

# Presentation Materials for IR meeting

November 7, 2016

Section1 Business Update

Section2 Financial Results for the 2Q of FY2016



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## Vision for 2030

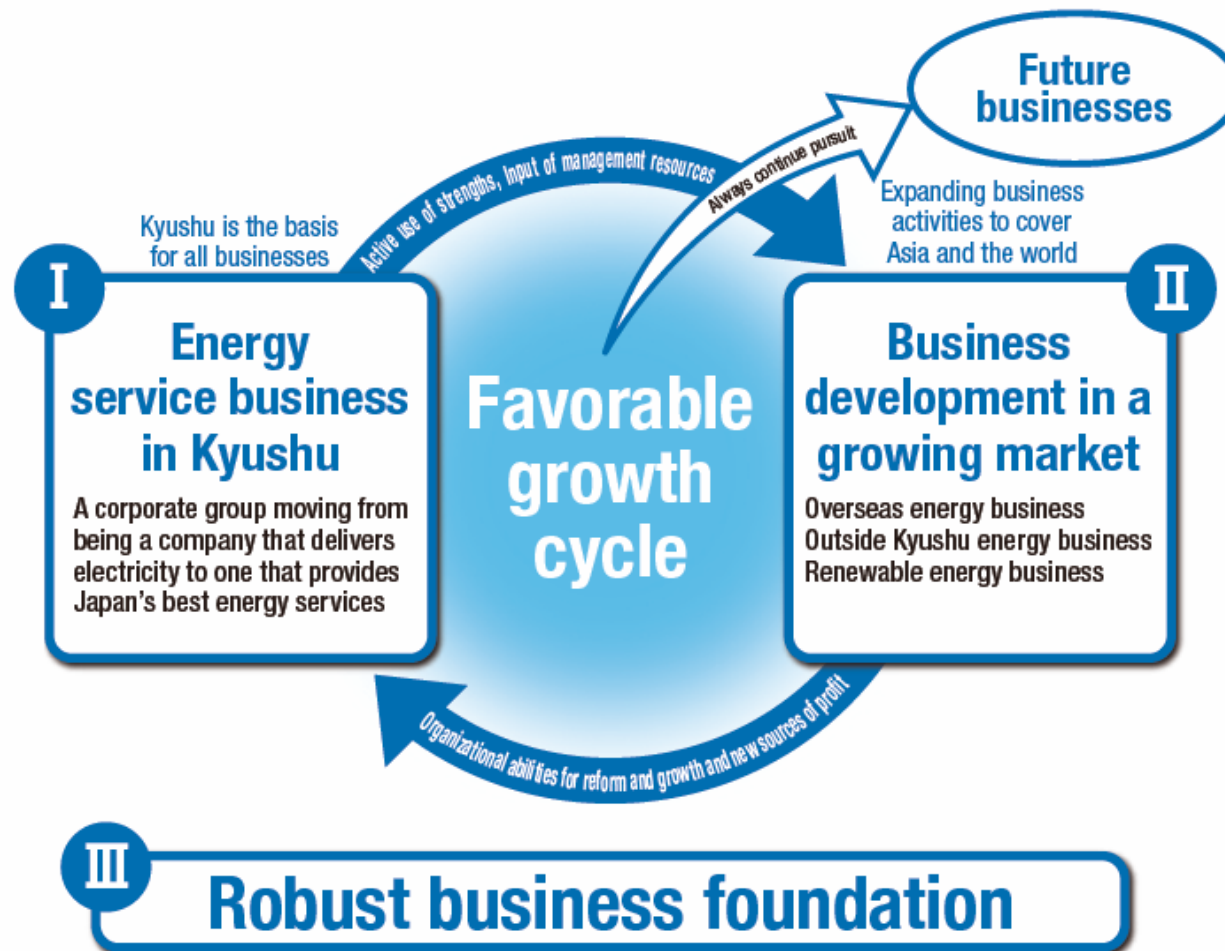
- o Various initiatives are underway to achieve becoming "the corporate group that provides Japan's best energy services" as "Vision for 2030" mentioned in the Kyuden Group's medium-term management plan set in April 2015.

## Vision for 2030

**Aiming to become a corporate group that  
provides Japan's best energy services**

**—Everyone eventually asks the Kyuden Group for energy!—**

<b>Services</b>	<ul style="list-style-type: none"><li>o Aim at Japan's highest level of customer satisfaction by providing diverse services including not only electrical power but also gas and other types of energy, focusing on customers more than any other company, and making swifter managerial decisions.</li></ul>
<b>Competitive power</b>	<ul style="list-style-type: none"><li>o Taking maximum advantage and further developing the strengths we have cultivated in various fields to acquire the technological capabilities that we can proudly claim as Japan's best in each field. (Examples include operation of power stations, geothermal development, and response to emergencies and disasters.)</li><li>o Aim at Japan's highest level of productivity through constant daily business improvements and reforms</li></ul>
<b>Organizational strength</b>	<ul style="list-style-type: none"><li>o Develop a group of highly motivated employees who view the competitive environment positively and take on new challenges.</li><li>o Energize communication within the group to create a closely united corporate group that is more vibrant and active in Japan.</li></ul>



Goals for growth businesses	2015		2030
Equity ownership in overseas electricity output <sup>*1</sup>	1,500 MW	+3,500 MW →	5,000 MW
Amount of power sources developed outside Kyushu	–	+2,000 MW →	2,000 MW
Amount of renewable energy developed	1,500 MW	+2,500 MW <sup>*2</sup> →	4,000 MW

<sup>\*1</sup> Equity ownership in overseas electricity output = Electric equipment output for each project × Kyushu Electric Group's investment ratio

<sup>\*2</sup> The breakdown is +800 MW for geothermal power, +200 MW for hydraulic power, +1,100 MW for wind power, and +400 MW for other types of energy in Japan and abroad.

## Priority initiatives

- o Priority initiatives for the next five years to attain a long-term vision were set.

### Meeting the diverse energy needs of customers in Kyushu

Acquiring more Kyuden fans by providing diverse energy services

- o Services closely tied to the lives of customers (for ordinary households)
- o Gas business etc.

P5- "Initiatives for Electricity Retail Liberalization "

Enhancing the competitiveness of power sources and fuel procurement abilities

- o Firmly determined not to cause accidents like the one that occurred at the Fukushima Daiichi Nuclear Power Station, we will continuously work to improve the safety and reliability of nuclear power and use it as a power source that is effective in ensuring energy security, mitigating global warming, and supplying electrical power economically. etc.

P9- "Initiatives in Genkai and Sendai Nuclear Power Stations"

Improving and effectively using power transmission and distribution network technology

- o We will strengthen power transmission and distribution networks under transparent and neutral business administration systems. We will also contribute to the spread of renewable energy and attainment of smart communities. etc.

P15- "Initiatives for accepting power output from renewable energy"



## Making the most of Kyuden Group strengths to develop in growth markets

Strengthening overseas electricity business

Developing electrical power businesses outside Kyushu

Expanding renewable energy business

P23- Reference



## Establishing a robust business foundation

Developing innovative human resources who take on new challenges

Creating organizations that respond swiftly to changes

Reinforcing our financial foundation and enhancing competitiveness on a group-wide scale

Pursuing safety and security

Promoting thorough CSR (corporate social responsibility) management

P19 ~ “Promoting thorough CSR (corporate social responsibility) management”

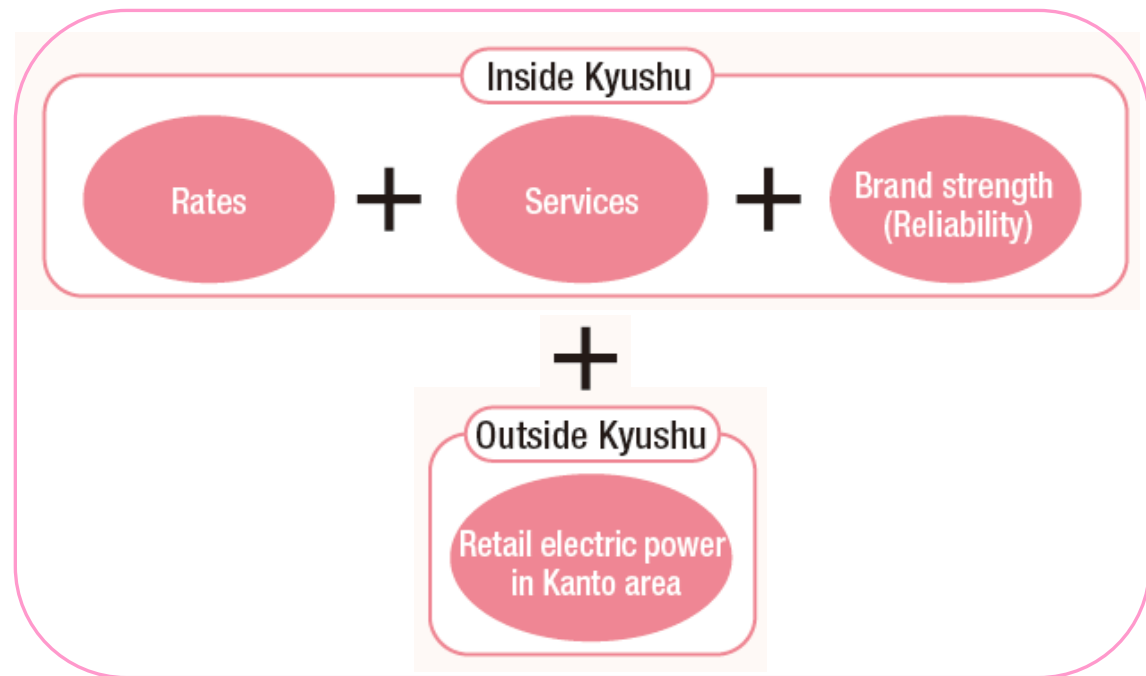


## Policy Regarding Electricity Retail Liberalization

- o Develop new rate plans, new services such as “Kyuden Safety Support,” the member website “Kirei Life Plus”, and “Q Point for Comfort” loyalty point system.
- o Develop personable marketing based on relationships of trust with customers built over 60 years of operations, to remain the preferred choice of customers.
- o Develop retail electric power in the Kanto area to secure a new earnings base.



President Uriu explaining about New pricing plan



## Recent progress of liberalization inside Kyushu

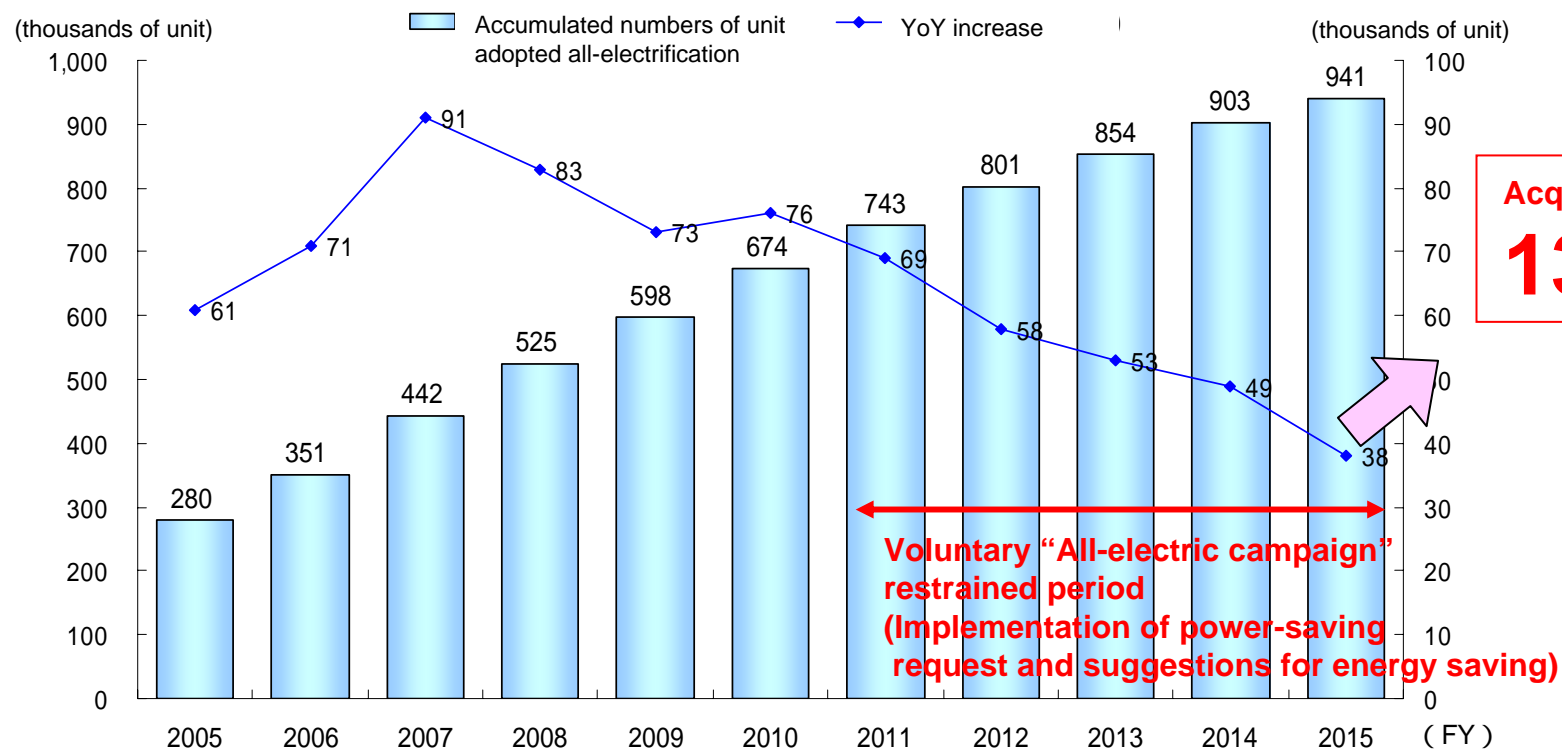
- o As of September 30, about 96,700<sup>\*1</sup> customers had switched from our company to another (ca. 1.3% of low-voltage agreements).
- o As of September 30, we had received roughly 109,200<sup>\*2</sup> applications for our new pricing plans.

<sup>\*1</sup> According to the official announcement by the Organization for Cross-regional Coordination of Transmission Operators, Japan.

<sup>\*2</sup> Total amount of applicants of “Electric Night Select Plan”, “Smart Family Plan”, “Smart Business Plan”.

## Sales promotion with “All-electric campaign”

- o Starting from October 2016, “All-electric campaign” has been restarted for the first time in 6 years.
- o Acquisition targets of all-electrification is 13,000 customers from October to December, 2016.

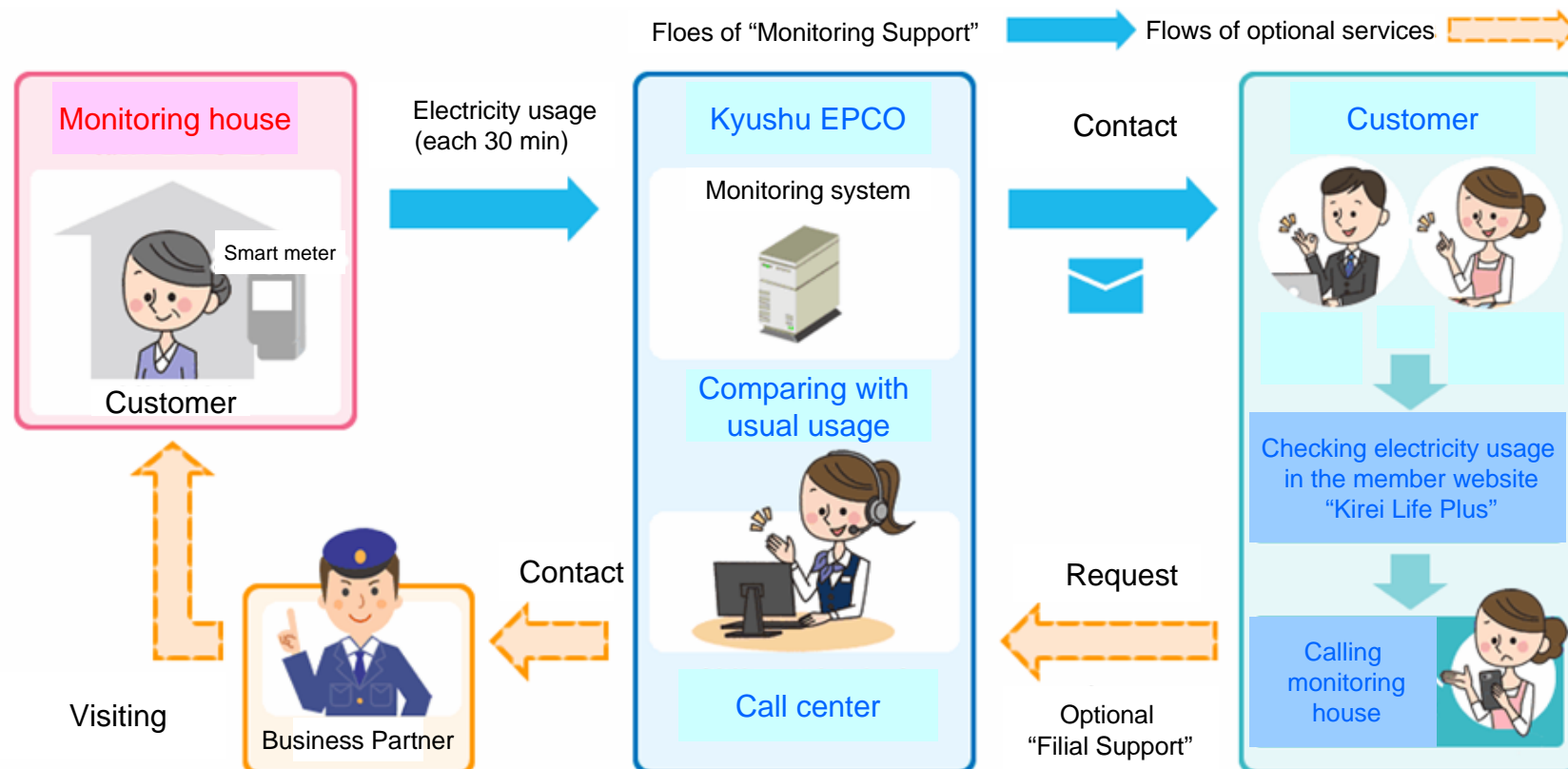




## “ Kyuden Safety Support ”

- o We started to provide “Filial Support”, “Help for lifestyle problems Support” and “Daily Lives Support” in July 2016, in the hope of delivering “Safety” in customer’s daily lives.
- o In addition, we started to provide “Monitoring Support” newly in October 2016.

The service is to contact customers when the electricity usage in monitoring house, in which their families are living, is abnormally high or low.



## Strategies beyond the Kyushu region

- o Group company Kyuden Mirai Energy engages in the retail electric power business for households in the Kanto area.
- o We set “JAL Milage Plan” in June 2016, giving JAL miles customers based on their monthly electric bills.
- o We started to provide “Kyushu Filial Support” in July 2016, supporting customer's families who live in Kyushu.
- o We've implemented sales & marketing focusing on customers fated to Kyushu and them earning JAL miles.

### [ New rate plan ]

**Giving JAL miles**  
**“JAL Milage Plan”**

### [ Unique optional services ]

**For customers who have families  
living in Kyushu**  
**“Kyushu Filial Support”**

- o Earned 1 mile per 100 yen\*
  - \* Excluding tax and Renewable Energy Power Promotion Surcharge etc.
- o The plan targets customers who earn JAL miles, use airplane for homecoming, business and traveling.

## Status of the conformity review of Genkai Nuclear Power Station unit No.3 and 4.

- o We have submitted applications for conformity of Genkai Nuclear Power Station No.3 and 4 all together to new regulatory requirements in July 2013.
- o We've submitted a supplementary materials of an application for permission for a change in reactor installation license reflected review contents of the plants and other proceeding ones in September 2016 (submitted a supplementary materials on October 28 and November 4, 2016).

[ Components of supplementary material in September 2016 (Excerpt) ]

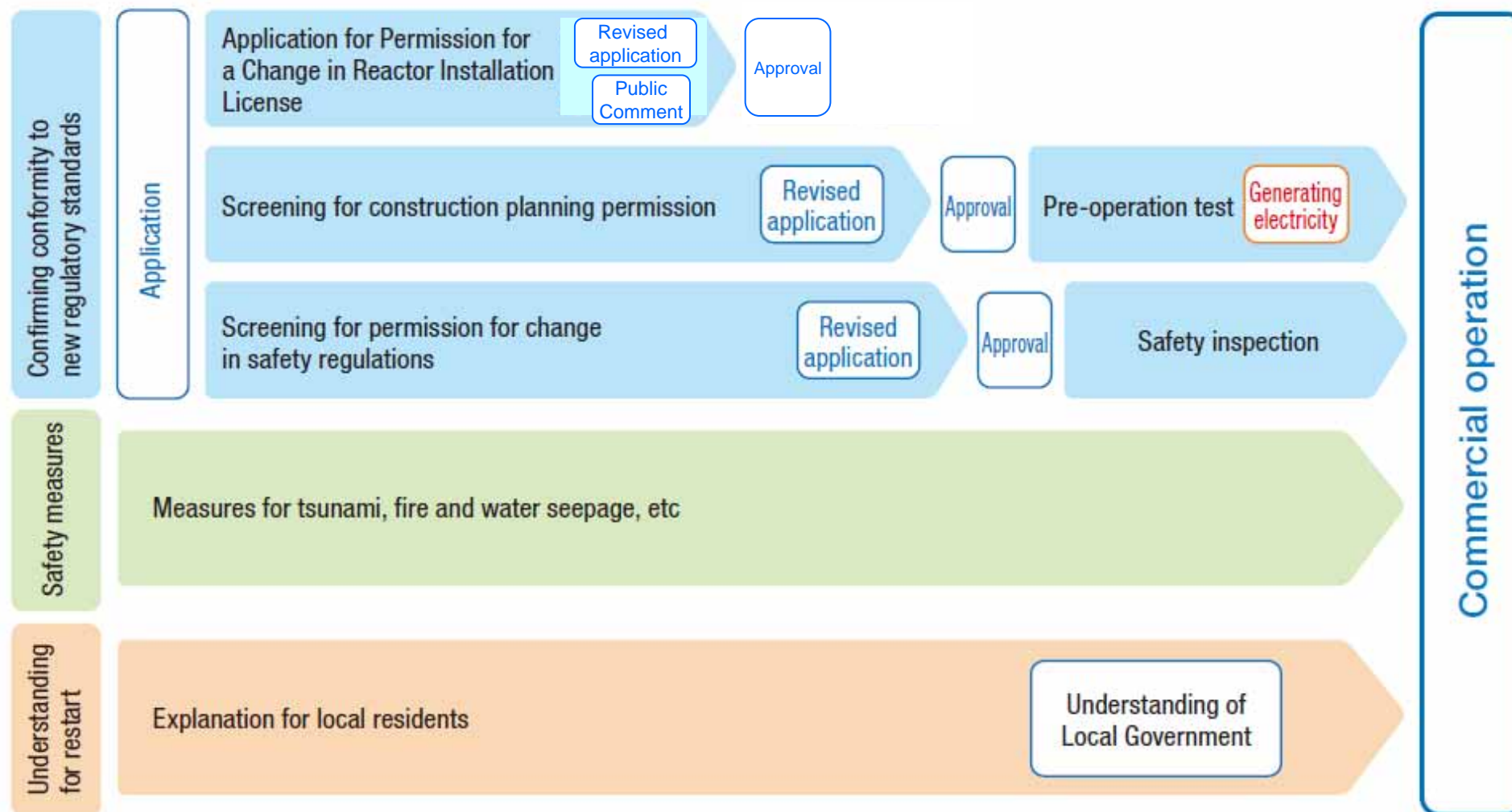
Entry	Main components
Earthquake ( Standard Seismic Motion )	<ul style="list-style-type: none"> <li>o Reflecting active faults around the station : Largest 540gal</li> <li>o Reflecting the earthquake south of the Rumoe Branch Office in Hokkaido and the west in Tottori : Largest 620gal</li> </ul>
Tsunami (Maximum Tsunami Height)	<ul style="list-style-type: none"> <li>o Sea level + approx. 4m (at high tide) (the plant site: 11m above sea level)</li> </ul>
Natural disaster (tornados and volcanoes etc.)	<ul style="list-style-type: none"> <li>o Installation of nets for protecting the important equipment in safety from tornados.</li> <li>o Monitoring of calderas experienced catastrophic eruption</li> </ul>
Management functions of the plant	<ul style="list-style-type: none"> <li>o Development of Alternate Emergency Response Center</li> <li>o Installation of Emergency Response Center in the facility, adopted an earthquake-resistant design, improved support functions</li> </ul>

July 12, 2013

September 20, 2016

October 28, 2016

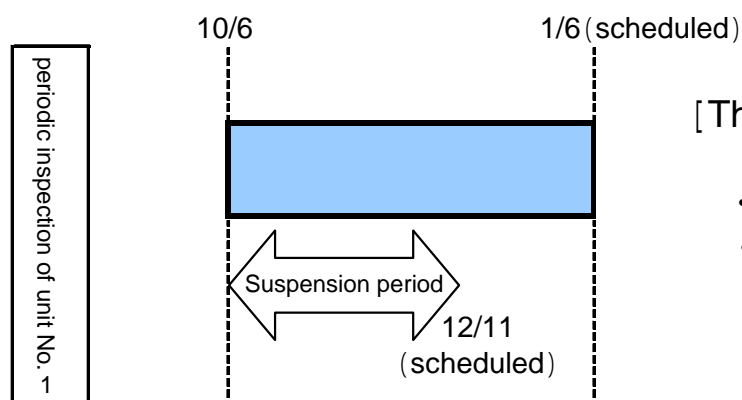
November 4, 2016



## Outline of periodic inspection

- o Unit No.1 had continued to operate well from recovering commercial operation on September 10, 2015.
- o It has been implemented periodic inspection scheduled suspension period from October 6 to December 11, 2016.
- o Unit No.2 is scheduled to be implemented periodic inspection from December 16, 2016 (suspension period is scheduled from December 16, 2016 to February 27, 2017).

[ Schedule ]



[ The number of inspection entry ]

- Periodic inspection of facilities: 61 entries\*
- Periodic operators inspection: 124 entries

\* 16 entries were newly added with enforcing new regulation

## Outline of special inspection

- o Special inspection, which is one of the requests from governor of Kagoshima considering Kumamoto earthquake has been implemented starting from September 27.
- o This inspection has been implemented in different view from periodic inspection, checking the impact of earthquake for equipment.

[ Main components of inspection ]

- o Checking of reactors pressure vessel, containment vessel and spent nuclear fuels pits.
- o Checking base of pumps and fans, which are important in safety, and piping support equipment.
- o The operation tests of equipment, which has functions for ensuring safety of reactor vessel in stopping and cooling it and locking up radioactive materials.
- o Checking of the seismograph for stopping reactor vessel, the important instrumentation in safety processing signals for stopping reactor vessel as well and the promotional seismograph. etc.

### Installation of facility for dealing with specific accident

- o As an interim measures, a five-year grace period, calculated from the approval day of construction planning permission (March 18, 2015 (unit No.1), May 22, 2015 (unit No.2)), is set for installation of facility for dealing with specific accident.
- o We've submitted an application for permission for change in reactor installation of facility for dealing with specific accident in December 2015 (submitted a supplementary material in March and October 2016).
- o Nuclear Regulatory Authority implemented field surveys in July and October 2016.

### Installation of Emergency Response Center

- o We've submitted an application for permission for change in reactor installation license including an installation "Supporting facility", adopted an earthquake-resistant design, near to Alternate Emergency Response Center in December 2015.
- o We've submitted an application for permission for change in reactor installation license including an installation of Emergency Response Center, adopted an earthquake-resistant design, in March 2016 (submitted a supplementary materials in October).
- o We will install "Emergency Response Center", adopted an earthquake-resistant design, improved support functions , for example expanding stowage space for laborers and maintenance of resting rooms for that laborers can deal with an specific accident more reliably.

## Overview

- o In April 2016, an agreement for mutual cooperation in the nuclear power business was signed among Kansai Electric Power Company, Chugoku Electric Power Company, Shikoku Electric Power Company, and our company.
- o The four companies and Hokuriku EPCO concluded agreements regarding participation of it to this mutual cooperation in August 2016.

### [ Cooperation in the event of a nuclear disaster ]

Purpose	To promptly respond through mutual cooperation, including dispatch of supporters and provision of materials and equipment, by making the most of the five companies' geographical proximity.
Key areas of cooperation	<ol style="list-style-type: none"> <li>1. Dispatch of supporters</li> <li>2. Provision of materials and equipment</li> <li>3. Assistance such as advice provided from the top management of nuclear departments of other companies to the company experiencing the disaster through videoconferencing</li> <li>4. Regular drills for participants from each company</li> </ol>

### [Cooperation in decommissioning]

Purpose: To enhance the safety of decommissioning and respond to reviews

Main areas of cooperation: Discussion of technologies and procurement involved in major construction, information sharing regarding decommissioning status

### [Cooperation in installation of facilities for responding to specific severe accidents]

Purpose: To enhance safety related to facility installation in order to respond to specific severe accidents and respond to reviews

Main areas of cooperation: Discussion of unified specifications for facilities and information sharing regarding existing plants' statuses

## Outline

- o Hokkaido EPCO, Kansai EPCO, Shikoku EPCO and Kyushu EPCO concluded technical cooperation agreements aiming an improvement safety, utilizing the identity of each company's types of reactors in October 2016.

[ Outline of technical cooperation agreements aiming an improvement safety ]

Cooperation contents	Key measures
Progressing a safety improvement assessment	<ul style="list-style-type: none"> <li>o Sharing information regarding measures of PRA and operating equipment in implementing safety improvement assessment</li> <li>o Joint consideration of safety measures more improved etc.</li> </ul>
Expanding to share foreign knowledge and know-how regarding operating management	<ul style="list-style-type: none"> <li>o Sharing information regarding foreign knowledge and know-how of operating management, maintenance and management of radioactive materials</li> <li>o Mutual benchmark surveys etc.</li> </ul>
Progressing of surveys and studies of new technology regarding next generation light-water reactor aiming an important of safety of existing reactors	<ul style="list-style-type: none"> <li>o Joint surveys of new technology of next generation LWR and new type reactors in the world</li> <li>o Consideration of more safety implement of existing reactors based on results of surveys</li> </ul>

\*We'll implement other measures if they are expected to improve safety





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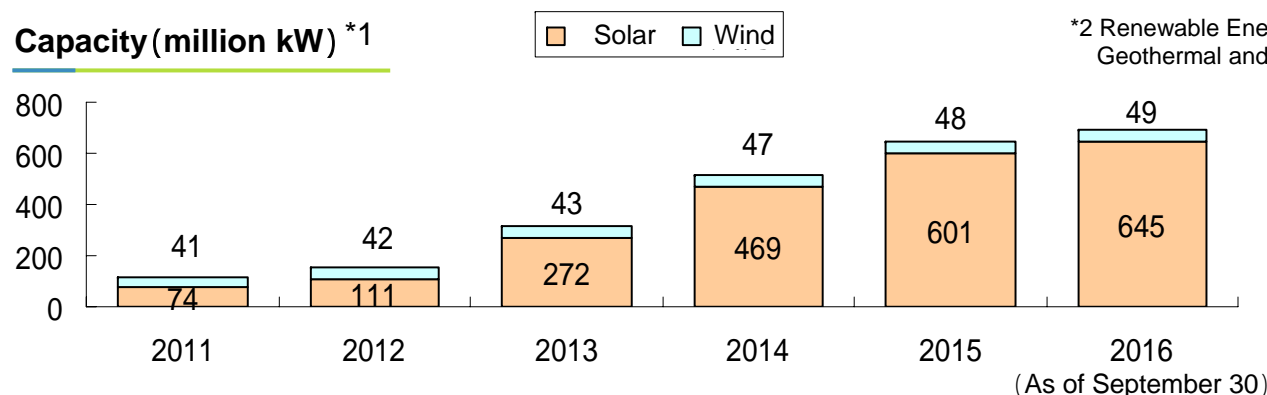


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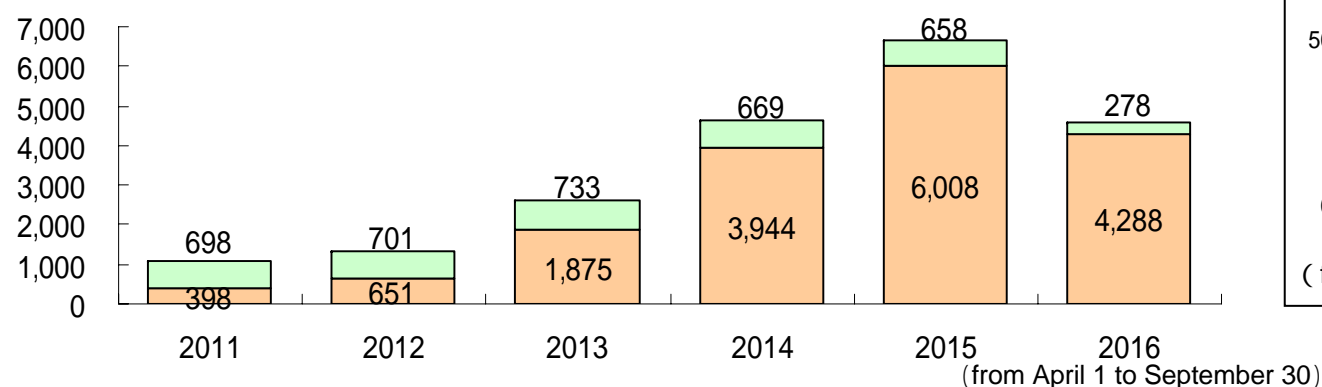
## Situation of accepting power output from renewable energy (Solar and Wind)

- Since the introduction of the feed-in tariff (FIT) system for renewable energy in 2012, the Kyushu area has seen rapid growth in the deployment of solar power.
- The ratio of renewable energy in generated and purchased electricity has been around 20%.

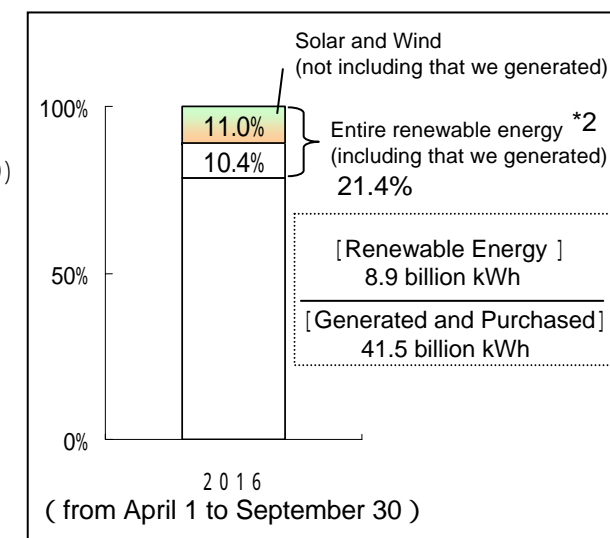
### Capacity (million kW) \*1



### Purchased electricity (million kWh)



### [The ratio of generated and purchased electricity]



[Reference] We had experienced output controls in remote islands with increasing of installation of renewable energy (As of November 4, 2016).

Tanegashima

FY2015 : 7 times  
FY2016 : 5 times

Iki

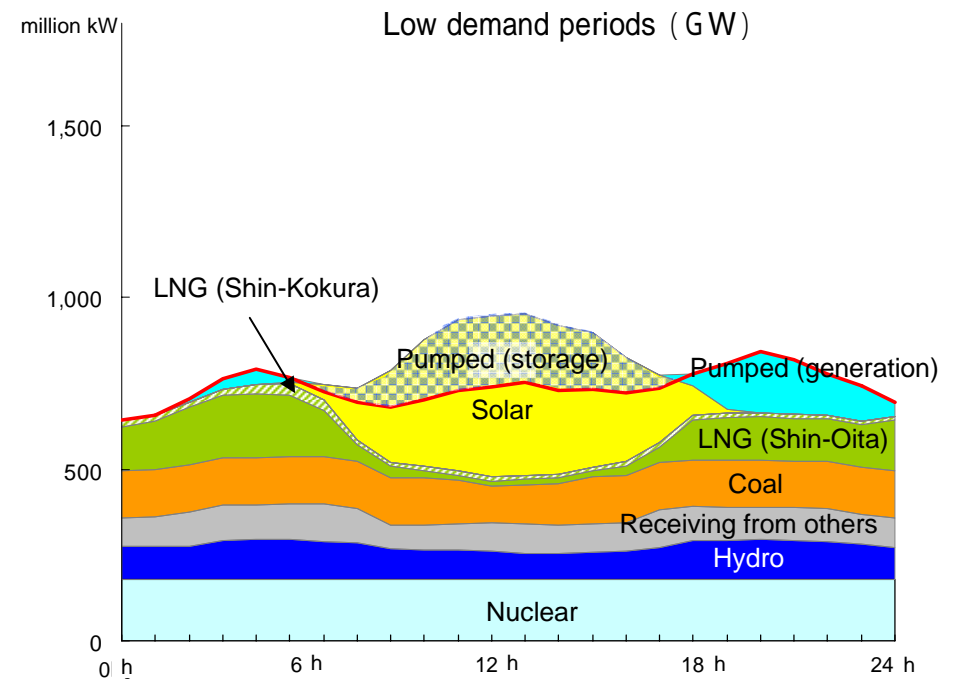
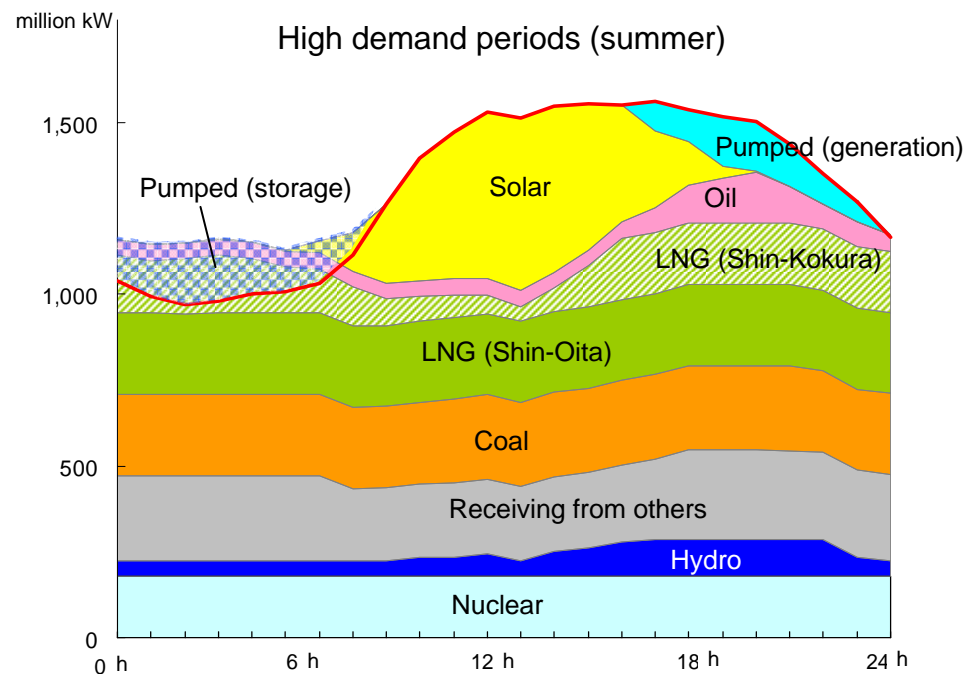
FY2016 : 6 times

## Operation of thermal power plants

- We regulate the output of LNG partly to accept solar power in a period of low demands such like Golden Week.
- \*Figures below are the power generation status of each fuels under Supply Plan 2016.

Fuel	Utilization Rate	Operation Status
Coal	Around 95%	Operation in full output almost throughout a year
LNG (Shin-Oita)	Around 85%	Operation in full output, excepting daytime in low demand periods
LNG (Shin-Kokura)	Around 60%	Adjustment operation depending on solar output and demands throughout a year
Oil	Around 40%	Operation as peak power source mainly in high demand periods (summer, winter)

[ Operation of sunny day (image) ]



## Supply and demand operating measures dealing with outputs of renewable energy

- We consider and implement measures to balance supply and demand by adapting to variable output from renewable energy sources that greatly depend on the weather.

### [Operations of pumped storage]

We've used pumped storage, pumping with surplus power of solar in daytime and generating electricity in lighting time and nighttime (See the figure at right) .

### [Practical use of large-scale batteries]

We've implemented testing of measures lessening the controlling output period of renewable energy with installing the large-scale batteries (See figure at right).

### [Practical use of Kanmon transmission line]

We've used limit of capacity of Kanmon transmission line to accept renewable energy as much as possible.

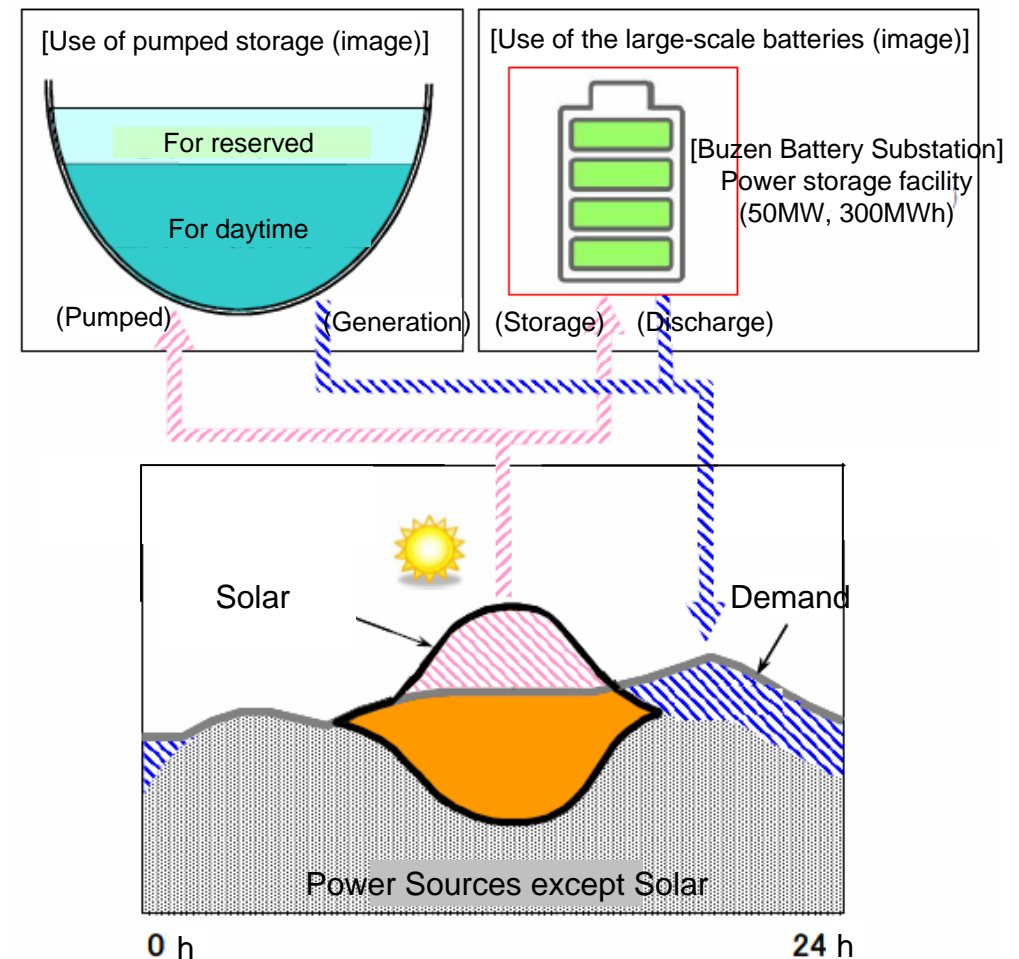
### [Demonstration of batteries in remote islands]

We've studied about the best controlling measures to restrain frequency changes by changing output of renewable energy.

### [Constructing the output controlling system]

We've started to construct the output controlling system of solar to remotely control a great number of solar power generators, which are placed separately.

[ Balance of demand and supply when much solar power is accepted in low demand periods (image) ]



Order of the sources regulated outputs

0. Regulation of Power Sources (generators and those of pumped storage secured by general distribution utilities for adjustment) and pumping operation  
Regulation of Power Sources (generators and those of pumped storage which can be controlled by general distribution utilities) and pumping operation

1. Regulation of Power Sources (generators such like thermal power including woody biomass and those of pumped storage which can't be controlled by general distribution utilities) and pumping operation

2. Supplying beyond the Kyushu region using transmission line

3. Regulation of biomass

4. Regulation of biomass using regional resources\*1

5. Regulation of power sources fluctuated by natural factors (Solar and wind)

6. Measures based on Organization for Cross-regional Coordination of Transmission Operators\*2

7. Regulation of long-term fixed power sources (Nuclear, Hydro and geothermal)

\*1 They will be exempted from restraining output when controlling output is difficult due to technical matters and so on

\*2 Interchange according to instructions given by Organization for Cross-regional Coordination of Transmission Operators

## Correspondence for large-scale disaster

- o In April, Kumamoto earthquake with a maximum intensity of 7 caused blackouts among up to 480 thousands of households.
- o We completed installation of high-voltage power distribution lines to the areas, except in places where restoration was made difficult by landslides, damaged roads and so on in four days after occurring with getting support from EPCOs throughout Japan.



Wiring of temporary steel tower



Recovery of distribution line



Large-scale landslide (Minami Aso, Kumamoto Prefecture) )



Power transmission via high voltage distribution lines (Kansai Electric Power Company)

	Other EPCOs	Kyushu EPCO
The number of high-voltage power generator trucks	110	59
Mobilization (maximum)	629 [April 20th]	3,608 [April 16th]



## Promoting Female's Empowerment

- We've been accredited for "Eruboshi", which is the second grade due to satisfaction 3 entries in 5 such like the average years of service and working hours, based on the low concerning the female success promotion in July 2016.



### "Eruboshi" accreditation mark

- The ministry of Health, Labor and Welfare certifies excellent corporation in promoting female's empowerment
- "Eru (L)" has the meaning of Lady, Labor and Laudable



Social gathering of female in managerial positions

## Supporting the development of the next generation

- We've introduced various working systems and supported employee's taking holidays and child-rearing in order to combine work and child-rearing, and been accredited for the next generation certification "Kurumin".



### "Kurumin (nickname)"

- Accreditation mark from the ministry of Health, Labor and Welfare based on "Law on the promotion of Measures to support fostering of the next generation"





## Establishment of “Kyuden Mirai Foundation”

- o “Kyuden Mirai Foundation” was established in May 2016 to meet the expectations of community members and further enhance activities for contributing to solutions to community issues by conducting environmental activities and activities to support raising future generations.
- o The foundation will enhance environmental protection activities in the Bogatsuru wetlands in Oita Prefecture, which have been conducted together with community members, and our environmental education program that utilizes watershed forestland, and will also provide grants for activities to support the development of future generations that are conducted by local organizations.

Name	General Incorporated association “Kyuden Mirai Foundation”
Day of established	May 12, 2016
Activities	<u>Environmental activities</u> Environmental protection and Environmental education activities mainly in Kuju area, in which Kyushu EPCO has own forests <u>Activities to support the development of the next generation</u> Subsidy businesses targeting activities, which contribute “Educations of the next generation” by nonprofit organization

## Environmental activities

- It implements environmental protection and Environmental education activities mainly in Kujū area, in which Kyushu EPCO has own forests

### [ Environmental protection activities ]

Environmental preservation activities at the Bogatsuru wetlands (Taketa, Oita Prefecture)



Burning fields at Bogatsuru

### [ Environmental education ]

Environmental education activities at Lake Yamashita (Yufu, Oita Prefecture)



Experience of forestry

## Activities to support the development of the next generation

- It implements subsidy businesses targeting activities, which contribute “Educations of the next generation” by nonprofit organization
- We’ve received 67 applications from across Kyushu for subsidy businesses in FY2016, and implemented subsidy about 13.4 million yen for twenty groups resulted from selection by the committee composed by experts



Presentation ceremony of subsidy



## Reference (Business development in a Growing Market )

<u>Oversea Energy Business</u>	P 23
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Goal for Equity Ownership in Electricity Output on Overseas Energy Business as of 2030

**5,000MW [+3,500MW (compared with that as of 2015)]**

- o We will make the most of the technology and know-how we have accumulated in Japan and abroad to develop overseas electricity business focusing on IPP projects mainly in Asia, whose market has high growth potential and aim for 5,000MW equity ownership in electricity output.

## Status of achievement in equity ownership in electricity output

**1,500 MW / 5,000MW**

- o Ongoing development projects: 320MW  
(Equity ownership in electricity output: 80MW)

(As of September 30, 2016)

## Sarulla Geothermal IPP Project in Indonesia

We will make effective use of the geothermal power generation technology we have gained through geothermal development in Japan to steadily implement the Sarulla geothermal IPP project in Indonesia.

### < Outline of the Project >

<b>Outline</b>	Consistent project from development to generation (Electricity sales contract with electric power company owned by Indonesia government for 30 years)
<b>Output</b>	321MW (3 Units) [Our equity Ownership in Electricity Output : 80MW]
<b>Start of Operation</b>	Unit 1 : 2016, Unit 2 : 2017, Unit 3 : 2018

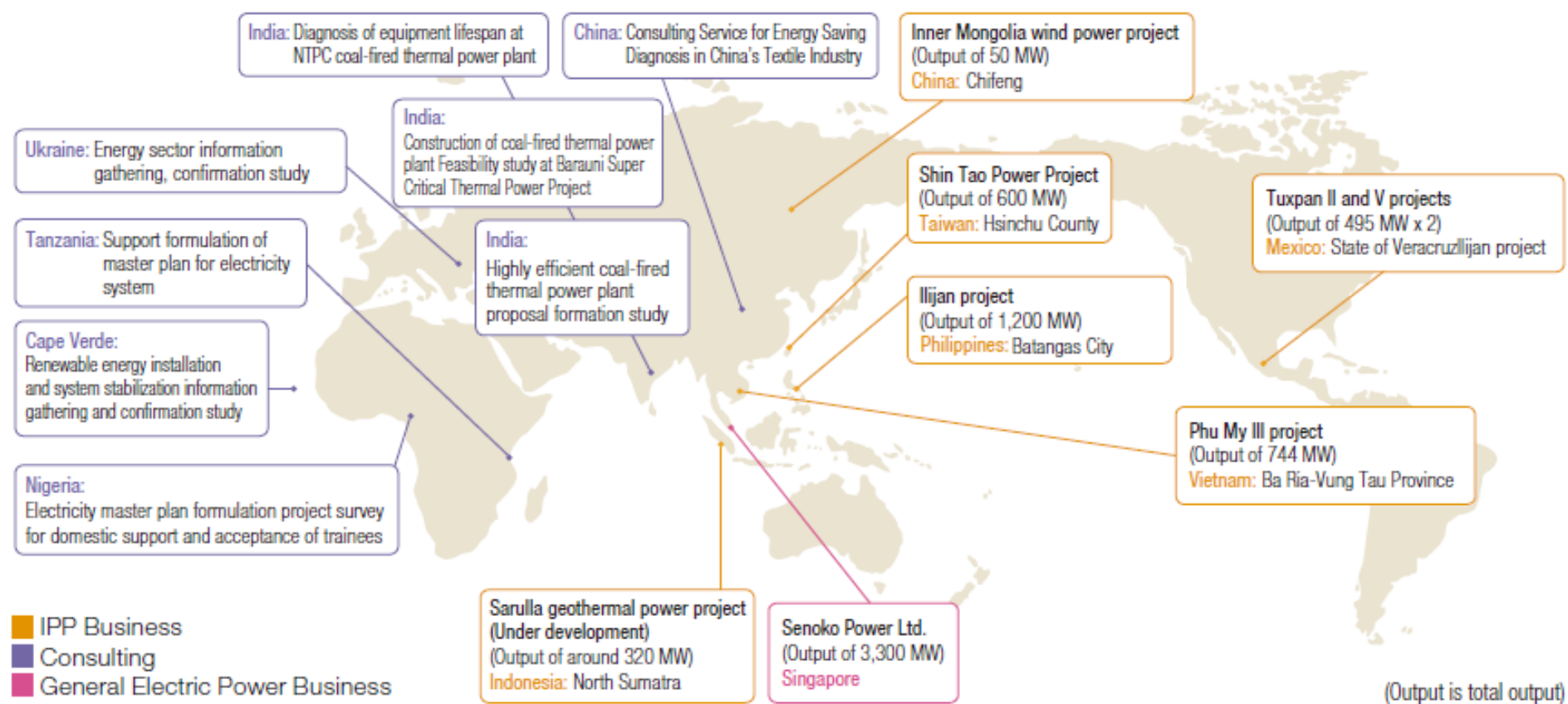


Location of the the project



View from a production test site

[ Business Development Overseas (As of September 30, 2016) ]



List of overseas energy business projects (As of September 30, 2016)

Project	Fuel	Year of operation	Output (MW) (Equity)	Equity
Philippine / Ilijan	Gas	June, 2002	1,200 ( 96 )	8.0%
Vietnam / Phu My	Gas	March, 2004	744 ( 199 )	26.7%
Mexico / Tuxpan	Gas	December, 2001	495 ( 248 )	50.0%
Mexico / Tuxpan	Gas	September, 2006	495 ( 248 )	50.0%
Singapore / Senoko Power	Gas Oil	September, 2008 (Investment)	3,300 ( 495 )	15.0%
China / Inner Mongolia Wind Power	Wind	September 2009	50 ( 15 )	29.0%
Taiwan / Hsin Tao Pow	Gas	October, 2010 (Investment)	600 ( 199 )	33.2%
Total			6,884 (1,500)	

Goal for Development Output on Energy Business Outside Kyushu as of 2030

2,000MW [+2,000MW (compared with that as of 2015)]

- o We agreed with Idemitsu Kosan Co., Ltd. and Tokyo Gas Co., Ltd. to form an alliance to consider developing coal-burning thermal power stations jointly. To that end, the three companies established the Chiba-Sodegaura Energy Co., Ltd (CSE) in May 2015.
- o CSE notified the statement of Environmental Impact Assessment to METI based on the Environmental Impact Assessment ACT and the Electricity Business Act in January 2016.
- o In July 2016, CSE received a complete response letter from METI stating that the statement considers reasonable environmental conservation and doesn't have to be recommended regarding regulations of Electricity Business ACT.

## Outline of Chiba-Sodegaura Energy

<b>Planned site</b>	3-1, Nakasode, Sodegaura City, Chiba Pref.
<b>System</b>	Ultra-super critical (USC) power generation
<b>Output</b>	Maximum 2,000MW (1,000MW × 2Units)
<b>Fuel</b>	Coal (Burning a mixture of biomass and coal is also under consideration)
<b>Start of Operation</b>	Unit 1 : FY2025 (scheduled) Unit 2 : FY2026 (scheduled)
<b>Alliance</b>	"Idemitsu Kosan", "Tokyo Gas"





Goal for Development Output on Renewable Energy Business as of 2030

4,000MW [+2,500MW (compared with that as of 2015)]

- o We will make the most of the technology and know-how we have accumulated in Japan and abroad in the past to focus on geothermal/hydroelectric power generation. But we will also work on ocean wind power generation which has growth potential while taking into account the advancement of technological development.
- o Kyuden Mirai Energy is working with us to implement power generation projects making the most of integrated technology and know-how that cover all processes from investigations and planning for various renewable energy sources construction to operation and maintenance.

Introduction Output of Renewable Energy by our Group

<sup>\*1</sup>  
**1,702MW / 4,000MW**

- o Development Output after setting “medium-term management plan” : Around 10MW
- o Ongoing development projects : Around 620MW

**Solar 46MW**

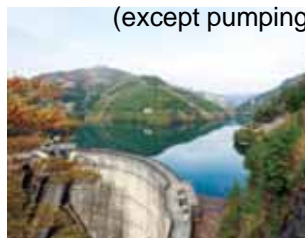


**Wind 118MW**



**Hydro 1,284MW**

(except pumping)



**Geothermal 213MW**



**Biomass 41MW**



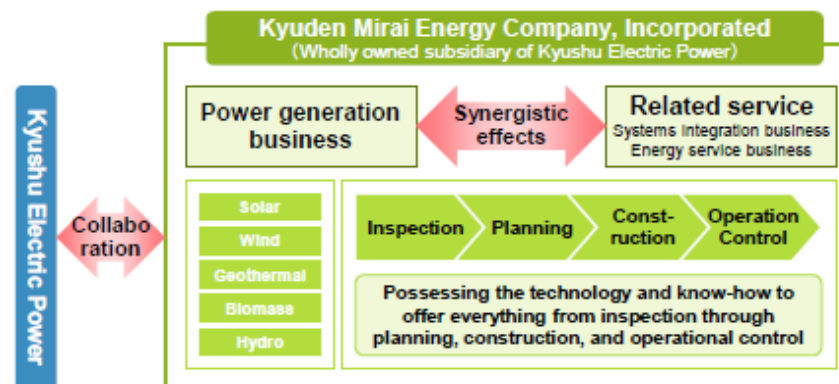
<sup>\*1</sup> The total of output as of setting “medium-term management plan” and Development output after setting it

(As of September 30, 2016)

[ Kyuden Mirai Energy's Holding Facility ] (As of September 30, 2016)

Source	Output	Notes
Solar	39MW	
Wind	50MW	Nagashima Wind Hill <sup>*2</sup>
Geothermal	5MW	
Biomass	11MW	Miyazaki Biomass Recycle <sup>*2</sup>

<sup>\*2</sup> Subsidiary of Kyuden Mirai Energy





[ Development plans of renewable energy (As of September 30, 2016) ]

	Name	Prefecture	Output (MW)	Notes
Solar	Higashi-Hiroshima Mega-Solar	Hiroshima	1.00	Starting operation in February 2017(Scheduled)
	Renatos Soma Solar Park	Fukushima	43.50	Starting operation in June 2017(Scheduled)
Sub total			44.50	-
Wind	Kushima Wind Hill	Miyazaki	64.80	Starting operation in October 2020(Scheduled)
	Karatsu Chinzei Wind Farm	Saga	28.00(Maximum)	Starting operation in 2022(Scheduled) [ Under environmental assessment ]
	Experimental Study of Next Generation Offshore Floating Wind Power System	Fukuoka	7.50	Starting operation in 2017(Scheduled) [ Commissioned project in collaboration with NEDO ]
Sub total			100.30	-
Geothermal	Otake	Oita	2.00	Starting operation in December 2020(Scheduled) Update of existing facility ( 12,5 14,5MW )
	Yamakawa Binary	Kagoshima	4.99	Starting operation in February 2018(Scheduled)
	Sarulla, Indonesia		320.80	Starting operation in 2016(Scheduled)
Sub total			327.79	-
Hydro	Shin-Kosa	Kumamoto	7.20	Starting operation in July 2019(Scheduled)
	Kamoshishi	Kumamoto	1.99	Starting operation in July 2018(Scheduled)
Sub total			9.19	-
Biomass	Buzen-Biomass	Fukuoka	74.95	
	Soyano Wood Power	Nagano	14.50	
	Nanatsushima Biomass Power	Kagoshima	49.00	
Sub total			138.45	-
Total			Around 620.23	-

## Developing Geothermal Power Stations

- o We own around 40% of the nation's geothermal power facilities by capacity, including Hatchoubaru Geothermal Power Station (110MW), one of Japan's largest.
- o We own over 50% of the nation's geothermal power facilities by generated and purchased electricity.
- o In geothermal development, we will cooperate with our group companies such as 'West Japan Engineering Consultants' which has eminent technologies on geothermal development.

### Starting operation of Sugawara Binary Cycle Power Station (June 2015)

- o It is the largest in Japan as a binary cycle power station
- o Kokonoe town provides the geothermal resources (steam and heated water), and Kyuden Mirai Energy utilizes them to generate power.

### Resource surveys of geothermal in Sobetsu town in Hokkaido

- o Sobetsu town, Hokkaido EPCO and Kyushu EPCO concluded agreements regarding resource surveys of geothermal implemented by Sobetsu town (May 2016)
- o We plan to consider a commercializing of generating using the geothermal resources after assessing the possible scale of correct developments

### [ Outline of Sugawara Binary Cycle Power Station ]

<b>Location</b>	Kokonoe in Oita
<b>Output</b>	5MW
<b>Type</b>	Air-cooled binary cycle (media: pentane)





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The numbers described in Financial Results for the 2Q of FY2016 are accumulated totals

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# **Financial Results**

## **The 2nd Quarter of FY 2016**

# Summary of Financial Results for the 2Q of FY2016

1

The earnings for the 2Q of FY2016 were in the black due to deferring repair work to another period within this fiscal year, group-wide cost reduction efforts, a decrease of fuel costs caused by restarting Sendai nuclear power since August, 2015 and decline of fuel prices although extraordinary losses, associated with the 2016 Kumamoto Earthquake, are recoded. In addition to the decrease of costs, delaying reflection of electricity rate decrease to the next quarter in fuel cost adjustment system, on the revenue side, also contributed to make profits.

On the revenue side, consolidated sales (operating revenues) decreased by 0.3% to ¥928.2 billion compared with the 2Q of FY2015 and the ordinary revenues decreased by 0.2% to ¥937.1 billion compared with the 2Q of FY2015 as lighting and power revenue decreased mainly due to a decrease in charge unit price with the effect of fuel cost adjustment system, while the grant based on the Act on Purchase of Renewable Energy Sourced Electricity increased in electricity business. On the expenditure side, ordinary expenses decreased by 4.2% to ¥836.7 billion compared with the 2Q of FY2015 due to deferring repair work to another period within this fiscal year, group-wide cost reduction efforts, a decrease of fuel costs caused by restarting Sendai nuclear power since August, 2015 and decline of fuel prices, while power purchase from renewable energy increased. As a result, the ordinary income increased by 53.1% to ¥100.3 billion. Profit attributable to owners of parent was increased by 52.0% to ¥81.4 billion resulted from extraordinary losses, associated with the 2016 Kumamoto Earthquake.

We will not pay an interim dividends because we can not estimate our mid to long term revenue and expenses and the improvement of our financial status at this time.

## 【Consolidated】

( Billions of Yen, % )

	FY2016 2Q	FY2015 2Q	Difference	Ratio
Ordinary revenue	937.1	938.6	-1.4	99.8
Sales [Figures are included above]	928.2	931.3	-3.0	99.7
Ordinary expense	836.7	873.0	-36.2	95.8
(Operating Income )	(114.7)	(80.5)	(34.1)	(142.4)
Ordinary Income	100.3	65.5	34.8	153.1
Extraordinary Loss	10.0	-	10.0	-
Net Income attributable to owners of parent	81.4	53.5	27.8	152.0

Note: As of the end of FY2016 2Q, 68 affiliates were subject to consolidated accounting.

Breakdown:

Consolidated subsidiaries: 41 companies (no change from the end of FY2015)

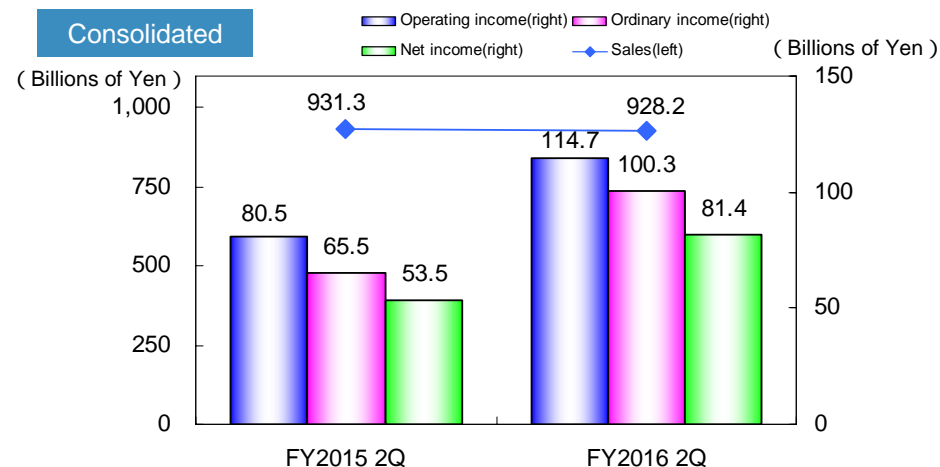
Equity method companies: 27 companies (no change from the end of FY2015)

## 【Non-Consolidated】

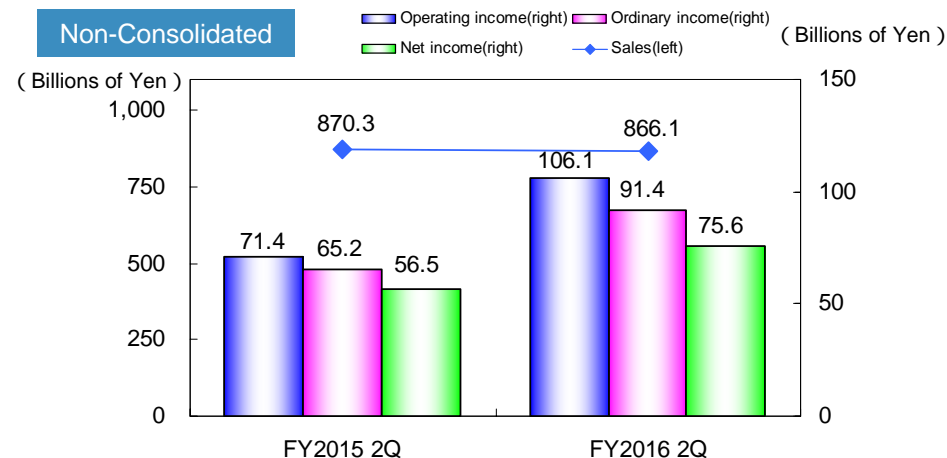
( Billions of Yen, % )

	FY2016 2Q	FY2015 2Q	Difference	Ratio
Ordinary revenue	872.9	885.0	-12.0	98.6
Sales [Figures are included above]	866.1	870.3	-4.1	99.5
Ordinary expense	781.5	819.7	-38.2	95.3
(Operating Income )	(106.1)	(71.4)	(34.7)	(148.7)
Ordinary Income	91.4	65.2	26.1	140.2
Extraordinary Loss	9.5	-	9.5	-
Net Income	75.6	56.5	19.0	133.7

## Consolidated



## Non-Consolidated



# Electricity Sales Volume

2

Lighting demand increased by 4.1% compared with the 2Q of FY2015 due to an increase in air conditioning demand resulted from higher temperature from June to September compared with the same period of the previous year. Power demand decreased by 1.6% compared with the 2Q of FY2015 due to a decrease of production in some factories.

As a result, total electricity sales volume in April to September 2016 came to 39.58 billion kWh, increased by 0.3% compared with the 2Q of FY2015.

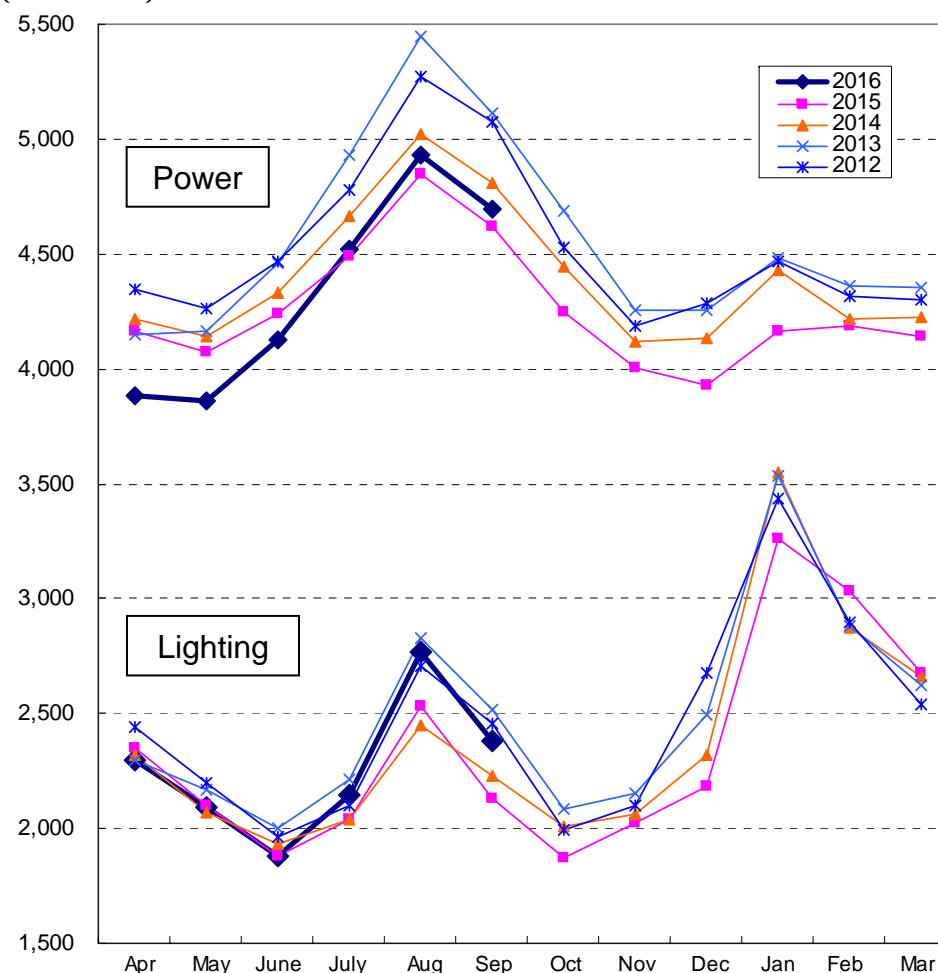
【Electricity Sales Volume】

( Million kWh, % )

	FY2016 2Q	Comparison with FY2015 2Q	
		Difference	Ratio
Lighting	13,566	533	104.1
Power	26,012	-422	98.4
Total	39,578	111	100.3

【Changes in Electricity Sales Volume】

( Million kWh )





# Generated and Received Electricity

3

On the supply side, we had supplied electricity stably resulted from not only stable operation of Sendai nuclear power unit No.1 and No.2 but also comprehensive operation of generation facilities such as thermal, pumped-storage and so on, against an increase of electricity received from new energy.

## 【 Generated and Received Electricity 】

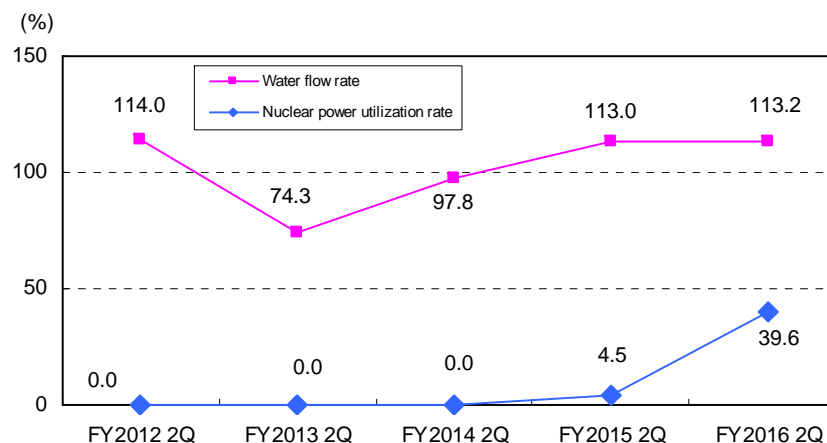
( Million kWh, % )

		FY2016 2Q	Comparison with FY2015 2Q	
			Difference	Ratio
Own facilities 1	Hydro	2,877	-85	97.1
	(Water flow rate)	(113.2)	(0.2)	
	Thermal	20,824	-3,283	86.4
	Nuclear	7,791	7,016	-
	(Utilization rate)	(39.6)	(35.1)	
	New Energy 2	546	-56	90.7
Subtotal		32,038	3,592	112.6
From other companies	Hydro	1,120	-144	88.6
	Thermal	4,215	-3,475	54.8
	New Energy 2	4,758	1,024	127.4
	Subtotal	10,093	-2,595	79.5
Interchange		30	-244	11.3
For pumping		-628	-312	198.4
Total		41,533	441	101.1

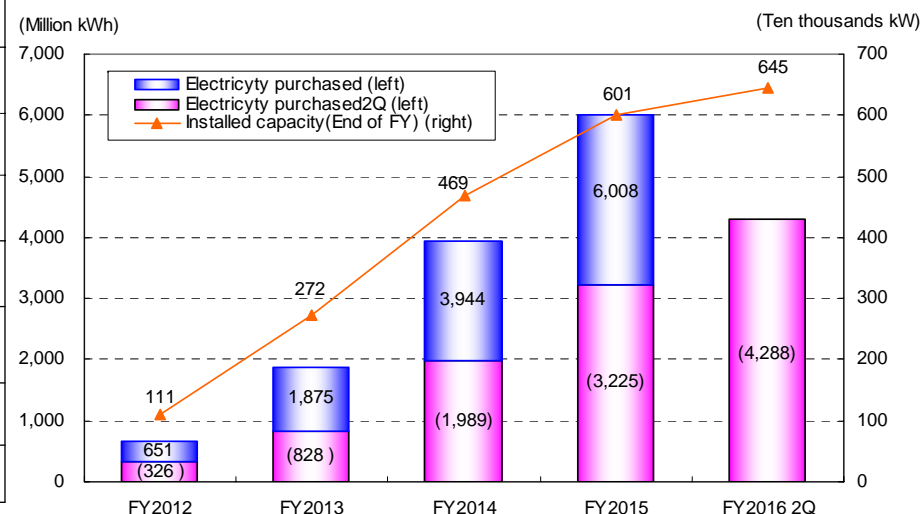
1 Own facilities' generation means transmission-end number.

2 "New Energy" includes Solar, Wind, Biomass, Waste and Geothermal.

## 【 Water Flow Rate and Nuclear Power Utilization Rate 】



## 【 Installed Capacity and Electricity Purchase regarding Solar 】



Above electricity purchased 2Q are internal number in the result of each fiscal year.



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# Income Statement (Non-Consolidated)

4

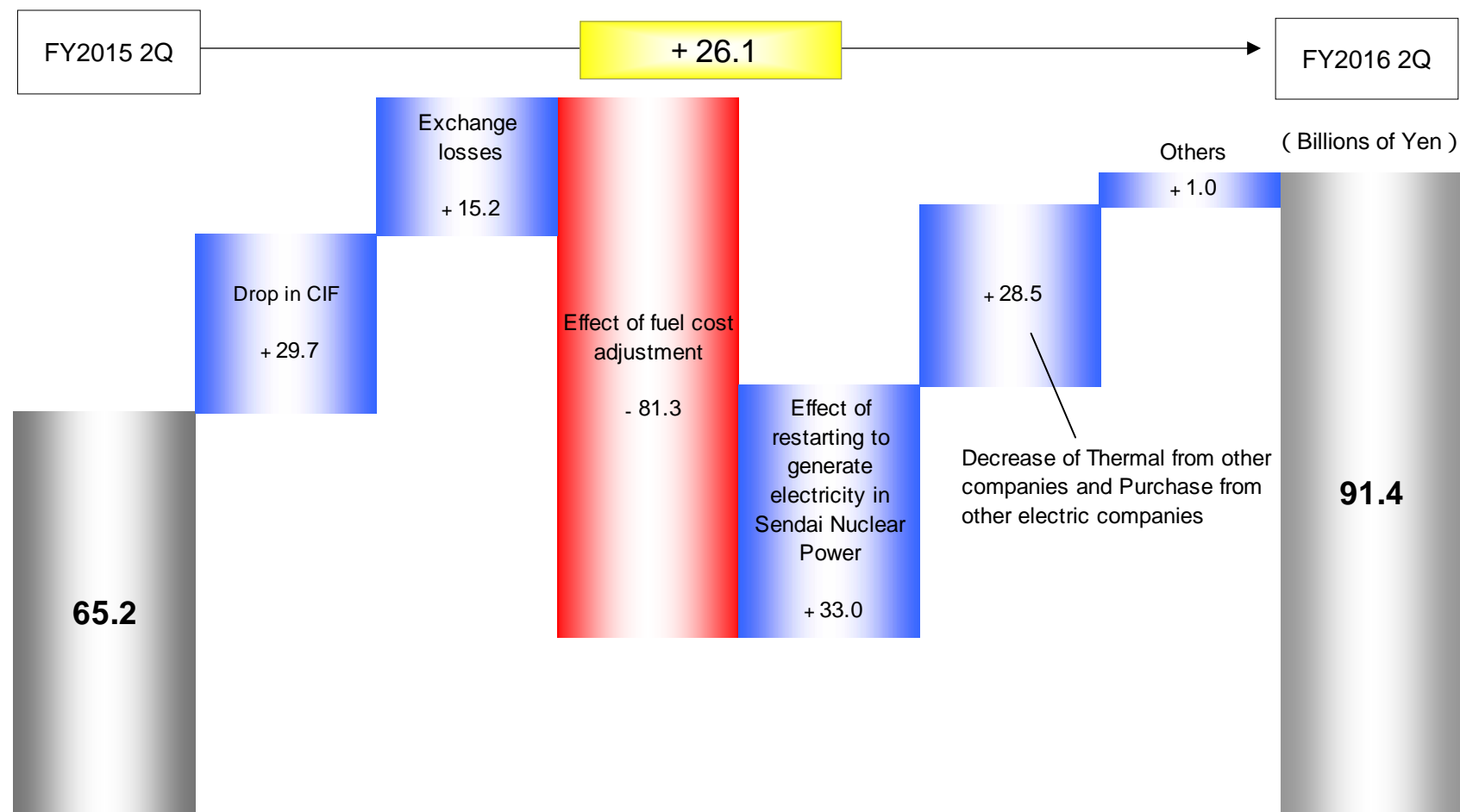
( Billions of Yen, % )

		FY2016 2Q	FY2015 2Q	Difference	Ratio	Explanations
Ordinary Revenue	Lighting	288.6	295.4	-6.7	97.7	Increase in electricity sales Volume 1.9 Effect of fuel cost adjustment -81.3 (-77.8 3.5) Renewable Energy Power Promotion Surcharge 24.9 (74.4 49.4)
	Power	390.3	436.5	-46.1	89.4	
	Other	193.9	153.0	40.8	126.7	<u>Grant based on the Act on Purchase of Renewable Energy Sourced Electricity 40.1(147.2 107.1)</u> Electricity Sales to Others 6.1 Proceed from dividends -7.6
	(Sales)	(866.1)	(870.3)	(-4.1)	(99.5)	
	Total	872.9	885.0	-12.0	98.6	
Ordinary Expense	Labor	65.9	61.7	4.1	106.7	
	Fuel	112.3	204.1	-91.8	55.0	Drop in CIF -29.7 Exchange losses -15.2 Effect of restarting to generate electricity in Sendai Nuclear Power -39.0
	Power purchase	219.6	211.4	8.1	103.8	Purchase from other companies 12.8 [Figures are included above : Purchase of <u>Renewable Energy Sourced Electricity 38.0 (169.9 131.8)</u> Thermal from other companies -23.9] Purchase from other electric companies -4.6
	Maintenance	58.5	58.4	-	100.1	
	Depreciation	88.0	80.1	7.9	109.9	Regular depreciation 6.6 Trial operations depreciation 1.2
	Interest	17.0	18.8	-1.7	90.7	
	Tax and public dues	44.6	45.0	-0.4	99.1	
	Nuclear back-end	13.8	8.5	5.2	162.2	Effect of operation in Sendai Nuclear Power 6.0
	Other	161.4	131.2	30.1	123.0	<u>Levy based on the Act on Purchase of Renewable Energy Sourced Electricity 24.9 (74.4 49.4)</u> Overhead expenses 4.0
	Total	781.5	819.7	-38.2	95.3	Effect of operation in Sendai Nuclear Power -33.0 (Decrease in Fuel cost -39.0 Increase in nuclear back-end 6.0)
	(Operating Income)	(106.1)	(71.4)	(34.7)	(148.7)	
	Ordinary Income	91.4	65.2	26.1	140.2	
	Reserve for Fluctuation In Water Levels	0.4	3.9	-3.4	12.4	
	Extraordinary Gain	-	2.4	-2.4	-	Gain on sale of securities -2.4
	Extraordinary Loss	9.5	-	9.5	-	Contingent loss 0.2 Extraordinary loss on natural disaster 9.2
	Income Tax	5.6	7.1	-1.4	79.7	
	Net Income	75.6	56.5	19.0	133.7	

Note: The underlined parts are related to Feed-in Tariff Power purchase and sale system of renewable energy

# Major Factors in the Changes in Ordinary Income (Non-Consolidated)

5



## 【Reference : Key Factors】

( Billions of Yen )

	FY2016 2Q	FY2015 2Q	Difference	Financial impact	
Crude oil CIF price	44 \$/b	59 \$/b	-15 \$/b	(1\$/b)	1.5
Exchange rate	105 yen/\$	122 yen/\$	-17 yen/\$	(1yen/\$)	1.0
Nuclear power utilization rate	39.6 %	4.5 %	35.1 %	(1%)	1.0
Water flow rate	113.2 %	113.0 %	0.2 %	(1%)	0.1

The effect of the decline of fuel prices from the latter half of FY2015

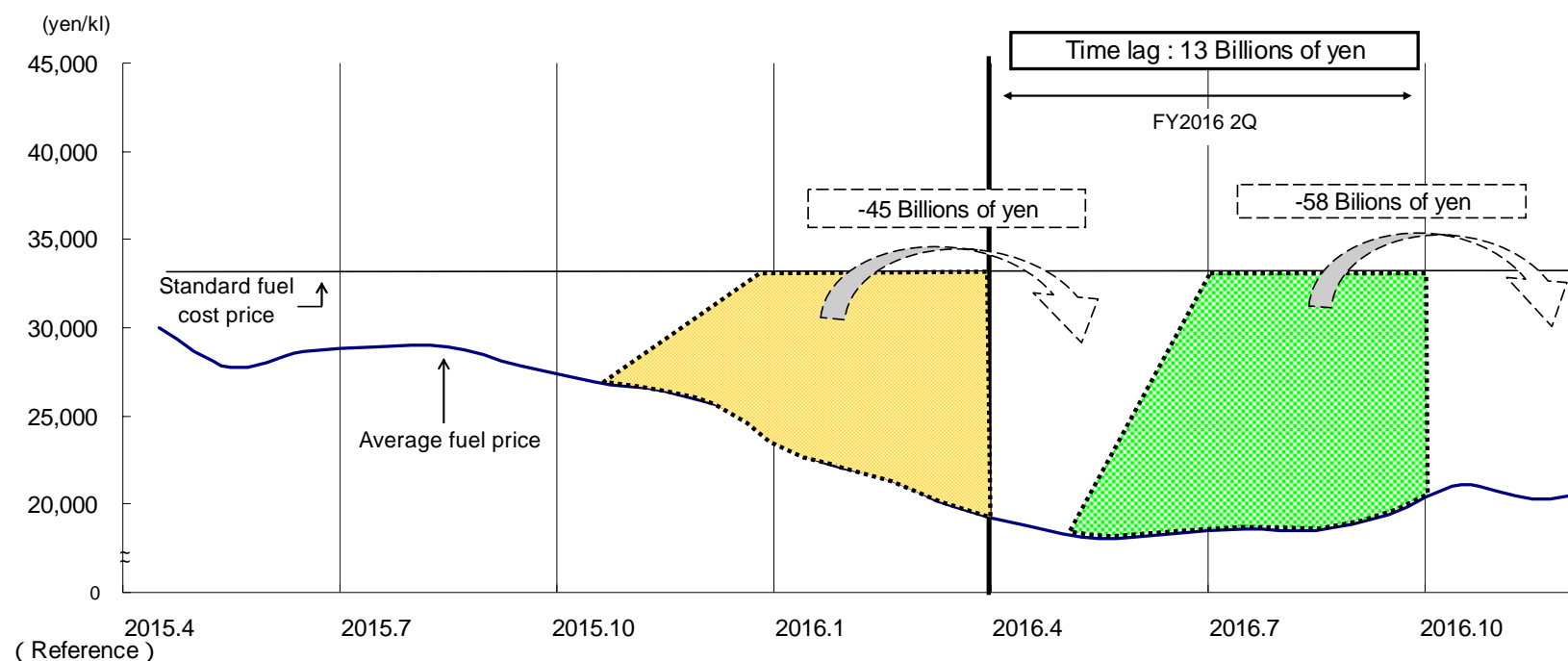
- Fuel prices in the latter half of FY2015, had been lower than standard fuel price, were reflected as a decrease of income in the 2Q of FY2016. [around 45 billions of yen]
- A part of the fuel prices of FY2016, had been lower than standard fuel price, weren't reflected as a decrease income in the 2Q of FY2016 and brought forward after the 3Q of FY2016. [around ¥ 58 billions]

The income and expenditure improved due to the effect of this time lag of fuel cost adjustment \*.

[around 13 billions of yen] (The 2Q of FY2015: around ¥ 32 billions)

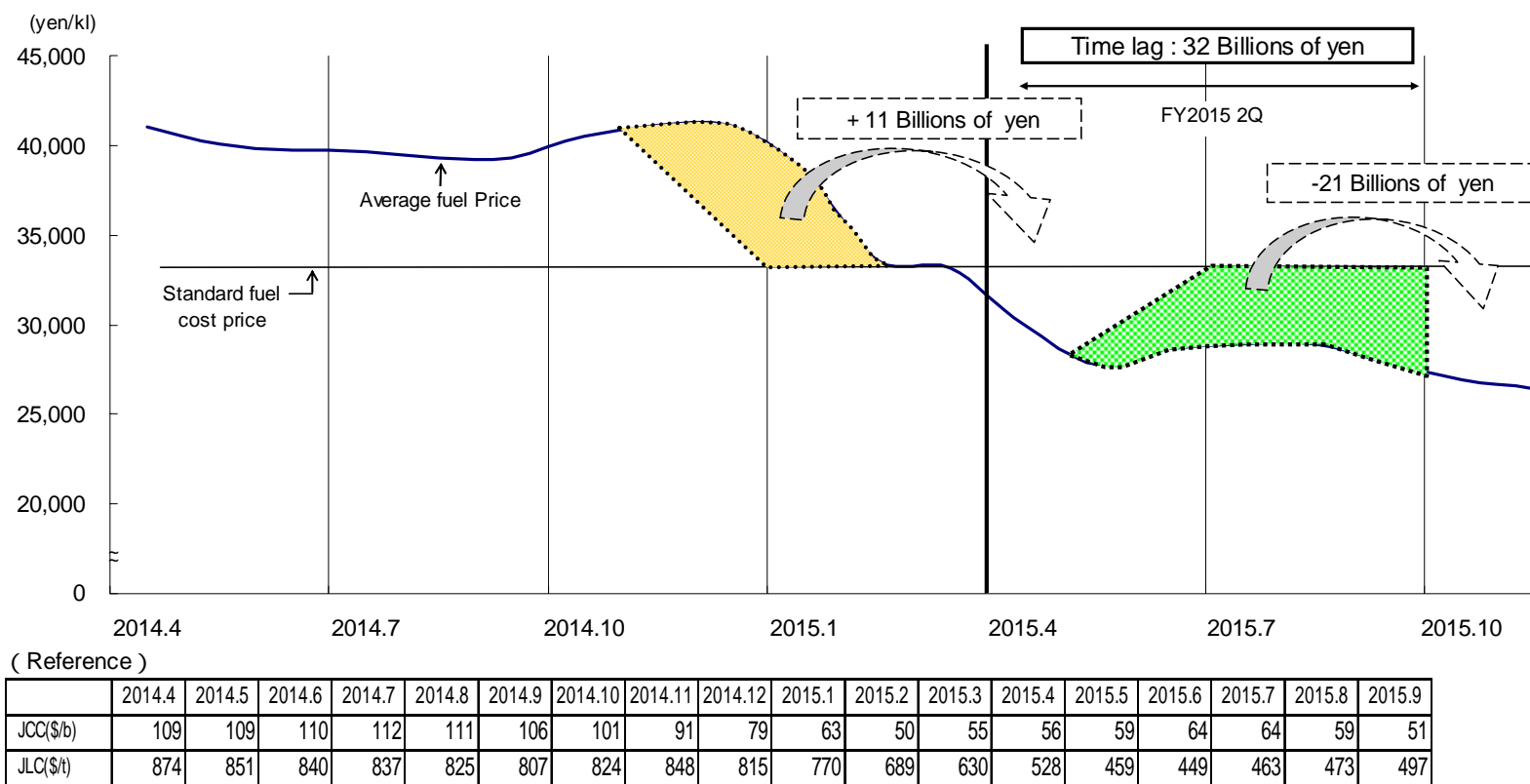
\*The average fuel prices in each three month are reflected two months later.

The effect of the decline of fuel prices (The image of time lag of fuel cost adjustment)



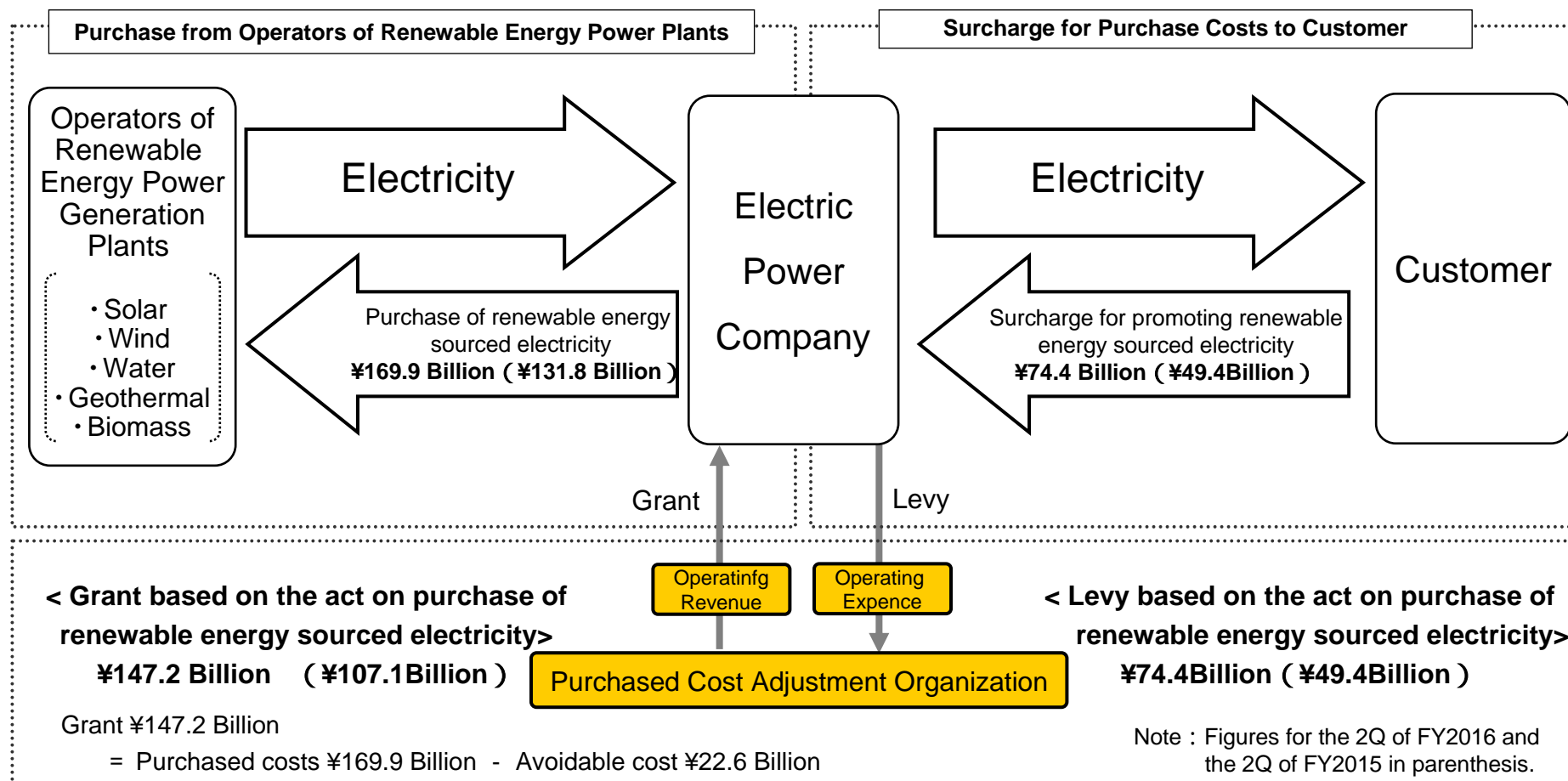
	2015.4	2015.5	2015.6	2015.7	2015.8	2015.9	2015.10	2015.11	2015.12	2016.1	2016.2	2016.3	2016.4	2016.5	2016.6	2016.7	2016.8	2016.9
JCC(\$/b)	56	59	64	64	59	51	48	48	44	37	30	32	37	41	45	48	45	45
JLC(\$/t)	528	459	449	463	473	497	491	468	438	404	407	375	327	305	303	332	340	-

The effect of the decline of fuel prices (The image of time lag of fuel cost adjustment)



## (Reference 2) Outline of “Feed-in Tariffs for renewable energy”

8



( Billions of Yen )

	FY2016 2Q	FY 2015 2Q	Difference
Renewable Energy Power Promotion Surcharge ( Revenue )	74.4	49.4	24.9
Levy based on the Act on Purchase of Renewable Energy Sourced Electricity ( Expenditure )	74.4	49.4	24.9
Purchase of Renewable Energy Sourced Electricity ( Expenditure )	169.9	131.8	38.0
Grant based on the Act on Purchase of Renewable Energy Sourced Electricity ( Revenue )	147.2	107.1	40.1

# Balance Sheet (Non-Consolidated)

9

## Assets

(Billions of Yen)

	Sep.30,2016	Mar.31,2016	Difference	Explanations
Utility Property, Plant and Equipment	2,384.1	2,354.1	29.9	Construction completed 126.9 Depreciation -86.7
Investments and Other Assets	661.3	670.8	-9.5	
Others	1,186.5	1,296.4	-109.8	Cash and cash equivalents -135.2 ( Sep.30,2016 236.1 Mar.31,2016 371.4 ) Construction in progress -25.0 ( appropriation 102.4 adjustment -126.2 ) Accounts receivable 59.6
Total	4,231.9	4,321.4	-89.4	

## Liabilities and Equity

(Billions of Yen)

	Sep.30,2016	Mar.31,2016	Difference	Explanations
Liabilities	3,781.8	3,936.2	-154.4	Interest-bearing Debt -76.1 Short-term liabilities to subsidiaries and affiliated companies -28.2 Accounts payable other -26.6 Accounts payable trade -24.6
Equity	450.1	385.1	64.9	FY2016 2Q Net Income 75.6 ▼ <span>+1.7%</span> [Equity Ratio] Sep.30,2016 10.6% Mar.31,2016 8.9%
Total	4,231.9	4,321.4	-89.4	

### 【Reference : The breakdown of Interest-bearing Debt 】

(Billions of Yen)

	Sep.30,2016	Mar.31,2016	Difference
Bonds	1,164.4	1,124.4	40.0
Loans	1,779.5	1,895.6	-116.1
Total	2,943.9	3,020.0	-76.1



# Income Statement and Balance Sheet (Consolidated)

10

## Income Statement Summary

		(Billions of Yen,%)				FY2016 2Q Consolidated Ratio ( 1.07 )
		FY2016 2Q	FY2015 2Q	Difference	Ratio	
Ordinary Revenues	Operating Revenue (Sales)	928.2	931.3	-3.0	99.7	
	Electric	859.2	861.8	-2.5	99.7	
	Other	69.0	69.5	-0.5	99.2	
	Other Revenues	8.8	7.2	1.6	122.4	
	Total	937.1	938.6	-1.4	99.8	
Ordinary Expenses	Operating Expenses	813.5	850.8	-37.2	95.6	
	Electric	751.8	789.6	-37.7	95.2	
	Other	61.6	61.1	0.4	100.8	
	Other Expenses	23.2	22.2	0.9	104.5	
	Total	836.7	873.0	-36.2	95.8	
(Operating Income)		(114.7)	(80.5)	(34.1)	142.4	( 1.08 )
Ordinary Income		100.3	65.5	34.8	153.1	( 1.10 )
Reserve for Fluctuation In Water Levels		0.4	3.9	-3.4	12.4	
Extraordinary gain		-	2.9	-2.9	-	
Extraordinary loss		10.0	-	10.0	-	
Net Income attributable to owners of parent		81.4	53.5	27.8	152.0	( 1.08 )
Comprehensive Income		77.9	47.9	29.9	162.4	

## Balance Sheet Summary

		(Billions of Yen,%)		
		Sep.30,2016	Mar.31,2016	Difference
Total Assets		4,646.1	4,748.2	-102.1
Liabilities		4,077.9	4,248.3	-170.3
	Interest-bearing Debt	3,133.0	3,224.8	-91.8
Equity		568.1	499.9	68.2
【Reference】 Equity Ratio		11.8	10.1	1.7

(Billions of Yen)

		FY2016 2Q	FY2015 2Q	Difference	Explanations
Electric power	Sales	861.2	863.7	-2.4	
	Operating Income	105.5	70.2	35.2	
Energy-related business	Sales	79.4	80.1	-0.7	Decrease in sales of LNG and other gas due to a decline gas price Increase of sales in overseas electricity business
	Operating Income	3.2	3.6	-0.3	Decrease of gas and other sales volume etc.
IT and Telecommunications	Sales	46.1	42.6	3.4	Increase in commissioned information system development projects etc.
	Operating Income	3.7	4.0	-0.2	Increase in depreciation associated with the expansion of broadband services etc.
Other	Sales	12.1	12.9	-0.8	Decrease of revenue from the sales of real estate
	Operating Income	2.1	2.0	0.1	Decrease in depreciation of rental buildings

Note: The above amounts represent figures prior to elimination of transactions among segments.

# Cash Flow (Consolidated)

12

(Billions of Yen)

	FY2016 2Q	FY2015 2Q	Difference	Explanations
Cash flows from operating activities ( A )	97.0	89.9	7.0	Decrease of thermal fuel cost 91.4 Decrease of revenue from lighting and power -65.9
Cash flows from investing activities	-143.5	-113.0	-30.4	Increase of capital investment -22.6 Decrease of redemptions and sales of investment securities -10.8
Reposting of capital expenditures including nuclear fuel [Figures are included above] ( B )	(-154.7)	(-132.0)	(-22.6)	
Cash flows from financing activities	-91.2	-124.9	33.6	Increase of revenue from issuance of bonds 89.6 Increase of repayment of loan -57.5
Change in cash & cash equivalents	-139.4	-148.5	9.0	

(Reference) Free cash flows ( A ) + ( B )	-57.6	-42.0	-15.5
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# **FY2016 Financial Results and Dividend Forecasts**

# FY2016 Financial Results and Dividend Forecasts

13

Sales of FY2016 will be around ¥1,810.0 billion in the full year, which is lower than FY2015, because lighting and power revenue will decrease mainly due to a decrease in charge unit price with the effect of fuel cost adjustment system and in electricity sales volume, while grant based on the Act on Purchase of Renewable Energy Sourced Electricity will increase in electricity business.

Ordinary income will be around ¥75.0 billion in the full year, which is lower than FY2015 because the temporary effect of improvements in profitability will lessen significantly based on the fuel cost adjustment system, though we keep making every group-wide effort to achieve thorough efficiency and the fuel cost decreased due to restarting Sendai nuclear power since August, 2015 in electricity business.

In addition, profit attributable to owners of parent will be ¥60.0 billion, which is lower than FY2015 due to extraordinary losses of ¥10.0billion, associated with the 2016 Kumamoto Earthquake.

## 【Consolidated】

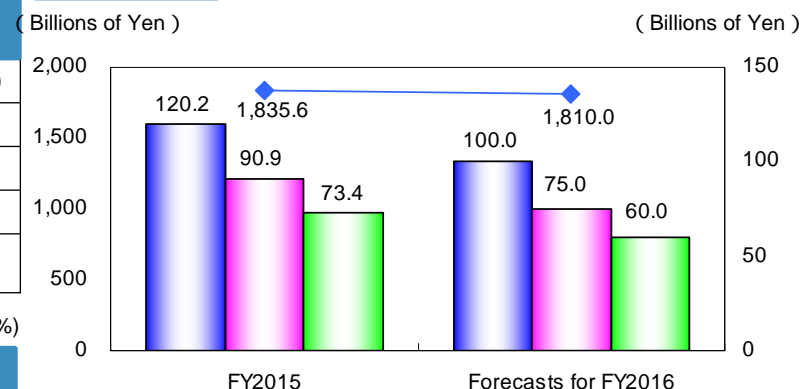
	Revised Forecasts (October)	FY2015	Difference	Ratio
Sales	1,810.0	1,835.6	-25.6	98.6
Operating income	100.0	120.2	-20.2	83.2
Ordinary income	75.0	90.9	-15.9	82.5
Extraordinary loss	10.0	-	10.0	-
Net Income attributable to owners of parent	60.0	73.4	-13.4	81.6

(Billions of Yen,%)

Previous Forecasts (July)
1,810.0
-
-
-
-

Consolidated

Operating income(right) Ordinary income(right)  
Net income(right) Sales(left)



## 【Non-consolidated】

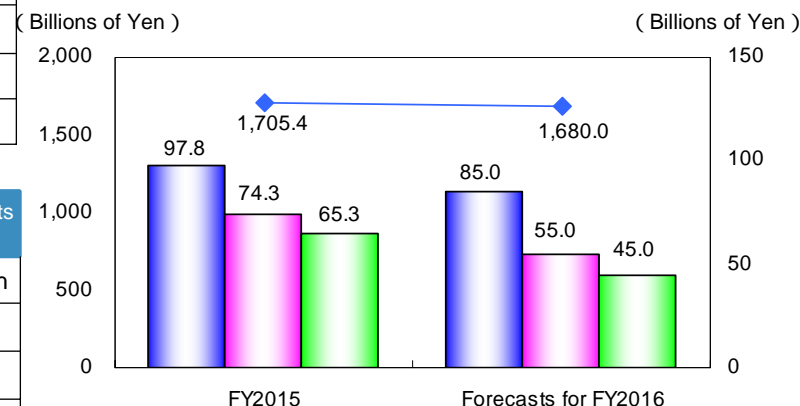
	Revised Forecasts (October)	FY2015	Difference	Ratio
Sales	1,680.0	1,705.4	-25.4	98.5
Operating income	85.0	97.8	-12.8	86.9
Ordinary income	55.0	74.3	-19.3	74.0
Extraordinary loss	9.5	-	9.5	-
Net Income	45.0	65.3	-20.3	68.9

(Billions of Yen,%)

Previous Forecasts (July)
1,680.0
-
-
-
-

Non-Consolidated

Operating income(right) Ordinary income(right)  
Net income(right) Sales(left)



## 【Reference : Key Factors】

	Revised Forecasts (October)	FY2015	Difference	Previous Forecasts (July)
Electricity sales volume	78.6 Billion kWh	79.2 Billion kWh	-0.6 Billion kWh	79.0 Billion kWh
Crude oil (CIF) price	47 \$/b	49 \$/b	-2 \$/b	48 \$/b
Exchange rate	105 ¥/\$	120 ¥/\$	-15 ¥/\$	106 ¥/\$
Nuclear Power Utilization rate	31.6 %	20.7 %	10.9 %	-

**(Reference) Data**

# Revenues from lighting and Power and from Others (Non-Consolidated)

14

	(Billions of Yen,%)			
	FY2016 2Q	FY2015 2Q	Difference	Ratio
Lighting and Power	679.0	731.9	-52.9	92.8

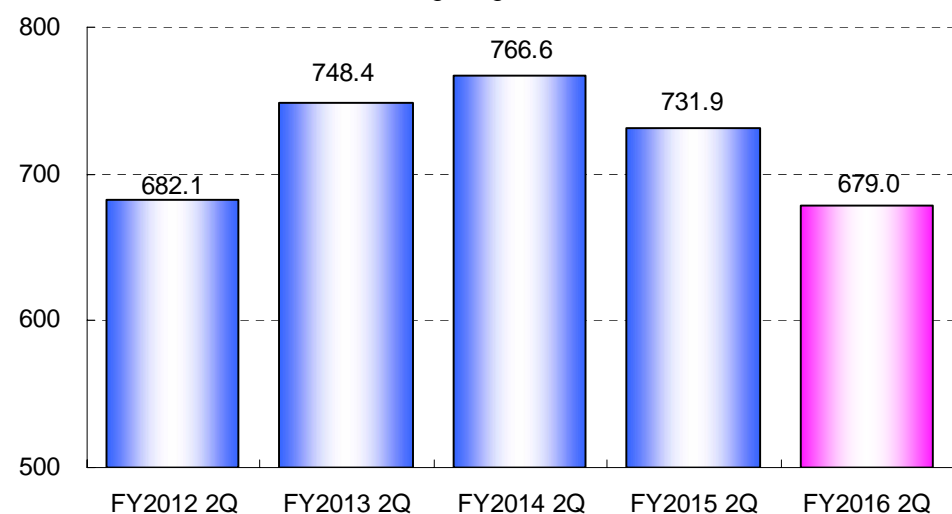
	(Billions of Yen,%)			
	FY2016 2Q	FY2015 2Q	Difference	Ratio
Others	193.9	153.0	40.8	126.7

	Difference	FY2016 2Q	FY2015 2Q
1. Effect of fuel cost adjustment	-81.3	( -77.8	3.5 )
2. Renewable Energy Power Promotion Surcharge	24.9	( 74.4	49.4 )
3. Decrease in electricity sales volume	1.9		

	Difference	FY2016 2Q	FY2015 2Q
1. Grant based on the Act on Purchase of Renewable Energy Sourced Electricity	40.1	( 147.2	107.1 )
2. Electricity Sales to Others	6.1	( 16.1	9.9 )
3. Proceed from dividends	-7.6	( 3.0	10.6 )

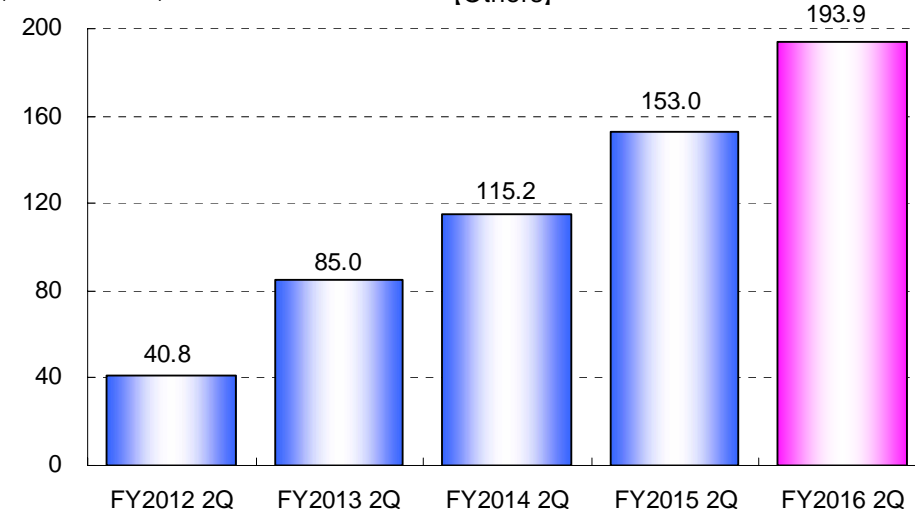
(Billions of Yen)

[Lighting and Power]



(Billions of Yen)

[Others]





# Expenses for Fuel and Power purchase (Non-Consolidated)

15

	FY2016 2Q	FY2015 2Q	Difference	Ratio
Fuel	112.3	204.1	-91.8	55.0

Difference

1. Effect of operation in Sendai Nuclear Power	-39.0
2. Drop in CIF	-29.7
3. Exchange losses	-15.2

[ Reference1 ] All Japan CIF prices

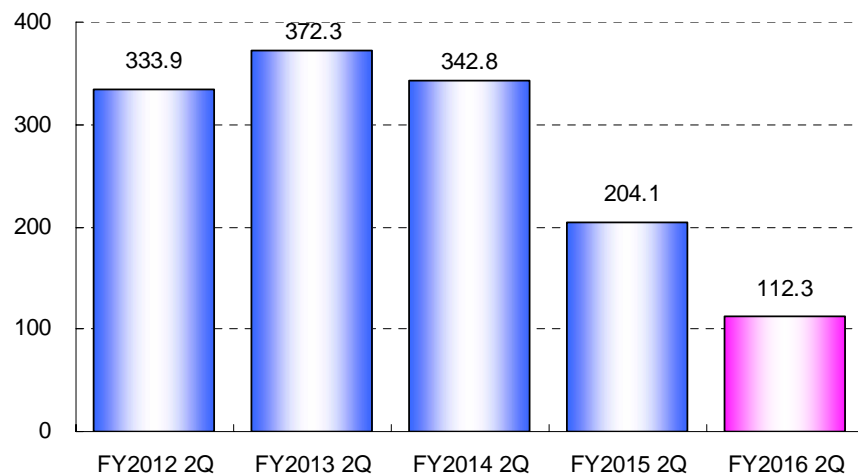
	FY2016 2Q	FY2015 2Q	Difference
Coal(\$/t)	69	80	-11
LNG(\$/t)	322	479	-157
Crude oil(\$/b)	44	59	-15

[ Reference2 ] Fuel consumption

	FY2016 2Q	FY2015 2Q	Difference
Coal (thousand. ton)	2,772	2,814	-42
Heavy oil (thousand. kiloliter)	120	636	-516
Crude oil (thousand. kiloliter)	47	280	-233
LNG (thousand. ton)	1,901	1,973	-72

(Billions of Yen)

[Fuel]



	FY2016 2Q	FY2015 2Q	Difference	Ratio
Power purchase	219.6	211.4	8.1	103.8

Difference

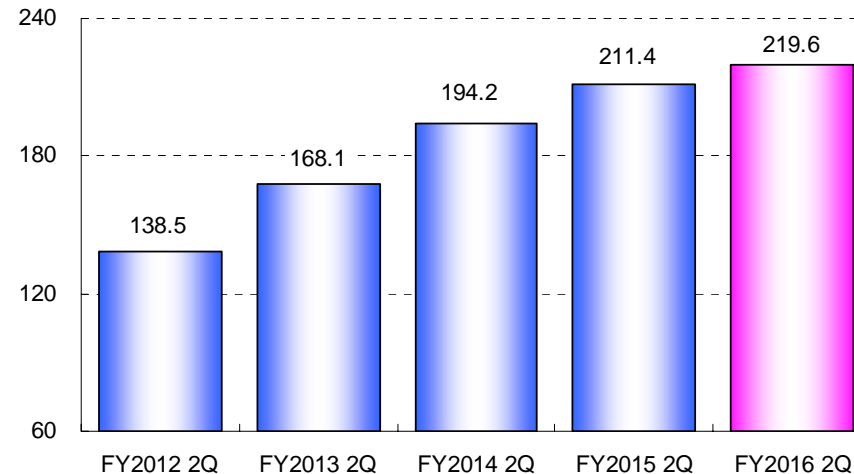
FY2016 2Q

FY2015 2Q

1. Purchase from other companies	12.8	( 219.1	206.2 )
Purchase of Renewable Energy Sourced Electricity	38.0	( 169.9	131.8 )
Thermal from other companies	-23.9	( 41.3	65.2 )
2. Purchase from other electric companies	-4.6	( 0.4	5.1 )

(Billions of Yen)

[Power purchase]



# Expenses for Maintenance and Depreciation (Non-Consolidated)

16

(Billions of Yen,%)

	FY2016 2Q	FY2015 2Q	Difference	Ratio
Maintenance	58.5	58.4	-	100.1

Difference FY2016 2Q FY2015 2Q

1. Thermal	1.8	( 18.6	16.7 )
2. Distribution	1.1	( 21.7	20.6 )
3. Nuclear	-2.1	( 7.9	10.0 )
4. New Energy	-0.5	( 0.6	1.2 )

(Billions of Yen,%)

	FY2016 2Q	FY2015 2Q	Difference	Ratio
Depreciation	88.0	80.1	7.9	109.9

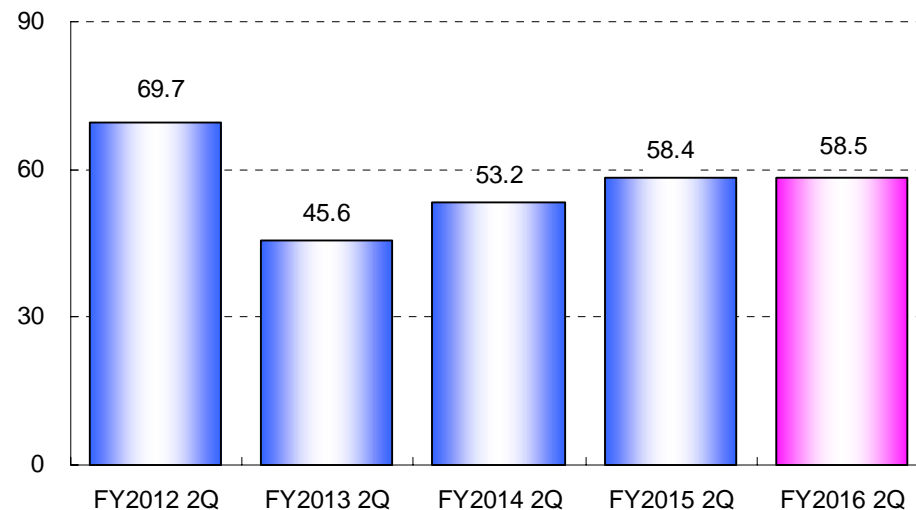
Difference FY2016 2Q FY2015 2Q

1. Regular depreciation	6.6	( 86.7	80.1 )
Nuclear	3.9	( 18.4	14.4 )
Thermal	3.1	( 10.3	7.2 )
2. Trial operations depreciation	1.2	( 1.2	- )

Expansion of unit No. 3 x 4 at the Shin-Oita Power Station  
(trial operation : 2016.1, commercial operation : 2016.6)

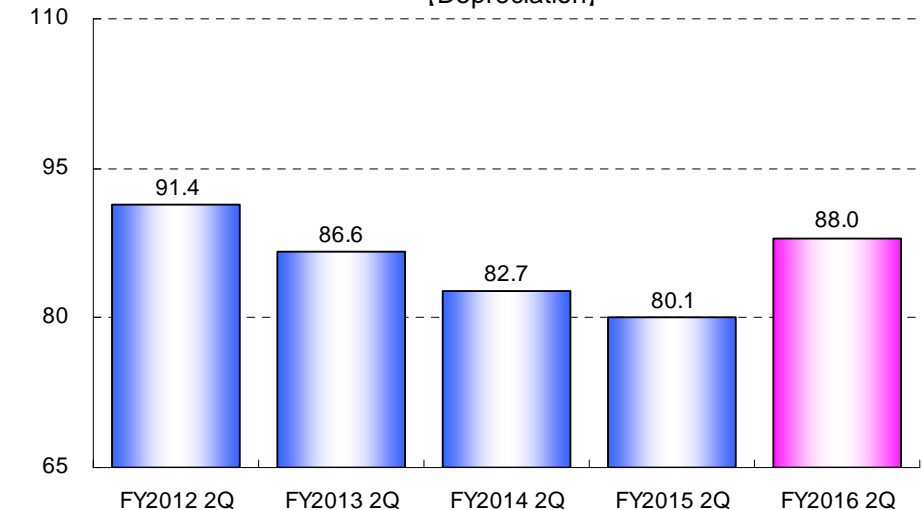
(Billions of Yen)

[Maintenance]



(Billions of Yen)

[Depreciation]



# Expenses for Labor and Others (Non-Consolidated)

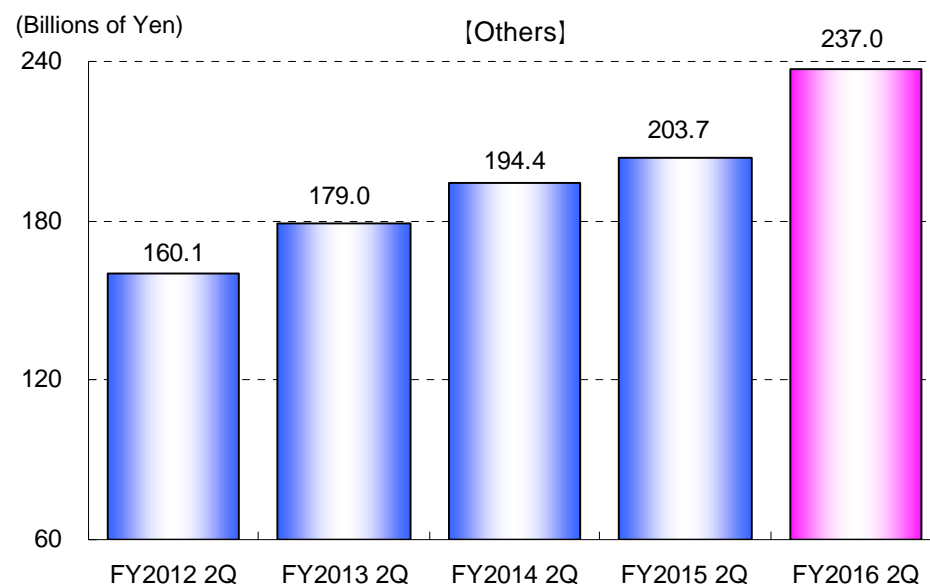
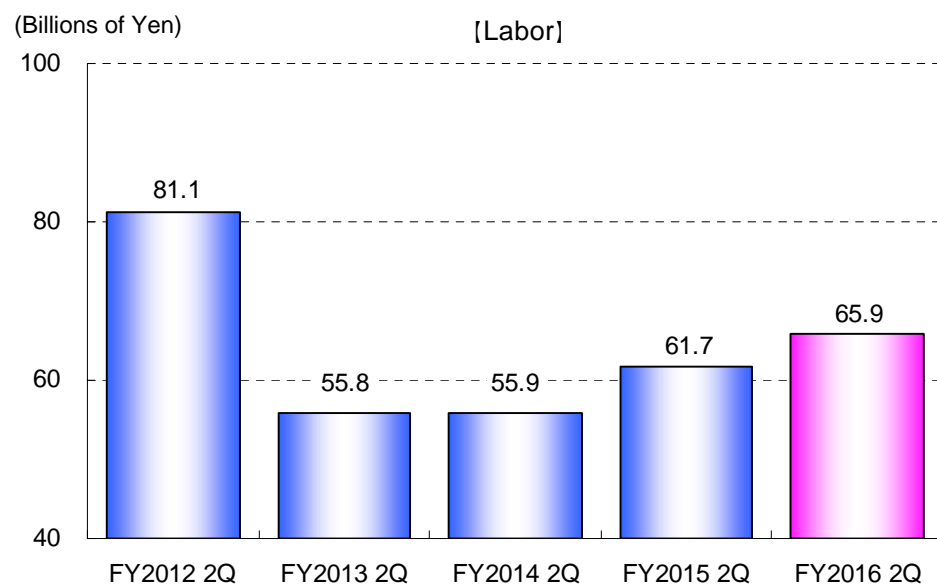
17

	(Billions of Yen,%)			
	FY2016 2Q	FY2015 2Q	Difference	Ratio
Labor	65.9	61.7	4.1	106.7

	(Billions of Yen,%)			
	FY2016 2Q	FY2015 2Q	Difference	Ratio
Others	237.0	203.7	33.3	116.3

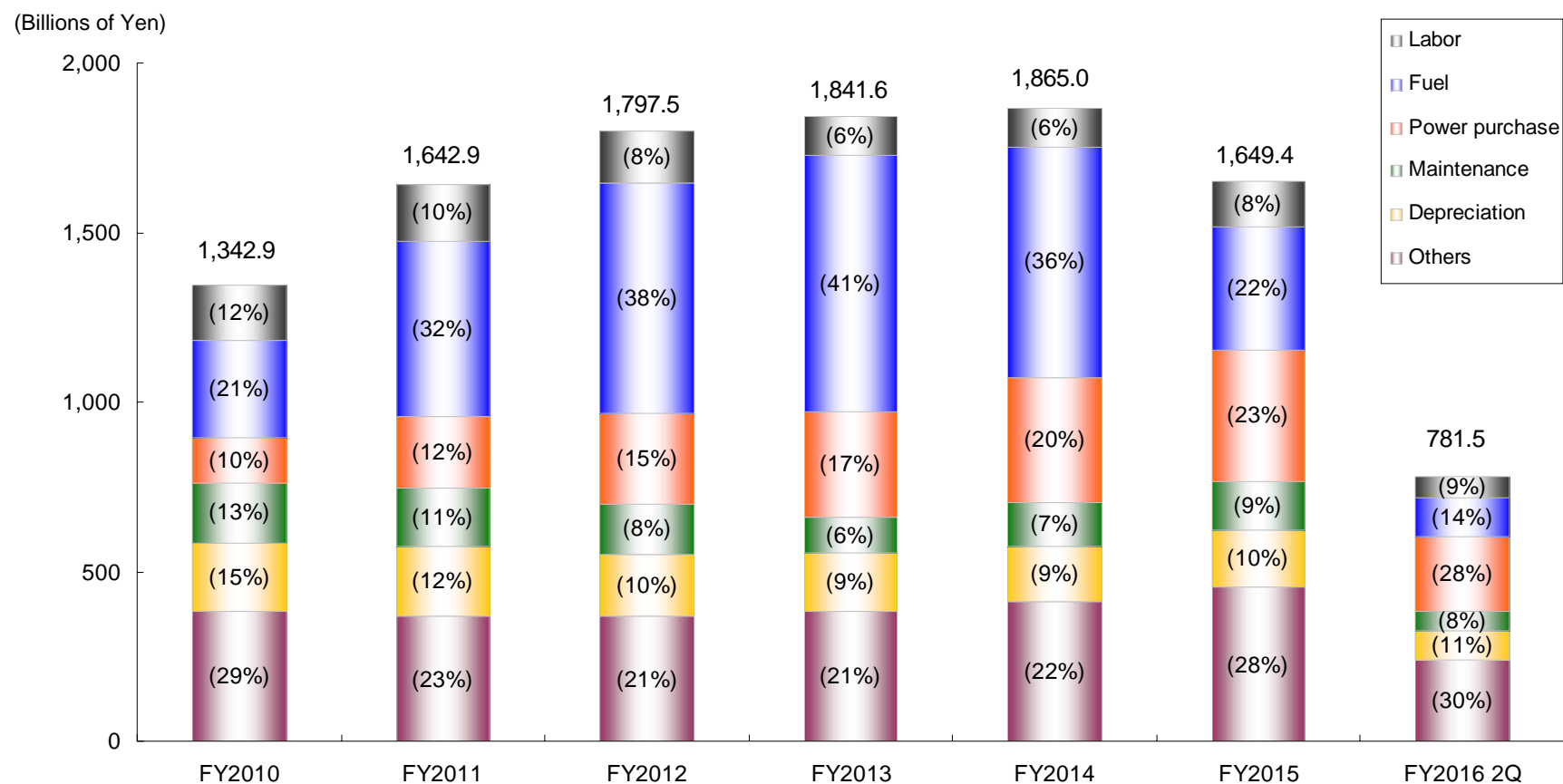
	Difference	FY2016 2Q	FY2015 2Q
Employee retirement benefits	2.4	( 4.6	2.2 )
Amortization of actuarial differences	1.8	( 1.7	- )
Salary	1.5	( 47.6	46.0 )

	Difference	FY2016 2Q	FY2015 2Q
1. Levy based on the Act on Purchase of Renewable Energy Sourced Electricity	24.9	( 74.4	49.4 )
2. Nuclear back-end	5.2	( 13.8	8.5 )
Effect of operation in Sendai Nuclear Power	6.0	( 6.8	0.7 )
3. Overhead expenses	4.0	( 62.4	58.3 )



# Components of Operating Expense in Electricity Business (Non-Consolidated)

18



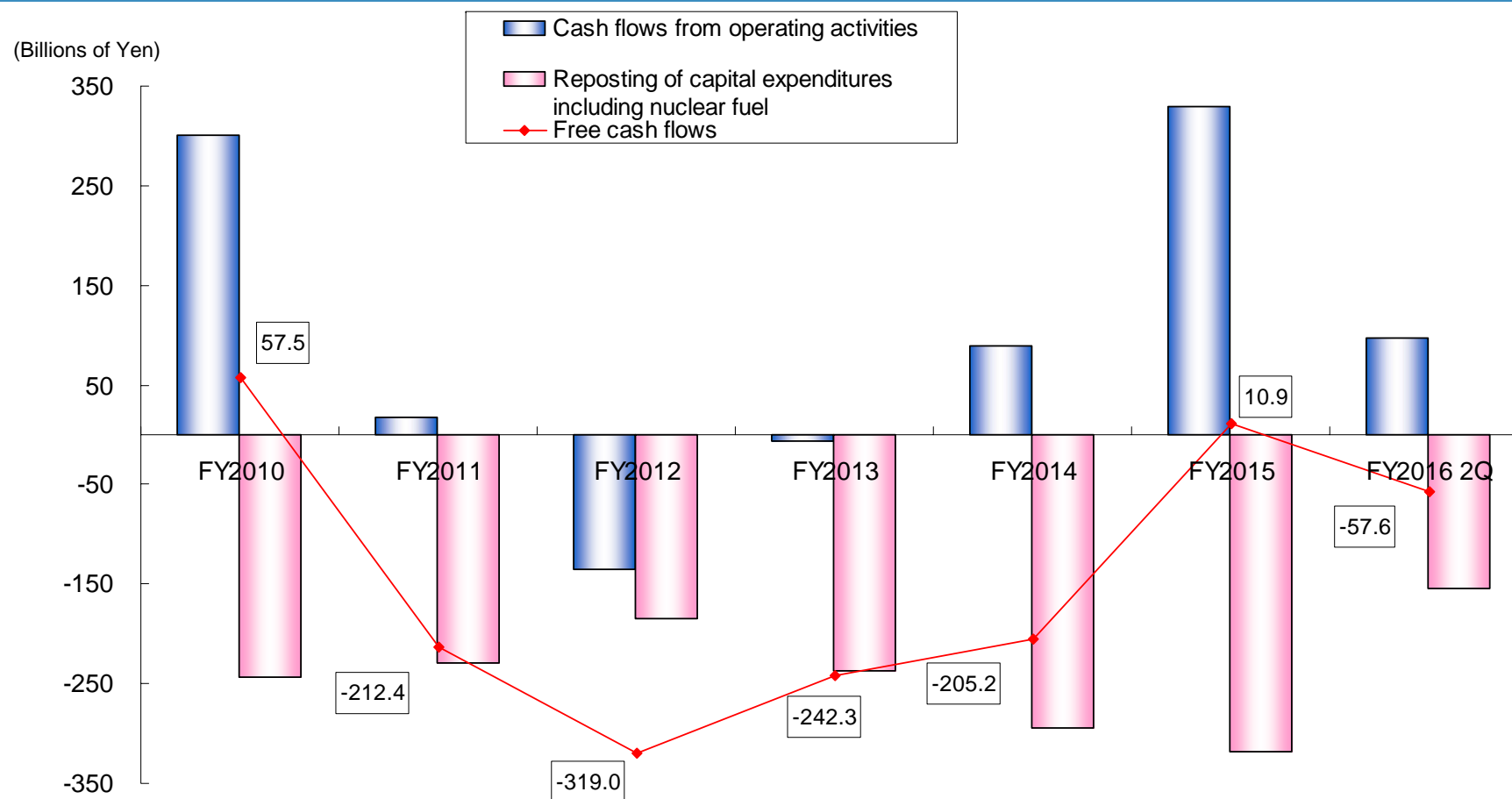
( ) is a component ratio in each fiscal year

(Billions of Yen)

	FY2010	FY2011	FY2012	FY2013	FY2014	FY2015	FY2016 2Q
Labor	162.6	167.9	151.8	113.7	113.1	131.0	65.9
Fuel	284.8	520.2	679.7	754.4	678.4	364.7	112.3
Power purchase	137.0	206.0	269.5	314.9	372.4	386.8	219.6
Maintenance	175.9	176.0	147.9	103.1	126.6	144.4	58.5
Depreciation	197.9	202.1	180.1	172.3	164.7	167.0	88.0
Others	384.4	370.5	368.2	383.0	409.6	455.3	237.0
Total	1,342.9	1,642.9	1,797.5	1,841.6	1,865.0	1,649.4	781.5

# Free Cash Flow (Consolidated)

19

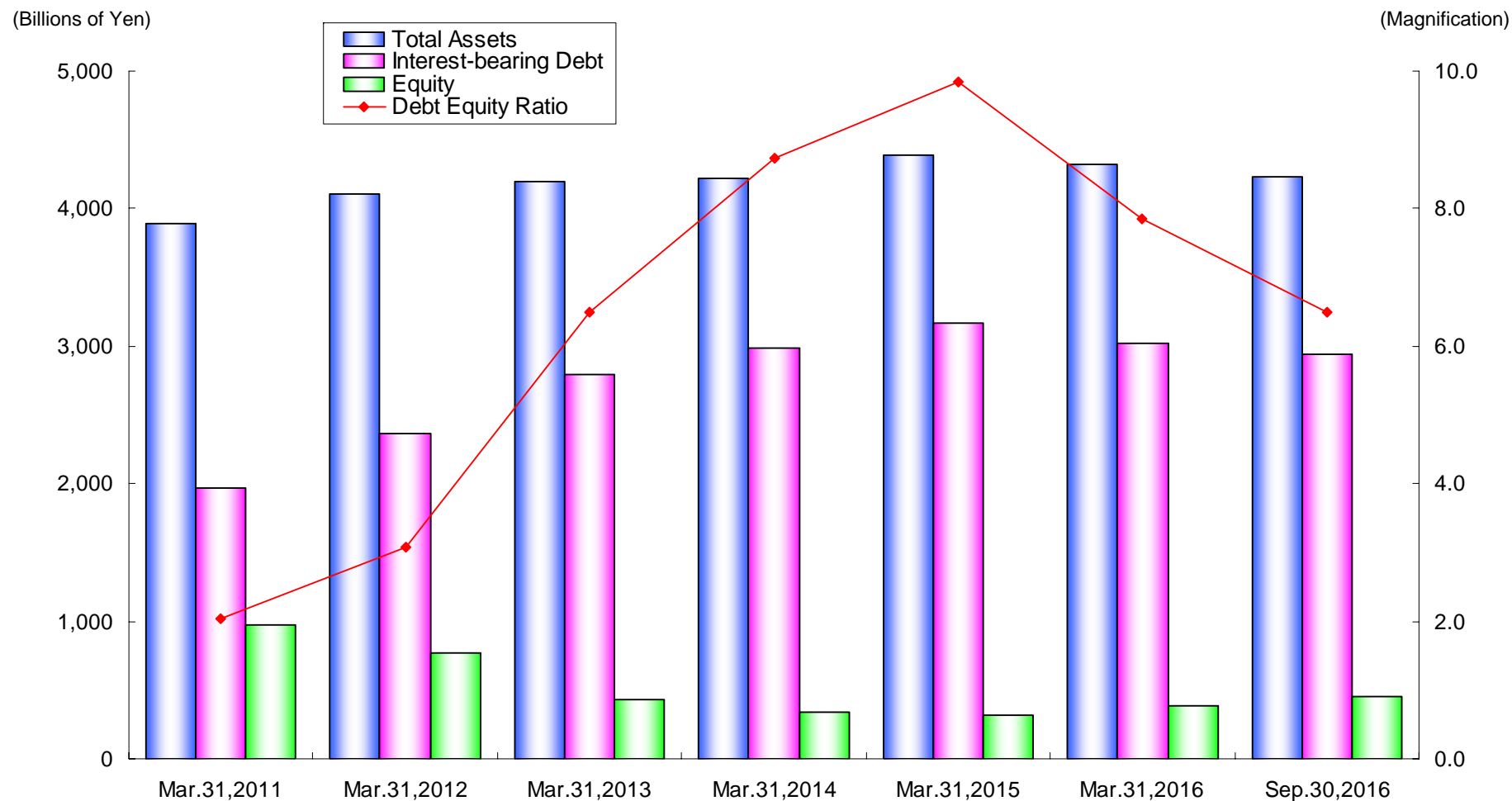


(Billions of Yen)

Cash flows from operating activities	301.3	16.9	-135.1	-5.9	-88.7	329.4	97.0
Reposting of capital expenditures including nuclear fuel	-243.7	-229.3	-183.9	-236.3	-293.9	-318.4	-154.7
Free cash flows	57.5	-212.4	-319.0	-242.3	-205.2	10.9	-57.6

# Total Assets, Interest Bearing Debt, Equity, Debt- Equity Ratio (Non-Consolidated)

20

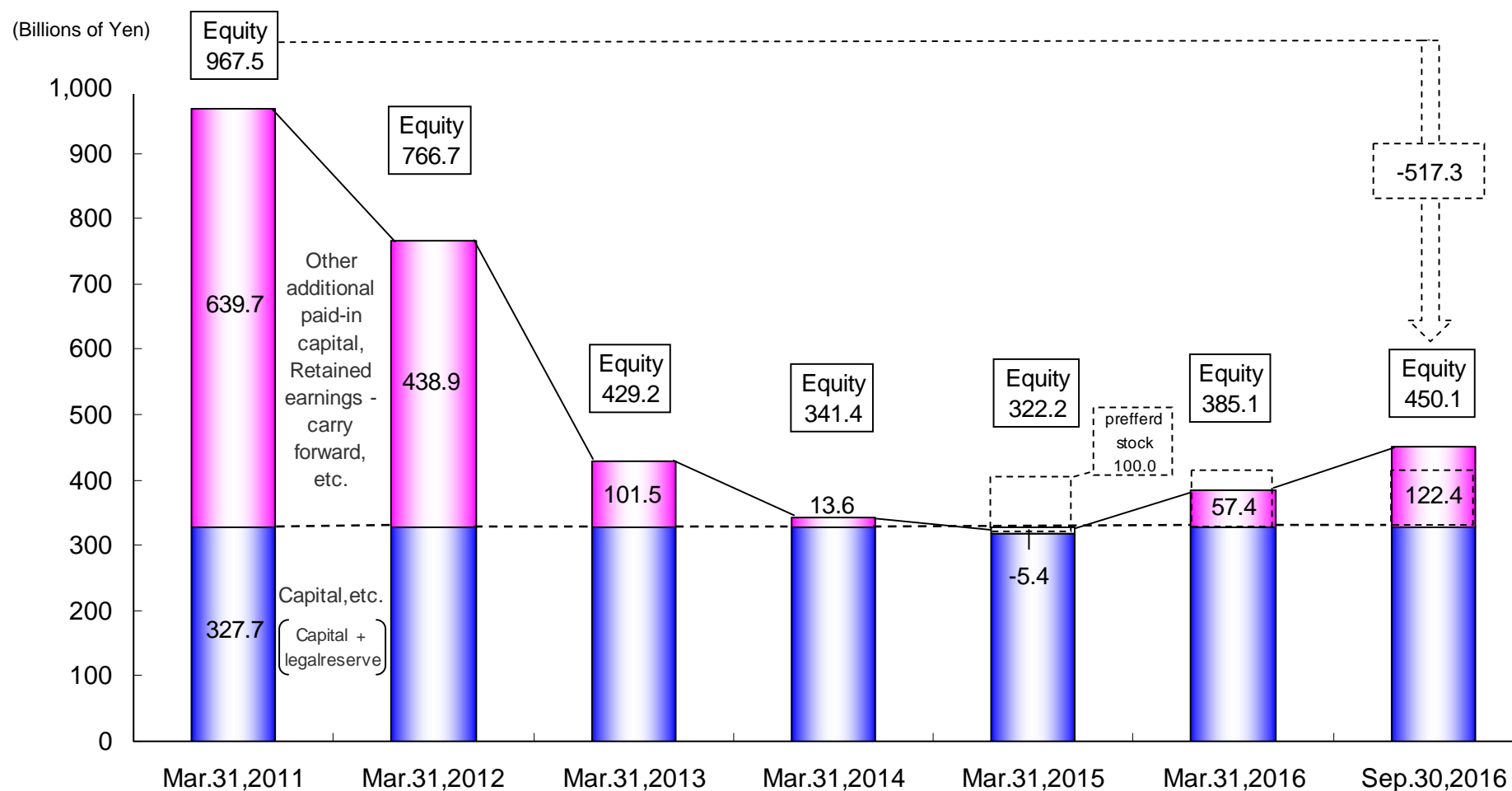


(Billions of Yen, Magnification )

Total Assets	3,890.8	4,110.9	4,201.7	4,218.0	4,390.9	4,321.4	4,231.9
Interest-bearing Debt	1,968.1	2,360.1	2,789.0	2,983.8	3,168.2	3,020.0	2,943.9
Equity	967.5	766.7	429.2	341.4	322.2	385.1	450.1
Debt Equity Ratio	2.0	3.1	6.5	8.7	9.8	7.8	6.5

# Changes in Equity (Non-Consolidated)

21



Equity Ratio (%)	24.9	18.7	10.2	8.1	7.3	8.9	10.6
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