

# Presentation Materials for Investors

August, 2014



Note: The Company's fiscal year (FY) is from April 1 to March 31 of the following year.

FY2014 represents the fiscal year begun in April 1, 2014, and ending in March 31, 2015.

1st Quarter (1Q) represents three months period ended June 30, 2014.

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# I Outline of Financial Results for Three-Months Ended June 30, 2014

Note: We hereby announces a revision of this "Presentation Materials for Investors".  
We correct it as follows. (August 26,2015)

Corrected parts

Slide4 Generated and Received Power Change (A-B)/B

	correct	incorrect
Power used for pumped storage	(27.4)	(26.0)

# Summary of Financial Results <1>

1

- Operating revenues increased. (The First time in two years after 1Q of FY2012)
- We recorded an operating income and ordinary income, net income.  
(The First time in three years after 1Q of FY2011).

## [Consolidated]

(Billion yen,%)

	2014/1Q (A)	2013/1Q (B)	Change	
			(A-B)	(A-B)/B
Operating revenues	723.1	623.3	99.8	16.0
Operating income (loss)	24.2	(36.9)	61.1	—
Ordinary income (loss)	15.0	(46.3)	61.4	—
Net income (loss)	11.9	(29.5)	41.4	—

## [Non-Consolidated]

(Billion yen,%)

	2014/1Q (A)	2013/1Q (B)	Change	
			(A-B)	(A-B)/B
Operating revenues	681.4	586.0	95.4	16.3
Operating income (loss)	20.3	(39.6)	59.9	—
Ordinary income (loss)	9.3	(45.9)	55.3	—
Net income (loss)	7.3	(28.2)	35.6	—

## [Principal Figures]

*Rounded down to nearest 100 million yen.*

Items	2014/1Q (A)	2013/1Q (B)	Change (A-B)
Electricity sales volume (TWh)	29.2	29.3	(0.1)
CIF price: crude oil (\$/b)	109.6	107.8	1.8
FX rate (interbank) (yen/\$)	102	99	3
Nuclear power utilization rate (%)	—	—	—

\* CIF crude oil price for 1Q FY2014 is tentative.

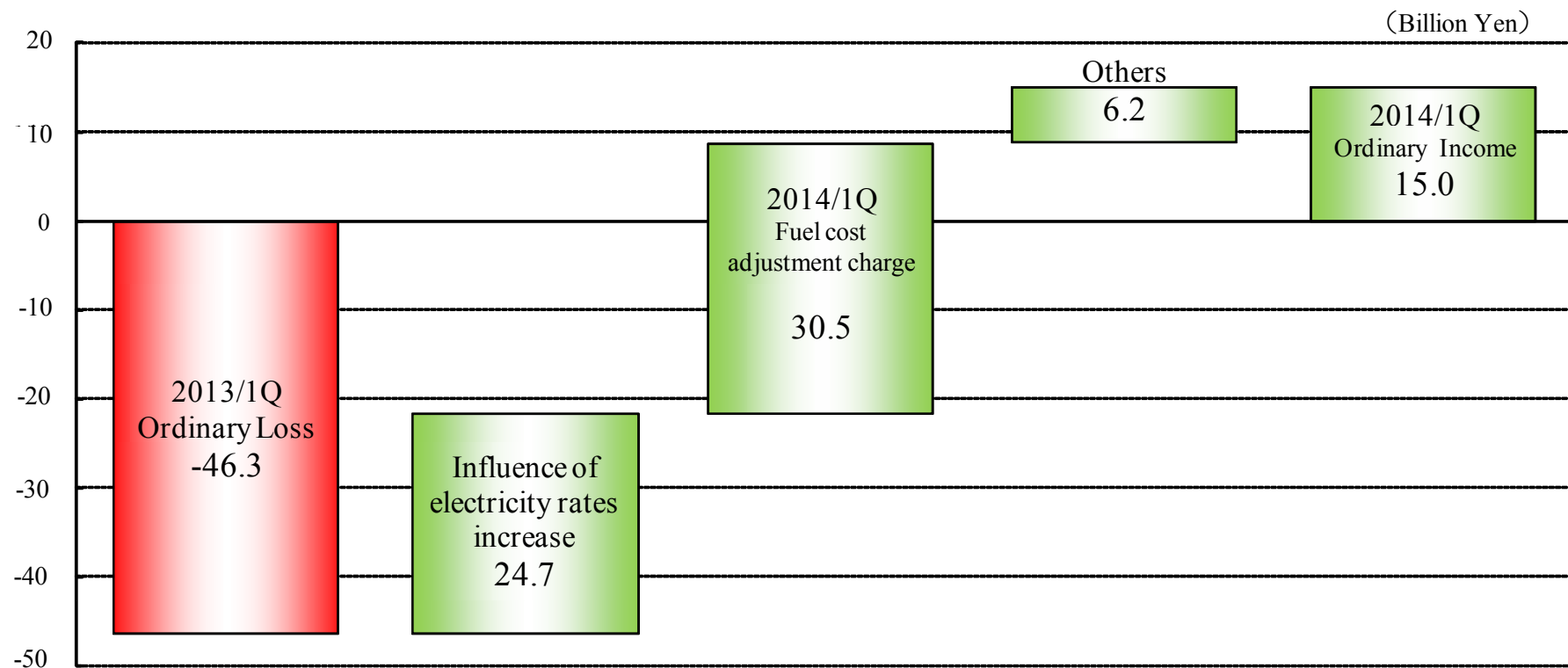
# Summary of Financial Results <2>

2

## < Main factors for year-on-year change in consolidated ordinary income (loss) >

- Influence of electricity rates increase	24.7 billion yen
- 2014/1Q Fuel cost adjustment charge	30.5 billion yen
- Others	6.2 billion yen

【Factors for change in consolidated ordinary income (loss)】



# Electricity Sales Volume

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## <Demand from customers under regulation>

**-Electric lighting** Dropped 2.4% to 7.4TWh, due to a decrease in air conditioning demand by lower temperature in mid-June.

**-Electric power** Dropped 3.1% to 1.3TWh, due to a decrease in number of contracts and a decrease in air conditioning demand affected by temperature.

## <Demand from customers under liberalization>

**-Commercial power** Dropped 0.8% to 5.0TWh, due to a decrease in air conditioning demand affected by temperature.

**-Industrial power** Increased by 1.0% to 15.5TWh, due to an increase of production in the machine industry.

		(TWh, %)			
		2014/1Q (A)	2013/1Q (B)	Change (A-B)	(A-B)/B
Demand from customers under regulation	Electric lighting	7.4	7.6	(0.2)	(2.4)
	Electric power	1.3	1.3	(0.0)	(3.1)
	Subtotal	8.7	8.9	(0.2)	(2.5)
Demand from customers under liberalization	Commercial power	5.0	5.0	(0.0)	(0.8)
	Industrial power, etc	15.5	15.4	0.1	1.0
	<Large-lot Demand>	<12.7>	<12.5>	<0.2>	<1.0>
	Subtotal	20.5	20.4	0.1	0.6
Total		29.2	29.3	(0.1)	(0.4)

# Generated and Received Power

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- Hydro** Hydro power output **increased by 0.2TWh**, due to higher water flow.  
(flow rate for 2014/1Q:**87.8%**, 2013/1Q:**83.0%**)
- Thermal** Thermal power output **increased by 0.3TWh**, because of a decrease in interchanged power and purchased power, as well as the above reason.

		(TWh, %)			
		2014/1Q (A)	2013/1Q (B)	Change (A-B) (A-B)/B	
Internally generated	<b>Hydro</b>	2.3	2.1	0.2	7.2
	<flow rate>	<87.8>	<83.0>	<4.8>	
	<b>Thermal</b>	27.3	27.0	0.3	1.0
	<b>Nuclear</b>	—	—	—	—
	<utilization rate>	<—>	<—>	<—>	
<b>Renewable energy</b>		0.0	0.0	(0.0)	(5.7)
<b>Interchanged, Purchased power</b>		1.7	2.5	(0.8)	(30.8)
<b>Power used for pumped storage</b>		(0.2)	(0.2)	0.0	(27.4)
<b>Total</b>		31.1	31.4	(0.3)	(0.9)

# Consolidated Financial Standing

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- Total assets** Decreased **60.8 billion yen** from the end of FY2013, because of decrease of electric utility plant and equipment, due to progress of depreciation, and also decrease in current asset, such as short-term investment.
- Net assets** Increased **5.3 billion yen** from the end of FY2013, due to Net Income.

	(Billion yen)		
	End of June 2014 (A)	End of March 2014 (B)	Change (A-B)
Assets	5,721.2	5,782.1	(60.8)
Liabilities	4,278.8	4,345.0	(66.1)
Net assets	1,442.4	1,437.1	5.3
	(Billion yen, %)		
Shareholders' equity ratio	24.6 <22.3>	24.2 <22.0>	0.4 <0.3>
Outstanding interest-bearing debt	3,219.5 <3,254.0>	3,260.0 <3,294.6>	(40.5) <(40.6)>
Average interest rate	<1.26>	<1.28>	<(0.02)>

Non-consolidated figures in < >.  
Rounded down to nearest 100 million yen.



# Summary of Forecast for FY 2014

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(billion yen)

- Consolidated	FY 2014 forecast (Current) (A)	FY 2014 forecast (Apr.28) (B)	Change (A)-(B)
Operating revenues	3,090.0	3,090.0	—
Operating income	75.0	65.0	10.0
Ordinary income	30.0	20.0	10.0
Net income	38.0	12.0	26.0

## [Principal factors affecting ordinary income]

A decrease of fuel cost adjustment charge	- 24.0
A decrease of fuel price	+ 37.0
Others	- 3.0
Effect on ordinary income	+ 10.0

(billion yen)

-Non-consolidated	FY 2014 forecast (Current) (A)	FY 2014 forecast (Apr.28) (B)	Change (A)-(B)
Operating revenues	2,870.0	2,870.0	—
Operating income	60.0	50.0	10.0
Ordinary income	20.0	10.0	10.0
Net income	33.0	7.0	26.0

## [Principal factors affecting net income]

Receipt of compensation related to the deficiency of the Company's facilities (extraordinary income)	+28.0
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(billion yen)

-Principal figures		FY 2014 forecast (Current) (A)	FY 2014 forecast (Apr.28) (B)	Change (A)-(B)	Income sensitivity
Electricity sales volume	(TWh)	approx. 125.5	approx. 125.5	—	1% 4.0
CIF price: crude oil	(\$/b)	approx. 110	approx. 110	approx. 0	1\$/b 10.0 <sup>*1,2</sup>
FX rate (interbank)	(yen/\$)	approx. 102	approx. 105	approx. (3)	1yen/\$ 12.0 <sup>*1</sup>

\*1 These figures represent income sensitivity for fuel cost. Fluctuation of CIF price (crude oil) and FX rate will be reflected in sales revenue, in cases where average fuel price fluctuates and fuel cost adjustment system will be applied.

\*2 The impact value of crude oil price includes the impact of LNG price because LNG price is subject to crude oil price.

# Non-consolidated Forecast for FY 2014 (compared to FY 2013)

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	(Billion yen)			[Principal factors affecting ordinary income]	
	FY 2014 Forecast (A)	FY 2013 Result (B)	Change (A)-(B)		
Operating revenues	2,870.0	2,638.2	approx. 232.0	Influence of electricity rates increase	+ 127.0
Operating expenses	2,810.0	2,715.4	approx. 95.0	Others	- 3.0
Operating income(loss)	60.0	(77.2)	approx. 137.0	Effect on ordinary income	+ 124.0
Ordinary income(loss)	20.0	(104.1)	approx. 124.0		
Net income(loss)	33.0	(67.2)	approx. 100.0		

## - Principal Figures

Items		FY2014 Forecast (A)	FY 2013 Result (B)	Change (A-B)
Electricity sales volume	(TWh)	approx.125.5	127.1	approx. (1.6)
CIF price (crude oil)	(\$/b)	approx.110	110.0	approx.0
FX rate (interbank)	(yen/\$)	approx.102	100	approx.2

## - Dividend Forecast

- The Company decided to raise electricity rates towards the improvement of earning structure. Through deliberations at the Expert Committee on Reviewing Electricity Rate, the Company has received a severe assessment, including the request for reduction of fuel expenses and is required to work on a further effort to improve its management efficiency and enhance its damaged financial base.
- Taking all these circumstances into account, the Company forecasts no interim dividend payment for FY2014.
- The Company has not yet decided forecast year-end dividend since it is difficult to foresee the future situation with certain accuracy and rationality.

	Dividends per Share (yen)		
	Interim	Year-end	Total
FY 2014 (Forecast)	0	—	—
FY 2013 (Result)	0	0	0

※Dividends of FY 2014 ending March 2015 has not yet to be decided.

## Ⅱ Management Situation

# Safety Measures at Hamaoka Nuclear Power Station: Roadmap for Safety Improvement Works

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- The Company implements additional safety measures for Unit 3 and Unit 4 including earthquake countermeasures, tornado countermeasures, fire countermeasures and strengthening the water injection function as severe accident countermeasures in addition to voluntarily implementing countermeasures, such as tsunami countermeasures and severe accident countermeasures in order to promptly comply with the new regulatory standards.
- The Company aims to complete the improvement works for Unit 4 by the end of September 2015 and for Unit 3 by the end of September 2016.
- Implementing these additional measures, The Company will complete necessary safety measures for the Unit 3 and Unit 4 in accordance with the new regulatory standards. The Company continues examining safety improvement works for Unit 5.

		FY 2013	FY 2014	FY 2015	FY 2016
Unit 4	Tsunami countermeasures	Reflecting designs for additional safety measures			
	Severe accident countermeasures	Reflecting designs for additional safety measures			
	Additional safety measures based on the new regulatory standards	Earthquake countermeasures, tornado countermeasures, fire countermeasures and strengthening the water injection function as severe accident countermeasures			
Unit 3	Tsunami countermeasures	Reflecting designs for additional safety measures			
	Severe accident countermeasures	Reflecting designs for additional safety measures			
	Additional safety measures basing on the new regulatory standards	Earthquake countermeasures, tornado countermeasures, fire countermeasures and strengthening the water injection function as severe accident countermeasures			

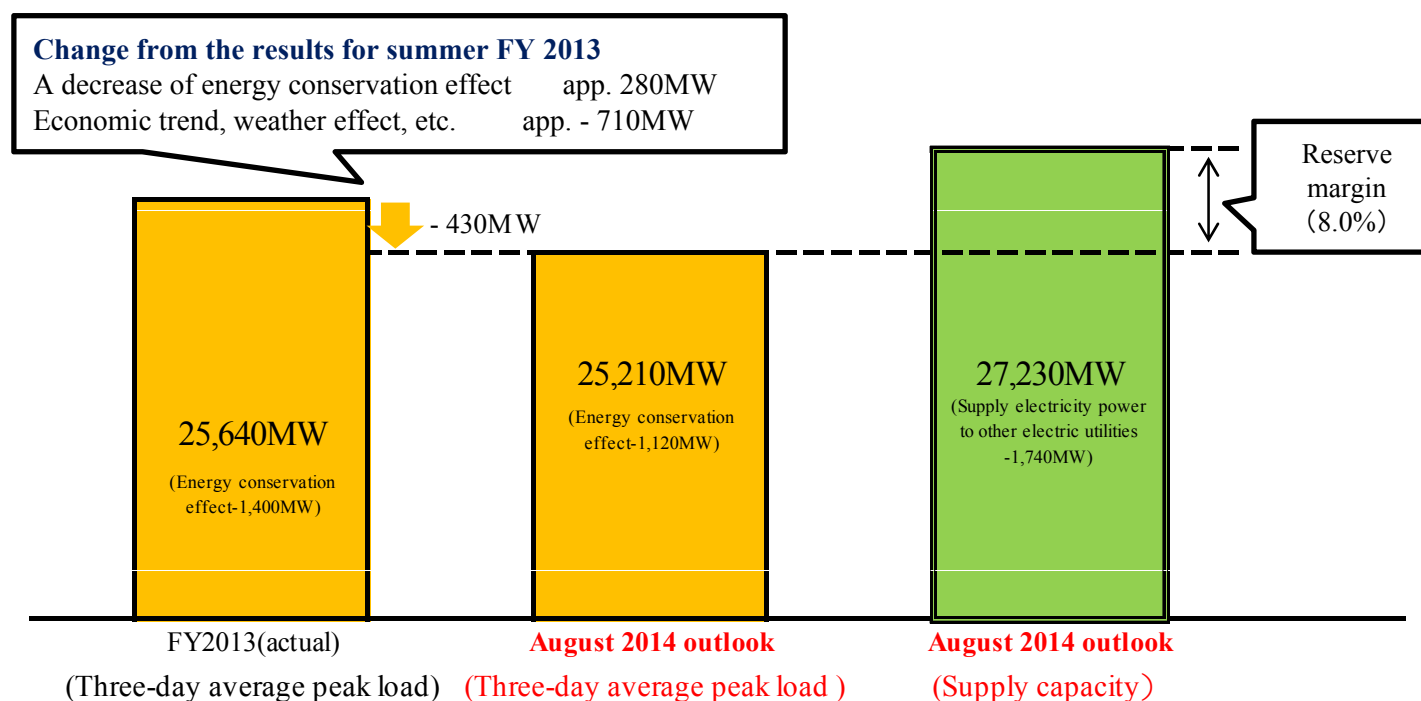
On April 17, 2014, we reported the FY 2014 Summer Supply and Demand Outlook to the Fifth Electric Power Supply and Demand Verification Subcommittee.

## ■ Peak load (three-day average)

We estimated the peak load at 25,210MW with assumption of the effect of customers' energy conservation by 1,120MW in this coming summer.

## ■ Supply capacity

With expectation of commercial start-up of Joetsu Thermal Power Station Unit No. 2-2 and outward power interchange to other EPCOs whose power supply capacity are very tight by approximately 1,740MW, it is estimated that our supply capacity in this coming summer will be 27,230MW.

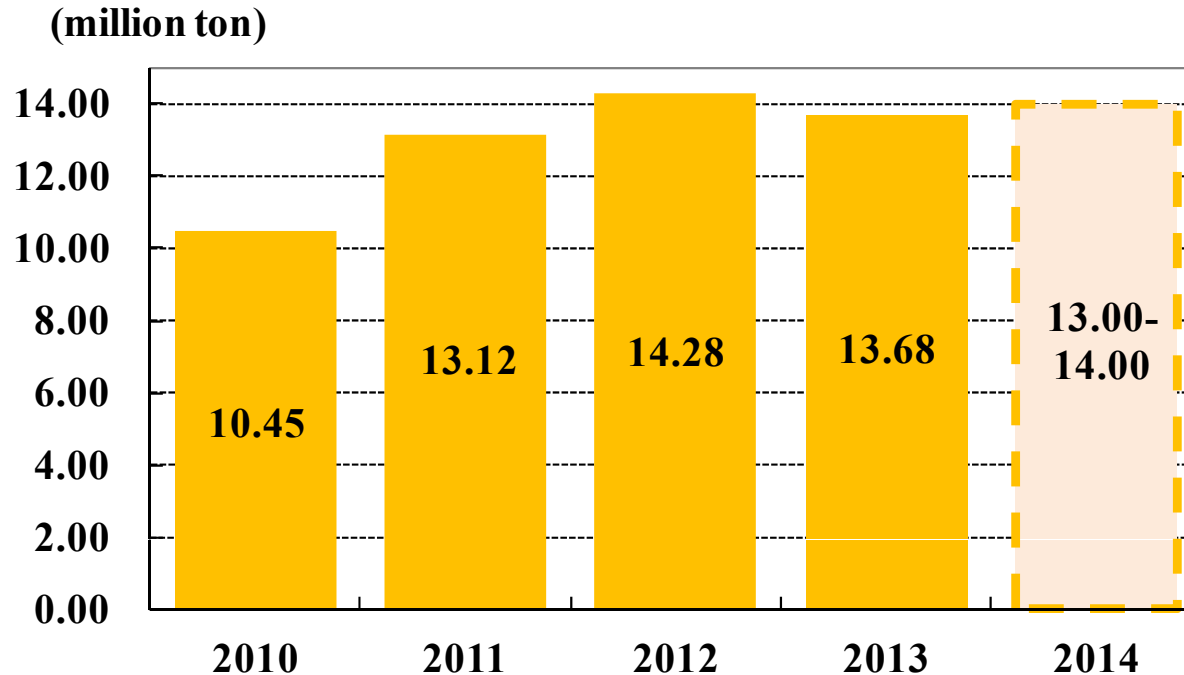


## - Outlook for fuel procurement (LNG)

- After the suspension of all the units of Hamaoka Nuclear Power Station, the Company has increased the utilization of thermal power plants, mostly LNG, to compensate for the loss of power output by nuclear plants.

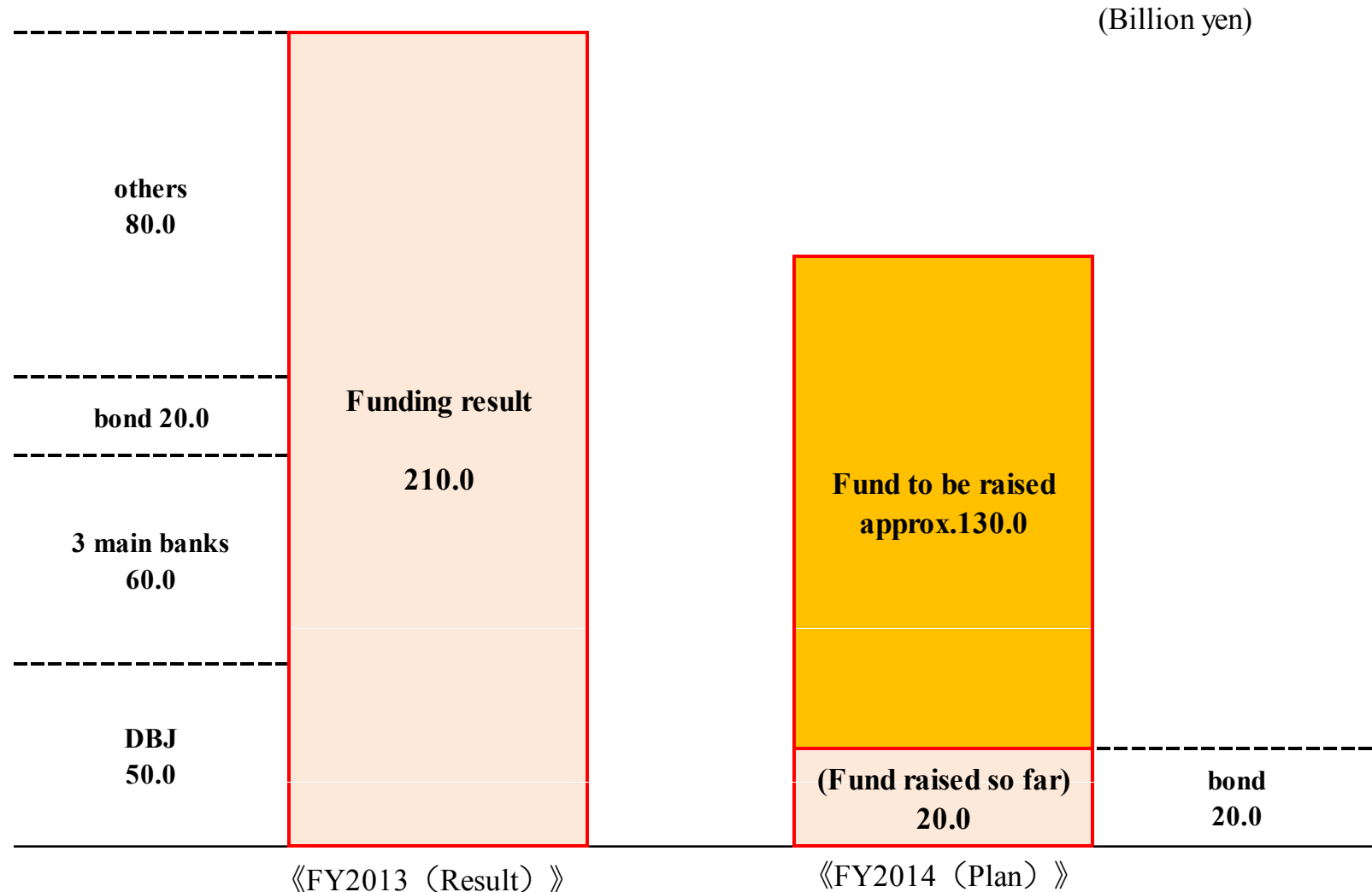
-The Company considers that it needs to procure around 13 - 14 million tons of LNG in FY2014, though the LNG volume it needs to procure will fluctuate depending on the electricity supply-demand situation, including electricity supplied to other EPCos. The Company has already started negotiation with LNG sellers to secure the necessary volume.

## (reference) LNG procurement results



## - Progress of fund raising in FY 2014

- We plan to raise approximately 150 billion yen in long-term funding in FY 2014.
- We have raised approximately 20 billion yen by the end of the first quarter (end of June 2014).





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# The New Regulatory Standards<1>: Outline of "the New Regulatory Standards"

13

Compared to the former safety standards, the new regulatory standards have been strengthened the standards to prevent a severe accident, and newly added the standards to cope with a severe accident or a terrorist attack.

## <Former regulatory standards>

Consideration for a natural phenomenon
Consideration for a fire
Reliability of power supply
Performance of other facilities
Capacity of earthquake resistance and tsunami countermeasures

## <New regulatory standards>

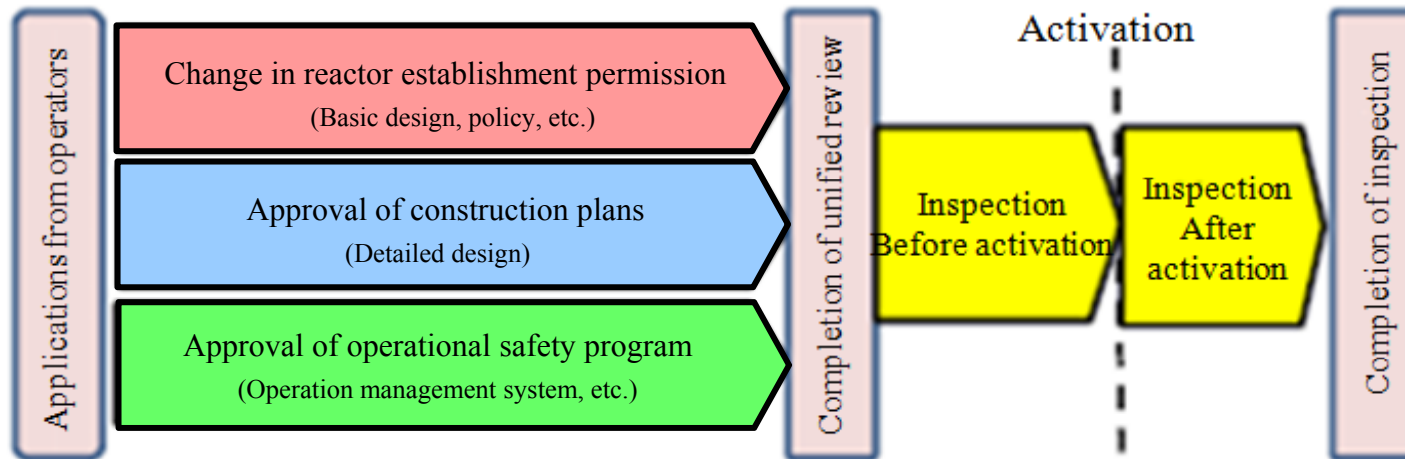
Response to a intentional aircraft collision	New (Terrorist attack countermeasures)
Measures to prevent a large-scale discharge of radioactive materials	
Measures to prevent damage to a reactor containment vessel	New (Severe accident countermeasures)
Measures to prevent damage to a reactor core (Under assumption of multiple failure of equipments)	
Consideration for a internal overflow water (New)	Reinforcement or New
Consideration for a natural phenomenon (New: volcano, tornado, forest fire)	
Consideration for a fire	
Reliability of power supply	
Performance of other facilities	Reinforcement
Capacity of earthquake resistance and tsunami countermeasures	

## The New Regulatory Standards <2>: Method for Conducting Review and Inspection After Enforcement of the New Regulatory Standards (Image)

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- Application for compatibility check to New Regulatory Requirements, the effectiveness of the both hardware and software, such as the design of facilities and the operation management systems, etc., will be reviewed in a unified manner. Applications from operators for the change in reactor establishment permission, the approval of construction plans and the approval of operational safety program will be accepted at the same time and be reviewed in parallel.

### 【 Application for compatibility check to New Regulatory Standards 】



## The New Regulatory Standards<3>: Influence of 40-years regulation

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**< Article 43, Paragraph 3, Item 31 of the Law for the Regulations of Nuclear Source Material, Nuclear Fuel Material and Reactors>**

- The operation period of a power reactor shall be 40 years from the start of operation. When approval is obtained by the date of expiration, the operation period may be extended only once.**
- The extended period shall be a period not exceeding 20 years as specified by a Cabinet Order.**

### ■ Current Situation of our nuclear power reactor

Age of the Company's nuclear reactors are relatively young. Even Hamaoka Reactor Unit 3, the oldest reactor in the Hamaoka Nuclear Power Station, will not be 40 years old until 2027. We will examine the possibility to apply for the extension of the operation period of Unit 3 after 2027 to secure our supply capacity.

	Output (MW)	Commencement of commercial operation	Age of reactors at the end of June 2014
Unit No.3	1,100	August 28 1987	26 years
Unit No.4	1,137	September 3 1993	20 years
Unit No.5	1,380	January 18 2005	9years

# Hamaoka Nuclear Power Station <1>: : 16

## Submission of Applications for Review of Compliance with New Regulatory Standards

- On February 14, 2014 , the company has submitted application document for change in reactor establishment permission, an application document for approval of construction plans, and an application document for approval of an operational safety program to the Nuclear Regulation Authority as the conditions for a review to verify that Hamaoka Nuclear Power Station Unit 4 complies with the new regulatory standards issued by the Authority.

### Application document for change in reactor establishment permission

- Responds to the design basis stipulated in the new regulatory requirements by defining standard seismic motion and design basis tsunami and presenting basic designs of responses, in addition to presenting basic designs of responses to tornados, volcanic eruptions, etc., which have been newly introduced or enhanced in the new regulatory requirements.
- Also presents basic designs reflecting responses to severe accidents newly introduced to the new regulatory requirements.

### Application document for approval of construction plans

- Presents the detailed design of the newly introduced and modified facilities, etc., as outlined in the application document for change in reactor establishment permission (Specifications, structure, seismic resistance calculations, strength calculations, diagrams, etc.).

### Application document for approval of operational safety program

- Presents organizational systems, procedures, education and drills, etc. related to severe accidents, etc. in addition to handling in the case of malfunction or inspection of facilities employed in response to severe accidents, etc.

# Hamaoka Nuclear Power Station <2>: 17

## [Design basis measures] Earthquake countermeasures

- Taking into consideration elements of uncertainty, we have conducted an evaluation of seismic ground motion in relation to inland crustal earthquakes, interplate earthquakes and oceanic intraplate earthquakes, and have formulated standard seismic motion with consideration of the amplification factor on the Station site.
- We will put anti-earthquake and other measures in place continuously based on these figures for standard seismic motion.

### ■ Standard seismic motion

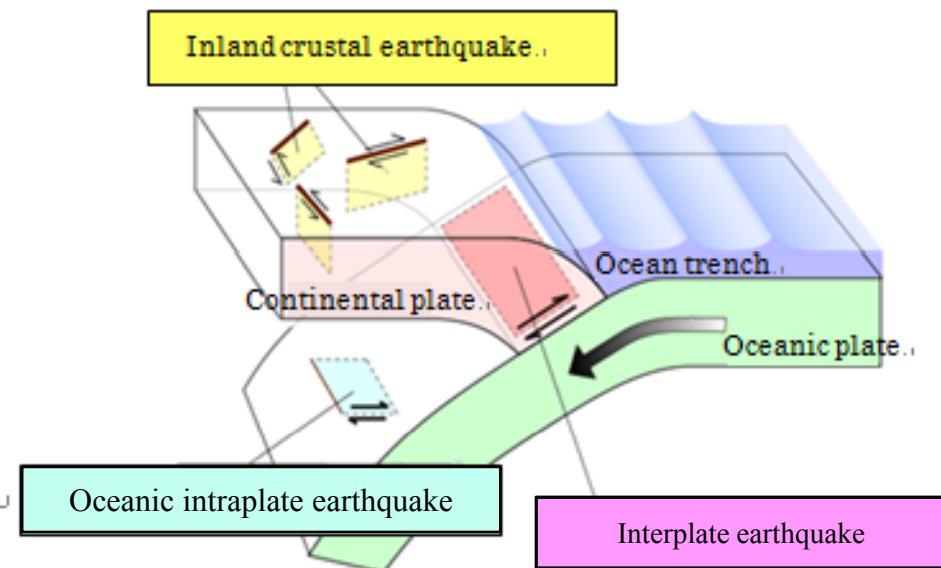
- Standard seismic motion Ss1<sup>\*1</sup> (1,200gals)
- Standard seismic motion Ss2<sup>\*1</sup> (2,000gals)

\*1 The application of Ss1 or Ss2 to each facility will be determined by whether or not conspicuous amplification is observed at nearby measurement points.

### ■ Main measures

- Work to improve supports for pipes and electric circuits.
- Work to reinforce ground around tsunami protection wall.
- Enhancement of emergency response facilities<sup>\*2</sup> etc.

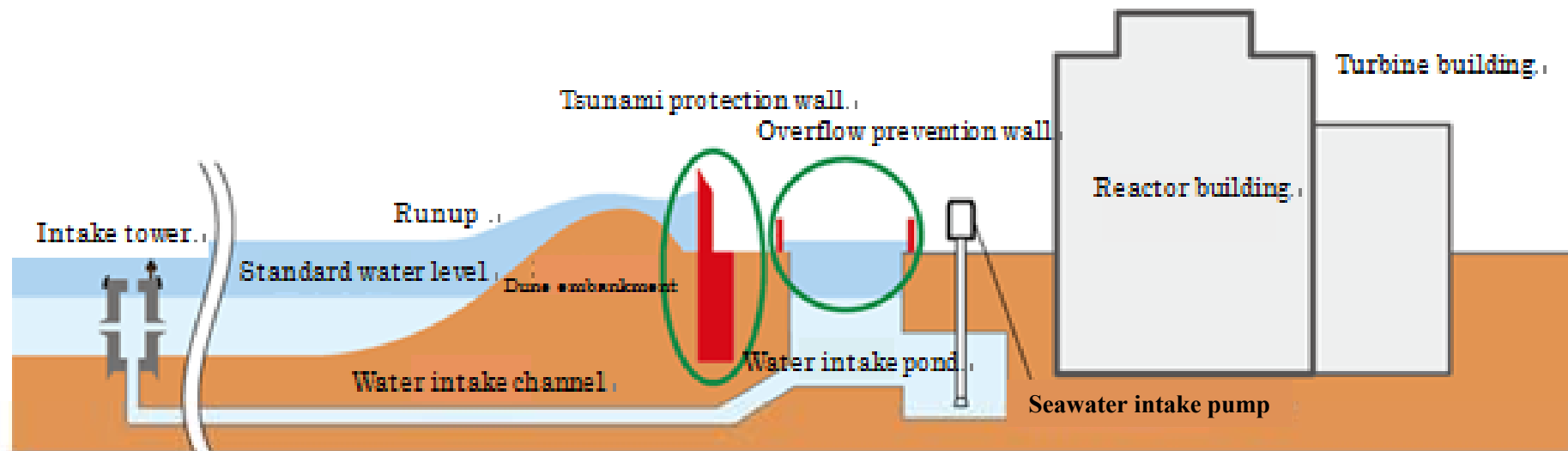
\*2: We will construct new facilities in addition to our existing emergency response facilities.



# Hamaoka Nuclear Power Station <3>: 18

## [Design basis measures] Tsunami-counter measures

- We have conducted surveys and studies on factors causing huge tsunami, regarding interplate earthquakes, oceanic intraplate earthquakes, crustal earthquakes produced by active faults, and submarine landslides, and then we have formulated a design basis tsunami in consideration of uncertainty of factors on a tsunami caused by a Nankai Trough interplate earthquake, which might have a significant effect on the Station site.
- The maximum water reaching level by this design basis tsunami is level with T.P. +21.1m at the front of the tsunami protection wall.
- We have verified that our tsunami countermeasures (the tsunami protection wall with the height of T.P. +22m, overflow prevention measures on water intake ponds and others) could keep huge tsunami away from flooding in the Station site.





# Hamaoka Nuclear Power Station <4>:

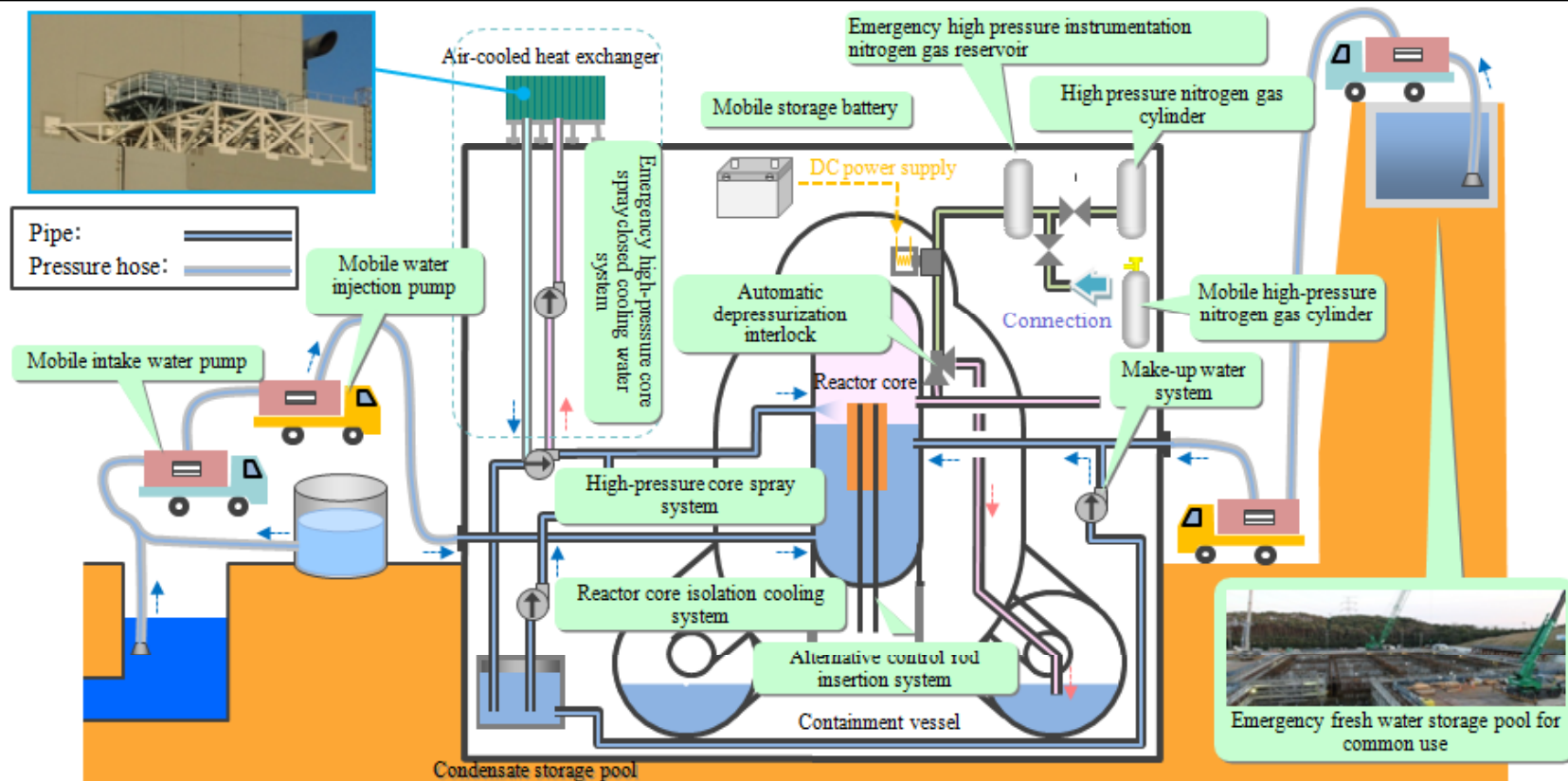
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## [Countermeasures against severe accidents and others] Measures to prevent core damage

-In order to enhance functions designed to prevent damage to reactor cores, we will implement measures including ensuring the availability of multiple methods for water injection in addition to the existing emergency core cooling system.

< Main measures >

- Supply of power by means of gas turbine generators, etc. positioned on high ground, etc.
- Installation of air-cooled heat exchangers to ensure operation of high-pressure coolant injection system
- Alternative methods of water injection by means of makeup water system, etc.





# Hamaoka Nuclear Power Station <5>:

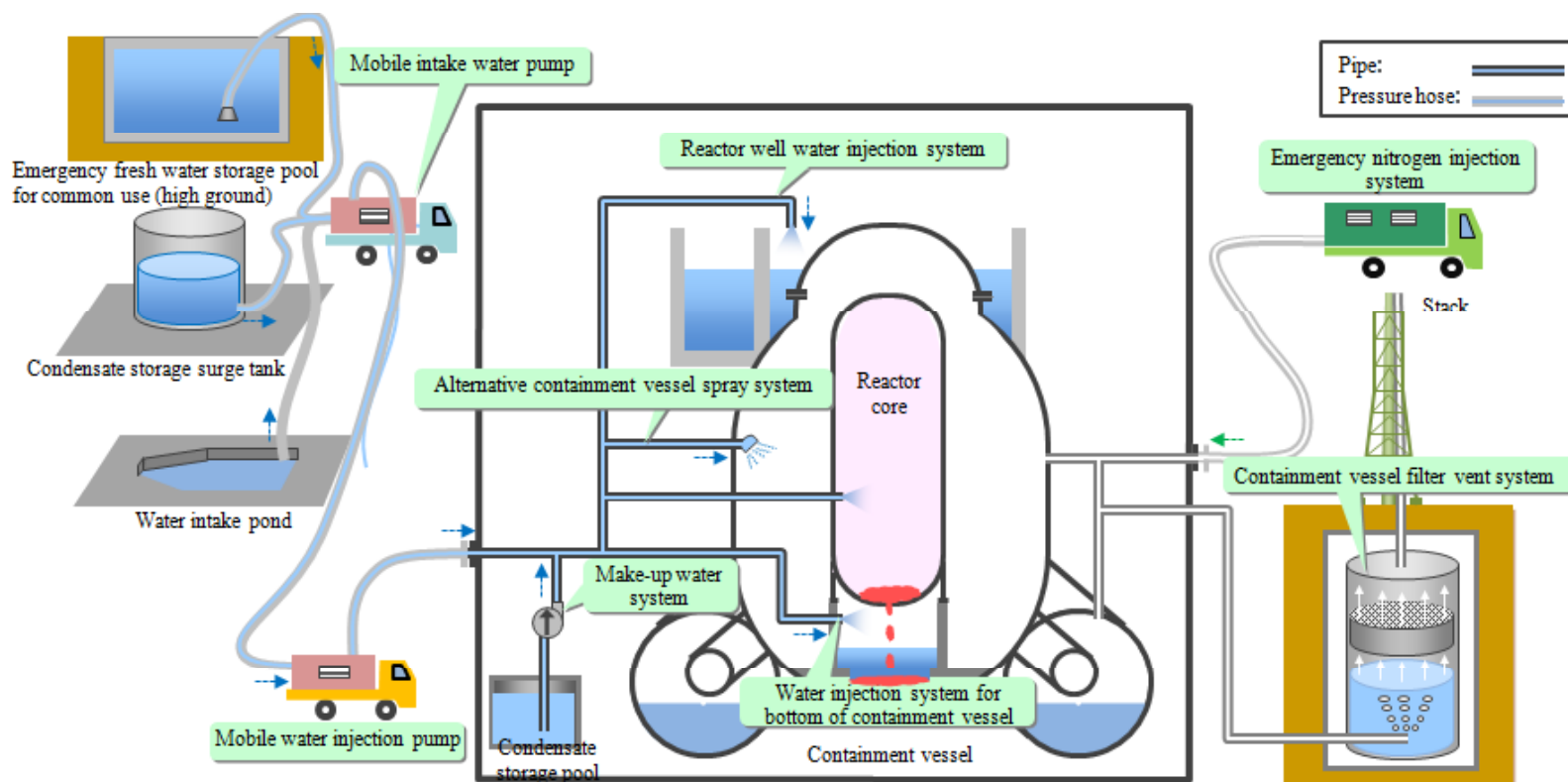
20

[Countermeasures against severe accidents and others] Measures to prevent failure of containment vessels

–We will introduce measures including ensuring the availability of multiple methods of cooling the containment vessels and preventing overpressurization in order to enhance functions for the prevention of the containment vessels failure.

< Main measures >

- Supply of power by means of gas turbine generators, etc. positioned on high ground, etc.
- Enhancement of alternative spray system of containment vessel to ensure cooling of containment vessels
- Prevention of overpressurization by means of containment vessel filter vent system



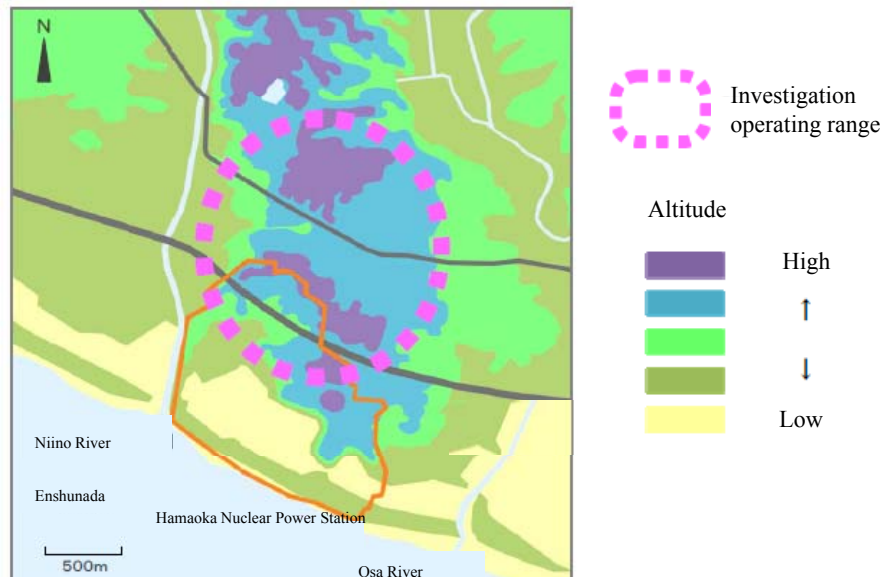
# Hamaoka Nuclear Power Station <6>: 21

## Geological survey results inside and outside the premise

- The H Fault System (strata displacements) was identified on the premises of the Hamaoka Nuclear Power Station.
- The H Fault System has been confirmed to be inactive in a safety review conducted by the Japanese government and a government-sponsored public hearing in August 2012.
- Meanwhile, a suggestion was made at the public hearing to continuously review the possibility of collecting more data etc. Based on this suggestion, we conducted a voluntary geological survey (from July 2013 to May 2014) to collect further data regarding the relationship between the Late Pleistocene strata and the H Fault System.

### ■ Investigation spot

We carried out an investigation in the northern part and the site outside on the premises of the power station



### ■ Evaluation results

- The latest survey showed that strata displacements, similar to those of the H Fault System identified on the premises of the Hamaoka Nuclear Power Station, are distributed at almost the same intervals in the northern part of the premises.
- The results of the latest survey revealed that the H Fault System (including the strata displacements in the northern part of the premises) was formed immediately after the strata built up (millions of years ago) and before they consolidated. The strata show no signs of activity after they consolidated. At the very least, the H Fault System has been inactive since the Late Pleistocene. We have concluded that the H Fault System will not cause earthquakes and that earthquakes will not cause further displacements.

# Hamaoka Nuclear Power Station <7>: 22

## Current Situation about Review of Compliance with New Regulatory Standards

- New regulatory standards for the regulation of nuclear facilities (New Regulatory Standards) were enacted on July 8, 2013.
- On February 14, 2014, the Company applied to the Nuclear Regulation Authority to verify if its safety measures for Hamaoka Nuclear Power Station Unit 4 complies with the new regulatory requirements provided by the government.
- On March 6, 2014, the Nuclear Regulation Authority raised 25 main points of issue in response to the Company's application .
- On June 20, 2014, a review of the active fault evaluation was launched based on a working-level hearing. (Other items will be subject to review in stages.)

(Reference) Scrutiny by the Secretariat of the Nuclear Regulation Authority ( As of July 15, 2014 )

Team	Target plants
A [PWR]	Ikata unit 3(Shikoku), Ooi units 3 and 4(Kansai), Genkai units 3 and 4(Kyusyu)
B [PWR]	Tomari units 1 and 2(Hokkaido), Sendai units 1 and 2(Kyusyu)
C [PWR]	Takahama untis 3 and 4(Kansai), Tomari unit 3(Hokkaido)
D [BWR]	Kashiwazaki units 6 and 7(Tokyo), Shimane unit 2(Chugoku), Onagawa unit 2(Tohoku), <b>Hamaoka unit 4</b> , Higashidori unit 1(Tohoku), Tokai No2(The Japan Atomic Power Company)
Earthquake-Tsunami	All plants

# Hamaoka Nuclear Power Station <8>:

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## Seawater inflow via damaged tubes in the main condenser for Hamaoka Reactor No.5

### Fact

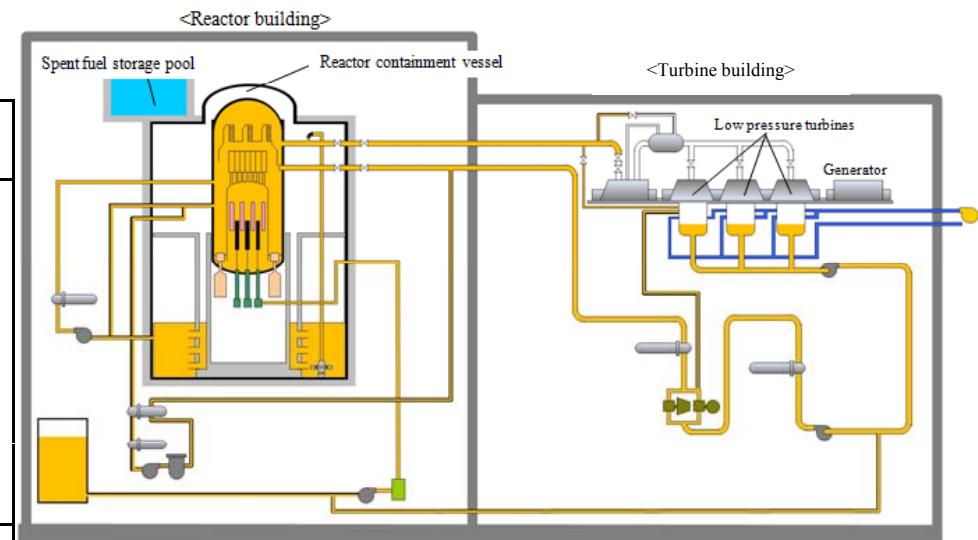
- On May 14, 2011, when preparing for cold shutdown after reactor No. 5 was suspended, a portion of the tubes in the main condenser, through which seawater flowed to cool steam, was damaged. 400 tons of seawater flowed into the main condenser and 5 tons of sea water into the reactor.

### The situation of the investigation

- We are conducting an environmental simulation test that reproduces seawater inflow and an inspection to see if seawater inflow caused equipment to corrode by disassembling and opening the reactor.
- So far, we have confirmed the following things concerning reactor equipment:
  - We inspected the nuclear pressure vessels for corrosion of lined portions or other abnormality. The result did not show any abnormality that would affect the integrity of the nuclear reactors and turbine systems.
  - We did not find defects among any fuel materials at the visual inspection of fuels that had been loaded at the time of seawater inflow.

### Future plan

~FY2013	FY2013~FY2016	FY2017~
Inspection and evaluation of facilities (including fuel)	▼ Sep, 2014 completion	
Examination and implementation of measures in accordance with the results of inspection and evaluation		
Meeting of internal committee of specialists with respect to inspection and evaluation (held five times in the past)		
The Nuclear Regulation Authority's committee to supervise and evaluate the seawater inflow incident ▲ Feb, 2013 holding	▼ Report on	
Examination and implementation of measures in accordance with the new regulatory standards		



Yellow areas are flowed by seawater

# Hamaoka Nuclear Power Station <9>: 24

## Reinforcement of disaster measures of Hamaoka Nuclear Power Station

### - Review and Strengthening of Nuclear Disaster Prevention System

- In addition to construction of tsunami protection wall and other tangible measures, we will strengthen its disaster prevention system and other intangible measures so that our group companies can jointly resolve the situation within the shortest possible time even if a nuclear disaster occurs.
- To enhance its preparedness for nuclear disasters resulting from earthquakes/tsunamis, we will strengthen its education/training systems and improve the related procedures.

### - Improvement and Strengthening of Disaster Prevention Materials and Equipment

- We will strengthen the materials and equipment that are indispensable for coping with a nuclear disaster, such as communication systems (e.g., teleconference systems) necessary for information exchange inside and outside the site, radiation meters for use in the event of a nuclear disaster, and means for securely transporting the above equipment and other disaster prevention materials and equipment.

### - Enhancing Cooperation with the Central Government and Local Governments

- We will actively cooperate with local governments around the nuclear power plant in revising regional disaster prevention plans. We will also actively participate in disaster drills hosted by the central government or local governments so that we can appropriately implement necessary countermeasures in cooperation with the various governments if a nuclear disaster occurs.



<In-house training>

Disaster countermeasures training; laying a cable to the power generator (training was conducted with the lights off in the building) .



<Participation in disaster prevention drill hosted by Shizuoka Prefectural Government >

Disaster countermeasures training; airlifting a dispatched patrolman in a Self-Defense Forces helicopter.

# Electric Power System Reform <1> : Schedule of the Electric Power System Reform

25

## - Schedule of the Electric Power System Reform

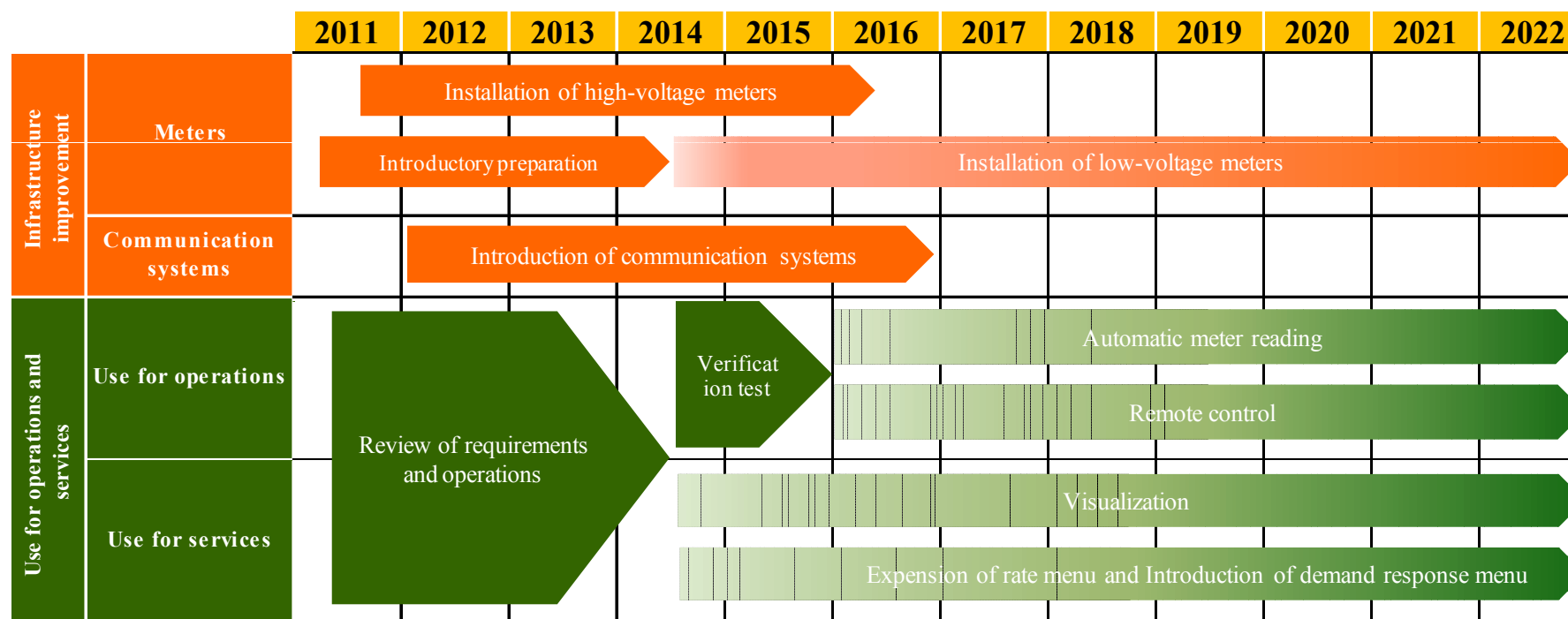
	Schedule for implementing the measures	Schedule for enacted/submitting the bill
1st phase: Establishing the Organaization for Nationwide Coordination of Transmission Operators	In about 2015	Enacted on November 13, 2013
2nd phase: Fully liberalizing the electricity retail market into which retail entities are able to enter	In about 2016	Enacted on June 11, 2014
3rd phase: Further securing the neutrality of the power transmissiion/distribution sector through legal unbundling; Fully liberalizing electricity rates	By about 2018-2020	The Government of Japan shall aim to submit the bill to the ordinary Diet session in 2015

Source: Materials published by METI



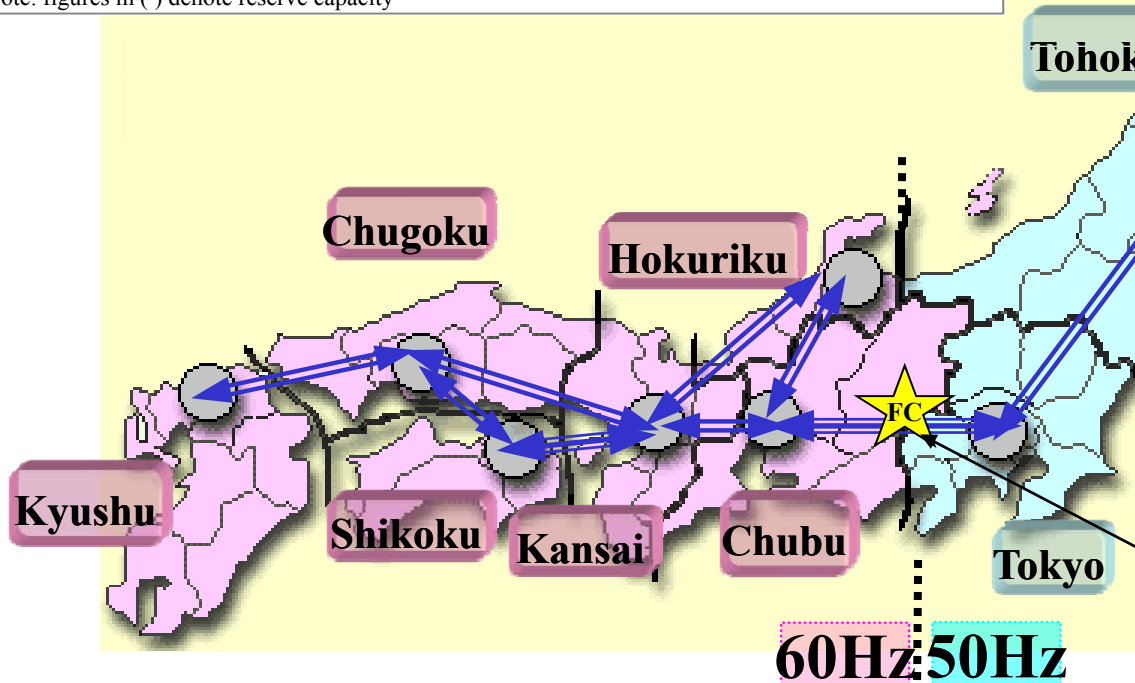
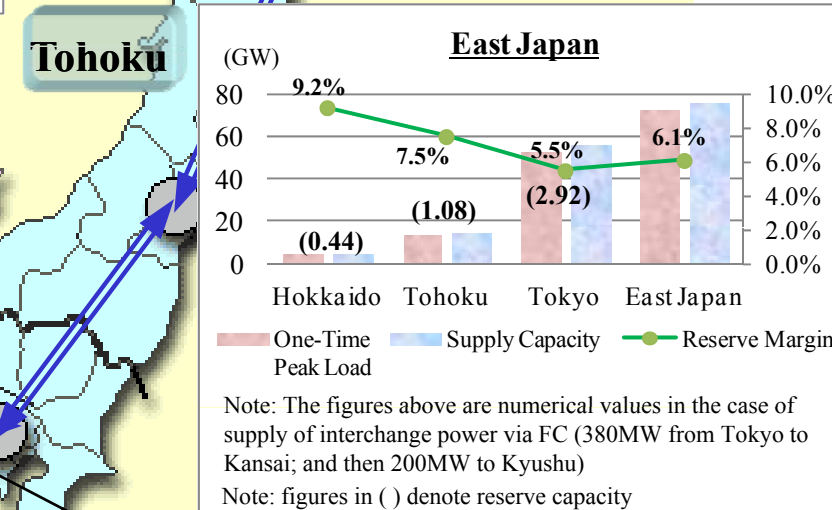
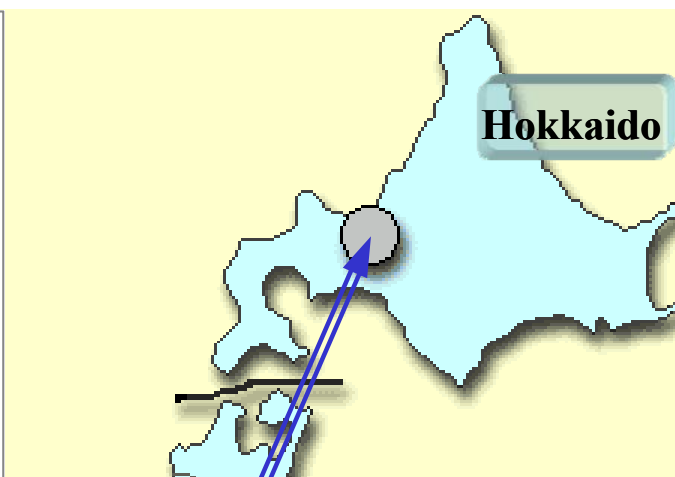
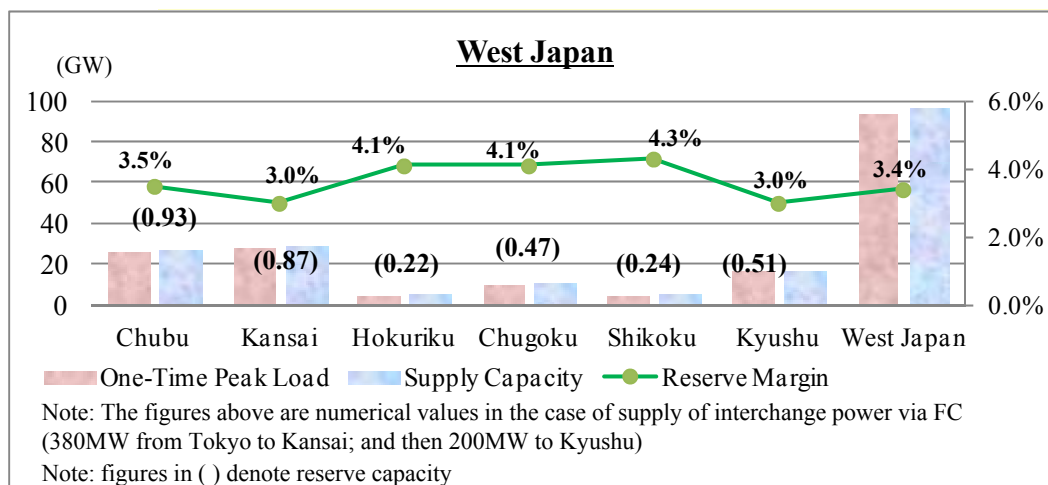
## - The introduction schedule of smart meters

- Installation of smart meters has already been completed for our special high-voltage and high-voltage (500 kW and above) customers.
- In the case of other high-voltage (less than 500kW) customers, we began installing smart meters in January 2012, and we plan to complete installing by FY2016.
- For low-voltage customers, we intend to begin installation from October 2014 in selected regions, expanding to all regions in July 2015. We are now looking forward to completing installing in March 2023.



# Electricity Supply & Demand <1>: Outlook of Electricity Supply and Demand for Summer (August 2014) in Japan

27



Capacity of Frequency Converter

- ◇ Shin-Shinano (Tokyo) × 2 : 600MW
- ◇ Sakuma (J-Power) : 300MW
- ◇ Higashi-Shimizu (Chubu) : 300MW

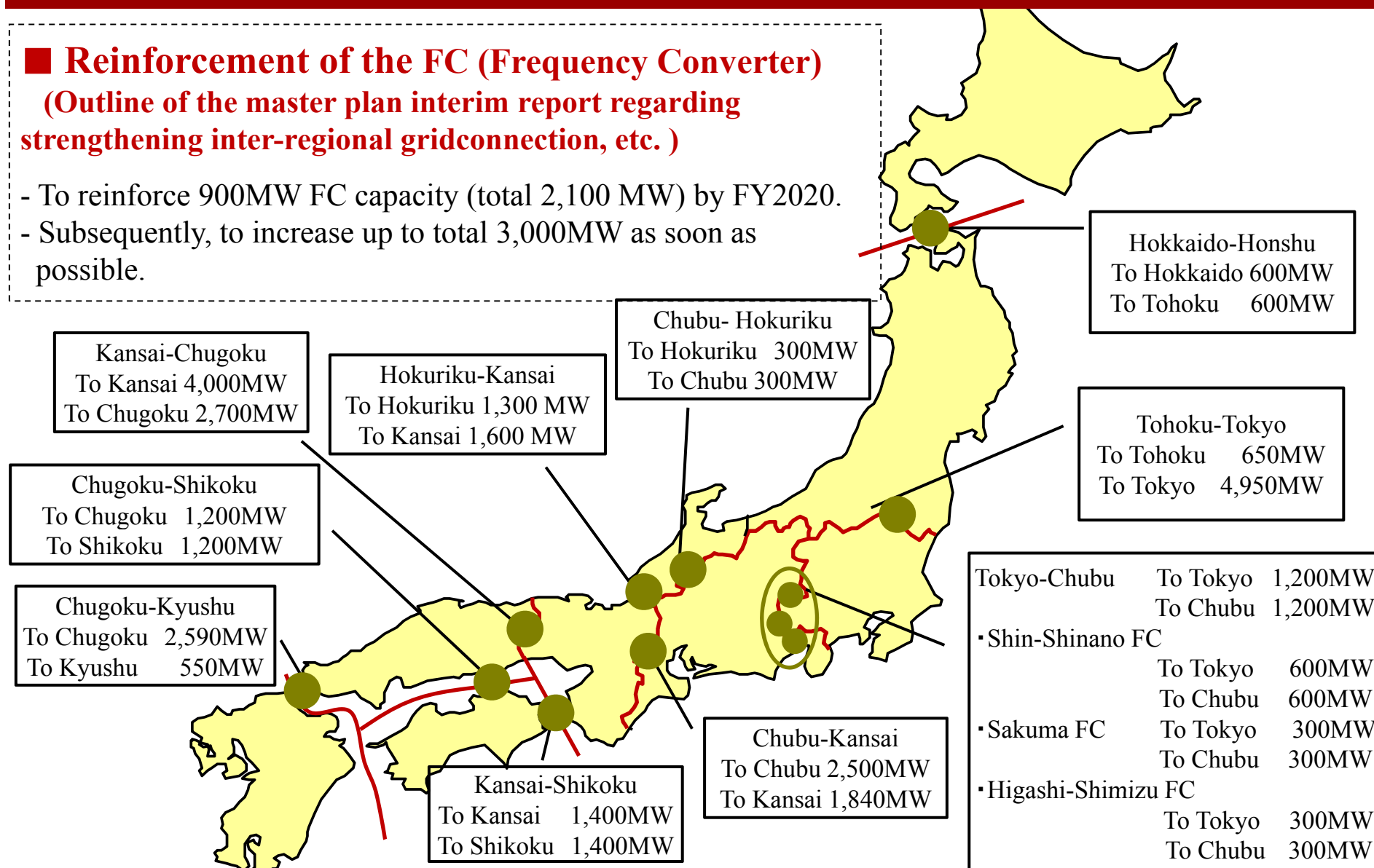


# Electricity Supply & Demand <2>: Strengthen Mutual Support among power companies

28

## ■ Reinforcement of the FC (Frequency Converter) (Outline of the master plan interim report regarding strengthening inter-regional gridconnection, etc.)

- To reinforce 900MW FC capacity (total 2,100 MW) by FY2020.
- Subsequently, to increase up to total 3,000MW as soon as possible.



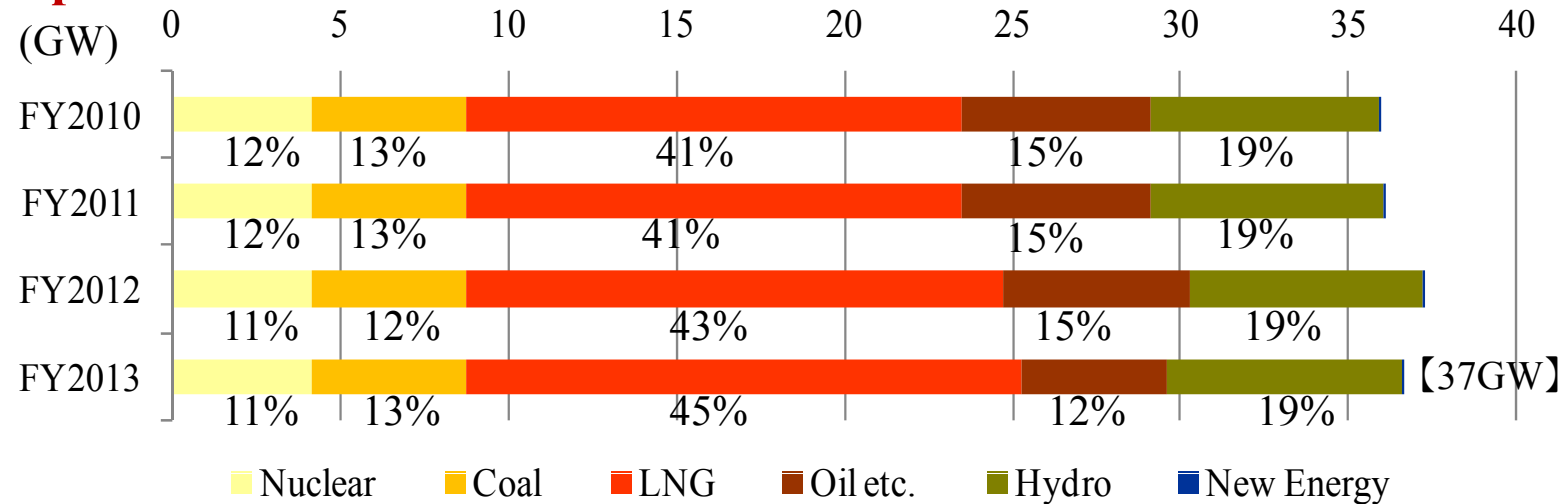
Note: The figures for the operating capacity during the day time (8 a.m. to 8 p.m.) in August are derived from data of the Electric Power System Council of Japan.

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# Electricity Supply & Demand <3>: Composition of Power Sources and Electric Power Output

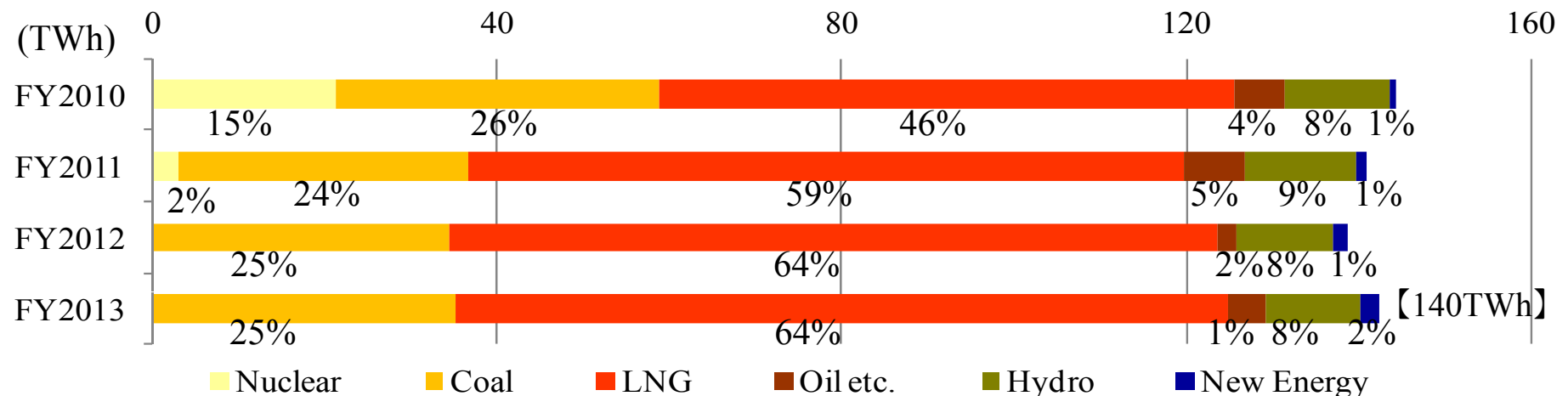
29

## - Composition of Power Sources



Note: Figures include Purchased power

## - Composition of Electric Power Output



Note: Figures include output from Interchanged, Purchased power

# Electricity Supply & Demand <4>: Trend of Large-lot demand

30

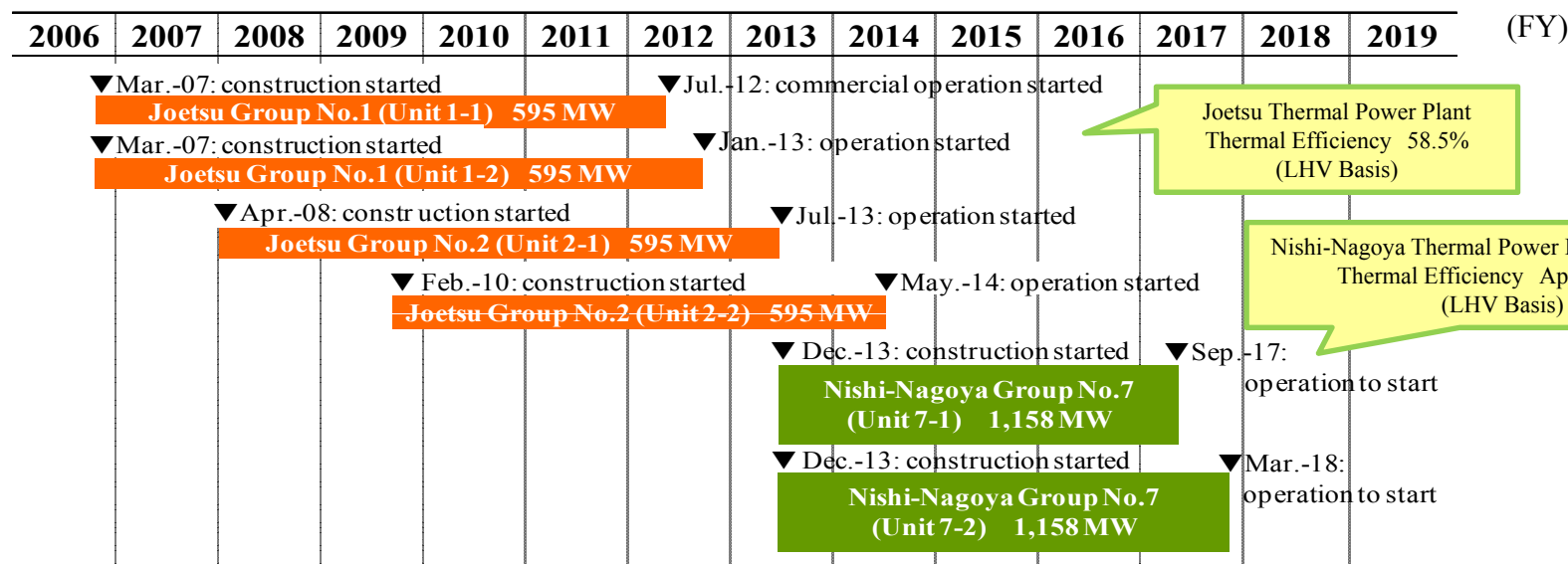
– Trend of Large-lot demand (Large-lot demand by industry; year-on-year change )

		FY2013 year-on-year change [%]				FY2014 year-on-year change [%]				【1Q】 Electricity sales volume [GWh]	component rate [%]
		January	February	March	FY2013	April	May	June	1H		
M a t e r i a l	Papers and Pulps	6.3	0.9	Δ 0.2	0.7	1.0	Δ 9.0	Δ 10.8	Δ 6.3	371	2.9
	Chemicals	Δ 8.3	Δ 9.6	Δ 11.5	Δ 5.9	Δ 9.5	Δ 2.8	Δ 6.3	Δ 6.3	650	5.1
	Glass and Ceramics	4.8	3.8	4.1	Δ 2.3	4.1	Δ 0.4	Δ 0.8	0.9	597	4.7
	Steel	12.0	14.5	14.1	1.0	6.4	Δ 2.0	5.5	3.1	1,683	13.3
	Nonferrous Metals	5.4	1.6	3.0	0.5	3.2	5.1	5.2	4.5	336	2.7
	Subtotal	5.3	5.4	4.9	Δ 1.0	1.9	Δ 2.1	0.5	0.1	3,637	28.7
p r o c e s s i n g	Foods	4.7	2.1	1.6	2.6	1.4	Δ 0.9	Δ 0.5	Δ 0.0	684	5.4
	Textiles	1.4	Δ 5.1	Δ 9.3	Δ 1.0	Δ 5.5	Δ 6.5	Δ 6.2	Δ 6.1	222	1.8
	Machinery	9.2	6.0	6.6	3.8	2.9	1.9	3.9	2.9	5,213	41.2
	Others	7.2	4.5	4.0	2.4	2.3	0.8	2.4	1.9	1,541	12.2
	Subtotal	8.1	5.1	5.1	3.2	2.4	1.1	2.9	2.2	7,660	60.5
P u b l i c	Railways	Δ 0.0	Δ 0.3	3.4	1.2	Δ 0.8	Δ 0.4	0.2	Δ 0.3	619	4.9
	Others	Δ 2.0	Δ 0.7	Δ 1.6	Δ 0.3	Δ 4.4	Δ 5.5	Δ 5.2	Δ 5.0	750	5.9
	Subtotal	Δ 1.1	Δ 0.5	0.7	0.4	Δ 2.8	Δ 3.2	Δ 2.9	Δ 3.0	1,369	10.8
Total		6.2	4.5	4.6	1.7	1.7	Δ 0.3	1.6	1.0	12,666	100.0

# Thermal Power Plants <1>: Development of Thermal Power Plants and Thermal Plant Bidding

31

## - Outline of development of LNG thermal power plants with enhanced efficiency



## ■ Electricity procurement plan based on thermal plant bidding

With the aging of its thermal power plants, the Company has decided to start procuring electricity (thermal power) through a bidding process\* from the perspective of achieving long-term supply stability and economy. The Company will start carrying out the bidding procedure to decide a successful bidder within FY2014.

Meanwhile, the Company will also respond to a solicitation for bids that started in July 2014.

### Summary of Public Bidding

Procurement scale: 1,000 MW  
 Procurement commencement: April 2021 to March 2023  
 Procurement period: 15 years, in principle  
 Standard utilization rate: 70% to 80%

\* General electric businesses wishing to construct new thermal generation facilities, or expand or replace existing thermal generation facilities must publicly call for bids for such facilities, in principle.

However, this shall not apply to generation facilities scheduled to start operation by FY2018, which are stated in the FY2012 Electric Power Supply Plan of general electric businesses.

# Thermal Power Plants <2>: Reinforcement Plan for LNG Handling Facilities

32

- Supporting stable yet flexible LNG procurement

⑤ Installation of new gas pipeline

① Additional LNG tanks & reinforcement to LNG receiving dock

② Installation of gas pipeline across Ise Bay ( — for Toho Gas Co.)

④ Installation of Mie-Shiga pipeline

Chubu Electric Power Co. Inc.,  
Yokkaichi LNG Center

Toho Gas Co.  
Yokkaichi Plant

Yokkaichi

Kawagoe

Nishi-Nagoya

Shin-Nagoya

Chita Daini

Chita Area LNG Base

③ Reinforcement to  
LNG receiving dock #2

— Gas pipelines (in operation)

● LNG thermal power stations

	Project name	Project outline	commencement	completion
①	Additional LNG tanks in Kawagoe	Two additional tanks in Kawagoe Thermal Power Plant (capacity: 180,000m <sup>3</sup> each)	FY2007	FY2012
	Reinforcement to receiving dock in kawagoe	Enabling to accomodate LNG super tankers with class of over 200,000m <sup>3</sup>	FY2009	FY2010
②	Gas pipeline across Ise Bay	Kawagoe Thermal Power Plant - Chita Area LNG Base approx. 13.3km	FY2008	FY2013
③	Reinforcement to No.2 receiving dock in Chita	Enabling to accomodate LNG super tankers with class of over 200,000m <sup>3</sup>	FY2008	FY2009
④	Mie-Shiga pipeline	Yokkaichi Thermal Power Plant - Taga Governor Plant (Osaka Gas Co.) approx. 60km	FY2004	FY2013
⑤	New gas pipeline	Nishi-Nagoya Thermal Power Plant - Chita Daini Thermal Power Plant approx. 5km	to be completed in FY2017	

## - Principal LNG Contracts

Projects / <delivery>		Period of contract		(1,000 t/year) Contract volume (approximate figure)
Existing Contracts	Qatar1 / <Ex-ship>	1997 - 2021	(approx.25 years)	4,000
	Australia (extension) / <Ex-ship>	2009 - 2016	(approx.7 years)	500
	Australia (expansion) / <Ex-ship>	2009 - 2029	(approx.20 years)	600
	Malaysia / <Ex-ship>	2011 - 2031	(approx.20 years)	max. 540
	Sakhalin II / <Ex-ship>	2011 - 2026	(approx.15 years)	500
	Indonesia (re-extension) / <FOB/Ex-ship>	2011 - 2015	(approx.5 years)	950
		2016 - 2020	(approx.5 years)	640
	BP Singapore / <Ex-ship>*1	2012 - 2028	(approx.16 years)	*2
	ENI / <Ex-ship>	2013 - 2017	(approx.5 years)	*3
	Qatar3 / <Ex-ship>	2013 - 2018	(approx.5 years)	1,000
		2018 - 2028	(approx.10 years)	700
Future Contracts	Woodside / <Ex-ship>*1	2014 - 2017	(approx.3 years)	*4
	BG Group / <Ex-ship>*1	2014 - 2035	(approx.21 years)	*5
	Gorgon / <FOB/Ex-ship>	2014 - 2038	(approx.25 years)	max. 1,440
	Shell Group / <Ex-ship>	2014 - 2034	(approx. 20 years)	*6
	Donggi-Senoro / <Ex-ship>	2015 - 2027	(approx. 13 years)	1,000
	Wheatstone / <FOB>	2017 - 2037	(approx.20 years)	1,000
	Ichthys / <FOB>	2017 - 2032	(approx.15 years)	490

\*1 Contract to purchase LNG from multiple sources

\*2 Approx. 8 million ton through the contract term

\*3 Joint Purchase by Chubu Electric and KOGAS. Approx. 1.7 million ton in total of two companies through the contract term.

\*4 Maximum 21 cargos through the contract term (or maximum approx. 1.47 million ton if using ships with 70,000 ton cargo capacity)

\*5 Maximum 122 cargos through the contract term (or maximum approx. 8.54 million ton if using ships with 70,000 ton cargo capacity)

\*6 Maximum 12 cargos a year (or maximum approx. 0.72 million ton if using ships with 60,000 ton cargo capacity)

## ■ Three Contracts of LNG Ship Charter

- Based on the FOB contract ( Gorgon, Ichthys, Wheatstone) , we concluded three contracts of LNG ship charter to enhance efficiency and flexibility of procurement by managing freight charge.

	1st Ship	2nd Ship	3rd Ship
Shipowner	Foreign corporation, whose stocks are owned by Mitsubishi Co., and NYK	Foreign corporation, whose stocks are owned by Mitsubishi Co., and Mitsui O.S.K. Lines, Ltd.	Foreign corporation, whose stocks are owned by Kawasaki Kisen Kaisha, Ltd.
Freighter	Chubu		
Period of Contract	approx 15 - 20 years		

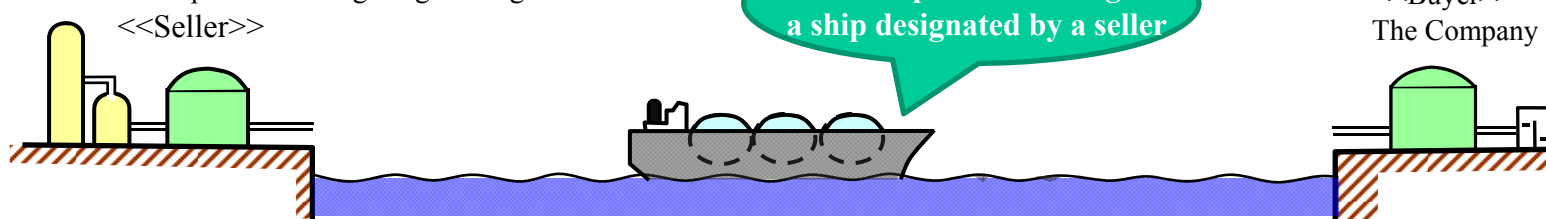
## ■ Future Contracts of LNG Ship Charter

- We are planning to arrange five more LNG ship charters for Freeport LNG project.

### <Shipping scheme>

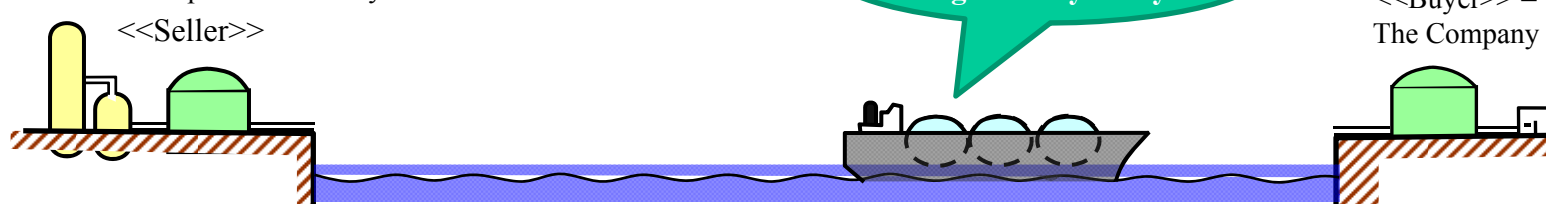
#### ◆ Ex-ship contract: LNG price = Cost of goods + Freight charge

- Transportation under the seller's responsibility
- LNG price including freight charge



#### ◆ FOB contract: LNG price = Cost of goods only

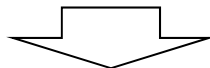
- Use of the flexible destination clause
- Shipment at the buyer's discretion



# Fuel Procurement<3>: Advancement of Coal Trading 35

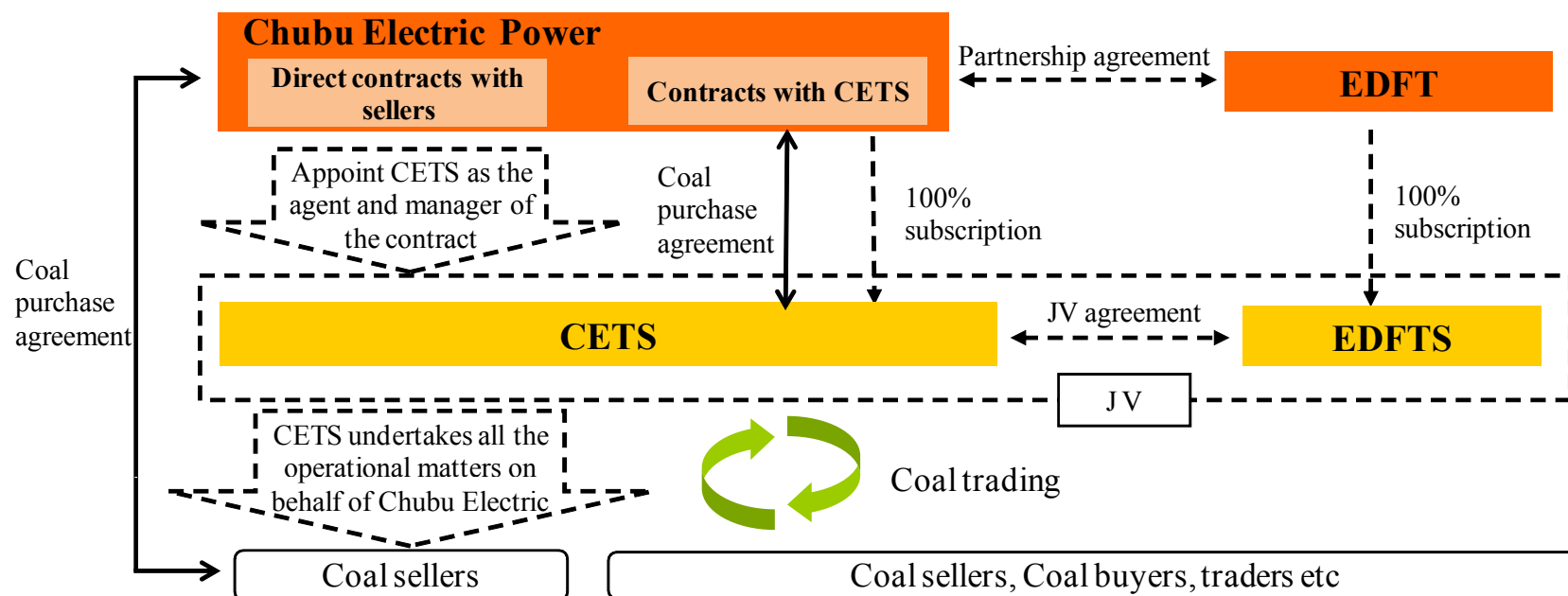
## - Coal trading business

- Chubu Electric and Electricite de France's subsidiary EDFT each established 100% subsidiaries in Japan and started fuel trading business under partnership agreement in FY2008.
- Effective in April, 2010, Chubu Energy Trading controls Chubu Electric's whole coal procurements in unitary.



- Chubu Electric appointed Chubu Energy Trading Singapore Pte Ltd, ("CETS" newly established in Singapore also as a wholly owned subsidiary of Chubu Electric) to take over a role of CET from April 2012.

⇒ Benefits from more timely transactions in an efficient and economical manner through the utilization of abundant trading information and talented human resources available in Singapore.





# Fuel Procurement<4>

## Acquisition of Interests in Energy Resources

36

- Acquisition of upstream interests, etc.

### Ichthys (LNG)

Project output capacity:  
Approx 8.4 million ton/year  
Interest holding ratio: 0.735%  
Production scheduled for launch in 2016.



### Gorgon (LNG)

Project output capacity:  
Approx 15.0 million ton/year  
Interest holding ratio: 0.417%  
Production scheduled for launch in 2015.

### Integra (Coal)

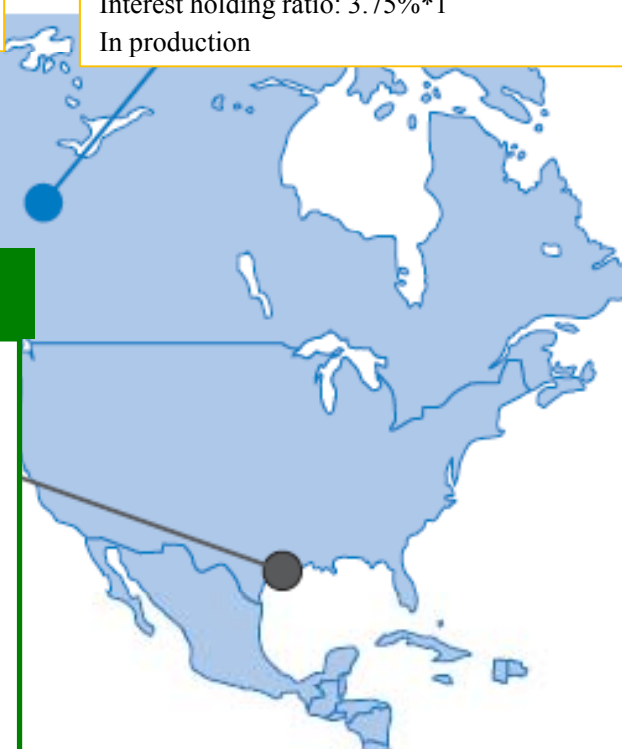
Project output capacity:  
Approx 3.3 million ton/year  
Interest holding ratio: 5.95%  
In production

### Cordova Embayment (Shale gas)

Project output capacity:  
Approx 3.5 million ton/year in LNG  
(planned value)  
Interest holding ratio: 3.75%\*1  
In production

### Freeport LNG

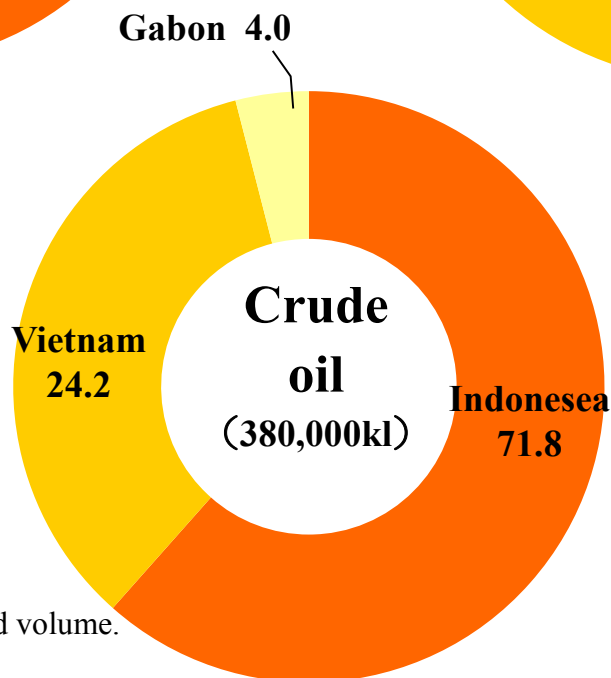
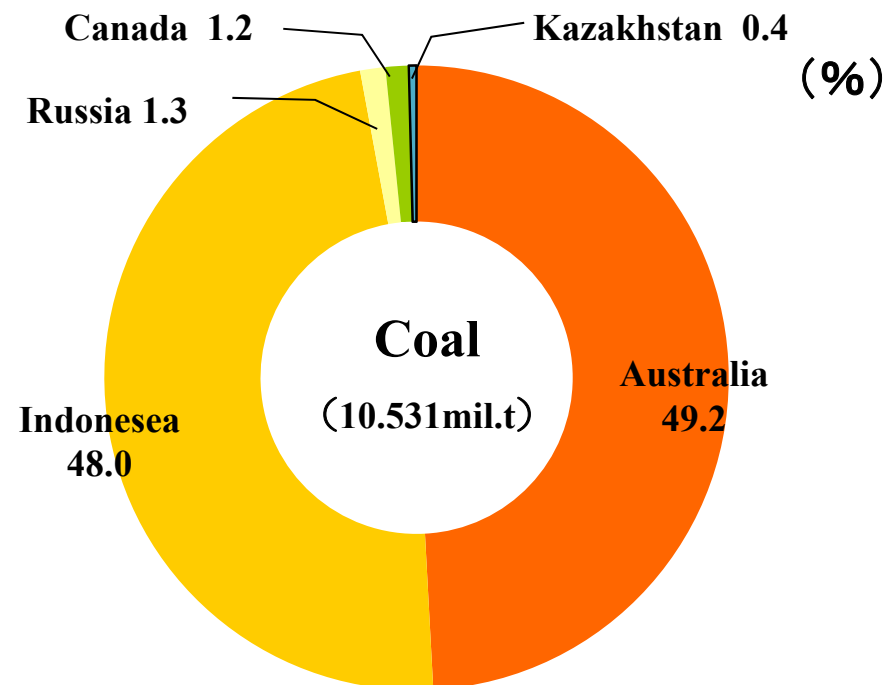
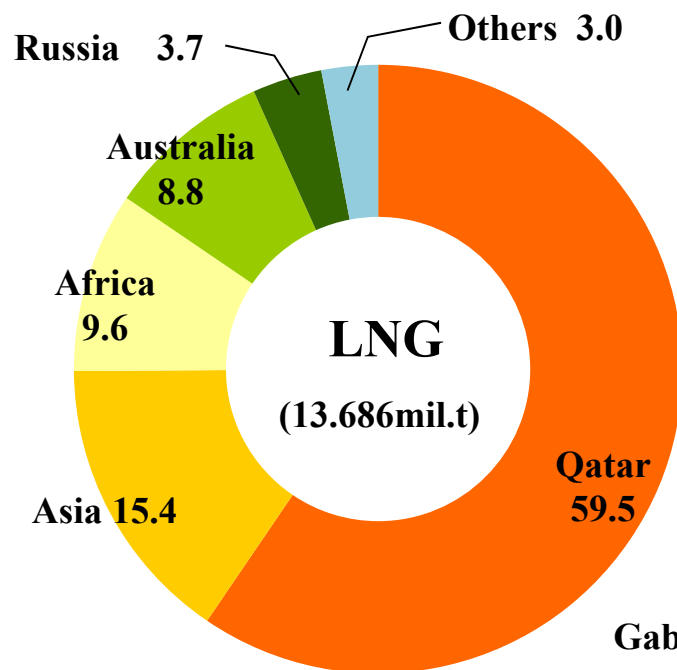
Liquefying facilities: 3 lines (max. 4 lines) ; each line with a contract capacity of around 4.4 million ton/year  
(Our secured capacity: 2.2 million ton/year)  
Capital interest ratio: 25%\*2  
Liquefaction/processing scheduled for launch in 2018.  
⇒ In May 2013, the Department of Energy (DoE) in the United States gave approval to the Freeport LNG project to export liquefied natural gas (LNG) to Japan, one of countries that do not have a free-trade agreement with the United States.



\*1 Chubu Electric Power acquired 7.5% of the equity in Cordova Gas Resourced Ltd., a Mitsubishi Corporation Subsidiary that owns a 50% interest in the project.

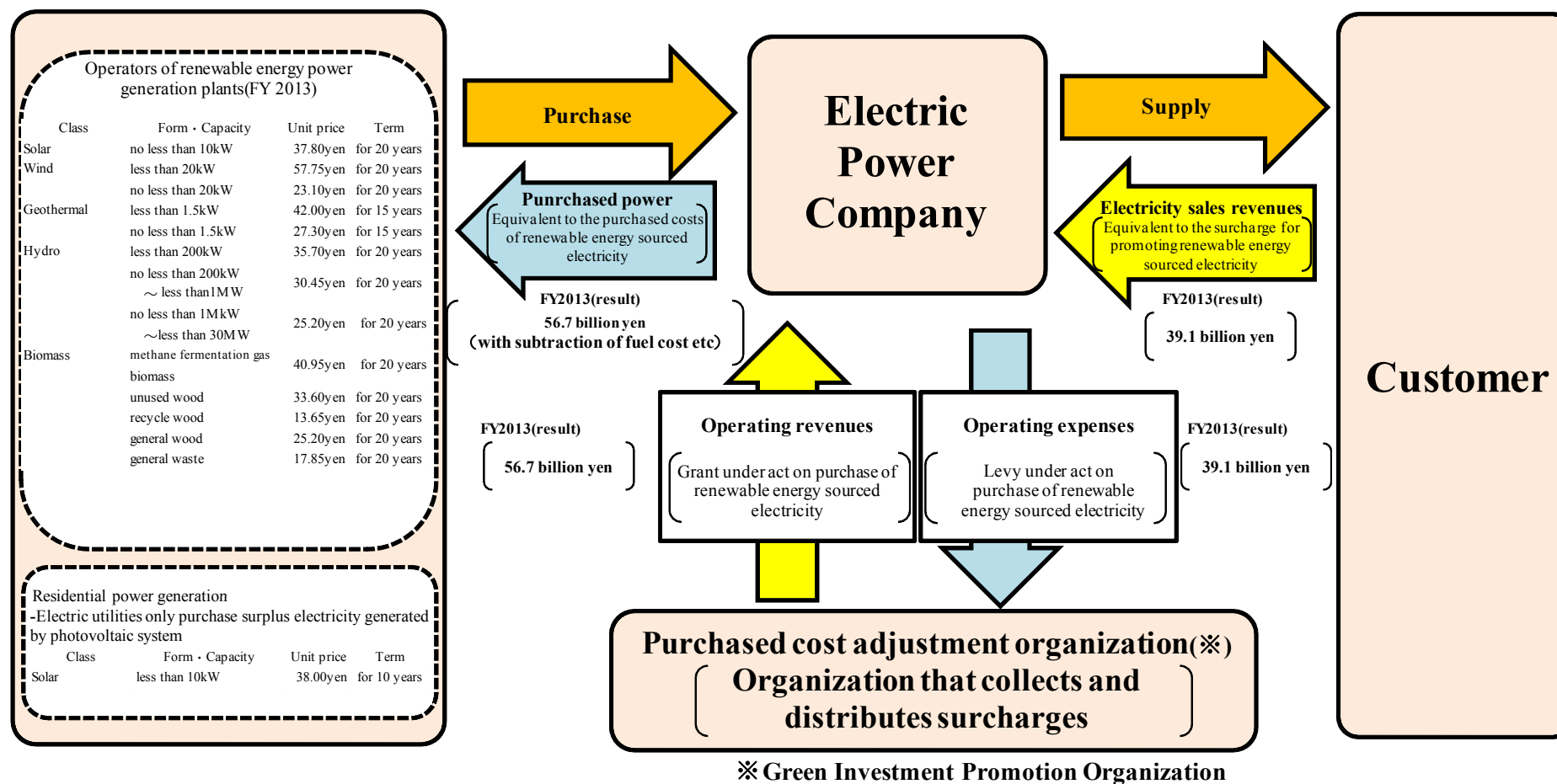
\*2 The Company invested in a subsidiary of Freeport LNG Expansion, the first train project company in the Freeport project, with whom it has concluded a liquefaction agreement.

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Figures in parentheses represent purchased volume.

## – Basic framework of feed-in tariff scheme for renewable energy



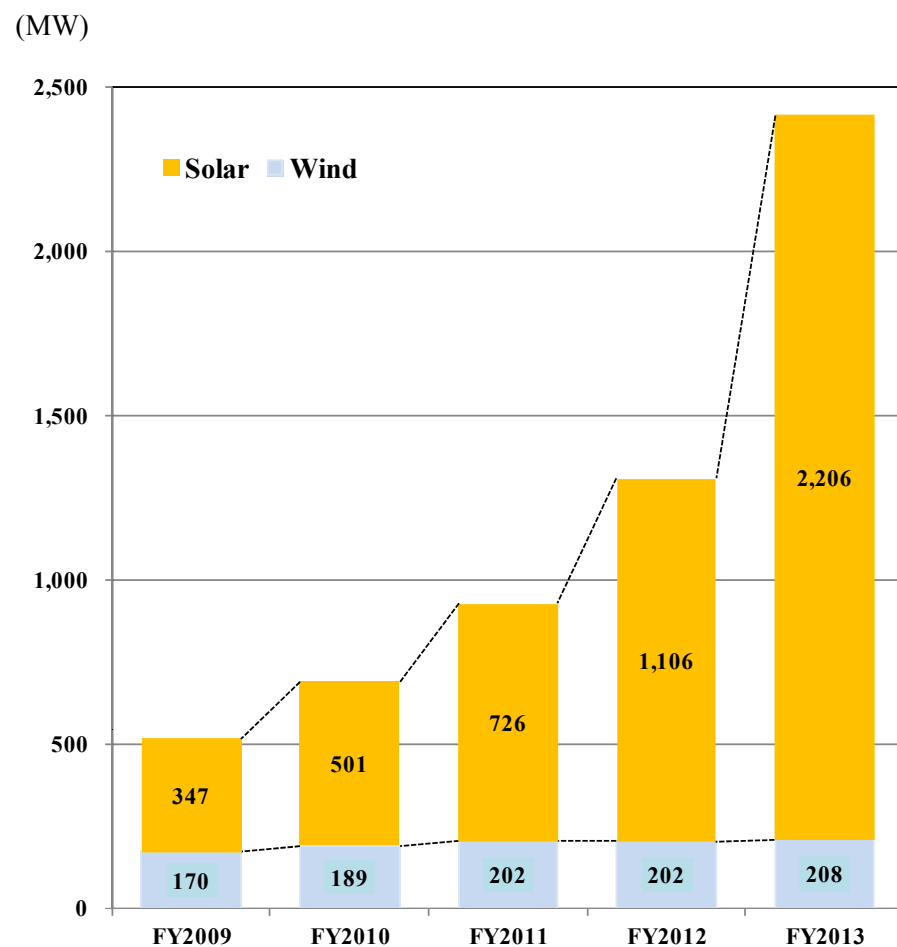
## - Details for promotion of renewable energy

Detailed plans				Output (MW)	Operation commences
Solar	Chubu Electric		Mega Solar Iida	1	FY 2010
			Mega Solar Taketoyo	7.5	FY 2011
			Mega Solar Shimizu	8	FY 2014 (Plan)
Wind	Chubu Electric		Omaezaki	22	(Phase1) FY 2009 (Phase2) FY 2010
Hydro	Chubu Electric	New development	Susado	0.24	FY 2010
			Tokuyama unit 1	131.0	FY 2015 (Plan)
			Tokuyama unit 2	22.4	FY2014
			Atagi	0.19	FY 2015 (Plan)
			Shinkushihara	0.22	FY 2015 (Plan)
			Nyuugawa	0.35	FY 2016 (Plan)
			Conventional hydro	5.0	FY 2020 (Plan)
				7.3	FY 2022 (Plan)
			Generation with minimum water level	0.29	FY 2016 (Plan)
		Improvement	Wago	0.2 <sup>*1</sup>	FY 2012
			Okuyahagi Daiichi unit 3	2.0 <sup>*1</sup>	FY 2012
			Okuizumi	5.0 <sup>*1</sup>	FY 2012
			Okuyahagi Daiichi unit 1	3.0 <sup>*1</sup>	FY 2013
			Yokokawa	0.02 <sup>*1</sup>	FY 2013
			Okuyahagi Daiichi unit 2	3.0 <sup>*1</sup>	FY 2014
			Togawa	0.02 <sup>*1</sup>	FY 2014
	Acquired from the enterprize dept. of Mie prefecture (10 sites)			98	
Biomass	Chubu Electric		Mixture of wooden chip	—	FY 2010
			Mixture of fuel from carbonized sewage	—	FY 2012

# Renewable Energy <3> : Status of Renewable Energy Initiatives 40

## ■ Status of Renewable Energy Initiatives (Chubu Electric Power Group)

### 【Contract demand (Solar, Wind)】



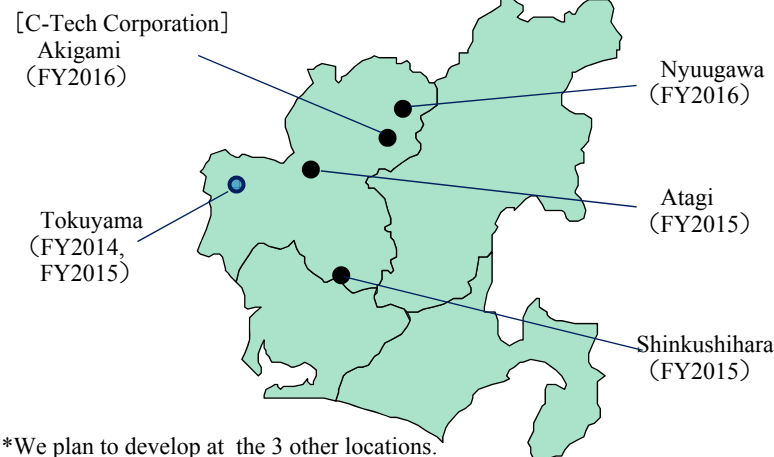
### 【The number of contracts (Solar)】

	FY2009	FY2010	FY2011	FY2012	FY2013
The number of contracts	92,000	128,000	178,000	237,000	310,000

### Development locations of hydroelectric power station

- The total output capacity from our hydroelectric power stations is 5,232MW (at the end of FY2013)
- As is shown below, the company will further develop at the other locations.

● Conventional hydro    ● Generation with minimum water level  
 Parentheses denote the commercial operation start year.



## - Offers of energy solution service

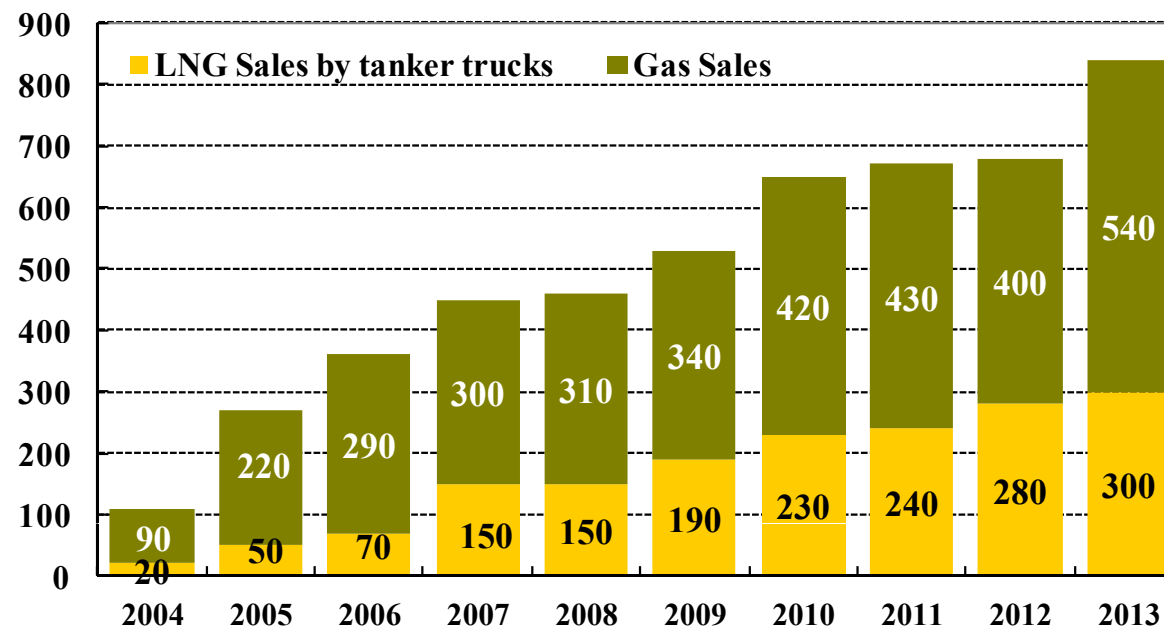
To respond to diversified and sophisticated customers' needs, Chubu Electric and its group companies combine forces to offer solution service using advantages of both electricity and gas.

## - Offers of gas, LNG and on-site energy service

The Chubu Electric Group combines forces to offer gas, LNG and on-site energy service for commercial customers and help them to reduce energy consumption, emission of carbon dioxide and costs and create a reliable energy supply system.

### Sales volume of gas and LNG

(Thousand ton)



## Growth Business <2>: Promotion of the electricity sales business in the 50Hz area of Japan (Acquisition of Shares of Diamond Power Corporation)

42

- The Company has acquired shares of Diamond Power Corporation and jointly established a power generation company to promote the electricity sales business in the 50Hz area of Japan (East Japan).
- Regarding the project as the first step for expanding its revenue base in the future, the Company takes over Diamond Power's electricity sales business and focuses on obtaining know-how for sales of electricity outside our existing business area.

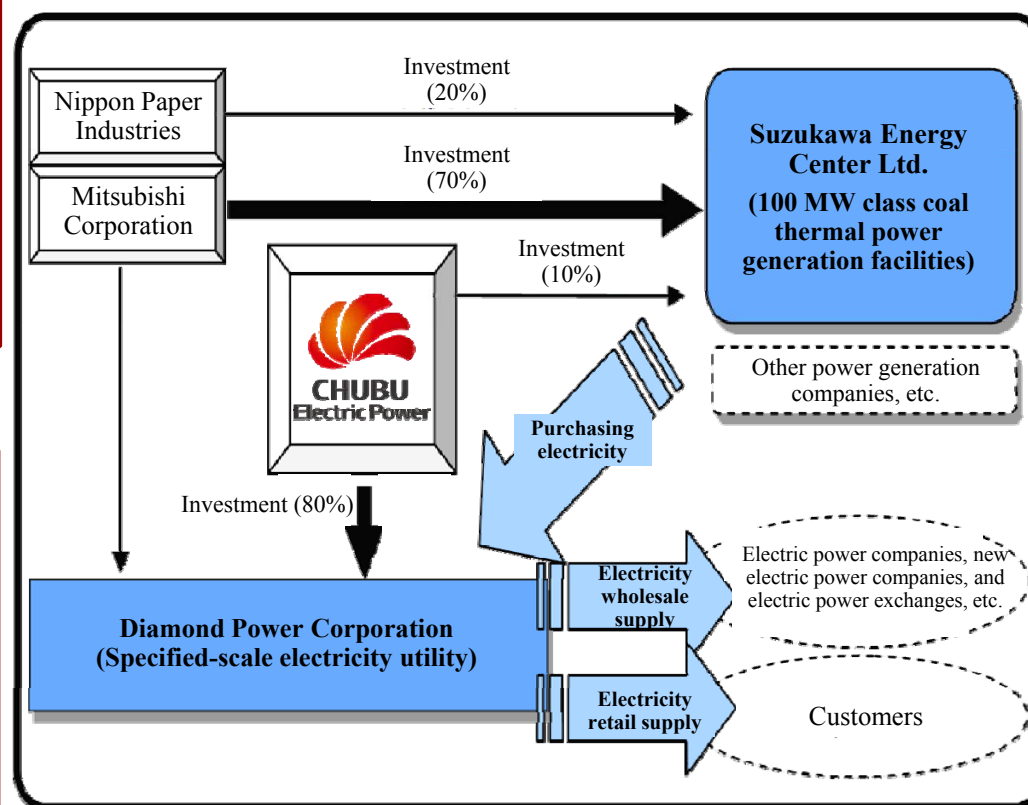
### ■ Outline of the project

- On October 1, 2013, the Company acquired an 80% equity in Diamond Power Corporation, a 100% subsidiary of Mitsubishi Corporation.
- The Company also established a power generation company with Mitsubishi Corporation and Nippon Paper Industries to construct and operate coal thermal power generation facilities.

### ■ Objectives of the project and scheme

- The Company aims to efficiently obtain know-how and infrastructure (electric power source, customer base, and electricity supply-demand control method) to develop the electric sales business in the 50Hz area of Japan.
- Diamond Power will conduct electricity wholesale and retail supply using electricity purchased from the new company.

### [Scheme of the project]



## Growth Business <3>: Promotion of the electricity sales business in the 50Hz area of Japan (Outline of Hitachinaka Generation Co., Inc.)

43

- To develop the electric generation business in the 50Hz area of Japan , on December 6, 2013, the Company, together with TEPCO established "Hitachinaka Generation Co., Inc.", that will operate and maintain a new 600MW class coal-fired thermal facility to be built within TEPCO's Hitachinaka Thermal Power Station.
- We plan to start operation in FY 2020.

### <Outline of Hitachinaka Generation Co., Inc.>

<b>Investment ratio</b>	<b>Chubu Electric Power Co., Inc. (96.55%)</b> <b>Tokyo Electric Power Co., Inc. (3.45%)</b>	
Overview of electric power facility	Generating Capacity	Generating end: approx. 650MW (Transmission end: approx. 600MW ) one unit
	Fuel	Coal
	Power generation systems	Ultra-supercritical (USC) pulverized coal thermal
	Start of operation	FY2020 (planned)



## - Outline of overseas business

	Investment amount (approximate)	Output based on Chubu's stake*
At the 1Q FY2014	Cumulative total 100 billion yen	Cumulative total 3,260 MW

\* represents Chubu's stake in total output of whole projects it participates

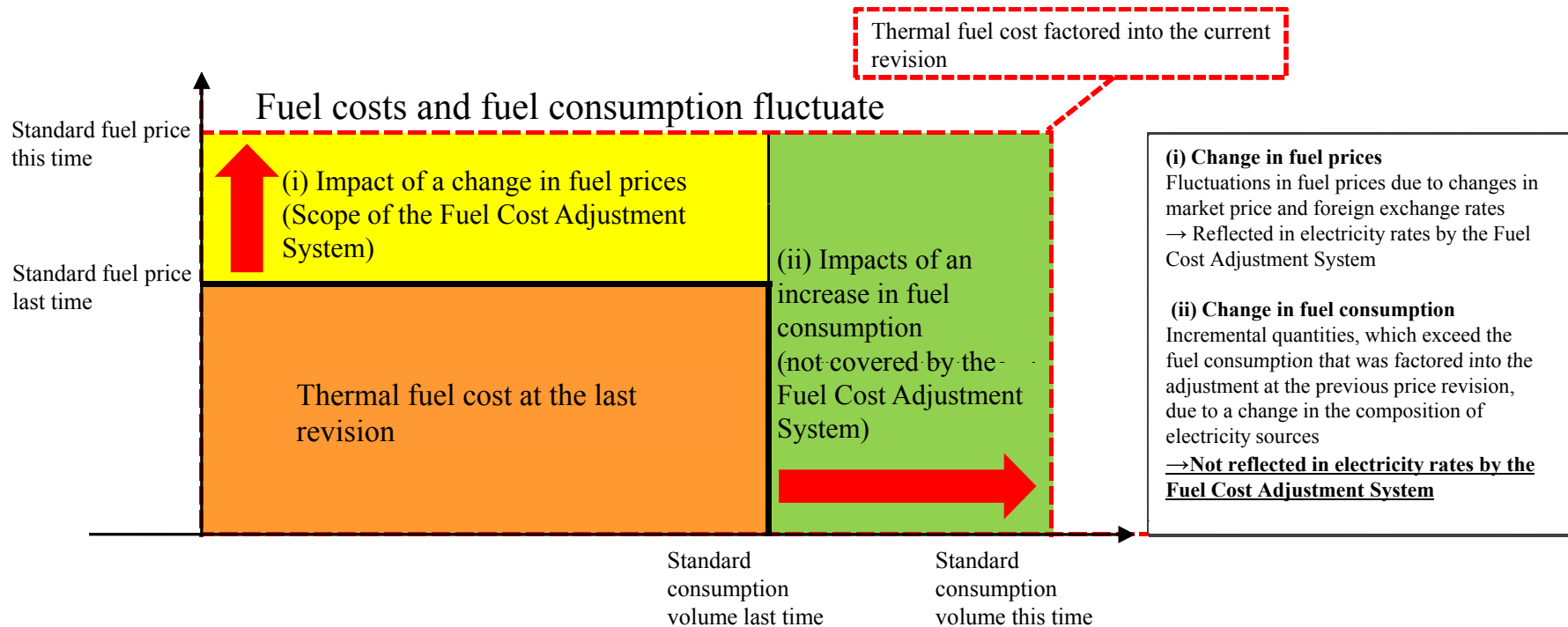
## - Projects in participation

	Region	Project	Output (MW)	Chubu's stake	Participation	Operation commences
Power generation	North America	Aquisition of Tenaska's interest in gas thermal IPP (5 sites), USA	4,780	approx.11%-18%	FY 2010	2001 - 2004
		Gas thermal IPP, Goreway, Canada	875	50%	FY 2009	Jun. 2009
		Gas thermal IPP, Valladolid, Mexico	525	50%	FY 2003	Jun. 2006
		Aquisition of Falcon's interest in gas thermal IPP (5 sites), Mexico	2,233	20%	FY 2010	2001-2005
	Asia	Gas thermal IPP, Thailand	1,400	15%	FY 2001	Jun. 2008
		Cogeneration in industrial park (3 sites), Thailand	120×3	19%(2 sites) 24%(1 site)	FY2011	2015-2016 (plan)
		Wind energy, Thailand	90×2	20%	FY2011	Nov. 2012 (site 1) Feb. 2013 (site 2)
		Solar energy, Thailand	31	49%	FY2012	2011-2013
	Middle East	Power generation & desalination, Ras Laffan B, Qatar	1,025	5%	FY 2004	Jun. 2008
		Power generation, Mesaieed A, Qatar	2,007	10%	FY 2008	Jul. 2010
		Power generation & desalination, Ras Laffan C, Qatar	2,730	5%	FY 2008	Apr. 2011
		Gas thermal IPP, Sur, Oman	2,000	30%	FY 2011	2014 (plan)
Environmental	Asia	Rice husk power generation, Thailand	20	34%	FY 2003	Dec. 2005
		Palm oil biomass power generation, Malaysia	10×2	18%	FY 2006	Jan. 2009 (site 1) Mar. 2009 (site 2)
		Asia Environment Fund	-	26%	FY 2003	2004 - 2014 (fund operation phase)

\* Amount of CO<sub>2</sub> credits is corresponding to the first commitment period of the Kyoto Protocol.

## Fuel cost adjustment system and thermal fuel cost

<Diagram of impact of thermal fuel cost on the Fuel Cost Adjustment System>



<Mechanism of reflection in prices> A three-month average fuel price will be reflected in a monthly rate.

January	February	March	April	May	June	July	August	September
Average Fuel Price			Application to electricity tariff					
	Average Fuel Price			Application to electricity tariff				
		Average Fuel Price			Application to electricity tariff			

# Financial Results <2>

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## Retirement Benefit Cost (Non-consolidated)

### Salaries and employee benefits

(billion yen)

Year	FY2013 (A)	FY2012 (B)	(A-B)	Major factors for change
Salaries and employee benefits	181.0	182.5	(1.4)	
Restated: Retirement benefit cost	10.2	2.9	7.3	Actuarial differences 10.3

### Actuarial Differences

(billion yen)

Recorded Year	Recorded amounts (Excess amounts reserved)	Amount of amortization			Change	
		FY2012(A)	FY2013(B)	FY2014(C)	(B)－(A)	(C)－(B)
FY2009	(29.3)	(8.5)	—	—	8.5	—
FY2010	12.2	3.4	3.4	—	—	(3.4)
FY2011	(3.5)	(1.1)	(1.1)	(1.1)	—	—
FY2012	5.4	—	1.8	1.8	1.8	—
FY2013	(10.0)	—	—	(3.3)	—	(3.3)
Total		(6.2)	4.1	(2.7)	10.3	(6.8)

### Prior service cost\*

(billion yen)

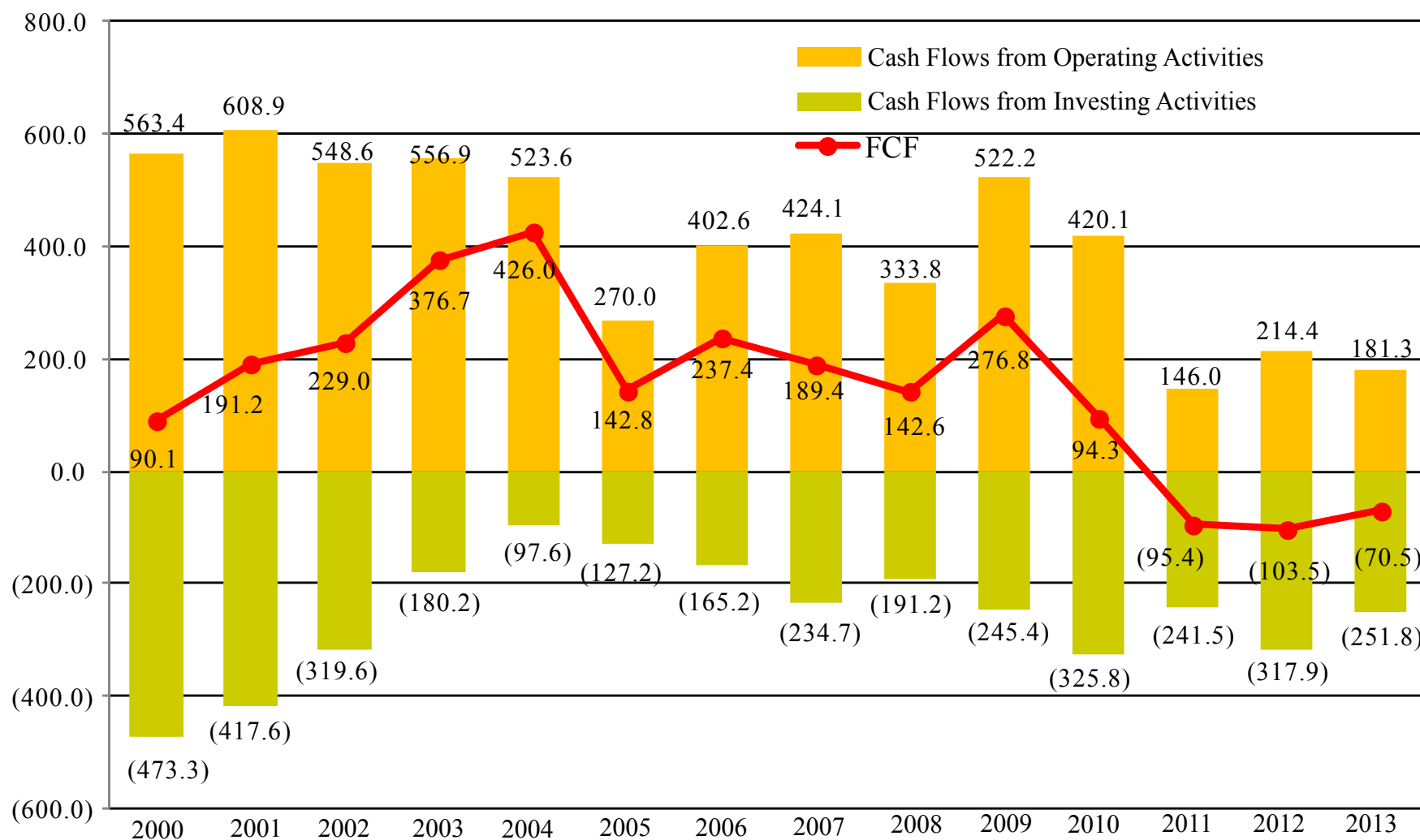
Recorded Year	Recorded amounts (Excess amounts reserved)	Amount of amortization			Change	
		FY2012(A)	FY2013(B)	FY2014(C)	(B)－(A)	(C)－(B)
FY2011	(31.9)	(10.6)	(10.6)	—	—	10.6

\*Due to change in calculation method for retirement lump-sum grants and defined benefit plans from "proportion to final basic salary" to "point accumulation"

# Financial Results <3> Cash Flow (Non-consolidated)

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(billion yen)

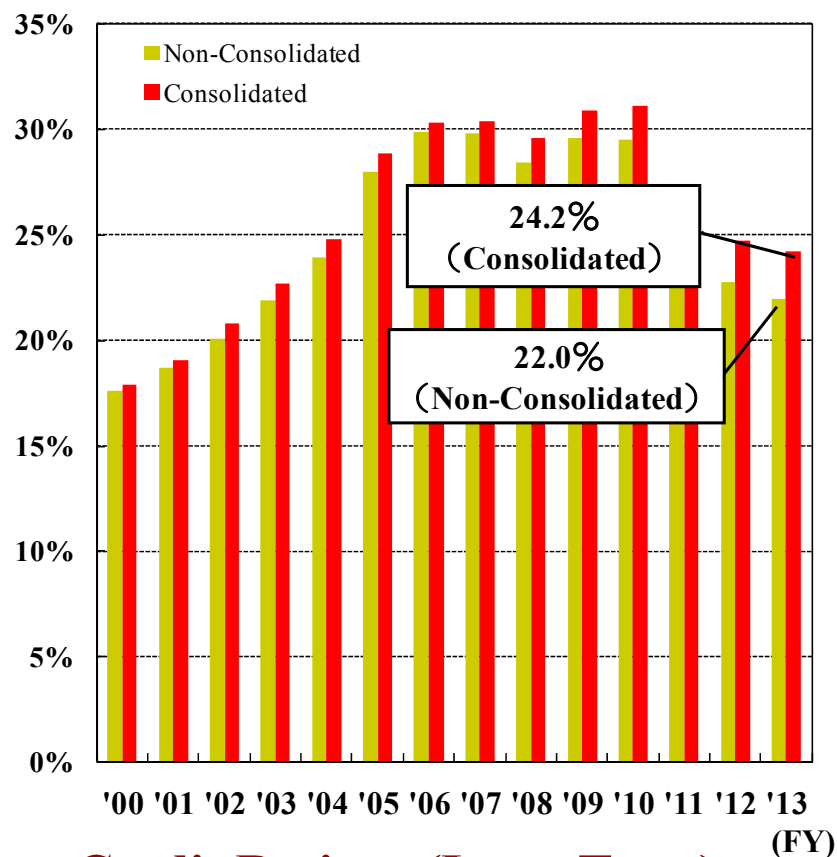


(FY)

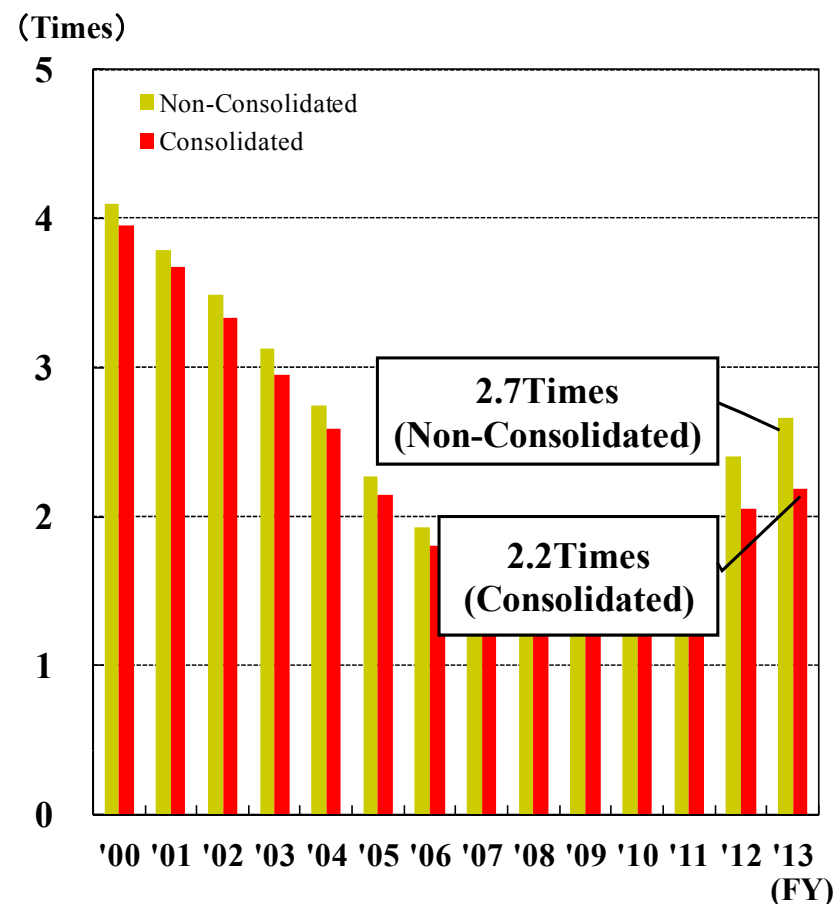
Note: Parentheses denote negative figures.

# Financial Results <4> Financial Ratios, Credit Ratings 48

## - Shareholders' equity ratio



## - Debt - equity ratio



## - Credit Ratings (Long-Term)

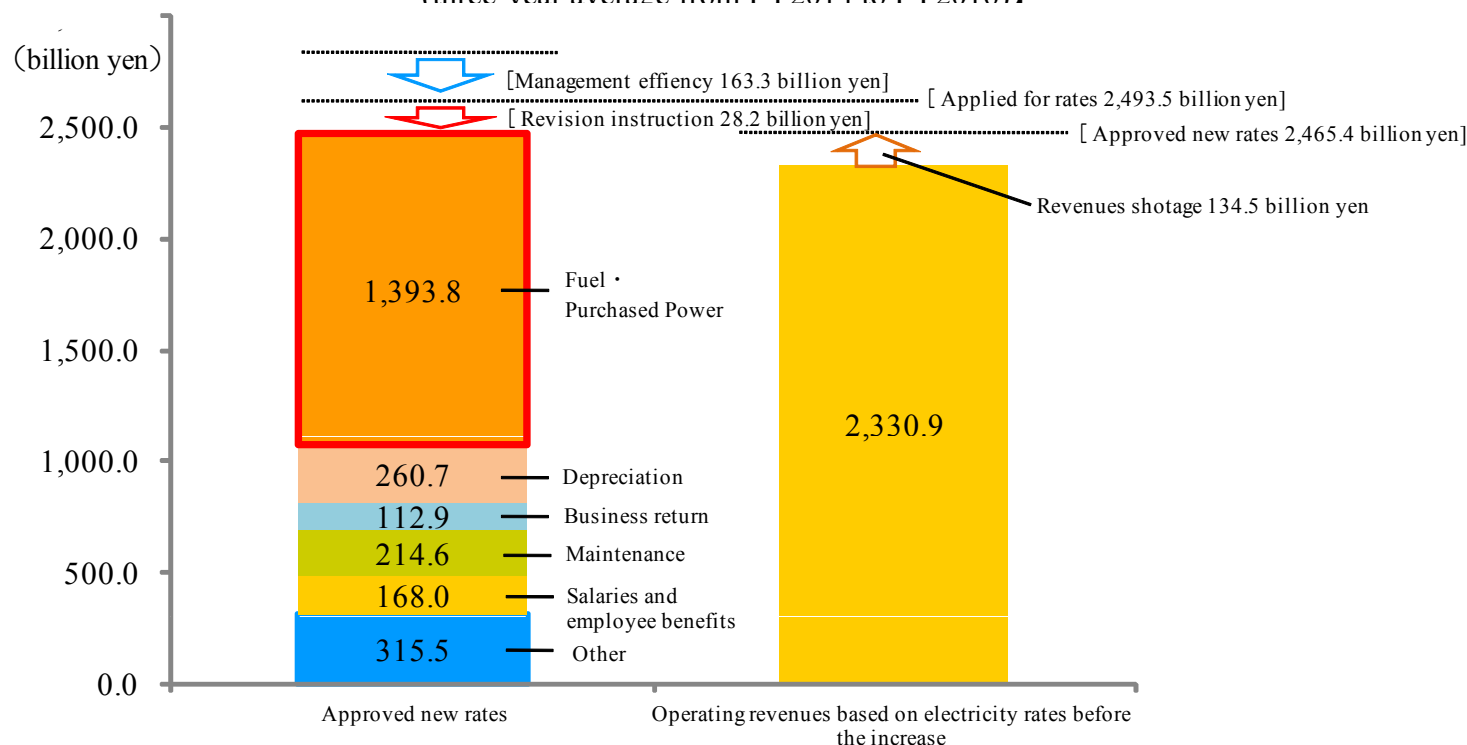
Moody's	R&I	JCR
A3	A+	AA

# Electricity Rates Increase <1> : Summary of Electricity Rates Increase Approval

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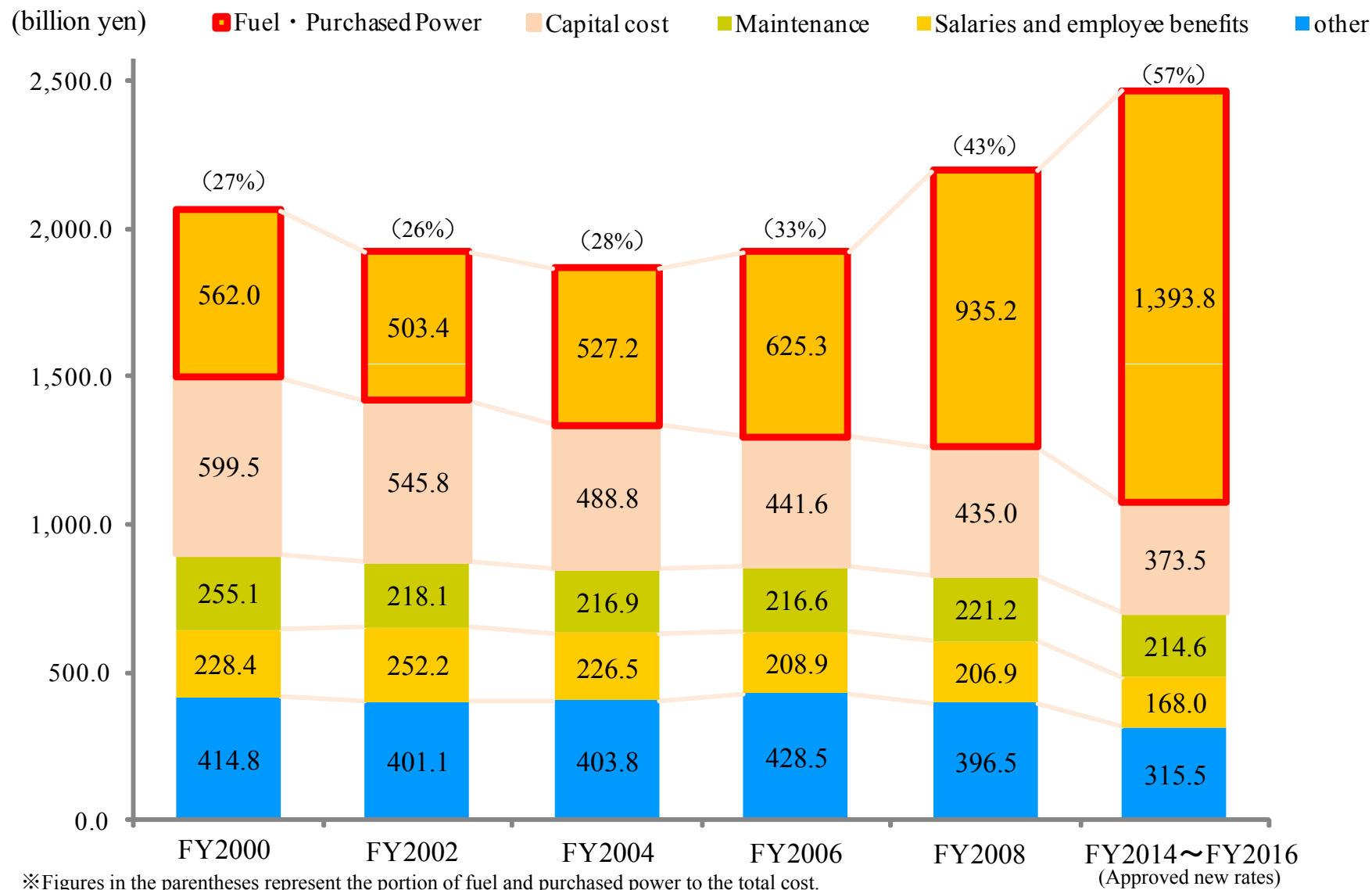
- On October 29, 2013, the Company applied to the Minister of Economy, Trade and Industry for permission to increase electricity rates for customers in the regulated sector by 4.95%. For deregulated sector, the company requested rate increase by 8.44%.
- On April 18, 2014, the Company received approval from the Minister of Economy, Trade and Industry to increase electricity rates for customers in the regulated sector by 3.77% starting May 1, 2014, which reflects the government's examination and assessment.
- For customers in the deregulated sector, the Company will apply the revised rate of average 7.21% retroactive to April 1, 2014 after reviewing its application for price increase made on October 29, 2013 taking into account the costs for the approved new rates for customers in the regulated sector approved by the government on April 18, 2014.

【 Comparison between costs for the approved new rates and operating revenues based on electricity rates before the increase (three-year average from FY2014 to FY2016)】



# Electricity Rates Increase <2> : 50

## A change in the cost at the time of the electricity rate revision



# Electricity Rates Increase <3> : Summary of Principal figures for the cost calculation, Generated and Received Power 51

- The Company forecasts electricity sales volume by taking into account customers' power saving efforts over the past year (year-on-year difference: -9.5TWh)
- Regarding generated and received power, thermal power output (LNG) increased because nuclear power output and generated and received power decreased, although electricity sales volume declined compared to the previous revision.

## [Principal figures for the cost calculation]

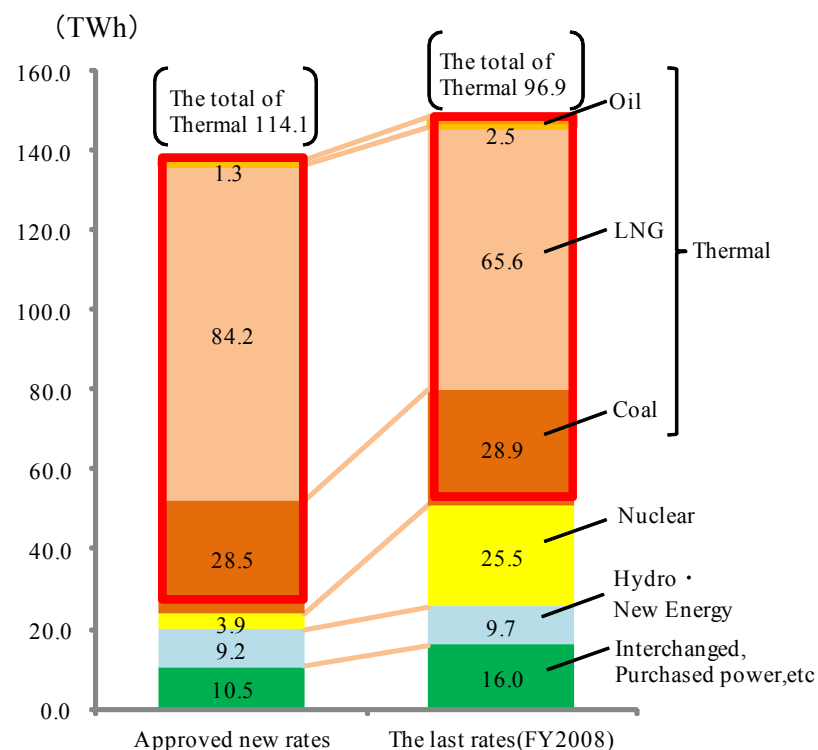
	This time (average of FY 2014 to FY 2016) (A)	Previous time (FY 2008) (B)	Change (A-B)
Electricity sales volume (TWh)	126.2	135.7	( 9.5)
Crude oil prices (\$/b)	105.5	82.9	22.6
Foreign exchange rates (yen/\$)	99.0	113.0	(14.0)
Nuclear power utilization rate (%) <Units 3, 4, and 5>	12.4 <12.4>	59.6 <83.0>	(47.2) <(70.6)>
Rate of return (%)	2.9	3.2	(0.3)
Headcount (persons)	17,975	16,057	1,918

- Crude oil prices and foreign exchange rates are set based on the MOF's trade statistics for the recent three months (average of June to August 2013) at the time of the application.
- The nuclear power utilization is calculated on the assumption that Unit 4 will generate electricity from January 2016 and Unit 3 will generate electricity from January 2017. Electricity generated by Unit 5 during the cost calculation period (FY 2014 to FY 2016) is not reflected in the nuclear power utilization. Figures in the < > in the lower column of the nuclear power utilization indicate the nuclear power utilization excluding electricity generated by Hamaoka Units 1 and 2 that terminated the operation in January 2009.

(Nuclear power utilization rate)

FY2014: 0%、FY2015: 7.0%、FY2016: 30.2%

## 【 Generated and Received Power 】





# Electricity Rates Increase <4> : Efforts toward Promotion of Management Efficiency

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- The Company has been implementing extensive cost reduction efforts to raise management efficiency since the suspension of all reactors at the Hamaoka Nuclear Power Station in May 2011. In April 2013, the Company set up the “Emergency Management Efficiency Improvement Headquarters,” focusing on raising management efficiency more than ever.
- In calculating costs for the approved new rates, the Company tried to minimize the rate increase by issuing instructions to increase the cost saving amount (a three-year average from FY2014 to FY2016) by 28.2 billion yen from 163.3 billion yen (costs used as the basis for the rate revision) to 191.5 billion yen

(billion yen)

	Average of FY 2014 to FY 2016	[Major factors for Change]
Salaries and employee benefits	46.2 (0.2)	-To reduce directors' remuneration -To lower annual income of employees including a cutback in base salaries -To reduce welfare costs through the abolishment of all resort houses, etc.
Fuel • Purchased power	76.5 (18.5)	-To improve thermal efficiency by commencement of operation of Joetsu Thermal Power Plant (reduction of fuel costs) -To reduce fuel costs through procurement of less expensive fuels -To reduce costs of electricity purchased from other generators, etc.
Capex-related	9.9 (1.6)	-To cut back procurement costs by increasing competitive bidding -To cut back investment amounts by adopting new technologies and methods, etc.
Maintenance	35.7 (2.6)	-To cut back procurement costs by increasing competitive bidding -To cut back costs by adopting new technologies and methods, reviewing specifications and improving facility operation efficiency, etc.
Other	23.1 (5.2)	-To cut back procurement costs by increasing competitive bidding -To cut back PR costs such as sales promotion activities and advertisement to improve the Company's image -To cut back miscellaneous expenses, such as donations and organization membership fees, and research expenses related to concerning sales etc.
Total	191.5 (28.2)	

※Figures in parenthesis refer to additional cost saving amounts after the revision instruction.

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