the same period of the previous year.

FPD Equipment

- Since there were few large orders, both orders-received and sales decreased.

Equipment Business

(millions of yen)

	FY 2013 2Q	FY 2014 2Q		Plan (Beginning of the period)
			Rate of Change	
Orders- Received	12,682	14,004	10.4%	13,500
Net Sales	11,320	11,166	Δ1.4%	12,150
Operating Income [Profit ratio (%)]	575 [5.1%]	698 [6.3%]	21.5%	550 [4.5%]

Service Business

(millions of yen)

	FY 2013 2Q	FY 2014 2Q		Plan (Beginning of the period)
			Rate of Change	
Orders- Received	2, 493	2, 860	14. 7%	2, 600
Net Sales	2, 306	2, 594	12. 5%	2, 450
Operating Income [Profit ratio (%)]	177 [7. 7%]	186 [7. 2%]	5. 0%	200 [8. 2%]

After-sales Service and Engineering

- Customers relaxed their grip on expense reduction and overall, both the amount of orders received and sales increased from the previous year.

Commissioned Tests and Facility Rentals

- In the core test consulting operation, robust performance in the automobile market resulted in an overall increase in both the amount of orders received and sales from the previous year.

Other Business

(millions of yen)

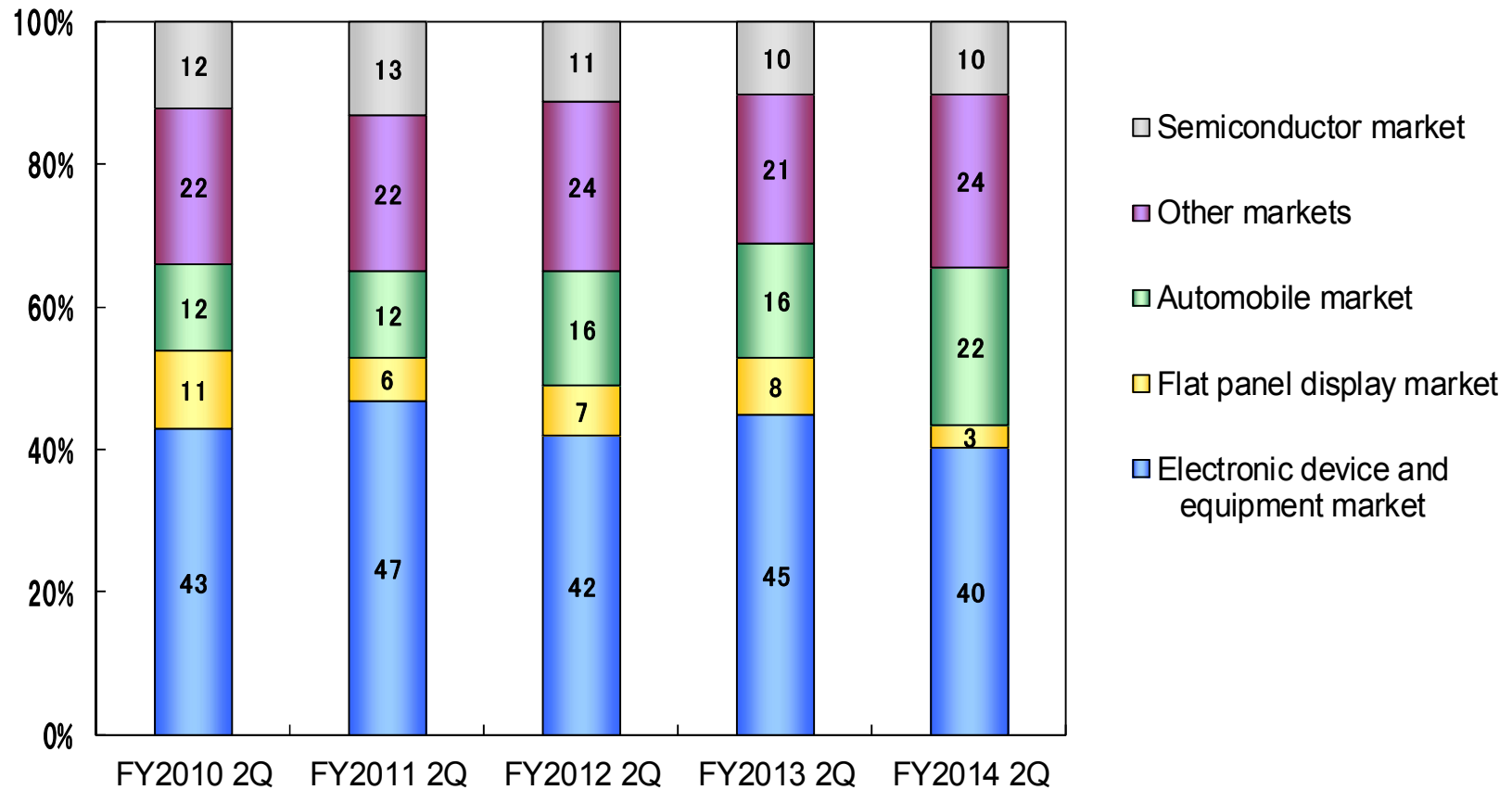
	FY 2013 2Q	FY 2014 2Q		Plan (Beginning of the period)
			Rate of Change	
Orders- Received	464	678	46.0%	500
Net Sales	496	553	11.3%	500
Operating Income [Profit ratio (%)]	Δ72 [Δ14.6%]	Δ47 [Δ8.6%]	—	Δ50 [Δ10.0%]

Environmental Engineering and Plant Factory

- In environmental engineering, the reforestation (tree planting) and plant factory businesses performed favorably.
- Overall, both the amount of orders received and sales increased from the previous year.

Breakdown of Sales by Market

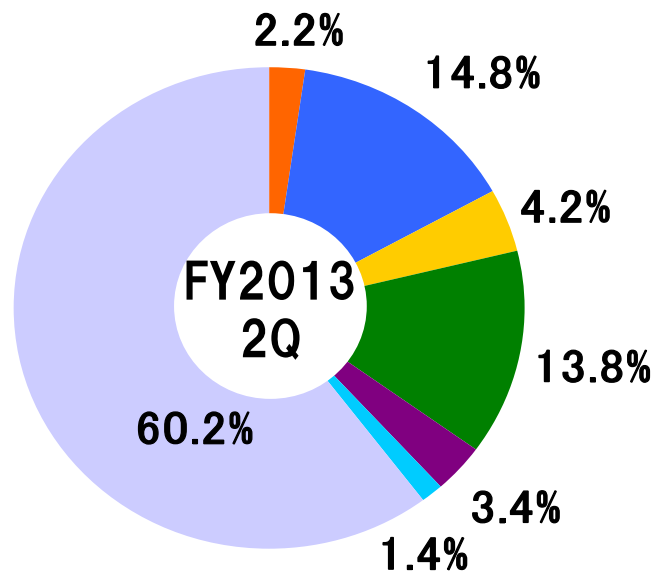
Non-consolidated (Equipment business)



Sales by Region

FY 2013 2Q

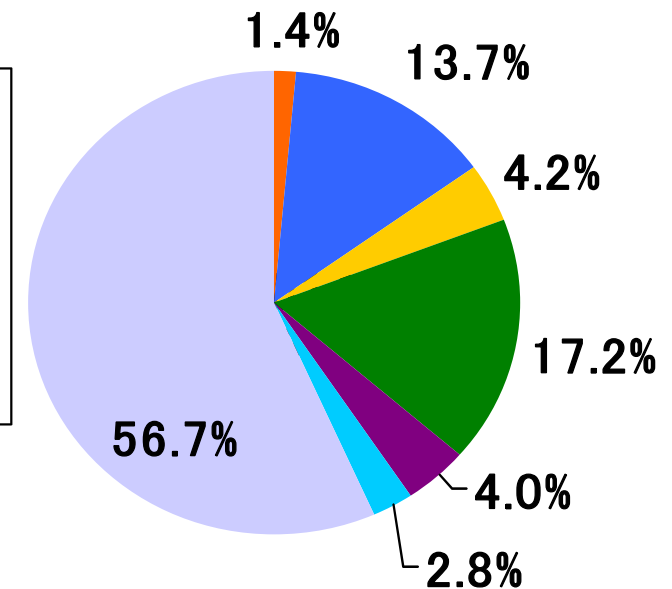
Overseas sales ratio: 39.7%



Total: 14,039 million yen
(Overseas sales: 5,580 million yen)

FY 2014 2Q

Overseas sales ratio: 43.3%



Total: 14,196 million yen
(Overseas sales: 6,142 million yen)

Business Plan for the Fiscal Ending March 31, 2015

Business Plan for the Fiscal Ending March 31, 2015

(millions of yen)

	FY 2013	FY 2014 (Revised Plan)				
	Fiscal (Results)	2Q (Results)	Second half (Plan)	Fiscal (Plan)	Year on Year (%)	Fiscal (Beginning of the period)
Orders-received	31,760	17,418	17,582	35,000	10.2%	34,000
Net sales	32,099	14,196	18,804	33,000	2.8%	33,000
Gross profit [Profit ratio (%)]	10,731 [33.4%]	5,215 [36.7%]	6,215 [33.1%]	11,430 [34.6%]	6.5%	11,430 [34.6%]
Operating income (loss) [Profit ratio (%)]	2,077 [6.5%]	837 [5.9%]	1,463 [7.8%]	2,300 [7.0%]	10.7%	2,300 [7.0%]
Ordinary income (loss) [Profit ratio (%)]	2,370 [7.4%]	953 [6.7%]	1,447 [7.7%]	2,400 [7.3%]	1.3%	2,400 [7.3%]
Net Income [Profit ratio (%)]	1,570 [4.9%]	590 [4.2%]	1,010 [5.4%]	1,600 [4.8%]	1.9%	1,600 [4.8%]
Capital expenditures	1,115	548	652	1,200	7.6%	800
Depreciation expenses	562	301	394	695	23.7%	695
R&D expenditures	951	585	625	1,210	27.2%	1,210
Profit Per Share (yen)	67.52	25.38	43.41	68.79	1.9%	68.79

Equipment Business

(millions of yen)

	FY 2013	FY 2014 (Revised Plan)				
	Fiscal (Results)	2Q (Results)	Second half (Plan)	Fiscal (Plan)	Year on Year (%)	Fiscal (Beginning of the period)
Orders-received	25,271	14,004	14,396	28,400	12.4%	27,400
Net sales	25,831	11,166	15,434	26,600	3.0%	26,600
Operating income [Profit ratio (%)]	1,625 [6.3%]	698 [6.3%]	1,102 [7.1%]	1,800 [6.8%]	10.8%	1,800 [6.8%]

Service Business

(millions of yen)

	FY 2013	FY 2014 (Unrevised)			
	Fiscal (Results)	2Q (Results)	Second half (Plan)	Fiscal (Plan)	Year on Year (%)
Orders-received	5,288	2,860	2,540	5,400	2.1%
Net sales	5,168	2,594	2,706	5,300	2.5%
Operating income [Profit ratio (%)]	504 [9.8%]	186 [7.2%]	314 [11.6%]	500 [9.4%]	Δ0.9%

Other Business

(millions of yen)

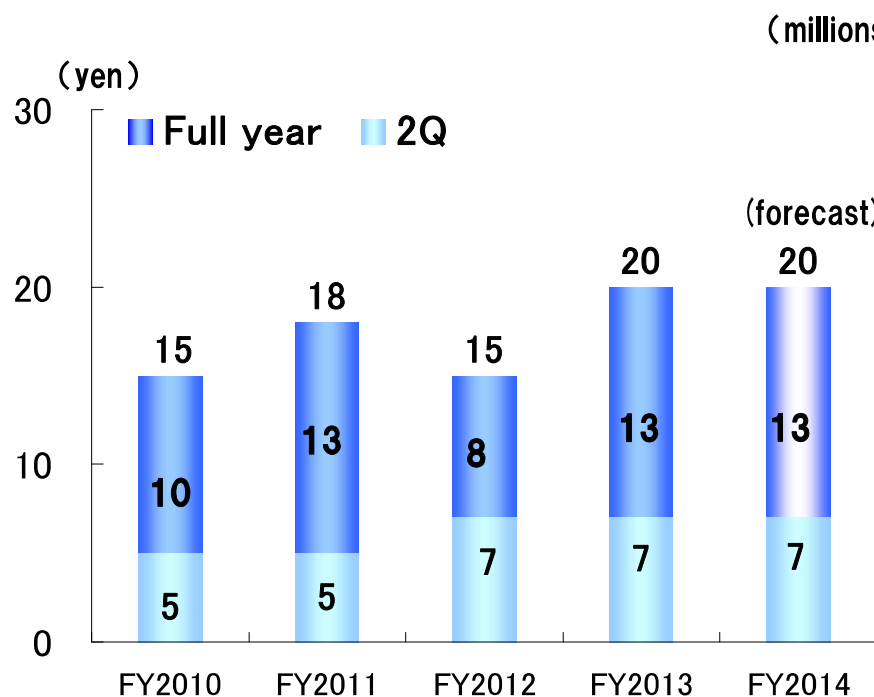
	FY 2013	FY 2014 (Unrevised)			
	Fiscal (Results)	2Q (Results)	Second half (Plan)	Fiscal (Plan)	Year on Year (%)
Orders-received	1,375	678	722	1,400	1.8%
Net sales	1,267	553	747	1,300	2.6%
Operating income [Profit ratio (%)]	Δ52 [Δ4.1%]	Δ47 [Δ8.6%]	47 [6.3%]	0 [0.0%]	—

Dividends

Dividend policy

Recognizing that passing on profits to our shareholders is a key priority and that raising corporate value on a lasting basis is fundamental to raising shareholder value, dividends are decided taking into account sustainability and the dividend payout ratio.

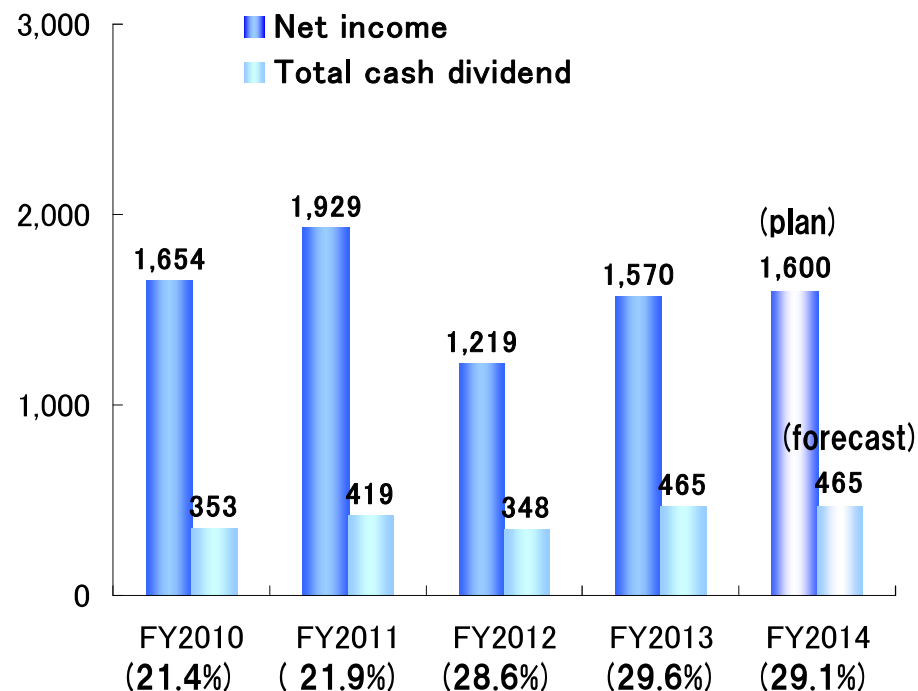
Dividend per share



Net income and total cash dividend

*Consolidated dividend payout ratio in parentheses.

(millions of yen)



**“Progressive Plan 2017”
Medium-term Management Plan
from fiscal 2014 to fiscal 2017**

Business vision “ESPEC VISION 2025”



The Company's Operating Environment

Japanese market

- Hollowing out of the manufacturing industry has slowed, but domestic recovery cannot be depended upon.
- Active investment will continue in the field of state-of-the-art technological development, such as for eco cars.

Overseas markets

- Japanese companies continue to transfer development and manufacturing bases to ASEAN countries and India.
- Asia leads the global economy.

Growth markets

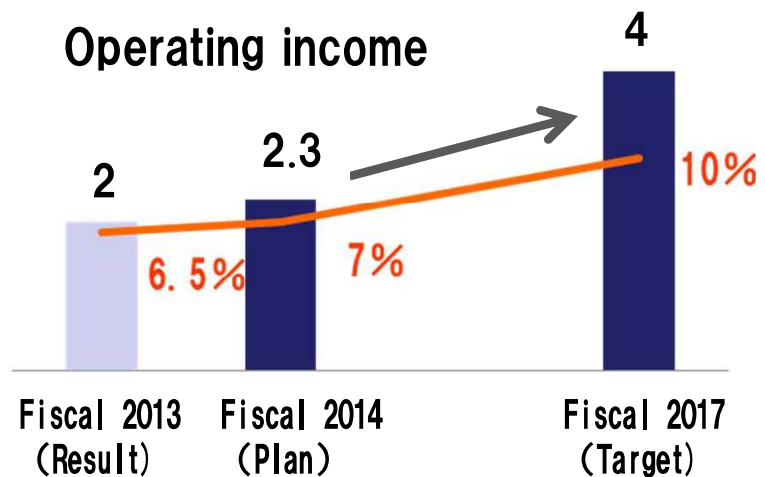
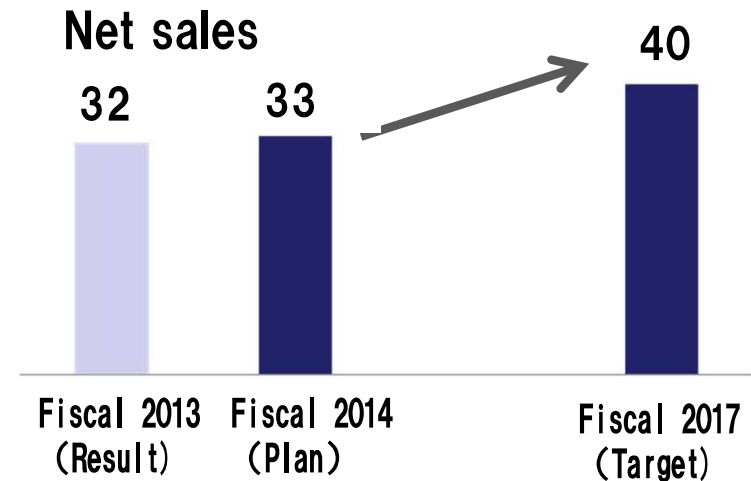
- Green innovation
(Eco cars, secondary batteries, fuel cells, power semiconductors, etc.)
- Life innovation
(Advanced medical care, pharmaceuticals, plant factories, food, etc.)

Progressive Plan 2017 (fiscal 2014 to fiscal 2017)

Targets for Consolidated Revenues and Earnings

Fiscal 2017
Net sales over 40.0 billion yen

Fiscal 2017
Operating income over 4.0 billion yen
Operating income ratio over 10%



Three Directions for Growth

1. Overseas markets

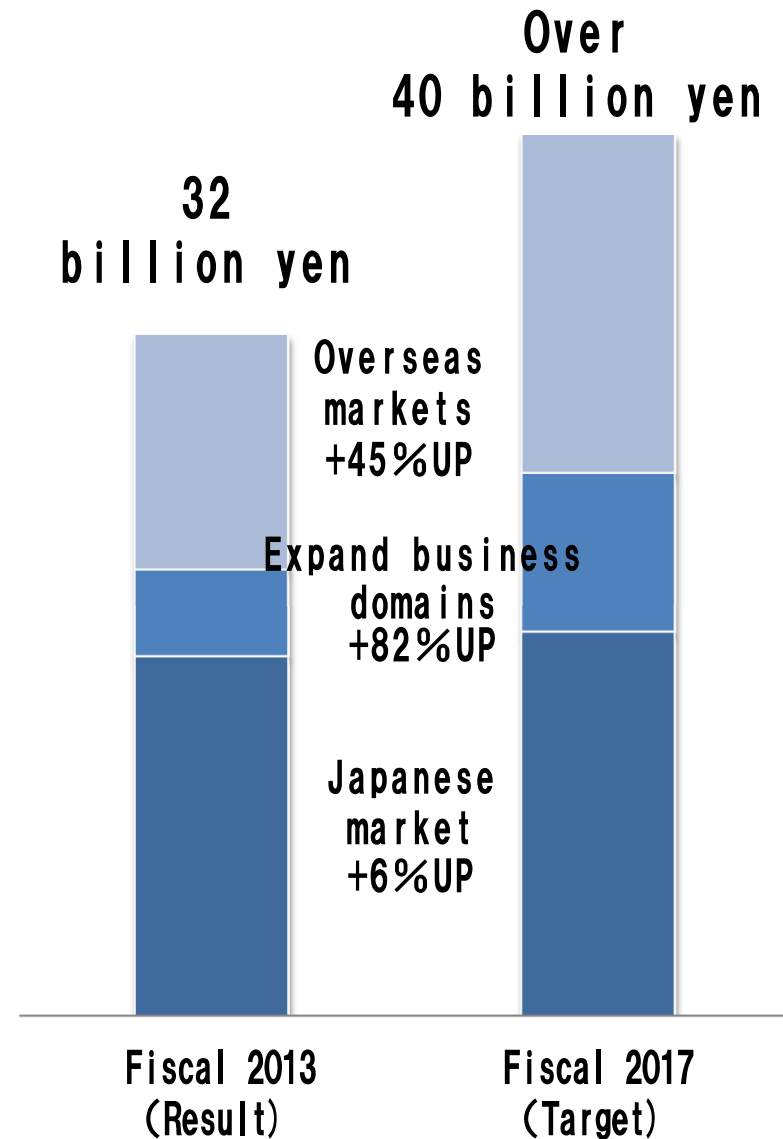
Strengthen Group alliances to increase sales in growing countries and regions

2. Expand business domains

Expand business domains targeting growing and strategic markets

3. Japanese market

Take the lead in the domestic environmental testing business



1. Expand sales in overseas markets

ASEAN countries and India



- ★Bolster after-sales service bases
- ★Newly establish commissioned test centers
- ★Newly establish sales bases

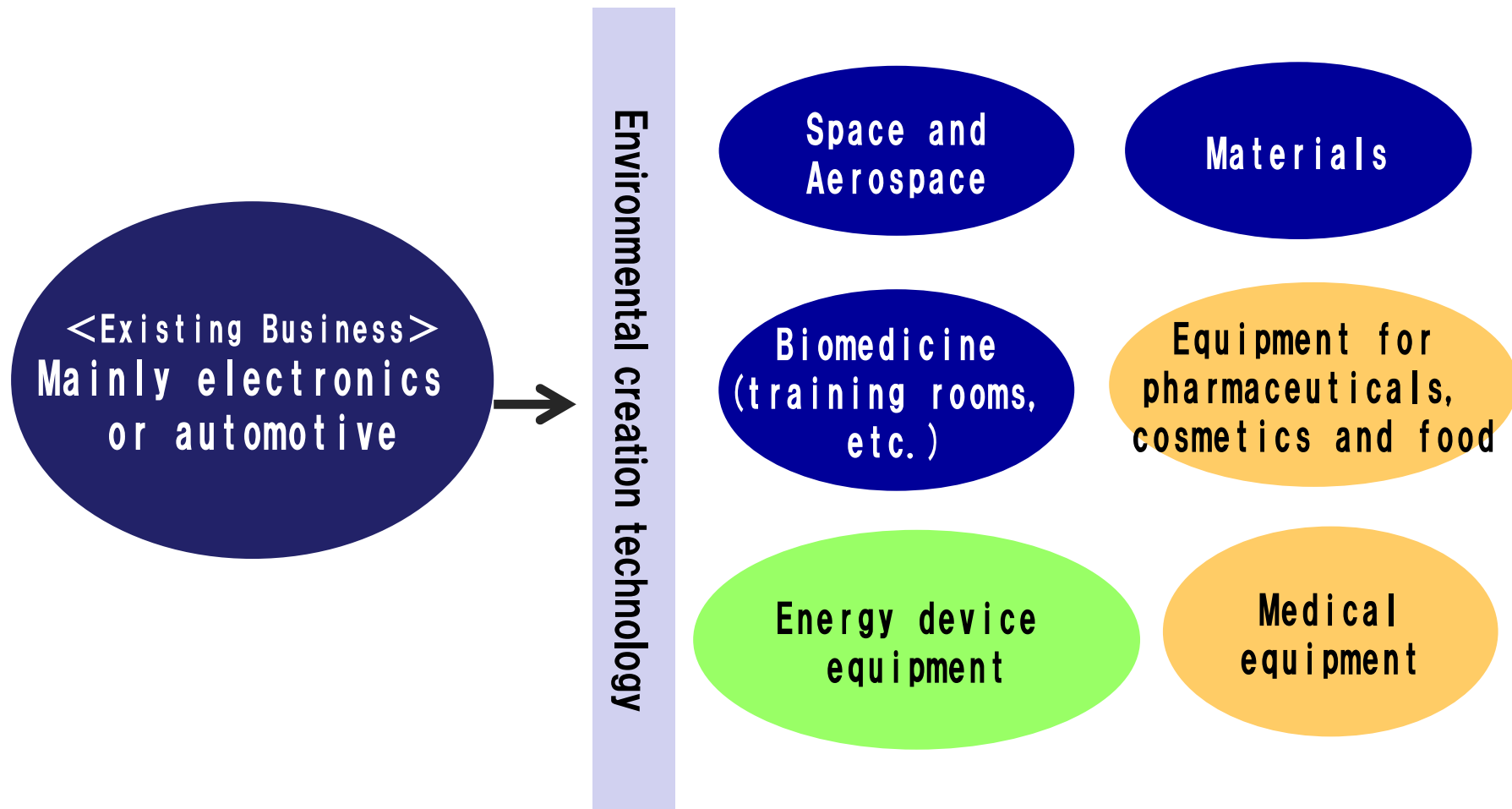
1. Expand sales in overseas markets

China



★Strengthen production capacity and expand sales of ESPEC TEST EQUIPMENT (GUANGDONG) CO., LTD

2. Expand business domains



2. Expand business domains

Energy Device Equipment

Market: secondary batteries, power semiconductors, fuel cells, Solar battery

- Expand the lineup of secondary battery evaluation equipment
- Enhance commissioned test services
- Start verification services



Advanced battery tester



LIB safety evaluation system

Business alliance with TÜV SÜD Japan

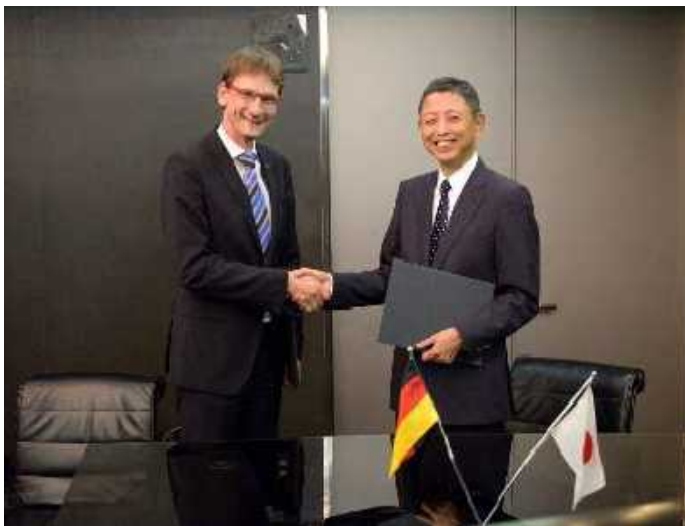
Secondary batteries for eco cars at ESPEC' s Energy Device Environmental Test Center
One-stop provision of testing and verification services compliant with UN-agreed regulations

Contract date: October 10, 2014

Service start: April 2015 (scheduled)



ESPEC



Signing ceremony



Energy Device Environmental Test Center

2. Expand business domains

Food and Drug markets

Market: Pharmaceuticals, Cosmetics, Foods, medical equipment

- Enhance products and services for the pharmaceutical market
- Advance into the cosmetics and food fields in products for the pharmaceutical market
- Enter the medical equipment testing field



Walk-in Stability Test Chamber



Stability Test Chamber

3. Win to survive in the domestic environmental testing business

Enhance customer value
in the environmental
testing business

Strengthen competitiveness through
original products and services

- Promote original services utilizing networks
- Change and expand standard product models



Bench-Top Type Temperature &
Humidity Chamber



Walk-in type temperature & humidity
chamber (Customized products)

Strengthen capability
for responding to
customization needs

Expand the scope of customized products

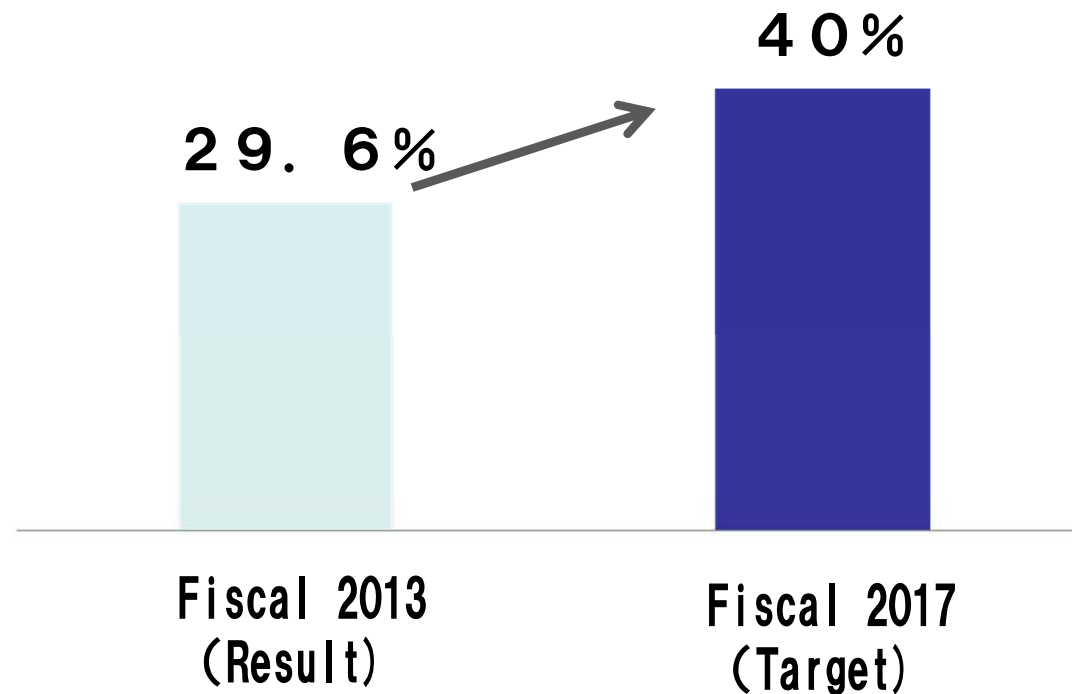
- Promote module standardization
- Strengthen collaboration with other companies



Thermal shock chamber
(Customized products)

Strengthen returns to shareholders

Dividend payout ratio target 40%



Quality is more than a word

ESPEC

These materials contain forward-looking statements, including the Company's present plans and forecasts of performance, that reflect the Company's plans and forecasts based on the information presently available. These forward-looking statements are not guarantees of future performance, and plans, forecasts, and performance are subject to change depending on future conditions and various other factors.

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Jyunko Nishitani

General Manager

Corporate Communication Department

Natsuko Okawa

Corporate Communication Department

Reference

History of Environmental Test

What is Environmental Test

Test to analyze and evaluate effects of environmental factors such as temperature, humidity, pressure, and light on various industrial products like electronic components in order to ensure product quality.

<1950s>

The environmental test was JIS-standardized in Japan for consumer products.



<1970s-1990s>

"Reliability" and "quality control" became important issues in product development. Demand increased dramatically due to a rapid shift toward computerization and the use of electronic components.



<Today>

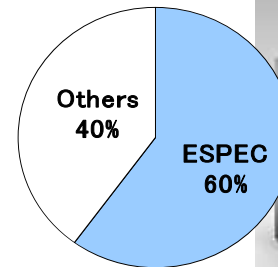
Demand has been growing in new energy sectors such as secondary batteries and solar batteries.



1961 Japan's First Environmental Test Chamber



【 Low temperature & humidity chamber "Lucifer" 】



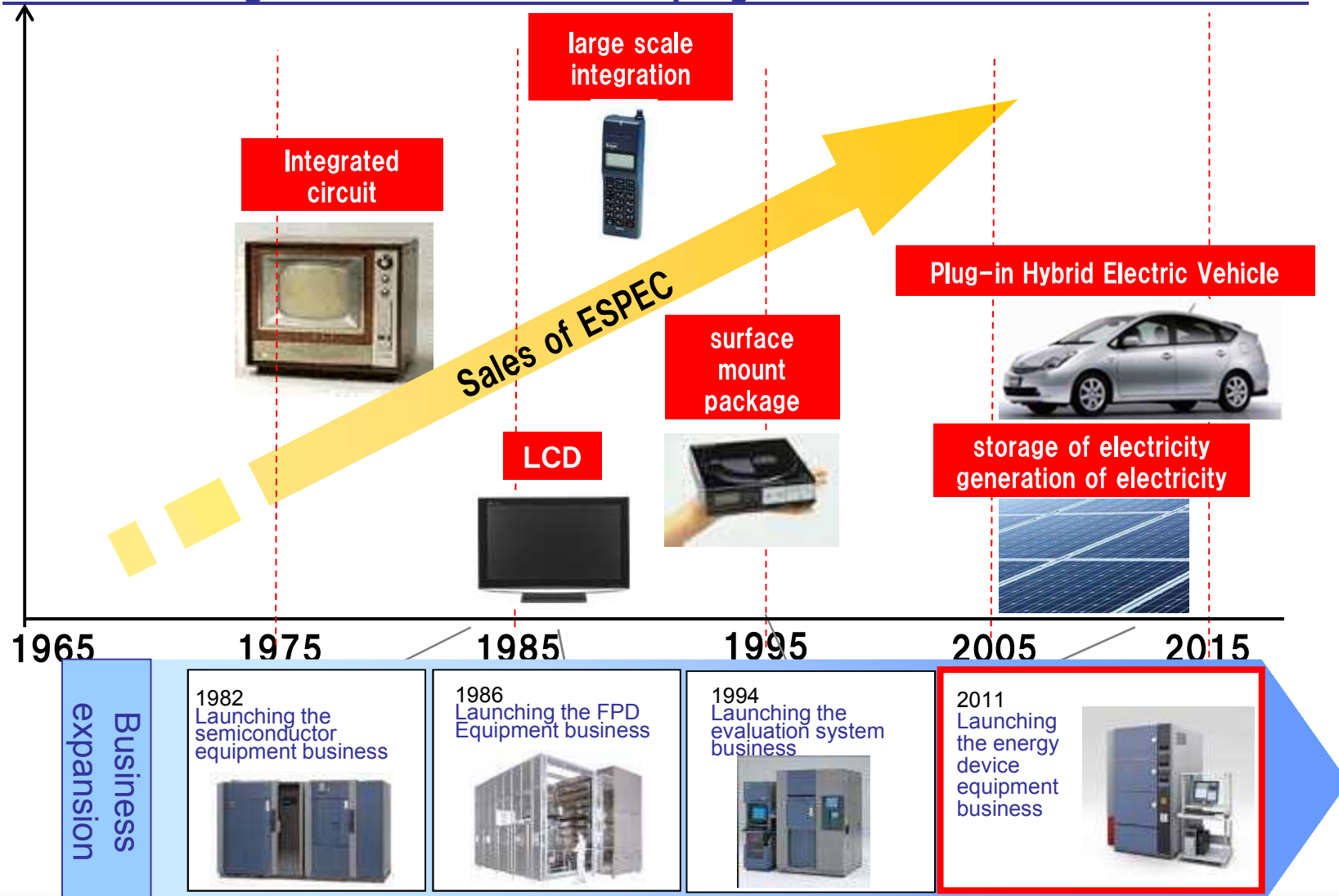
To Domestic Market Share No.1



【 Temperature & humidity chamber "Platinous J series" 】

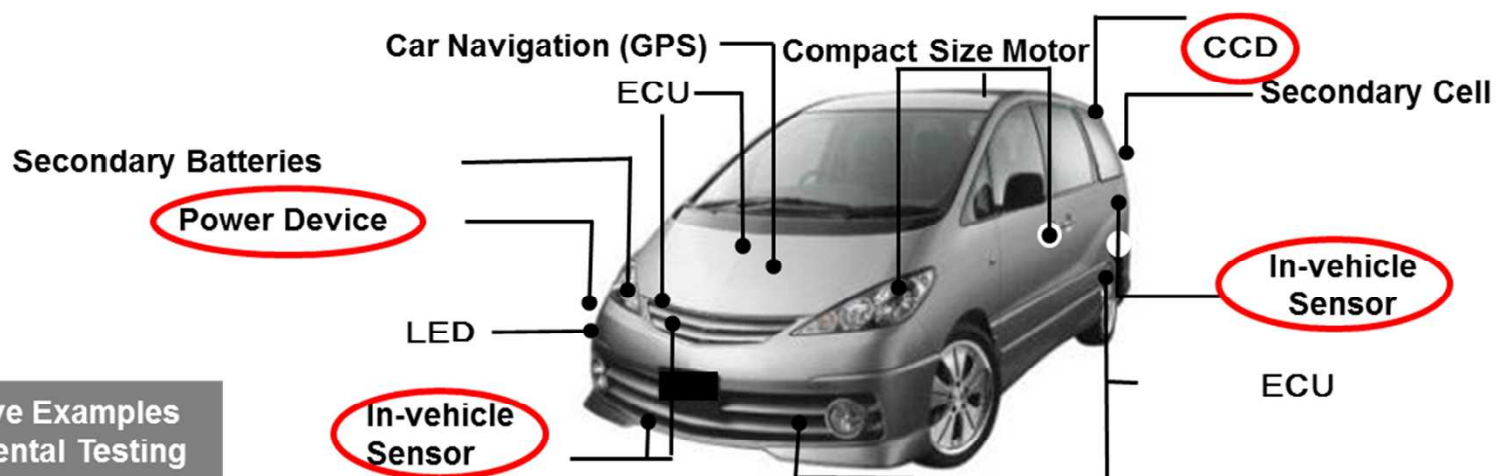
Transition in Business

Expanding business based on the “environmental creation technology” refined during the course of developing environmental test chambers






[Equipment Business]

Usage Case with Environmental Test Chambers



Representative Examples for Environmental Testing

Device	Process/Test Condition		Our Products
【Power Device】 	Inspection	■ Thermal shock test: $-40^{\circ}\text{C} \Leftrightarrow +125^{\circ}\text{C}$	Thermal shock chamber
		■ High temperature exposure: $+175^{\circ}\text{C}$, $+85^{\circ}\text{C}$	(Compact size) Oven
		■ Burn-in test	Burn-in chamber
【In-vehicle Sensor】 	Inspection	■ Temperature cycle test of printed circuit board: $-40^{\circ}\text{C} \Leftrightarrow +110^{\circ}\text{C}$	Temperature & humidity chamber (Platinous) /Oven
		■ Temperature characteristic test after soldering: Linear change between -30°C and $+85^{\circ}\text{C}$	Burn-in chamber, Rapid-rate thermal cycle chamber
	Evaluation	■ Thermal shock test : $-30^{\circ}\text{C} \Leftrightarrow \text{RT} \Leftrightarrow +80^{\circ}\text{C}$, $-55^{\circ}\text{C} \Leftrightarrow +155^{\circ}\text{C}$	Thermal shock chamber
【CCD/CMOS】 	Production	■ Diffusion Test: $+150^{\circ}\text{C}$	Compact size Oven
		■ Drying after cleaning: $+85^{\circ}\text{C}$	Clean Oven
	Evaluation	■ Screening: $+85^{\circ}\text{C}$	Temperature chamber (Platinous) / Burn-in chamber
	Inspection	■ Temperature and humidity test: $+85^{\circ}\text{C} / +85\% \text{rh}$, $+60^{\circ}\text{C} / 90\% \text{rh}$	Temperature & humidity chamber (Platinous)
		■ Acceleration test: $+120^{\circ}\text{C} / 100\% \text{rh}$	HAST chamber
	■ Thermal shock test : $-40^{\circ}\text{C} \Leftrightarrow +125^{\circ}\text{C}$, $-20^{\circ}\text{C} \Leftrightarrow +85^{\circ}\text{C}$	Thermal shock chamber	

[Equipment Business] Introduction of New Products

Release Date	Name of product	Features
2014/7	Constant Climate Cabinet	<ul style="list-style-type: none"> • 100 V/15 A usable
2014/7	Compact Ultra Low Temperature Chamber	<ul style="list-style-type: none"> • Precise control from -85°C to 180°C
2014/5	Stability Test Chamber/ Walk-in Stability Test Chamber	<ul style="list-style-type: none"> • Total lineup of 9 models • Complies with international standards
2013/11	Bench-Top Type Temperature (& Humidity) Chamber	<ul style="list-style-type: none"> • Ease of system configuration • Enhanced network-based functions
2012/12	Advanced Battery Tester Enhance the product lineup	<ul style="list-style-type: none"> • Charge-discharge evaluation systems for Secondary batteries • Increasing test processing volume and test current
2012/5	Vacuum Oven	<ul style="list-style-type: none"> • Saving energy up to 40% • Ease of customization
2012/5	Stability test chamber	<ul style="list-style-type: none"> • (First in the industry) $\pm 2^{\circ} \text{C} \pm 5\%$ guarantee for the temperature/humidity settings
2012/3	Temperature (& Humidity) Chamber Platinous J Series Addition of 6 type	<ul style="list-style-type: none"> • Full lineup
2011/11	Thermal Shock Chamber TSA Series EH Type	<ul style="list-style-type: none"> • Saving energy up to 50% • Increasing the reliability of refrigeration circuits
2011/10	Temperature (& Humidity) Chamber Platinous J Series	<ul style="list-style-type: none"> • Saving energy up to 70% • Ease of customization • Extensibility of functions (e.g., telecommunications networks)

[Equipment Business] TOPICS

Bench-top Type Temperature (and Humidity) Chamber wins 2014 Good Design Award

The Bench-top Type Temperature (and Humidity) Chamber has followed on from the Platinous J series of temperature and humidity chambers and won a Good Design Award.

Design features rated highly were incorporating the features in a compact body, thereby making the environmental testing chamber accessible to the researchers or engineers who use it, and the sense unified design between the main device and numerous optional extras.



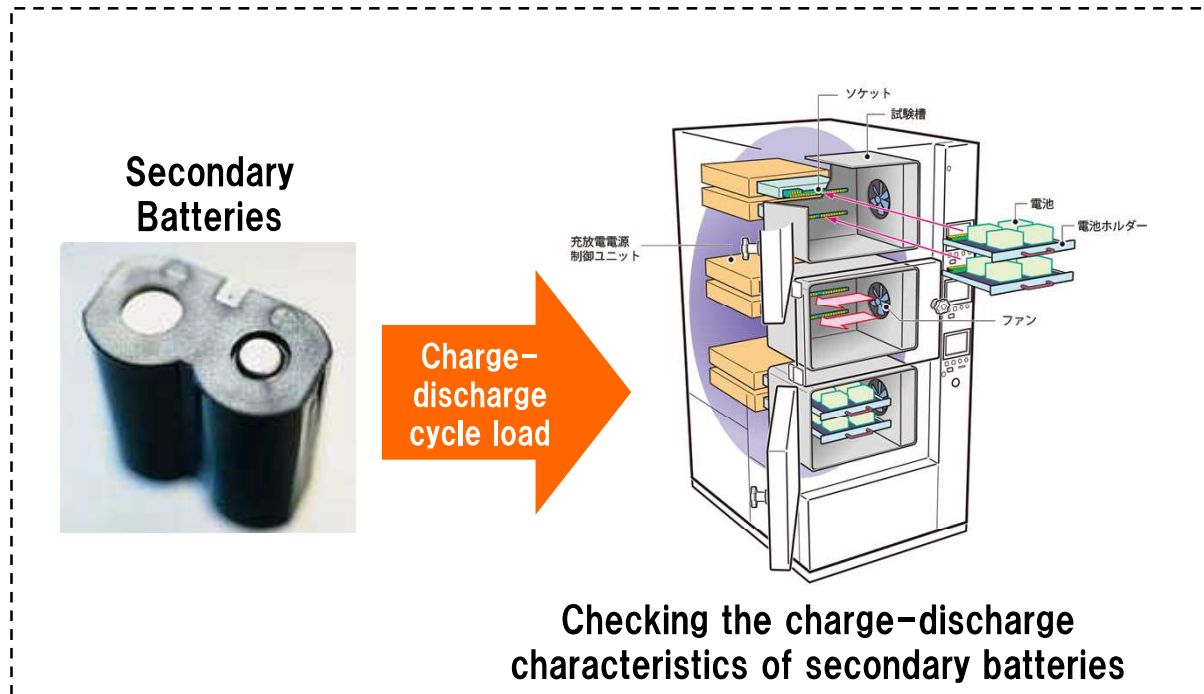
[Equipment Business] Usage Case with Energy Device Equipment

Charge-discharge Cycle Evaluation Equipment

Equipment for ensuring the reliability and safety of lithium-ion secondary batteries for next-generation vehicles (e.g., hybrid and electric vehicles)



Charge-discharge Cycle Evaluation Equipment



Evaluating the performance and life of secondary batteries

[Equipment Business]

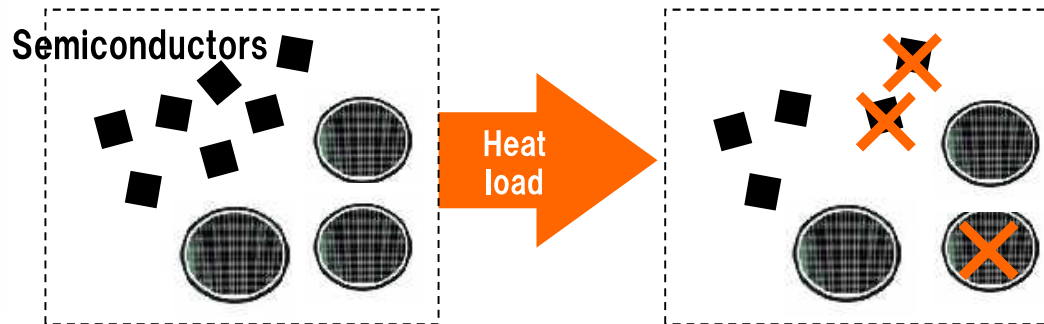
Usage Case with Semiconductor Equipment

Screening

Eliminate defective products to maintain initial-period quality at the final inspection stage of semiconductor device manufacturing



Burn-in chamber



Elimination of latent early failures

Reliability Evaluation

Used to evaluate basic failure patterns to ensure reliability in the development of new technologies

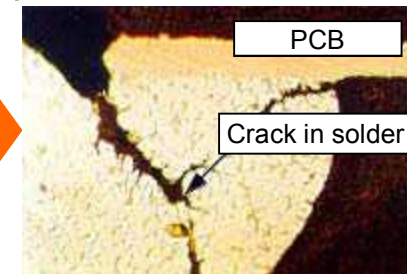


Conductor resistance evaluation system



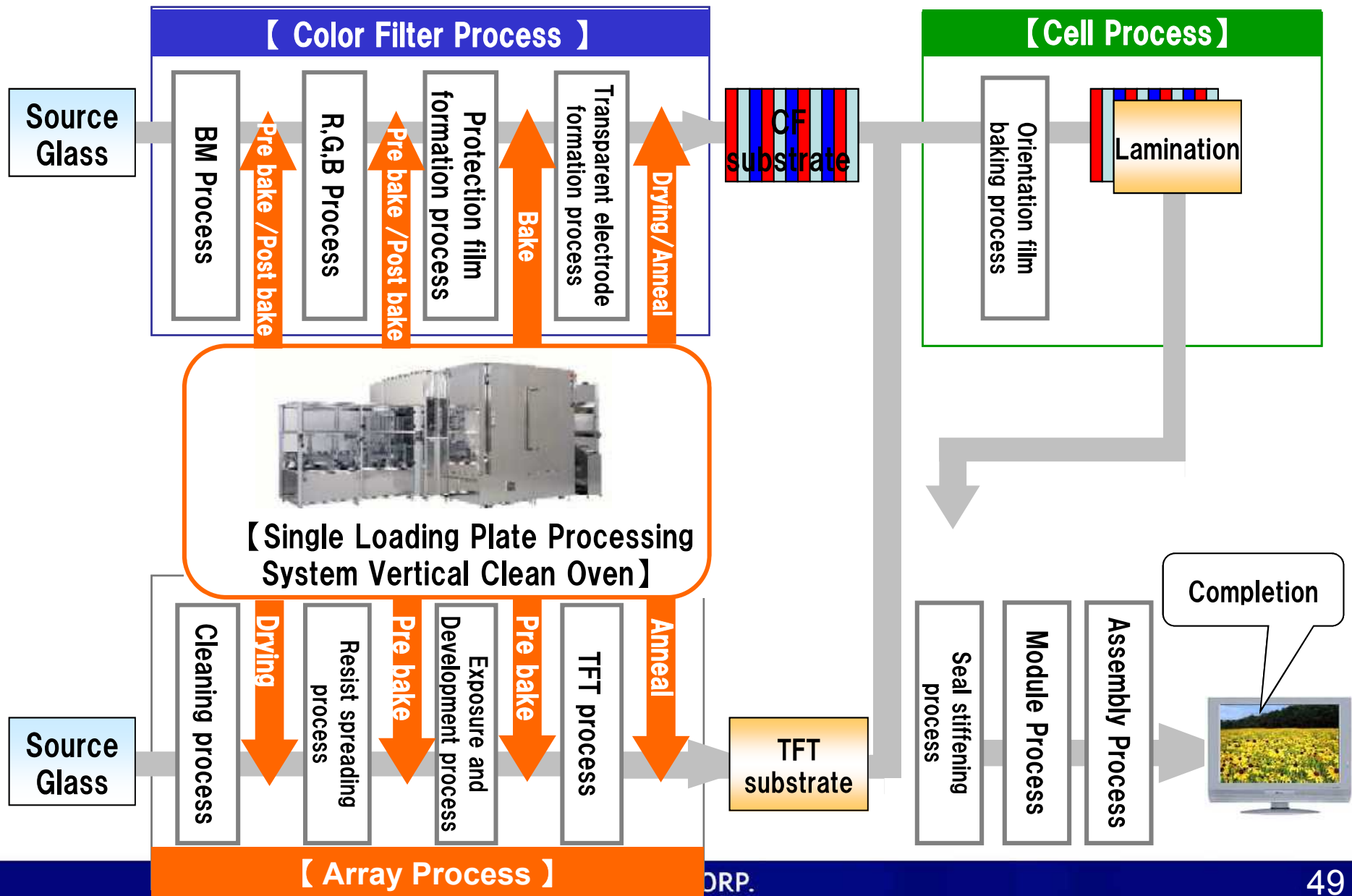
Heat cycle load

Example of defect in soldered joint



Electrical evaluation of reliability of joints in electronic parts

[Equipment Business] Usage Case with FPD Equipment



[Service Business]

After-sales Service and Engineering

Preventive maintenance of products, maintenance service, and the upgrading/improvement and installation/relocation of products

- Speedy response via one of the most extensive networks in Japan
- Launching new services by utilizing the network function mounted in the equipment
- Extending support through a full-fledged global framework, with distributors located in many countries

Commissioned Tests and Facility Rentals

Commissioning of testing, analysis, and evaluation; consulting; equipment rental; sales of used products; calibration of test equipment, etc.

- Meeting new test needs whenever they arise
 - Newly built the industry-first Energy Device Environmental Test Center (Exclusively for secondary batteries, power semiconductors, and solar batteries)
 - October 2010: Independent German test verification agency Business alliance with TÜV SÜD Japan to test the safety and verify services of secondary batteries used in cars
- The company has four commissioned test centers in Japan (Utsunomiya, Toyota, Kariya and Kobe).
 - These centers are IECQ-approved independent testing laboratories that meet ISO/IEC17025 standards.
 - The centers are also recognized as official calibration facilities under the Japan Calibration Service System (JCSS).



【Energy Device Environmental Test Center】

[Service Business] TOPICS

The first service of this kind in the world!
ESPEC ONLINE SUPPORT started in November 2013.

After-sales service calls:

from customers to the
manufacturer



breaking conventional wisdom

from the manufacturer to
customers



Customers



ESPEC

[Service Business] TOPICS

The Energy Device Environmental Test Center was established with the latest “first-in-the-world” equipment developed in-house.

In November 2013, the test center was established at the Utsunomiya Test Center.
This commissioned test center specializes in reliability and safety testing of energy devices.
(energy devices: secondary batteries, power semiconductors, and solar batteries)

<Examples of equipment introduced>



External short-circuit testing equipment
Capable of handling up to 24 kA current
(the first in the world)



Nail penetration/crush testing equipment
Capable of handling cells and battery packs

[Other Business]

Environmental Engineering Business

Environmental Engineering Business

■ Reforestation (Tree planting)

Recovery of local forest by selecting species and planting out seedlings using potential natural vegetation data.

■ Waterfront biotope restoration

Reconstruction of natural environment, development of vegetative revetments, and water quality improvement using aquatic plants.

■ Urban greening

Provision of roof and wall greening systems that use moss to effectively alleviate heat island effect.



Plant factory

Provision of various cultivation environments employing advanced environmental control technologies to control light, temperature, humidity, carbon dioxide, etc.



Container plant factory



Phyto-toron

[Other Business] TOPICS

Toward the reconstruction of areas affected by the earthquake, Kawauchi Highlands Agricultural Plant Growth Facility started operation in Kawauchi Village, Fukushima Prefecture.

The plant growth facility (100% artificial lighting type) was delivered by ESPEC MIC CORP. in collaboration with other manufacturers. Production of vegetables started to revitalize agriculture and create jobs in the disaster-stricken area.

