Investors Meeting for the year ended March 31, 2012 May, 2012



Note: The Company's fiscal year (FY) is from April 1 to March 31of the following year. FY2011 represents the fiscal year began on April 1, 2011, and ends on March 31, 2012.

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I Outline of Financial Results for Fiscal Year Ended March 31, 2012

Summary of Financial Results <1>

We posted an operating and ordinary loss for the first time since FY 1994 when we adopted consolidated accounting. [Consolidated] We posted a net loss for the second time in three years (since FY 2008).

				(Billion yen,%)
	FY 2011	FY 2010	Chang	ge
	(A)	(B)	(A-B)	(A-B)/B
Operating revenues	2,449.2	2,330.8	118.3	5.1
Operating income (loss)	-37.6	174.2	-211.9	-
Ordinary income (loss)	-67.8	146.2	-214.1	-
Net income (loss)	-92.1	84.5	-176.7	_

We posted an operating loss for the first time since our foundation in 1951. We posted an ordinary loss for the second time in thirty two years (since FY 1979). We posted a net loss for the third time in three years (since FY 2008).

[Non-Consolidated] (sin

(Billion yen,%) Change FY 2011 FY 2010 (A) **(B)** (A-B)(A-B)/B2.295.1 2,178.2 116.8 5.4 **Operating** revenues -208.3 Operating income (loss) -50.4 157.8 Ordinary income (loss) -208.4 -77.4 131.0 -94.6 75.8 -170.4 Net income (loss)

[Principal Figures]

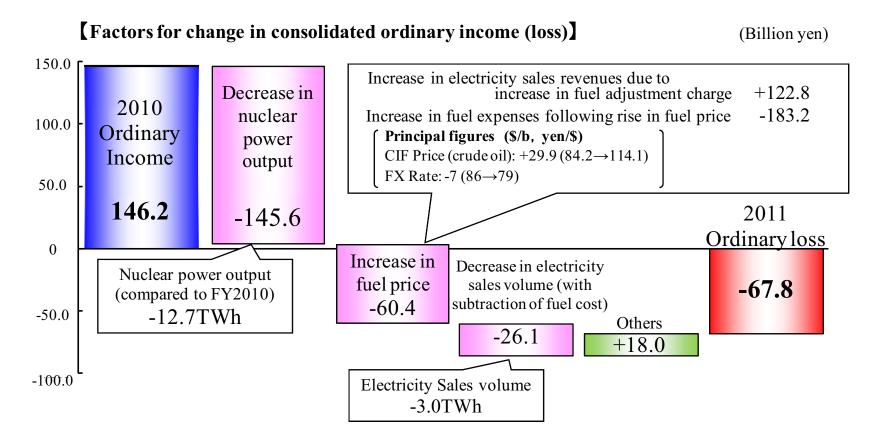
Item		FY 2011 (A)	FY 2010 (B)	Change (A-B)
Electricity sales volume	(TWh)	127.9	130.9	-3.0
CIF price: crude oil	(\$/b)	114.1*	84.2	29.9
FX rate (interbank)	(yen/\$)	79	86	-7
Nuclear power utilization rate	(%)	8.2	49.7	-41.5

* CIF crude oil price for FY2011 is tentative.

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Summary of Financial Results <2>

< year-on-year comparis	son Factors for change in consolidated	l ordinary income (loss) >
-Negative factors	-Decrease in nuclear power output	-145.6 billion yen
	- Increase in fuel price	-60.4 billion yen
	- Decrease in electricity sales volume (with subtraction of fuel cost)	-26.1 billion yen



2

Electricity Sales

<Demand from customers under regulation>

-Electric lighting Dropped 3.7% to 35.9 TWh as a result of decrease in air conditioning demand by cooler air temperature over the summer compared with previous year, and power saving.

-Electric power Dropped 5.0% to 6.4 TWh as a result of decrease in number of contracts, and decrease in air conditioning demand affected by temperature.

<Demand from customers under liberalization>

-Commercial power Dropped 5.9% to 22.2 TWh as a result of decrease in air conditioning demand affected by temperature and power saving.

-Industrial power, etc. Amounted to 63.4 TWh, almost the same as in FY 2010, because since the summer customers attempted to regain production lost by the March 11 earthquake, although production declined in the automotive-related industry due to the earthquake.

		FY 2011	FY 2010	Chai	(TWh, %)
		(A)	(B)	(A-B)	(A-B)/B
Demand from	Electric lighting	35.9	37.3	-1.4	-3.7
customers under	Electric power	6.4	6.7	-0.3	-5.0
regulation	Subtotal	42.3	44.0	-1.7	-3.9
	Commercial power	22.2	23.6	-1.4	-5.9
Demand from	Industrial power, etc	63.4	63.3	0.1	0.2
customers under liberalization	(Re-statement, large-lot demand)	(51.3)	(50.8)	(0.5)	(1.0)
	Subtotal	85.6	86.9	-1.3	-1.5
	Total	127.9	130.9	-3.0	-2.3

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Generated and Received Power

-Hydro	Increased by 0.5 TWh from the previous fiscal year due to higher water flow
	(flow rate for FY2011:112.0%, FY2010:107.6%)
-Nuclear	Decreased by 12.7 TWh from the previous fiscal year due to suspension of operation of all
	reactors at Hamaoka Nuclear Power Station
-Thermal	In addition to the above, because of decrease in interchanged power and purchase power,
	thermal power output increased by 16.4 TWh.

FY 2010 FY 2011 Change (A) **(B)** (A-B)(A-B)/BHydro 9.3 8.8 0.5 5.9 (flow rate) (112.0)(107.6)(4.4)Thermal 116.0 16.4 16.5 Internally 99.6 generated -82.9 Nuclear 2.6 15.3 -12.7 (utilization rate) (8.2)(49.7)(-41.5)**Renewable energy** 0.1 0.0 100.0 0.1 **Interchanged power** -0.8 4.8 -5.6 **Purchased power** 13.1 14.8 -1.7 -11.7 Power used for pumped storage -1.3 -0.3 -1.0 36.5 Total 139.0 142.3 -3.3 -2.4

(TWh, %)

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Non-consolidated Statements of Income <1>

			(Bi	illion yen, %)	[Major factors for Change]
	FY 2011	FY 2010	Cha	nge	
	(A)	(B)	(A-B)	(A-B)/B	
Electricity sales revenues	2,161.6	2,093.1	68.4	3.3	 Decrease in electricity sales volume: -48.1 Increase in Fuel adjustment
Revenues from power sold to other utilities, transmission revenues, etc.	65.2	20.7	44.4	214.7	charge: +122.8
Other	21.7	22.3	-0.6	-2.7	Increase in revenues from intercompany power purchases : +35.8
Electric utility operating revenues	2,248.5	2,136.2	112.3	5.3	
Incidental businesses operating revenues	46.6	42.0	4.5	10.9	
Total operating revenues	2,295.1	2,178.2	116.8	5.4	

Rounded down to nearest 100 million yen.

Non-consolidated Statements of Income <2>

			(E	Billion yen, %)	[Major factors for Change]
	FY 2011	FY 2010	Change		/ - Retirement benefit: -28.4
	(A)	(B)	(A-B)	(A-B)/B	(Actuarial differences: -19.1)
Salaries and employee benefits	201.3	228.5	-27.1	-11.9	- Thermal: +371.1 (Increase in consumption volume:
Fuel	1,040.9	678.4	362.4	53.4	+187.9) (Increase in unit consumption
Nuclear back-end expenses	19.1	31.3	-12.1	-38.9	price: +183.2)
Expenses for Purchased power, transmission charges, etc.	218.1	217.9	0.2	0.1	- Reprocessing of irradiated nuclear fuel : -7.0
Maintenance	216.0	202.6	13.4	6.6	- Thermal: +22.2
Depreciation	271.6	266.2	5.3	2.0	Thermal: +8.7
Taxes other than income taxes	125.5	127.7	-2.2	-1.7	- Nuclear: -2.6
Others	204.5	230.0	-25.5	-11.1	
Electric utility operating expenses	2,297.3	1,982.9	314.4	15.9	
Incidental businesses operating expenses	48.2	37.4	10.7	28.8	Gas sales business: +11.5
Total operating expenses	2,345.6	2,020.4	325.2	16.1	

Rounded down to nearest 100 million yen.

Non-consolidated Statements of Income <3>

			(B	illion yen, %)	
	FY 2011	FY 2010	Cha	e	[Major factors for Ch
	(A)	(B)	(A-B)	(A-B)/B	
Operating income (loss)	-50.4	157.8	-208.3	-	
Other revenues	19.8	16.1	3.7	23.1	Dividends income: +2.8
Interest expense	36.0	36.2	-0.1	-0.5	
Other	10.7	6.7	4.0	59.3	
Other expenses	46.7	42.9	3.8	8.9	
Ordinary income (loss)	-77.4	131.0	-208.4	-	<fy 2011=""></fy>
Reserve for fluctuation in water levels	8.3	2.4	5.8	240.3	-Settlement received from a l for a damage by a failed low- turbine blade at Unit No.5 of
Extraordinary income	9.0	-	9.0	-	, Hamaoka nuclear power stati
Extraordinary loss	17.2	8.6	8.6	100.0	<pre><fy 2011=""> </fy></pre> - Loss on transition to a defin
Income taxes	0.5	44.0	-43.5	-98.7	<pre>>> contribution pension plan +1? </pre>
Net income (loss)	-94.6	75.8	-170.4	-	-Adjustment for changes of accounting standard for asset
		Rounded down	to nearest 100) million ven.	retirement obligations: +8.6

[Major factors for Change]

-Dividends income: +2.8	

<FY	2011>
-----	-------

-Settlement received from a lawsuit for a damage by a failed low-pressure turbine blade at Unit No.5 of Hamaoka nuclear power station : +9.0
<fy 2011=""> - Loss on transition to a defined</fy>
contribution pension plan +17.2 <fy2010></fy2010>

Rounded down to nearest 100 million yen.

_1

7

Consolidated Statements of Income

					(Billion yen, %)
		FY 2011	FY 2010	Char	nge
		(A)	(B)	(A-B)	(A-B)/B
ity ss	Operating revenues	2,246.9	2,134.5	112.3	5.3
Electricity business	Operating expenses	2,288.6	1,970.3	318.2	16.2
EI P	Operating income (loss)	-41.7	164.1	-205.9	-
. SS	Operating revenues	202.3	196.3	6.0	3.1
Other business	Operating expenses	198.2	186.2	12.0	6.5
p 	Operating income (loss)	4.1	10.0	-5.9	-59.2
	Operating revenues	2,449.2	2,330.8	118.3	5.1
Total	Operating expenses	2,486.9	2,156.6	330.2	15.3
	Operating income (loss)	-37.6	174.2	-211.9	-
Non- perating	Non-operating revenues	20.9	17.4	3.4	20.0
Non- operatii	Non-operating expenses	51.1	45.3	5.7	12.6
Ordinar	y income (loss)	-67.8	146.2	-214.1	-
Net income (loss)		-92.1	84.5	-176.7	-

Internal transactions were cancelled. Rounded down to nearest 100 million yen.

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Segment Information

			(Billion yen)	
	FY2011	FY2010	Change	Major factors for shores
	(A)	(B)	(A-B)	Major factors for change
Sales from external customers	2,246.9	2,134.5	112.3	
Operating income (loss)*	-41.7	164.1	-205.9	
Sales from external customers	54.9	46.7	8.2	
Chubu Incidental business	32.5	26.3	6.2	-Increase in gas sales volume and rise in unit sales price
Subsidiaries	22.3	20.4	1.9	prec
Operating income (loss)*	-1.1	2.5	-3.7	
Chubu Incidental business	-1.9	1.4	-3.4	-Increase in unit purchase price due to rise in fuel price
Subsidiaries	0.8	1.1	-0.2	price
(Gas sales volume: thousnad ton)	(670)	(650)	(20)	
Sales from external customers	147.3	149.5	-2.1	
Chubu Incidental business	2.1	5.3	-3.2	-Sales decrease in real estate incidential business
Subsidiaries	145.2	144.1	1.0	
Operating income (loss)*	13.5	20.5	-6.9	
Chubu Incidental business	0.3	3.1	-2.7	-Decrease in telecommunication facility construction in construction-related subsidiaries
Subsidiaries	13.1	17.3	-4.2	construction in construction-related subsidiaries
Operating income (loss)	-8.2	-12.9	4.7	
Sales from external customers	2,449.2	2,330.8	118.3	
Operating income (loss)	-37.6	174.2	-211.9	
_	Operating income (loss)*Sales from external customersChubu Incidental businessSubsidiariesOperating income (loss)*Chubu Incidental businessSubsidiaries(Gas sales volume : thousnad ton)Sales from external customersChubu Incidental businessSubsidiariesOperating income (loss)*Chubu Incidental businessSubsidiariesOperating income (loss)*Chubu Incidental businessSubsidiariesOperating income (loss)Sales from external customersSubsidiariesSubsidiariesSubsidiariesSubsidiariesSubsidiariesSubsidiariesSubsidiariesSubsidiariesSales from external customersSales from external customers	Sales from external customers2,246.9Operating income (loss)*-41.7Sales from external customers54.9Chubu Incidental business32.5Subsidiaries22.3Operating income (loss)*-1.1Chubu Incidental business-1.9Subsidiaries0.8(Gas sales volume: thousnad ton)(670)Sales from external customers147.3Chubu Incidental business2.1Subsidiaries0.3Subsidiaries0.3Subsidiaries0.3Subsidiaries13.1Operating income (loss)-8.2Subsidiaries13.1	(A)(B)Sales from external customers $2,246.9$ $2,134.5$ Operating income (loss)* -41.7 164.1 Sales from external customers 54.9 46.7 Chubu Incidental business 32.5 26.3 Subsidiaries 22.3 20.4 Operating income (loss)* -1.1 2.5 Chubu Incidental business -1.9 1.4 Subsidiaries 0.8 1.1 (Gas sales volume: thousnad ton)(670)(650)Sales from external customers 147.3 149.5 Chubu Incidental business 2.1 5.3 Subsidiaries 145.2 144.1 Operating income (loss)* 13.5 20.5 Chubu Incidental business 0.3 3.1 Subsidiaries 13.1 17.3 Operating income (loss) -8.2 -12.9 Sales from external customers $2,449.2$ $2,330.8$	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$

* Figures before cancellation of internal transactions (between segments)

Rounded down to nearest 100 million yen.

Consolidated Financial Standing

			(Billion yen)			
	2012.3	2011.3	Change	Maion footons for show of		
	(A)	(B)	(A-B)	Major factors for change		
Assets	5,647.1	5,331.9	315.2	-Increase in cash and deposits -Increase in short-term investments		
Liabilities	4,098.8	3,633.5	465.2	-Increase in interest-bearing debt		
Net assets	1,548.3	1,698.3	-150.0	-Dividends payout -Recording net loss		
			(Billion yen, %)			
Shareholder's equity	26.8	31.1	-4.3			
ratio	(25.0)	(29.5)	(-4.5)			
Outstanding interest-	2,965.8	2,495.1	470.7			
bearing debt	(3,004.5)	(2,509.9)	(494.6)			
Average interest rate*	(1.30)	(1.32)	(-0.02)			
*As of the end of each fiscal period Non-consolidated figures in parentheses						

Rounded down to nearest 100 million yen.

Consolidated Statements of Cash Flows

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			(Billion yen)	
	FY 2011	FY 2010	Change	
	(A)	(B)	(A-B)	
Cash flows from operating activities	176.8	449.7	-272.9	
Cash flows from investment activities	-247.0	-336.0	88.9	
Cash flows from financing activities	422.0	-105.0	527.0	
Free cash flows	-70.2	113.6	-183.9	
	2012.3	2011.3	Change	
	(A)	(B)	(A-B)	
Cash and cash equivalents at end of period	473.1	121.2	351.8	

Rounded down to nearest 100 million yen.

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The Company does not provide financial forecasts for FY 2012, because the Company is unable to rationally forecast its business performance based on certain assumptions, since it is difficult to clearly predict when a green light to the restart of nuclear power stations is given, with situations surrounding nuclear power generation being increasingly uncertain and the electricity supply-demand situation being expected to be very tight across the nation.

Policy on the Shareholder's Return

- Amount of dividends (Non-consolidated)

	Dividends per Share (yen)				
	End of 1H	Year-end	Total in annual		
FY 2011	30	30	60		
FY 2012 (Forecast)	30	30	60		

- Policy on the Shareholder's Return (announced on May 10, 2011)

The company will work to maintain current level of

dividends (60 yen per annum per share).

It is based to meet shareholders' expectations steadily, as well as to continue investments for building and operating facilities, that are essential for a stable supply of electricity.

I Management Situation

- Progress of the Tsunami Countermeasures (announced on July 22, 2011)

Timeframe for Principal measures

Dringing	maasuras against Tsunami		FY2	2011		FY2012		
Principal	measures against Tsunami	Apr-Jun	Jul-Sep	Oct-Dec	Jan-Mar	Apr-Jun	Jul-Sep	Oct-Dec
Inundation Prevention (1)	Construction of breakwater, etc.	▼Started on April 5th Investigation, preparatory work ▼Started on September 22nd Preparatory work ▼Started on November 11th Breakwater construction (foundation work, wall construction)					nstruction)	
Inundation Prevention (2)	Installation of EWS	Started on October 13th Construction for installing EWS						
Reinforcing Emergency Measures	Installation of emergency AC generators (gas turbine generators) on the hill		Arrangi	▼Star	g gas turbine ge ted on Novembe Develop hill site	er 21st	site, etc. stalling power pan floor and h	

Construction / installation period and costs

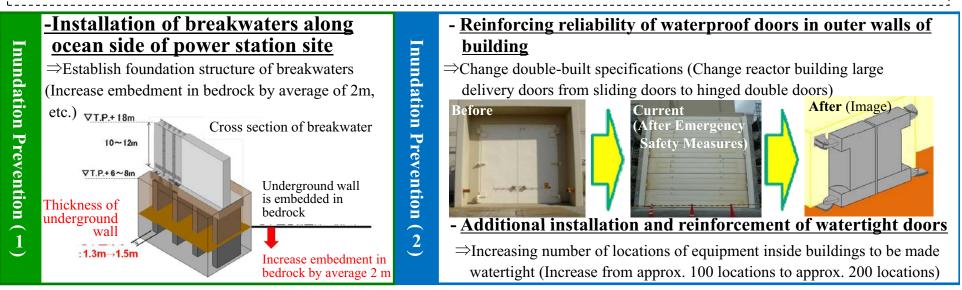
Construction / Installation Period	Construction / Installation Cost		
Completion by Dec. 2012 (target)	approx. 140.0 billion yen		

Increased Construction Cost for Tsunami Countermeasures at Hamaoka Nuclear Power Station

- Main Content of increased construction costs for tsunami countermeasures

- Considering progress in detailed design and findings from the accident at Tokyo Electric Power Co., Inc.'s Fukushima Daiichi Nuclear Power Station and other such findings obtained since the July announcement, we have revised the construction costs upward from the approx. 100.0 billion yen we initially envisioned to approx. 140.0 billion yen.

- We continue construction with the aim of completion in December, 2012.



-Diversification of water sources

 \Rightarrow Increase water storage capacity (Increase water storage facility on high ground from approx. 6,000m³ to approx. 9,000 m³)

- Emergency AC power supply equipment(gas turbine generator) installation on high ground

⇒Increase number of gas turbine generators installed (Increase from three units to six units)

- Installation of power panels and switch panels on upper floors on high ground

⇒Increase number of power panels and switch panels installed (Increase from approx. 100 panels to approx. 300 panels) and accompanying new installation of changeover power boards (approx. 150 units)

Reinforcing Emergency Measures

Revision of seismic source model (released by the Cabinet Office) 16

-Maximum seismic intensity and heights of tsunami in Omaezaki City according to a revised forecast by the Cabinet Office released on March 31, 2012

-The Cabinet Office released its predictions on maximum seismic intensity levels and tsunami heights if a maximumscale earthquake and subsequent tsunami occur (all possibilities are taken into account).

Items	Predictions from the Central Disaster Prevention Council (released in 2003)	Predictions from the cabinet office (this time)	
	(Around the power station premises)	(Values for Omaezaki City according to the table by each municipality)	
seismic intensity (ground surface)	6-lower ^{*1}	Maximum seismic intensity 7 (seismic intensity 6- upper or 7 according to the examined cases)	
maximum acceleration (bedrock)	395 gal ^{*2}	not shown	
Hight of tsunami	6-/ meters	Maximum 21.0 m (from 7.8 meters to 21.0 meters according to the examined cases)	

*1: Based on data provided by the Central Disaster Prevention Council

*2: According to our back-check evaluation on aseismic resistance (reported values), the standard seismic movement is 800 gals (on bedrock) and the inundation heights of tsunami reach approx. 8 meters.

- Our Reaction

-The Cabinet Office data say that the maximum height of tsunami in Omaezaki City is 21 meters. Even if a tsunami exceeds the breakwater, we think that we can secure the Plant's safety, because we have taken inundation prevention measures for the Plant and have conducted tsunami countermeasure works from the standpoint of multiplexing and diversification with the aim of reinforcing emergency measures to maintain cooling functions.

-We will scrutinize detailed data on the predictions and implement necessary measures by also taking into account predictions to be revealed in the future.

Supply and Demand Results for Winter FY 2011

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- Supply and Demand Results for Winter FY 2011

- Three-day average peak load increased to 23,290 MW, up 20 MW from FY 2010, due to weather effects (very cold weather), etc., despite energy conservation efforts.

Peak load 3	-day average		Breakdown of difference		
Feb. 2012	Jan. 2011	Difference	Energy conservation effect	Increased power generation from private power plants	Weather effect, etc.
23,290 MW	23,270 MW	20 MW	-500 MW	-130 MW	+650 MW

(Reference) Supply and Demand Results for Summer FY 2011

- Three-day average peak load decreased to 25,020 MW, down 1,970 MW from FY 2010, due to weather effects (poor weather) and the efforts of many customers to conserve energy and adjust operating schedules.

Peak load 3.	-day average		Breakdown of difference*				
Aug. 2011	Aug. 2010	Difference	Energy conservation effect	Customers suspending operations, etc.	Weather effect, etc.		
25,020 MW	26,980 MW	-1,970 MW [*]	-1,000 MW	-200 MW	-800 MW		

The numbers do not add exactly as shown because of rounding.

Supply and Demand Outlook for Summer FY 2012

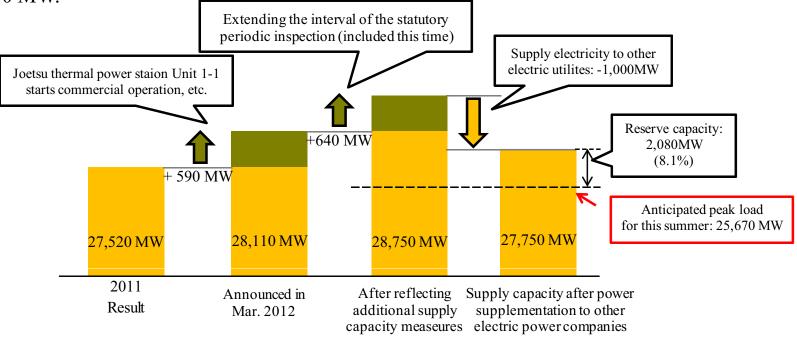
- Peak load for summer FY 2012

-We assume that peak load will increase to 25,670 MW, up 650 MW from FY 2011 by taking into account the establishment of customers' awareness of energy conservation, etc.

EV 2012	EX 2011		Breakdown of difference				
FY 2012 Plan	FY 2011 Result	Difference	Energy conservation effect	Planned adjustment contracts, etc.	Economic conditions effect	Weather correction	
25,670 MW	25,020 MW	+650 MW	+400 MW (-1,000→-600)	-170 MW (-200→-370)	+300 MW	+120 MW	

- Supply capacity, reserve margin trends in August, 2012

- It is estimated that a reserve margin of 8.1% can be attained because electric power supply capacity after power supplementation to other electric power companies forecasts to be 27,750 MW against peak load of 25,670 MW.



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- Additional Fuel and Oil Procurement in FY 2011

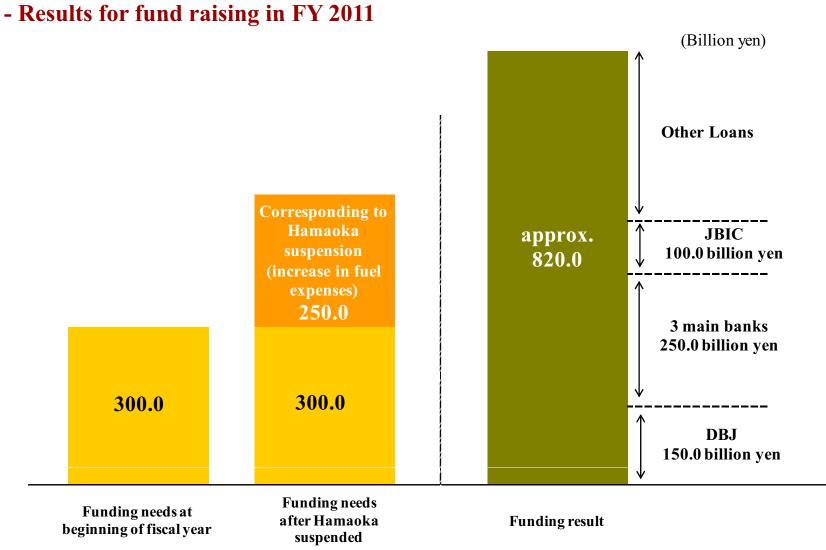
	LNG	Oil
Electric Power Supply plan (announced in March 2011) Annual amount to be received <1>	8.42 million ton	0.73 million kl
Annual amount received in FY 2011 (Results) <2>	13.12 million ton	1.49 million kl
Difference <2-1>	4.7 million ton	0.76 million kl

- Outlook for Fuel Procurement in FY 2012

- It is difficult to estimate how much fuel we need to procure, because demand, etc., a premise for our estimation, have not been determined.

- If we assume that approximate 13 million tons of LNG should be procured in FY 2012, nearly the same as in FY 2011, it is estimated that we can secure almost what we need.

Fund Raising



- Outlook for fund raising in FY 2012
 - We plan to raise approx. 600.0 billion yen in FY 2012.

Efforts to Improve Managerial Efficiency

- Efforts to improvement of managerial efficiency in FY 2012

- Further efforts will be made in FY 2012 to improve managerial efficiency like FY 2011 with the aim to reduce investments and expenses.

- (Reference) Efforts to improve managerial efficiency in FY 2011

- We strived to the limit to achieve further increases in management efficiency in FY 2011 due to the significant increase in fuel expenses occasioned by the suspension of operations of the Hamaoka Nuclear Power Station

< Increase in expenses occasioned by the suspension of operation of the Hamaoka Nuclear Power Station >

Items	Amount
Increase in fuel expenses (using LNG and oil fueled thermal power units instead of nuclear power units)	258.0 billion yen
Increase in other expenses (expenses for resuming operations of thermal power units under long-term planned shutdown, etc.)	15.0 billion yen
Total	273.0 billion yen

< Efforts to improve managerial efficiency >

Items	Amount
Reduction of investment	75.0 billion yen
Reduction of expenses (maintenance, fuel and others)	75.0 billion yen
Total	150.0 billion yen

Requests to METI

Responded or approved items

- Speed up procedures such as approving applications for medium- to long-term measures at Hamaoka Nuclear Power Station

- Support for securing electric power supply and demand balance

- Further extension of periodic licensee's inspection schedule times for thermal power unit

- Support for bearing additional costs

- Loans under the Development Bank of Japan's crisis response financing system

- Explanation by the national government to ratings organizations and private financial institutions that the period of suspended operations at Hamaoka Nuclear Power Station is limited and that the national government gives its utmost support

- Subsidies for interest on loans from financial institutions

Items under deliberation

- Consideration regarding CO₂ emissions

- Special measures related to CO₂ credit procurement and methods of calculating CO₂ emissions coefficient
- Retaining our right to participate in government agency bids based on the Green Contract Law

III Reference Data

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40	- Interest Equily rando, 2000 Equily rando		20	
•••••• 41				
	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Fuel Procurement (FY 2011) LNG Contracts25Advancement of Coal Trading26Acquisition of Interests in Energy Resources27Acquisition of Interests in Energy Resources28Overseas Business Deployment29Sales Strategy30Electricity Business Environment <1>31Electricity Business Environment <2> The Task Force on the Reform of Electric Power Systems32The Act to Establish a Nuclear Damage Compensation Facilitation Corporation33Outline of advisory conference concerning review of electricity rates system and its operation34Electricity rates system and thermal fuel cost36Smart Meter37Retirement Benefit Cost (Non-consolidated)38Free Cash Flow (Non-consolidated)39Shareholders' Equity Ratio, Debt - Equity Ratio	24Fuel Procurement (FY 2011)LNG Contracts	

Safety Measures at Hamaoka Nuclear Power Station 23

- Actions taken before the Great East Japan Earthquake

- We set the target resistance of buildings (to about 1,000 gals on a bedrock), and implemented safety measures, including seismic retrofitting works for Units 3 to 5.

- Actions taken after the Great East Japan Earthquake

- + March 11, The Great East Japan Earthquake occurred.
- March 30, The Minister of Economy, Trade and Industry instructed that emergency safety measures be carried out.
- + April 20, Concerning the Nuclear and Industrial Safety Agency:

• "Emergency safety measures" were completed.

• <u>"Medium- to long-term measures," including construction of</u> <u>breakwaters,</u> were reported.

- May 6, The government evaluated appropriateness of the Chubu's report on April 20, but issued "Request to Securely Implement Protective Measures Against Tsunami at Hamaoka Nuclear Power Station and to Shut Down its Reactors Until Then" → Suspension of operation decided (May 9)
- + July 22, <u>Comprehensive countermeasures against tsunami were established</u> by <u>expanding</u> already announced <u>medium- to long-term measures</u>, and <u>adding new measures</u>.

* In addition to the above, the national government's instructions based on the effects of the Great East Japan Earthquake were properly dealt with on a timely basis.

Outline of Countermeasures against Tsunami at Hamaoka Nuclear Power Station

- Outline of countermeasures against tsunami at Hamaoka Nuclear Power Station (Announced in July 22, 2011)
- To "prevent inundation," taking inundation-prevention measures for (1) the power station premises, including the construction of breakwaters, and (2) housings in the submerged premises
- "Reinforcing emergency measures" to secure cooling function even under "loss of all AC power sources" and "loss of seawater cooling function," which occurred at Fukushima Daiichi Nuclear Power Plant

Inundation prevention (1) : <u>The power station premises</u>	Inundation prevention (2) : Inundation of Housings	
Prevention of inundation within the power station	Maintaining seawater cooling function in the submerged	
premises by constructing breakwaters (T.P.+18m), etc.	premises, Prevention of housing inundation	

Reinforcing emergency measures : <u>Maintaining seawater cooling function</u>

Maintaining cooling function in the event that all AC power and seawater cooling function are lost

- By taking alternative measures for the functions of injection, heat removal and power sources, through combining diverse methods, high temperature suspension of nuclear reactors should be kept stable, and the reactors should be securely and safely led to cold shutdown.

Inundation Prevention <1>

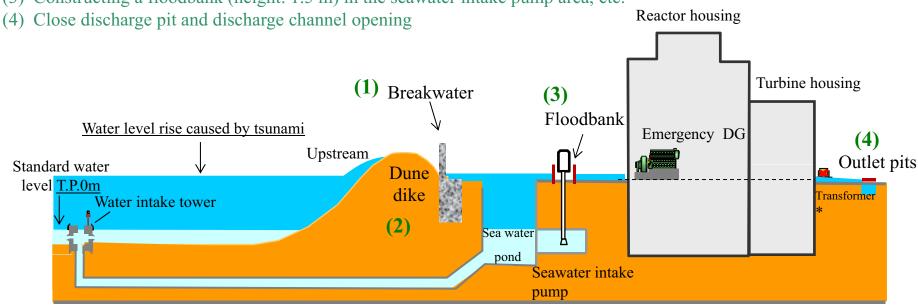
- Preventing inundation caused by tsunami direct entry into power station premises
- Taking measures to control seawater overflow from the water intake chambers etc., due to the water rise therein due to tsunami-driven sea level rise

< Inundation Prevention >

- (1) Constructing a breakwater of <u>T. P. (Tokyo Bay Average Sea Level) + 18 m</u> (height of top edge) on the seaside of the power station premises
- (2) Raising height of the dune dike in front of the power station and the embankment on its eastern and western sides

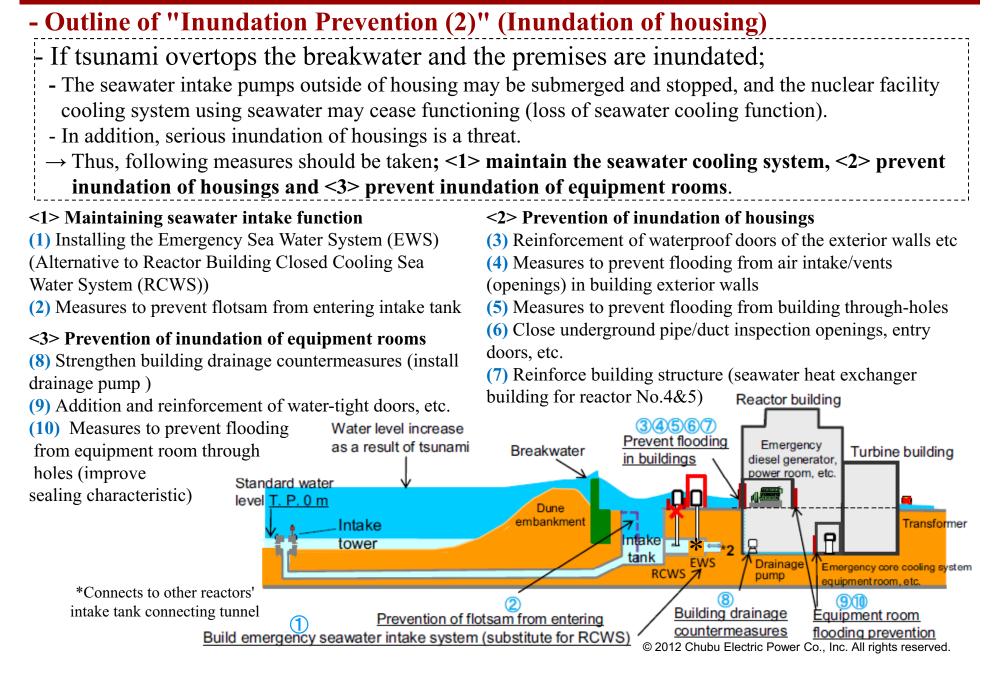
< Overflow Control >

(3) Constructing a floodbank (height: 1.5 m) in the seawater intake pump area, etc.



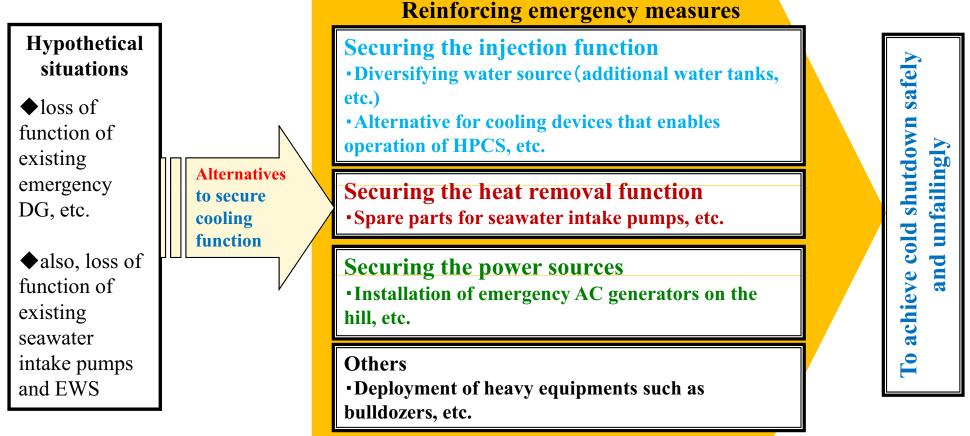
* It should be assumed that the outdoor transformer will be rendered inoperable due to inundation of the premises. Even if the external power supply is recovered, the power supply from the outdoor transformers should not be expected in the early stage. © 2012 Chubu Electric Power Co., Inc. All rights reserved.

Inundation Prevention <2>



Reinforcing Emergency Measures

- Outline of "Reinforcing Emergency Measures" (Maintaining seawater cooling function)
- A safe and secure cold shutdown system should be prepared by "securing cooling function", even assuming "loss of all AC power supplies" and "loss of seawater cooling function," both of which took place at Fukushima Daiichi Nuclear Power Plant. Such measures shall be combining diverse methods.



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Construction of Breakwater

- Breakwater Construction Plan

- A breakwater wall of <u>**T.P.**</u> +18 meters in height and about 1.6 kilometers in total length will be constructed behind and to the flank of the sand dunes facing the ocean on the plant premises. Also, at the both ends of the wall, embankment of <u>**T.P.**</u> +18 to 20 meters tall will be constructed so that there will be no gap between the wall and the natural ground of <u>**T.P.**</u> + 20 meters or taller.

 \rightarrow Prevention of tsunami inflow from the front and sides of the premises, as well as from waves coming around to the back



- Schedule for the Construction

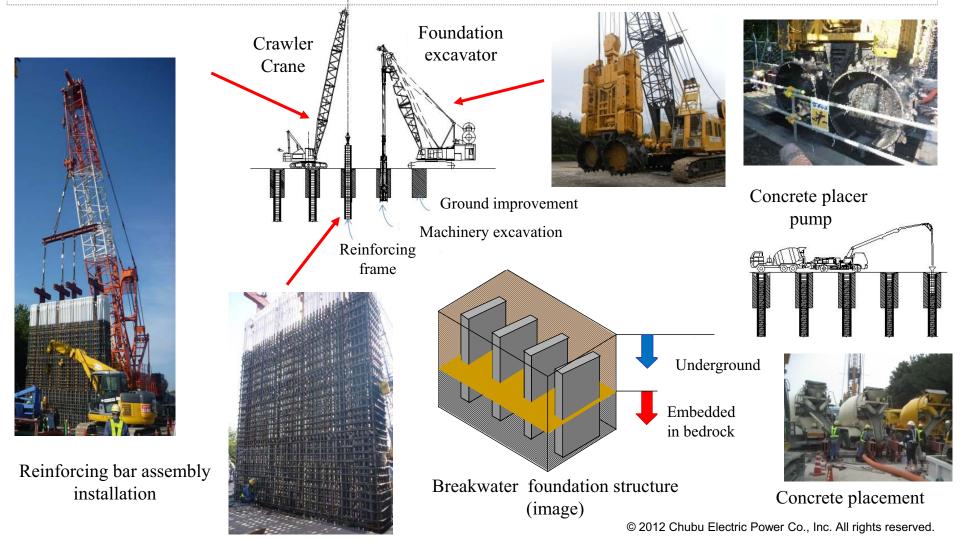
- Preparatory work: started on September 22, 2011
- Breakwater construction: started on November 11, 2011
- Completion: December, 2012 (target)

Progress in Breakwater Construction <1>

- Of 228 points, foundation work (reinforcing bar installation and concrete placing) is finished in 115 points (at the end of March, 2012).

29

- Starting with parts where foundation trench excavation is finished, we conduct underground wall rebar (iron reinforcing bar) assembly installation and concrete placement.



Progress in Breakwater Construction <2>

-Manufacturing wall sections for the breakwater (floor slabs and vertical walls) at the factory

- -Manufacturing floor slabs and vertical walls that consist of the wall section for the breakwater at the factory - One block of the wall section is made of 15 components (5 floor slab and 10 vertical wall pieces). In total, 109 blocks are used to build the entire breakwater (excluding the discharge channel section and the western end of the premises).
- Components will be brought to the plant premises before assembling them into blocks. The blocks will be
- installed one by one at a place where the foundation work is completed.



Cover shot of the wall section (floor slabs and vertical walls) temporarily assembled at the factory (February 28, 2012)

(Breakwaters wall structure (image))

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Seawater inflow via damaged tubes in the main condenser for 31 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.

Status of salt removal procedures

-Chloride ion concentration inside the reactor dropped to such a low level that it will not affect equipment.

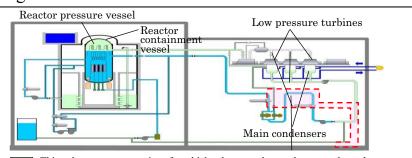
-The installation of equipment that eliminates salt from turbines is under way. Operations to eliminate salt from condensers are scheduled to start in around May 2012 when the installation is completed.

Future plan

-Examine equipment (sections where seawater flowed in) that has not yet been checked. Open the reactor, examine the inside of the reactor, check fuel and remove salt.

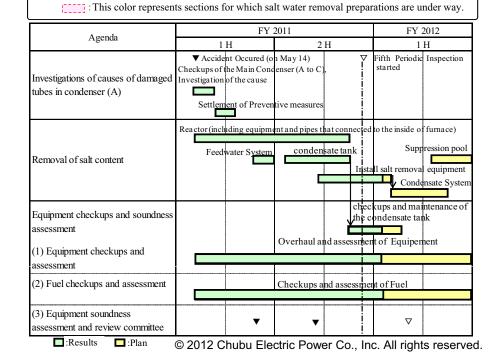
-We will hear opinions of experts and finalize our view on expectable impacts of seawater on our equipment and machines by the end of the first half of FY2012.

- All procedures, including equipment checkup and soundness assessment, will be completed by the end of December, 2012.



: This color represents sections for which salt removal procedures are planned.

: This color represents sections in which salt water removal procedures are under way.



Comprehensive Assessment on the Safety Performance (Stress Test) 32

- Outline of the Comprehensive Assessment on the Safety Performance (Stress Test)

	Primary assessment	Secondary assessment	
Tawat	Those reactors which completed a periodic	All reactors and power generation facilities (including those under	
Target	inspection and are ready for the start of operation.	construction)	
	<1>Earthquake	<1>Earthquake + other natural disasters (typhoons, heavy snow,etc.)	
	<2>Tsunami	<2>Tsunami + <u>other natural disasters (typhoons, heavy snow,etc.)</u>	
	<3>Combined effects of earthquake and tsunami	<3>Combined effects of earthquake and tsunami	
•	<4>Loss of all AC power sources	<4>Loss of all AC power sources	
Assessment	<5>Loss of an ultimate heat sink	<5>Loss of an ultimate heat sink	
ite ms	<6>Effects of accidents management measures	<6> <u>Combined effects of the loss of all AC power sources and the loss of</u>	
		<u>an ultimate heat sink</u>	
		<7> <u>Identification of possible "cliff-edge effects" * and prevention</u>	
		measures against them as part of severe accident countermeasures	

* A "cliff-edge effect" is characterized by a sudden turn of events triggered by a phenomenon that any factor adversely affecting a plant has exceeded a certain level of severity.

- Responses of the Hamaoka Nuclear Power Station

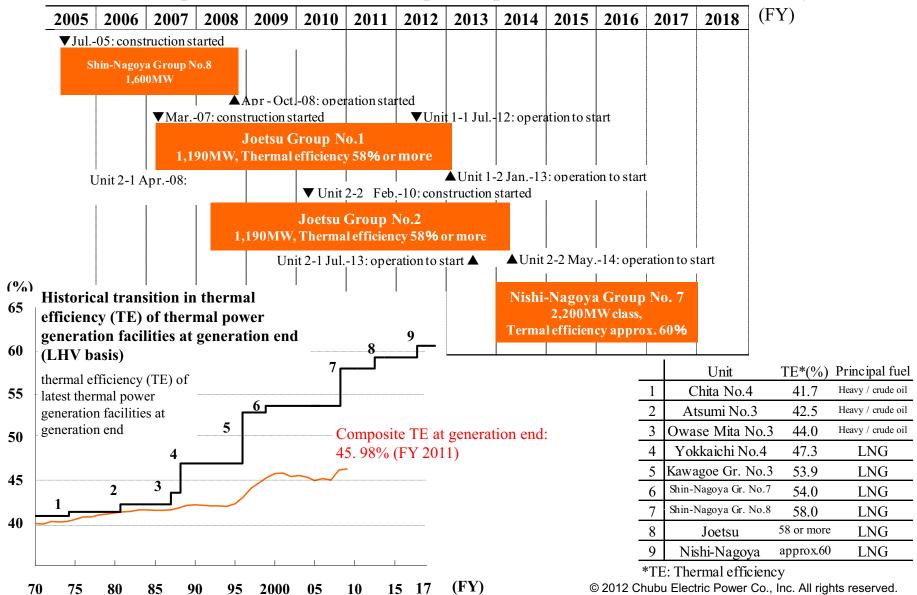
- At the Hamaoka Nuclear Power Station, operation of all reactors has been suspended: No. 1 and No. 2 reactors are undergoing decommissioning; countermeasure works are under way to protect No. 3 to No.5 reactors from tsunami.

- Because the government's directions stipulate that the subject of the primary assessment are nuclear reactors that are under periodic inspection and ready for restart, we will be required to conduct the secondary assessment for the Hamaoka Nuclear Power Station and report the assessment results.

- No. 1 and No. 2 reactors are considered not subject to the primary assessment but subject to the secondary assessment, because these reactors are undergoing decommissioning.

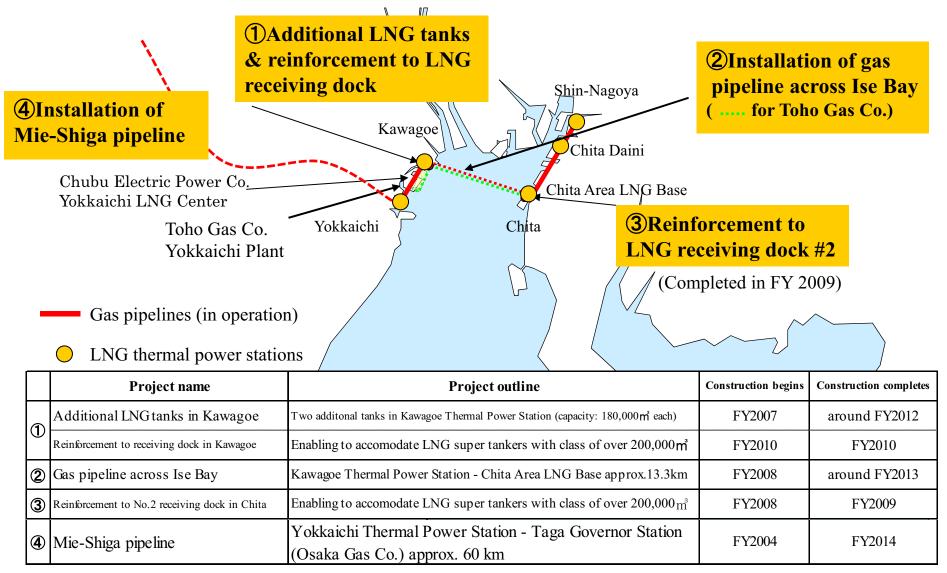
Development of LNG Thermal Power Plants with Enhanced Efficiency

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



Reinforcement Plan for LNG Handling Facilities

- Supporting stable yet flexible LNG procurement

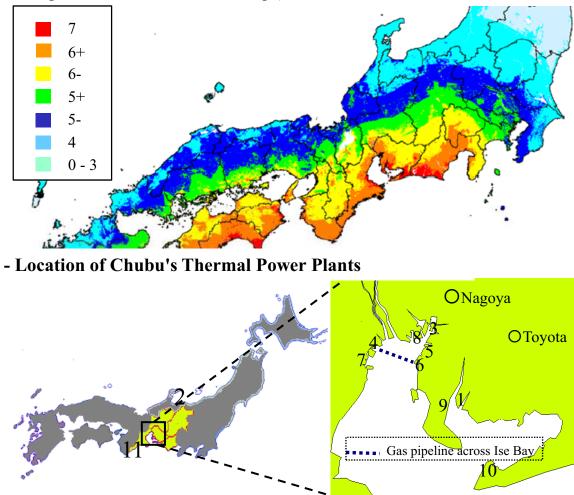


34

Actions at Thermal Plants against Earthquakes <1> 35

- In accordance with obligations to ensure safety in the maintenance of electric facilities under the Electricity Business Acts, thermal plants are designed to contain damage within the plant premises and ensure public safety, even if an earthquake causes damage to the facilities.

-Seismic Intensity Map by Possible Massive Earthquake in Nankai Trough (from the Study Panel for the Massive Earthquake Model in Nankai Trough)



<List of Thermal Power Plants>

List of Thermal Power Plants /					
No.	Site name	Approved output capacity (MW)	Fuel		
1	Hekinan	4,100	Coal		
2	(Joetsu - under construction)	<2,380>	<lng></lng>		
3	Shin-Nagoya	3,058	LNG		
4	Kawagoe	4,802	LNG		
5	Chita Daini	1,708	LNG		
6	Chita	3,966	LNG/Oil		
$\overline{\mathcal{O}}$	Yokkaichi	1,245	LNG		
	Nishi-Nagoya	1,190	Oil		
8	(Refreshment plan)	<2,200>	<lng></lng>		
9	Taketoyo	1,125	Oil		
10	Atsumi	1,900	Oil		
(11)	Owase Mita	875	Oil		

Actions at Thermal Plants against Earthquakes <2> 36

- Measures been taken at thermal plants

Safety measures

Even if a large earthquake causes damage to main facilities, the plants are designed to ensure public safety.

Reinforcement of prompt recovery system

-Increase the seismic capacity of main facilities that require longer time to be restored.

-Formulate a maintenance plan that makes prompt recovery possible.

- Actions against earthquakes at other facilities

Hydropower plants

- It was confirmed that the dam itself will be safe and will not be seriously affected by the potential triple interrelated earthquakes.

- Aseismic performance of dam-related structures (hydraulic iron pipes, dam floodgate columns) will be assessed gradually, and measures to improve their aseismic resistance will be taken as necessary.

Improvement of aseismic resistance

Priority will be placed on measures to improve aseismic resistance of power plants and LNG bases that support stable supply of electricity in order to secure quick recovery of power supply after an earthquake strikes.



Power plants and LNG bases that support stable supply of electricity (Photo from left: Hekinan thermal, Kawagoe thermal, an LNG base)

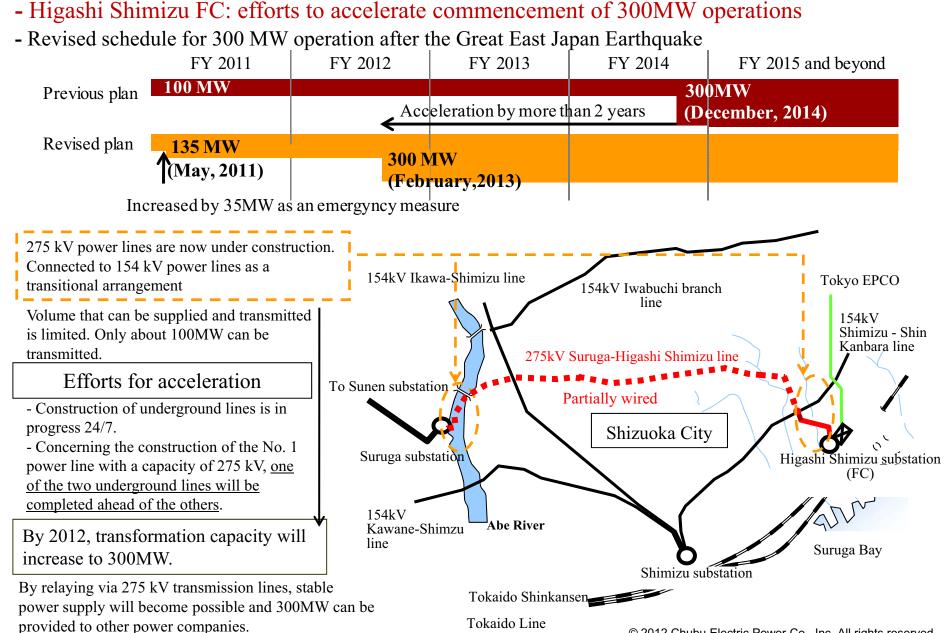
Distribution facilities

- Ensure the seismic capacity of supporting materials, such as steel towers and power poles, by taking into account wind loads larger than an earthquake when designing them.

- Multiplex by doubling lines and systematization and ensure replacement.

- Strengthen mobile facilities to prevent long-term supply impediments from occurring, even if a triple interrelated earthquake and subsequent tsunami occur. © 2012 Chubu Electric Power Co., Inc. All rights reserved.

Strengthen Mutual Support among Power Companies



Efforts toward Promotion of Renewable Energy <1> 38

Governmental efforts toward promotion of Renewable Energy

	The Excess Electricity Purchasing Scheme for Photovoltaic Power (Implementation from November 1,2009)	Feed-in Tariff Scheme for Renewable Energy (Implementation from July 1,2012)
What shall be purchased	-Excess electricity generated through Photovoltaic ficilities exported back to the grid	-Electricity generated from Solar PV [*] , wind power, hydraulic power, geothermal and biomass *Electric utilities continue purchasing surplus electricity
		generated by photovoltaic systems at homes, etc.
Purchase rate Purchase period	-Case in FY2011 Residences : 42yen/kWh (for 10 years) Non-residences : 40yen/kWh (for 10 years)	-The purchase price and purchase period corresponding to energy source, form of installation and scale shall be decided by the Minister of Economy, Trade, and Industry based on the opinion from the procurement price calculation committee.
Collection of purchased costs	-The cost (surcharge/kWh) shall be borne all over Japan -Surcharge will be collected by each	-The equal cost (surcharge/kWh) shall be borne all over Japan (partial reductions exist) -Adjustment to make the surcharge equall all over
	electric power utility	Japan

Efforts toward Promotion of Renewable Energy <2>

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- Details for promotion of renewable energy

	Detailed plans			CO ₂ reduction ^{*1} (t-CO ₂ / year)	Operation commences
ъ.,	Mega Solar Iida		1	400	FY 2010
Solar	Mega Solar Taketoyo		7.5	3,400	FY 2011
S	Mega Solar Shimizu		8	4,000	FY 2014 (Plan)
	Chubu Electric	Omaezaki	22	29,000	(Phase1) FY 2009 (Phase2) FY 2010
		Wind Park Misato	16		FY2005
Wind		Wind Park Kasadori	38		(Phase1) FY2009 (Phase2) FY2010
Λ	Group companies	Wind Park Minamiibuki (tentative name)	32	213,000	FY2017 (Plan)
		AOYAMA-KOGEN WIND FARM	15		FY2002
			80		FY2014~16 (Plan)
		Susado	0.24	600	FY 2010
		Tokuyama (unit 1)	131.0	150,000	FY 2015 (Plan)
		Tokuyama (unit 2)	22.4	150,000	FY 2014 (Plan)
		conventional hydro	4.2	12,000	FY 2020 (Plan)
_	New development		7.3	19,000	FY 2021 (Plan)
Hydro			0.26	500	FY 2014 (Plan)
Hy		Generation with	0.19	600	FY 2015 (Plan)
		minimum water level	0.22	800	FY 2016 (Plan)
			0.3	900	FY 2017 (Plan)
			0.32	600	FY 2018 (Plan)
	Improvement	Improvement Wagoh		200	FY 2012 (Plan)
	Transfered by the enterprize dept. of Mie prefecture (10 sites)		0.1 ^{*2} 98		
nass	Mixture of wooden chip		_	200,000	FY 2010
Bior	Mixture of wooden chip Mixture of fuel from carbonized sewage sludge		_	4,000	FY 2012 (Plan)

*1 Approximate estimations made at announcement of plans

*2 Represents amount of improvement($3.0MW \rightarrow 3.1MW$)

Reduction of CO₂ Emissions

-Initiatives on reduction of CO₂ emission

Promote the adoption of power generation using renewable energy
Improving thermal efficiency of thermal power
Participate in CO2 reduction projects in developing countries
Heighten awareness of energy conservation (advocate eco-friendly lifestyle)
Develop proposals and technologies for more efficient energy utilization

-Corporate target on CO₂ reduction (setting in 1996)

Reduction of CO₂ emission by 20% in terms of intensity on 5-year average basis from FY2008 to FY2012 – the first commitment period of the Kyoto Protocol (compared with the level of FY1990)

	FY1990	FY2008	FY2009	FY2010	FY2011
CO_2 emission (10,000ton- CO_2)	4,631	5,905 [5,506]	5,827 [5,117]	6,194 [4,462]	approx. 6,700
CO ₂ emission intensity (kg-CO ₂ /kWh)	0.464	0.455 [0.424]	0.474 [0.417]	0.473 [0.341]	approx. 0.52

CO ₂ emission and	CO ₂ emission	intensity
------------------------------	--------------------------	-----------

(注1) []...after use of Kyoto Mechanism credits

(2) FY2011 figures are estimated results.

Supply-side Measures for FY2011

- Supply-side Measures for Summer

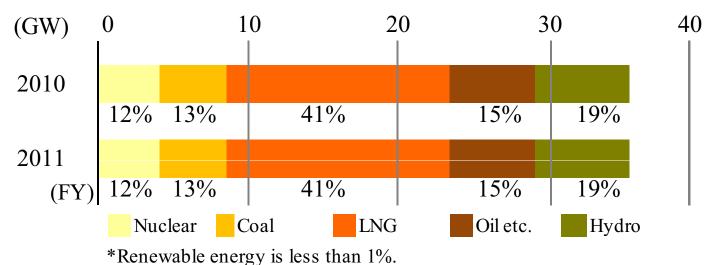
Items	Agenda	Announcement	Extra supply capacity	
	Change in period for periodic inspection of Shin-Nagoya Thermal Power Station Unit 7-2 (243MW)	Jun. 28		
	Change in period for periodic inspection of Kawagoe Thermal Power Station Unit 4-4 (243MW)	Jun. 28		
Changing and shortening periodic inspection times for	Change in period for periodic inspection of Yokkaichi Thermal Power Station Unit No. 3 (220MW)	May. 23 Jun. 28	Up to 1,260 MW	
thermal power equipment	Shortening of periodic inspection process for Kawagoe Thermal Power Station Unit No.2 (700MW)	May. 23 Jun. 28		
	Change in period for periodic inspection and shortening of inspection process, etc for Shin-Nagoya Termal Power Station Unit 7-4 (243MW)	May. 23		
Cessation of power supplementation by Chubu Electric Power	Stop the supplementation of electric power to the 50 Hz (East Japan) region	May. 9	Up to 750 MW	
Postponing the long-term planned shutdown	Taketoyo Thermal Power Station Unit No. 3 (375MW)	May. 9	375 MW	
Resuming operations of thermal power units under	Resume operations at Taketoyo Thermal Power Station, Unit No. 2 from July 31 st (375 MW)	May. 23 Jul. 26	Up to	
long-term planned shutdown	Resume operations at gas turbines of Chita Daini Thermal Power Station, Unit No. 2 from August 2 nd (154 MW)	May. 23 Jul. 26	410 MW	
Change in periods for work stoppages at hydroelectric power station	Changing work stoppage times at Nikengoya (26 MW), Kitamatado (242 MW) and Miho (6 MW) power stations, etc.	May. 23	Up to 30 MW	
Purchase of electric power from other businesses	Purchase of power from businesses with large-scale generator facilities	Jun. 28	30 MW	
Urgent operating capacity of Mie Higashiomi Line connecting to network of Kansai Electric Power	Provisionally expand the operating capacity of the connecting line from Kansai Electric Power (+280 MW)	May. 23		
Focusing inspections on power stations, related power transmission and transformer equipment, etc.	Before the start of summer, focus our inspection on power stations, related power transmission and transformer equipment, etc. to ensure supply stability	May. 23		

- Supply-side Measures for Winter

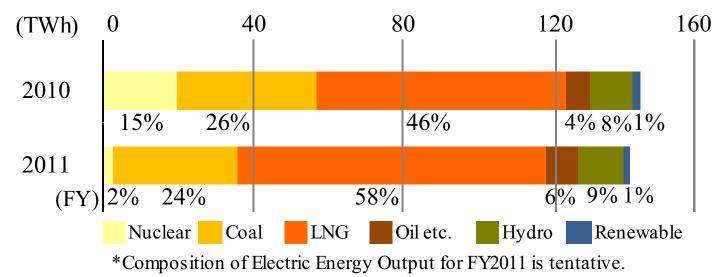
	Change and shorten periodic inspesction schedule at Hekinan Thermal Power Station Unit No.1 and 4, Chita Thermal Power Station Unit No.2 and 6, Chita Daini Thermal Power Station Unit No.1, etc.		1,600 MW
Review of hydroelectric power station maintenance	Change and shorten maintenance work schedule at Okuyahagi Hydroelectric Power Station, etc.		240 MW
	Restore Taketoyo Thermal Power Station, Unit No. 2 Restore Chita Daini Thermal Power Station , Unit No. 2 gas turbine	Oct. 4	430 MW

Composition of Power Sources and Electric Energy Output 42

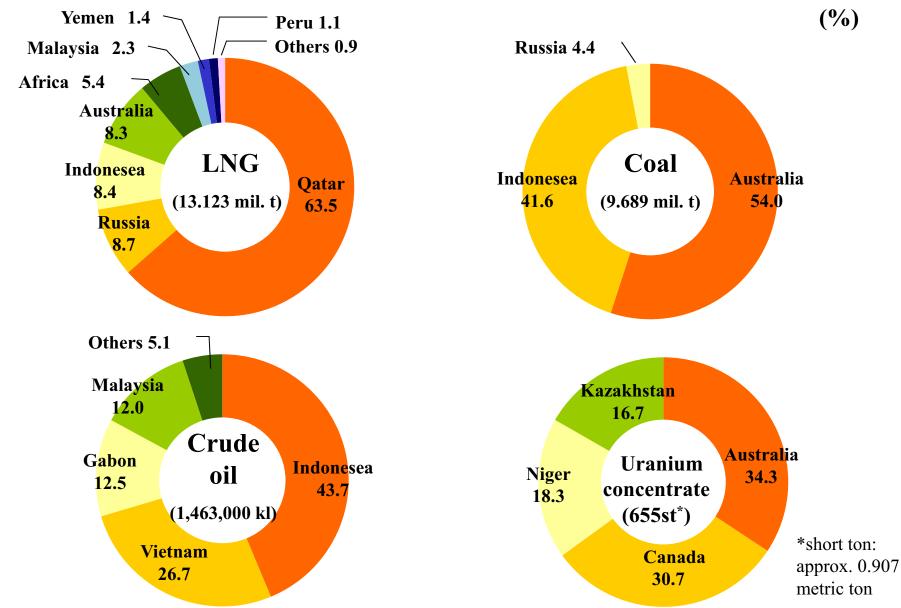
- Composition of Power Sources



- Composition of Electric Energy Output



Fuel Procurement (FY 2011)



Figures in parentheses represent purchased volume.

LNG Contracts

- Principal LNG Contracts

(1,000 t/yea				
Duringto / Adalisants		Period of contract		Contract volume
	Projects / <delivery></delivery>	renou (or contract	(approximate figure)
	Qatar / <ex-ship></ex-ship>	1997 - 2021	(approx.25 years)	4,000
its ig	Australia (extension) / <ex-ship></ex-ship>	2009 - 2016	(approx.7 years)	500
Existing Contracts	Australia (expansion) / <ex-ship></ex-ship>	2009 - 2029	(approx.20 years)	600
Exi on1	Malaysia / <ex-ship></ex-ship>	2011 - 2031	(approx.20 years)	max. 540
C H	Sakhalin II / <ex-ship></ex-ship>	2011 - 2026	(approx.15 years)	500
	Indonesia (re-extension) / <fob ex-ship=""></fob>	2011 - 2015	(approx.5 years)	950
	BP Singapore / <ex-ship>*1</ex-ship>	2012 - 2028	(approx.16 years)	*2
	Indonesia (re-extension) / <fob ex-ship=""></fob>	2016 - 2020	(approx.5 years)	630
acts	Gorgon / <fob ex-ship=""></fob>	2014 - 2038	(approx.25 years)	max. 1,440
Future Contracts	Donggi-Senoro / <ex-ship></ex-ship>	2014 - 2027	(approx. 13 years)	1,000
	BG Group / <ex-ship>*1</ex-ship>	2014 - 2035	(approx.21 years)	*3
	Ichtys / <fob></fob>	2017 - 2032	(approx.15 years)	490

*1 Contract to purchase LNG from multipul sources

*2 Max. of approx. 8 million ton in the contract term

*3 Max. of 122 cargos in the contract term (or max. of approx. 8.54 million ton if using ships with 70,000 ton cargo capacity)

- More stable, more economical and more flexible LNG procurement

Donggi-Senoro project	BG Group - Long-term LNG purchase scheme not limiting supply		
- Establish a marketing company to sell LNG procured from the Donggi-Senoro Project.	sources - Long-term purchase of LNG obtained from Coal bed methane (CBM)		

.......

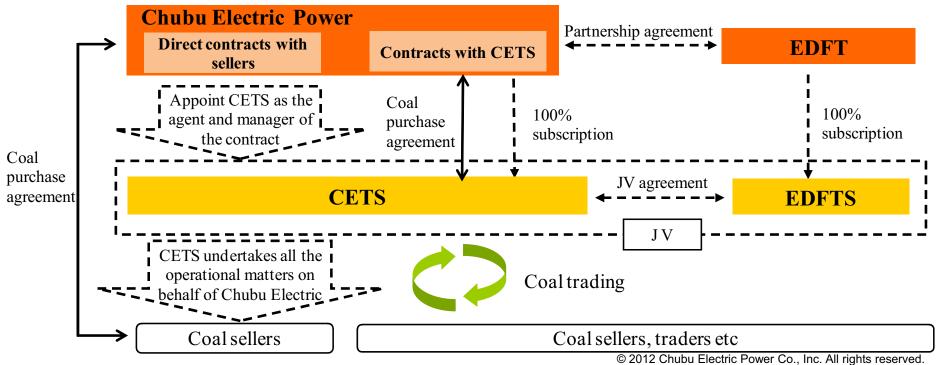
Advancement of Coal Trading

- 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 Eclectic's whole coal procurements in unitary.

-Chubu Electric intends to appoint 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 through the utilization of abundant trading information and talented human resources available in Singapore.



	Project	Outline of project and interest	Participation and its purposes
		- Major interest holders Shevron, Shell, Exxon Mobil, etc.	- Participation Interest holding ratio 0.417%
	Gorgon	- Project site Australia	 Purposes/effects Fuel procurement ability will increase Relationship with the seller will be strengthened
		- Project output capacity Approx. 15 million ton/year (planned)	
LNG		- Major interest holders	- Paricipation
		Mitsubishi Co., Japan Oil Cos and Matak National Comparation ata	Interest holding ratio 7.5% (Chubula stakes at chere of Mitsubishi's subusidiar.)
		Japan Oil, Gas and Metals National Corporation, etc.	(Chubu's stake at share of Mitsubishi's subusidiary)
	Cordova Embayment	- Project site	- Purposes/effects
	(Shale gas)	British Columbia, Canada	- Knowledge about shale gas development will be gained
			- Possibility of imports by liquefaction
		- Project output capacity	
		500 million feet ³ per day in 2014 (3.5 million ton/year in LNG)	
		- Major interest holders	- Participation
		Vale, Toyota Tsusho, Several iron companies	Interest holding ratio 5.95%
		- Project site	(construction and operation costs will be born and proceeds from coal sales will be reveived, in proportion
Coal	Integra	New South Wales, Australia	to the interest holding ratio)
Cuai	incegra	Tew bouil walls, rubland	- Purposes/effects
		- Project output capacity	- Fuel procurment ability will increase.
		Approx. 3.3 million ton/year, reserve: 70 - 80 million ton	- Relation ship with the seller will be strengthened.
			- New revenue source will be secured.
		- Major interest holders	- Participation
		Marubeni Co., Tokyo EPCO, Kazatomprom, etc.	Company's investment ratio to Japanese participants' group: 10%
uclear	Kharasan	- Project site	
fuel	1 XIAN UDUII	Kazakhstan	- Purposes/effects
		Drainat autout apparity	Fuels will be secured for long term and in stable manner.
		- Project output capacity Approx. 5,000 ton/year (planned)	
		reprose 5,000 ton jour (plantod)	© 0040 Obubu Electric Deven Oc. Jac. All

Overseas Business Deployment

- Outline of ov	verseas business	Investment amount (approximate)	Output based on Chubu's stake*
	At the end of FY 2011	Cumulative total 90 billion yen	Cumulative total 3,240 MW

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

- Projects in participation Hatching represent projects Chubu's participation or additional acquisition in FY 2011

	Region	Project	Output (MW)	Chubu's stake	Participation	Operation commences
	e	Investments in various existing IPPs, United States	50x5	5%	FY 2004	2004 through 2013 (acquisition and sale phase)
	America	Aquisition of Tenaska's interest in gas thermal IPP (5 sites), USA	4,780	approx.11%-18%	FY 2010	2001 - 2004
	h An	Gas thermal IPP, Goreway, Canada	875	50%	FY 2009	Jun. 2009
	North	Gas thermal IPP, Valladolid, Mexico	525	50%	FY 2003	Jun. 2006
ion		Aquisition of Falcon's interest in gas thermal IPP (5 sites), Mexico	2,233	20%	FY 2010	2001-2005
generation		Gas thermal IPP, Thailand	1,400	15%	FY 2001	Jun. 2008
Power ge	Asia	Cogeneration in industrial park (3 sites), Thailand	approx. 110×3	19%(2 sites) 24%(1 site)	FY2011	2014 (planned)
Po		Wind energy, Thailand	90×2	20%	FY2011	2013 (planned)
	st	Power generation & desalination, Ras Laffan B, Qatar	1,025	5%	FY 2004	Jun. 2008
	Middle East	Power generation, Mesaieed A, Qatar	2,007	10%	FY 2008	Jul. 2010
	liddl	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 (planned)
ental		Rice husk power generation, Thailand	20	34%	FY 2003	Dec. 2005
Environmenta	Asia	Palm oil biomass power generation, Malaysia (expected to acquire approx. 2 million ton of CO2 credits*)	10×2	18%	FY 2006	Jan. 2009 (site 1) Mar. 2009 (site 2)
Envi		Asia Environment Fund	-	26%	FY 2003	2004 - 2014 (fund operation phase)

* Amount of CO2 credits is corresponding to the first commitment period of the Kyoto Protocol.

Sales Strategy

-Proposals for household customers

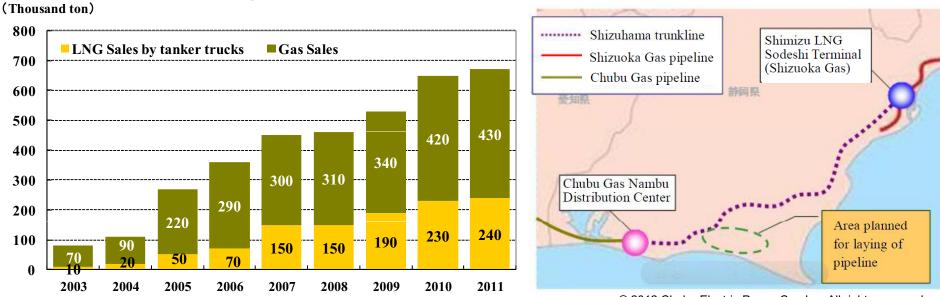
Proposals offering households the versatility available with electricity, including solar power, electric vehicles, etc., in addition to heat pump equipment such as the EcoCute, which offers a high level of energy savings

- Proposals for energy solutions to business customers

Sales volume of gas and LNG

- Proposal of energy solutions services exploiting the respective strengths of electricity and gas, for example provision of optimal combinations of energy sources, optimal operating methods, etc., in response to demand for diversification and realization of increased sophistication

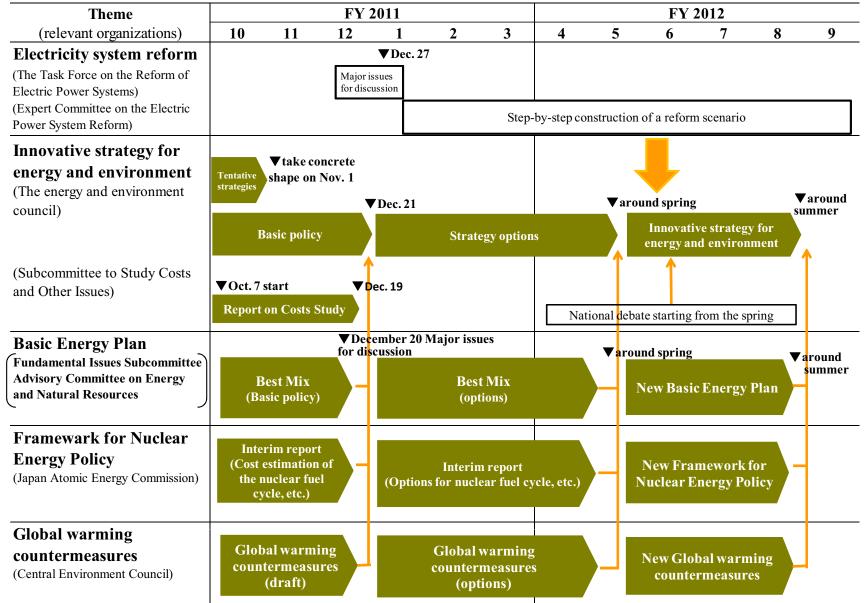
- As a group, provision of optimal energy services combining gas and LNG, onsite energy, etc., making use of pipelines laid jointly with regional gas companies and new LNG shipping facilities



Laying of Minami Enshu pipeline

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Electricity Business Environment <1>



Electricity Business Environment <2>

- Other External environments

		FY 2011			FY 2012											
		10 1	1 12	1	2	3	4	5	56	7	8	9	10	11	12	2
	-Fukushima Daiichi nuclear power station	STEP 2 medium-term action assignment Dec. 16 Cold Shutdown declaration														
Isuues relating TEPCO	accident control -Investigation of causes of the accident	▼ Dec. 26 Interim report Final report due of July 2012 (plate) S of Accident Investigation and Verification Committee Report made by the Committee for Examination of Management and Financial Status of TEPCO Final report due of July 2012 (plate) V Oct. 3 ▼ Comprehensive plan on spect (around Spring 2012)									ıly 201	2 (plai	n)			
	-Plan on special projects										-	al pro	jects			
Review of the electricity rates system and the operation thereof (METI)	Requirements under the current system (advisory conference)						'Mar.2	21 (Conclu	sion to	be rea	ched				
Reviewing seismic source model (Central Disaster Prevention Council)	- Organizing information on the Great East Japan Earthquake - Reviewing the model of	Sep. 2	8	▼ De	c.27 In	terim	repor	rt					rall pio			
	seismic source along Nankai Trough										ults of	Seism	ic Inte	ensity a	nd Ts	unami
Restructuring of nuclear regulatory organizations	Review of regulations and schemes (including laws)					h	eight (-	elimina After N	• •	ort) 12 Nev	v orga	nizatio	on setu	p (pla	n)
Comprehensive Assessment on the safety performance (Stress test)	- Primary assessment - Secondary assessment	-	ply to rea Report da						-		comple	ction of	period	lic insp	ection	

The Task Force on the Reform of Electric Power Systems

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■ Major issues for discussion on the reform of electric power systems (announced on December 27, 2011)

New demand restriction measures	<1> -promoting installation of smart meters and related interfaces, enhancing the supply-demand adjustment function through the market mechanism, introducing rates and services that closely respond to the supply-demand situations
Choice by customers	<2> -establishing a mechanism allowing choice by customers (liberalization) to the field of small electricity retailing
Diversified Supplies	<3> -reviewing regulations in the power generation field (wholesale regulations) and activating the wholesale electricity market <4> -further using distributed-type energy, reviewing the rules on network connection and power transmission <5>-establishing a mechanism to ensure an appropriate reserve capacity
Competition promotion and wider area market	<6> -abolishing barriers related to electricity supply beyond their service areas, activating competition in wholesale electricity exchanges <7> -effectively using the supply capacity in a wide area <8> -power transmission/distribution sector should be neutralized (unbundling of electricity network)
Compatibility of stability and efficiency	<9> - reconstructing a mechanism to settle public topics <10> - constructing a new system that realizes both stability and efficiency

Future timetable

Discussions were held by the Expert Committee on the Electric Power System Reform, a group newly established under the Coordination Subcommittee of the Advisory Committee on Energy and Natural Resources. The discussions resulted in a draft plan for the direction toward a reform of electric power systems around May to June 2012. What is mentioned in the draft plan will likely be reflected in a new energy strategy planned for formulation by the Energy and Environment Council in summer of this year.

The Act to Establish a Nuclear Damage Compensation Facilitation Corporation

- Overview of the Act to Establish a Nuclear Damage Compensation Facilitation Corporation

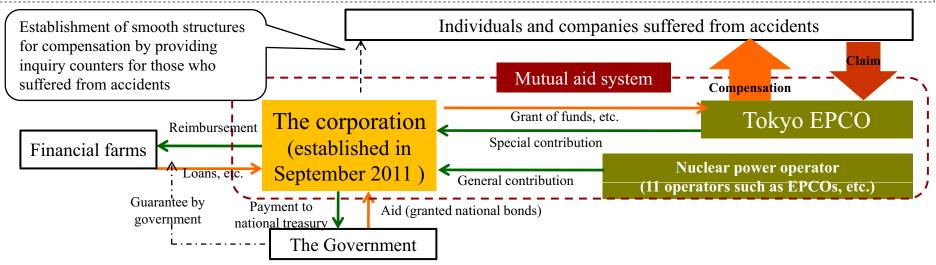
- Given the possibility of large damage compensation requirements, nuclear power operators will establish the following system to pay such compensation,

(1) to mutually contribute funding in preparation for payments in the spirit of "mutual aid", and

(2) to offer the national government's support for payment of compensation, if necessary.

 \rightarrow Nuclear Damage Compensation Facilitation Corporation is established on September 12.

- The organization will financially assist by offering loans etc., regarding accident control costs and capital investments for stable provision of electricity.



- FY2011 Amounts of general contribution				Amounts of contribution for each company								(million yen)	
	Hokkaido	Tohoku	Tokyo	Chubu	Hokuriku	Kansai	Chugoku	Shikoku	Kyushu	The Japan Atomic Power	Japan Nuclear Fuel	Total	
Amounts of contribution	3,260	5,355	28,370	6,210	3,032	15,762	2,095	3,260	8,460	4,262	1,434	81,500	

• Contribution for each fiscal year must be paid within three months from the end of that fiscal year. However, payment of the amount worth one half of the contribution may be made within three months starting from the day on which six months have passed from the day following the end of that fiscal year.

 \cdot The amount of contribution for each fiscal year is included in deductible expenses of that fiscal year.

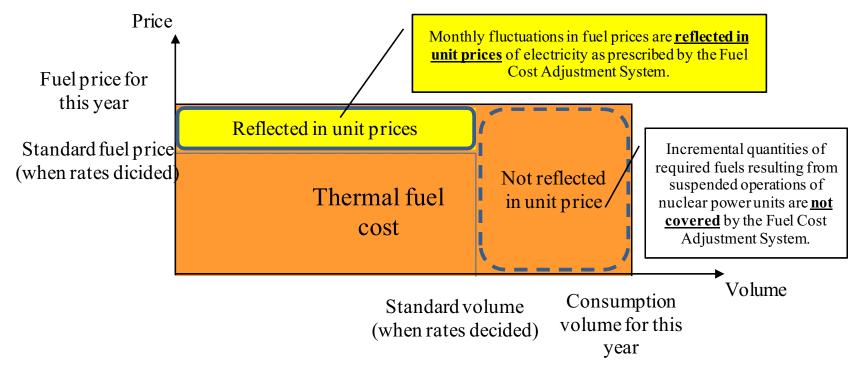
Outline of advisory conference concerning review of electricity 53 rates system and its operation

- Outline of the report (announced on March 21, 2012)

Promotion of competition	 -Introduce a competitive bidding system for infrastructure projects: new construction, capacity expansion, and maintenance of thermal plants. -Encourage electric power companies to purchase electricity from Japan Electric Power Exchange. -Request electric power companies to disclose the basis for calculating power grid charges.
Strengthening the check function	 The central government uses external experts when approving electricity rates. The central government may order electric power companies to decrease electricity rates. Disclose the breakdown of electricity rates for home and corporate users.
Flexibly deciding electricity rates	 Extend the cost calculation period from 1 to 3 years. Simplify approval process for increasing electricity rates due to changes in components of power sources caused by long-term suspension of nuclear power plant operation, etc. Examine the scheme to decrease electricity rates when a nuclear power plant restarts operation after increasing charges.
Reducing costs	 Set the limit of salaries and employee benefits that can be included in costs. In principle, advertising expenses, donations and industry organization membership fees are not allowed to be included in costs. Request electric power companies to reduce fuel costs by joint procurement.

Fuel cost adjustment system and thermal fuel cost

<Diagram of impacts 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	Februrary	March	April	May	June	July	August	September
Ave	erage Fuel P	rice	<u> </u>	to electricit	- -	0		
	Ave	erage Fuel P	rice	<u> </u>	to electricit		C	
		Ave	erage Fuel Pr	rice	Application	to electricity	fee	

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Smart Meter

-Progress of argument regarding the introduction of smart meters

"Basic Energy Plan" decided at the cabinet meeting (June 18, 2010)

- Aim to introduce smart meters to basically all <u>users by the 2020s or as early as possible</u>, fully taking cost performance and other factors into consideration.



- Major Activities by the Company

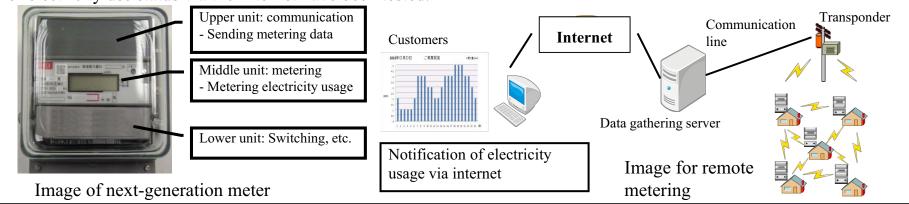
"Tentative plan for the energy supply-demand balance (draft)" (finalized by the Energy and Environment Council on July 29, 2011)

- The previous plan to introduce smart meters basically to all users by the end of the 2020s will be replaced with a more aggressive plan that aims to increase the ratio of smart meter users to 80%of total demand base within the next five years.

- Onsite experiments have been conducted to collect necessary knowledge and to examine feasibility.

<Onsite experiments in Kasugai City for remote meter reading with a new type of electricity meter (FY2011) >

About 1,500 units of the new-type electricity meter have been installed. Remote meter reading and visualization effects of electricity use status via the Internet have been tested.



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Retirement Benefit Cost (Non-consolidated)

Actuarial Differences

(billion yen)

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	Description of the		Amount of an	nortization		Cha	nge
Recorded year	Recorded amounts (ム:Excess amounts reserved)	FY2010(A)	To be recorded as extraordinary loss*	FY2011(B)	FY2012(C)	(B)-(A)	(C) - (B)
FY2007	63.8	21.3		_		Δ21. 3	_
FY2008	52.3	17.4	2.5	14. 8	-	Δ2. 5	Δ14. 8
FY2009	Δ29. 3	Δ9. 7	Δ2. 4	Δ8. 5	Δ8. 5	1.3	—
FY2010	12. 0	—	1.8	3.4	3.4	3.4	—
FY2011	Δ3. 4	_	_	_	Δ1. 1	—	Δ1. 1
	Total	28.9	1. 9	9.8	Δ6. 2	Δ19. 1	Δ16. 0

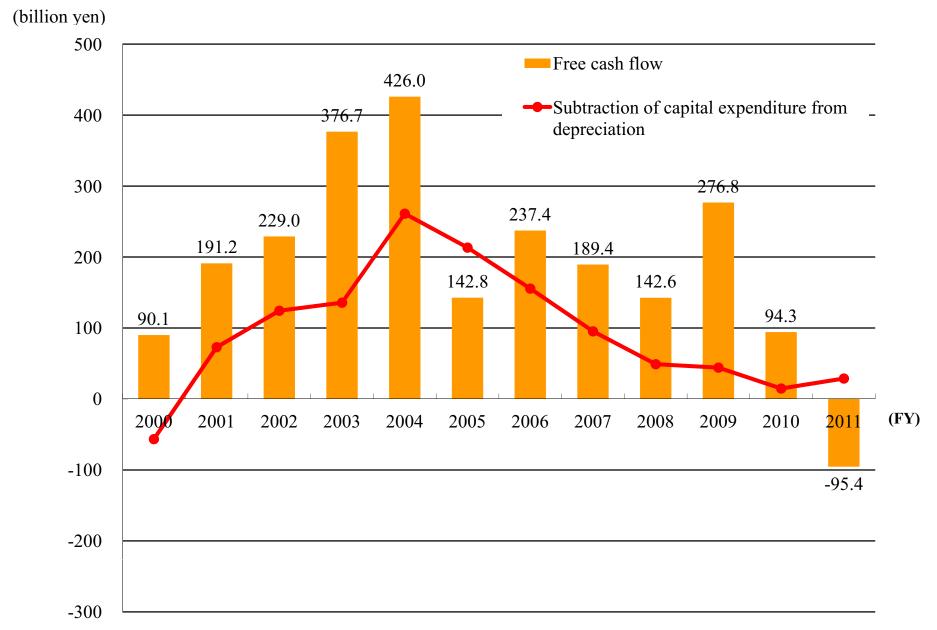
* Extraordinary loss incurred due to revision of the retirement benefit system. Recording amounts that respond to abolishment of a life annuity and shifting to defined contribution out of actuarial difference at the point of revision as an extraordinary loss.

Effects of the reforms to financial statements

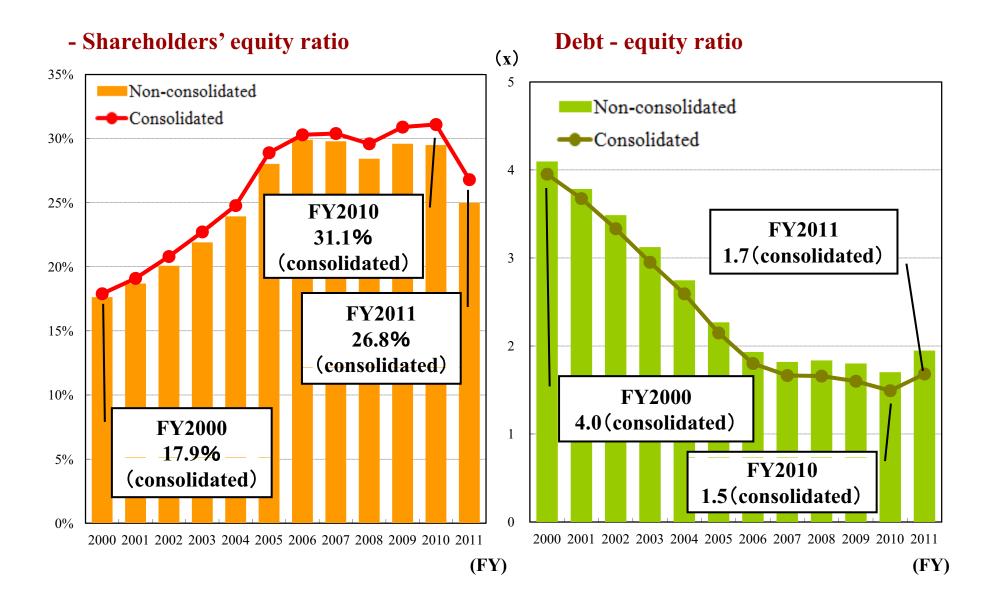
				(billion yen)
	Reform effect	FY2011	FY2012	FY2013
Change in calculation to 'point accumulation' (decrease in operating expenses)	+31.9	+10.6	+10.6	+10.6
Introduction of difined contribution plans (extraordinally loss)	Δ17. 2	Δ17. 2	_	_
Total	+14.7	Δ6. 6	+10.6	+10.6

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Free Cash Flow (Non-consolidated)



Shareholders' Equity Ratio, Debt - Equity Ratio



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