Investors Meeting 1st Quarter, FY 2011

August, 2011



Note: The Company's fiscal year (FY) is from April 1 to March 31of the following year. FY2011 represents the fiscal year began in April 1, 2011, and ends in March 31, 2012. 1st Quarter (1Q) represents three months ended June 30, 2011.

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I Measures to be taken by the Company after Suspension of Operation at Hamaoka Nuclear Power Station

Safety Measures at Hamaoka Nuclear Power Station 1

- 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 2°

- 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) : The power station premises	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)

- Outline of "Inundation Prevention(1)" (power station premises)

- 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. Reactor housing



* 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. © 2011 Chubu Electric Power Co., Inc. All rights reserved.

Inundation Prevention (2)

- Outline of "Inundation Prevention (2)" (Inundation of housing)
- If tsunami overtops the breakwater and the premises are inundated;
- The seawater intake pumps outside of housing may be submerged and stopped, and the nuclear facility cooling system using seawater may cease functioning (loss of seawater cooling function).
 In addition, serious inundation of housings is a threat.
- → Thus, following measures should be taken; (1) maintain the seawater cooling system, (2) prevent inundation of housings and (3) prevent inundation of equipment rooms.



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.



Timeframe and Cost for the Measures

- Target for completion of the measures against tsunami which have been announced in July 22nd, 2011 is set for December, 2012.

Principal measures against Tsunami		FY 2011							FY 2012													
		J	Α	S	0	Ν	D	J	F	M	A	Μ	J	J	A	S	0	Ν	D	J	F	M
Inundation Prevention	Construction of breakwater																					
(1)	Construction of floodbank																					
	in the seawater intake pump area																					
Inundation Prevention (2)	Installation of EWS																					
	Reinforcement of waterproof doors of the exterior walls																					
I Reinforcing A Emergency — Measures	Installation of emergency AC generators on the hill																					
	Diversifying water source (additional water tanks, etc.)																					

< Construction / installation period and costs>

	Measures against tsunami at Hamaoka (annouced in July 22, 2011)	(Ref.) Mid long term measures (reported to NISA in April 20, 2011)
Construction/installation period	Completion by Dec. 2012 (target)	Completion in 2 - 3 years
Costs	Approx. 100.0 billion yen	Approx. 30.0 billion yen

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Supply- and Demand-side Measures for Summer 2011 (August)

- Supply- and demand-side measures for August

Measure	+ 1.160 MW	Stop the supplementation to the 50 Hz (East Japan) region(750 MW)
1		+ Postponing the long-term planned shutdown at Taketoyo Unit No.3 (375MW), etc.
Measure 2	+ 470 MW	Resuming operation of thermal power units under long-term planned shutdown (Taketoyo Unit No.2, 350 MW) + Changing and Shortening periodic inspection times for thermal power equipment (120 MW)
Measure 3	+ 430 MW	Decrease in electricity purchase from other EPCOs (-320 MW) + Changing periodic inspection times for thermal power equipment (560 MW) +Expanding supply and demand adjustment contracts (90 MW) + Asking private power plants to increase output(60 MW) + Resuming operations at gas turbines of Chita Daini Unit No.2 (120 MW), etc.

4,520 MW



* Figures in parentheses represent reserve margin.

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- Additional Fuel Procurement in FY 2011

	LNG	Oil			
Additional procurement amount	approx. 3.2 million ton	approx. 1.3 million kl			
Procurement methods, etc.	spot procurement (about 70 % procured from Qatar)	Flexibility of existing contracts in upward adjustment (procurement through oil companies and trading companies)			
Procurement forecast	sufficient procurement expected	sufficient procurement expected			
(Reference) Supply plan (announced in March 2011) Annual amount to be received	8.42 million ton	0.73 million kl			

- Further procurement will be made vigorously even if fuel requirement would increase by surge of electricity demand in the future.

- Utmost care will be taken in handling of fuels, as operation is been increased at handling facilities such as receiving docks and LNG tanks by increase in fuel procurement.

Requests to METI (Submitted on July 4th, 2011)

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

2. Support for securing electric power supply and demand balance

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

3. Support for bearing additional costs

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

- Subsidies for interest on loans from financial institutions

- 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

- Special measures concerning a general contribution during the period of suspended operations at Hamaoka Nuclear Power Station as based on the bill for the Act to Establish a Nuclear Damage Compensation Facilitation Corporation

- Reduction of/exemption from oil and coal taxes during the period of suspended operations at Hamaoka Nuclear Power Station

4. Consideration regarding CO₂ emissions

- Special measures related to methods of calculating CO₂ credit procurement and CO₂ emissions coefficient

- Retaining our right to participate in government agency bids based on the Green Contract Law

The government has already responded to items with ^{*}.

Efforts to Improve Managerial Efficiency

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- Efforts to improve managerial efficiency

- The "Managerial Efficiency Promotion Council" was established in May 2011 to discuss

management efficiency and cost reduction measures for improving incomes and expenditures.

- Thorough reduction of investments and expenditures will be pursued in 2011 as described below.

- Improvement of managerial efficiency in FY 2011

After achieving stable procurement of electricity and public security, the construction periods, ranges and methods will be reviewed to reduce capital investments and maintenance costs.
Fuel costs will be reduced by economical fuel procurement; at the same time, costs will be reduced by reviewing the content and scale of public relations and sales activities, as well as of research and development, including system development.

Agenda	Amount (approx.)
Reduction of investment	65.0 billion yen
Reduction of expenses (maintenance, fuel and others)	35.0 billion yen
Improvement of managerial efficiency	100.0 billion yen

Above amounts are current estimations. More consideration will be continued along with group companies to achieve further cost reduction.

Outlook for Fund Raising for FY2011

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- Progress in fund raising, and increase of the limit of long-term loan in FY 2011



I Outline of Financial Results for Three Months Ended June 30, 2011

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[Consolidated]		Revenue increased and income decreased (The First time in three years after 10 FY2008)						
		(Billion ven.9						
		1Q FY2011	1Q FY 2010	Cha	nge			
		(A)	(B)	(A-B)	(A-B)/B			
Operating revenue		539.3	526.3	12.9	2.5			
Operating income		22.2	59.8	-37.5	-62.8			
Ordinary income		20.0	51.2	-31.2	-60.9			
Net income		1.5	25.6	-24.0	-94.0			
			Ro	unded down to near	est 100 million yen.			
[Non-Consolidated]		Revenue increas	ed and income de	ecreased				
		(The First time i	n three years afte	er 1Q FY2008)				
		× ×	5		(Billion yen,%)			
		1Q FY2011	1Q FY 2010	Cha	nge			
		(A)	(B)	(A-B)	(A-B)/B			
Operating revenue		507.4	499.0	8.3	1.7			
Operating income		19.0	57.9	-38.9	-67.2			
Ordinary income		19.2	48.7	-29.5	-60.6			
Net income		1.2	23.9	-22.6	-94.7			
			Ro	unded down to near	est 100 million yen.			
[Principal Figures]								
Itom		1Q FY2011	1Q FY 2010	Change				
		(A)	(B)	(A-B)				
Electricity sales	(TWh)	29.4	30.3	-0.9				
CIF price: crude oil	(\$/b)	115.0*	81.3	33.7				
FX rate (interbank)	(yen/\$)	82	92	-10				
Nuclear power utilization rate	(%)	33.1	64.2	-31.1				

* CIF crude oil price for 1Q FY2011 is tentative.



[Consolidated]

					(Billion yen)
	FY2011 Forecast Current	FY2011 Forecast Previous (in Apr.)	FY2010 Result	Change (from previous forecast)	Change (from FY 2010 Result)
	(A)	(B)	(C)	(A)-(B)	(A)-(C)
Operating revenue	2,440.0	2,530.0	2,330.8	approx 90.0	approx. 109.0
Operating income (loss)	-170.0	130.0	174.2	approx 300.0	approx 344.0
Ordinary income (loss)	-195.0	105.0	146.2	approx 300.0	approx 341.0
Net income (loss)	-140.0	55.0	84.5	approx 195.0	approx 225.0

[Non-Consolidated]

Rounded down to nearest 100 million yen

	FY2011 Forecast Current	FY2011 Forecast Previous (in Apr.)	FY2010 Result	Change (from previous forecast)	Change (from FY 2010 Result)
	(A)	(B)	(C)	(A)-(B)	(A)-(C)
Operating revenue	2,280.0	2,370.0	2,178.2	approx 90.0	approx. 102.0
Operating income (loss)	-185.0	115.0	157.8	approx 300.0	approx 343.0
Ordinary income (loss)	-210.0	90.0	131.0	approx 300.0	approx 341.0
Net income (loss)	-150.0	45.0	75.8	approx 195.0	approx 226.0

Rounded down to nearest 100 million yen

(Billion ven)

Non-consolidated Forecast of Income for FY 2011 (1) 14

(D:11:

			(Billion yen)
	FY 2011 Forecast Current	FY 2011 Forecast Previous (in Apr.)	Change
	(11)	(D)	(\mathbf{R}) (D)
Operating revenue	2,280.0	2,370.0	approx 90.0
Operating expenses	2,465.0	2,255.0	approx. 210.0
Operating income (loss)	-185.0	115.0	approx 300.0
Ordinary income (loss)	-210.0	90.0	approx 300.0
Net income (loss)	-150.0	45.0	approx 195.0

Rounded down to nearest 100 million yen.

[Principal Figures on Assumption]

Principal factors affecting operation	ing income]
	(Billion yen)
Effects on revenues and expenses from suspension of all plants in Hamaoka Nuclear Power Station	- 300.0
(Increase in fuel expenses)	(- 285.0)
(Expenses for restarting thermal power plants under long-term shutdown)	(- 15.0)
Cost reduction by streamlined management	+ 35.0
Decrease in electricity sales revenue	- 35.0
Effects on operating income (loss)	- 300.0

(Billion yen)

Item		FY 2011 Forecast Current (A)	FY 2011 Forecast Previous (in Apr.) (B)	Change (A-B)	Income S	ensitivity	
Electricity sales	(TWh)	approx. 127.1	approx. 127.5	approx 0.4	1%	4.0	_
CIF price: crude oil	(\$/b)	approx. 110	approx. 110	-	1\$/b	8.0	*1,2
FX rate (interbank)	(yen/\$)	approx. 85	approx. 85	-	1yen/\$	11.7	*1
Nuclear power utilization rate	(%)	approx. 8	approx. 84	approx 76	1%	-	
Flow rate	(%)	approx. 102	approx. 100	approx. 2	1%	1.0	_

*1 These figures represent income sensitivity for fuel expenses. 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 of Income for FY 2011 (2) 15

			(Billion yen)
	FY 2011 Forecast Current	FY 2010 Result	Change
	(A)	(B)	(A)-(B)
Operating revenue	2,280.0	2,178.2	approx. 102.0
Operating expenses	2,465.0	2,020.4	approx. 445.0
Operating income (loss)	-185.0	157.8	approx 343.0
Ordinary income (loss)	-210.0	131.0	approx 341.0
Net income (loss)	-150.0	75.8	approx 226.0

[Principal factors affecting operating income]

	(Billion yen)
Decrease in electricity sales (with subtraction of fuel cost)	- 32.0
Increase in unit sales price	+ 149.0
Rise in fuel price	- 234.0
Decrease in nuclear power output	t - 167.0
Increase in expenditure for purchased power etc.	- 59.0
Effects on operating income (loss)	- 343.0

Rounded down to nearest 100 million yen.

[Principal Figures on Assumption]

Item		FY 2011 Forecast Current (A)	FY 2010 Result (B)	Change (A-B)
Electricity sales	(TWh)	approx. 127.1	130.9	approx 3.8
CIF price: crude oil	(\$/b)	approx.110	84.2	approx.26
FX rate (interbank)	(yen/\$)	approx.85	86	approx 1
Nuclear power utilization rate	(%)	approx.8	49.7	approx 42
Flow rate	(%)	approx.102	107.6	approx 6

Policy on the Shareholders' Return

Announced in May 10, 2011

The company will work to maintain current level of

dividend (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.

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Disaster Control Measures Taken at Hamaoka Nuclear Power Station 17

- Actions previously taken

Aseismic resistance improvement works

- Aseismic resistance of approx. 1,000 gals (shaking two to three times that of expected Tokai Earthquake) was confirmed.

- Improvement works for Reactors Nos. 3, 4 and 5 completed in March 2008.

Actions taken after the Niigata Chuetsu-Oki Earthquake



- It was confirmed that water in the spent fuel pool would not leak into uncontrolled areas due to an earthquake.

- Additional fire control water tanks and portable fire pumps were installed; access roads for fire-fighting were reinforced; and an emergency control center with a quake-absorbing structure were constructed, etc.

Actions taken after the Suruga Bay Earthquake

- Analyses were conducted to identify reasons why the shaking of Reactor No. 5 was greater than that of other reactors*.

- Considering the impact of the Suruga Bay Earthquake, it was confirmed that important facilities are aseismically well designed and would function properly.

Reactors	No. 3	No. 4	No. 5	Re
Detected tremor *1	147 gol	162 gol	126 gal	
(horizontal)	14 / gai	105 gai	420 gai	Lo
Pre-set trigger				Lay
for automated halt	120 gal ^{*2}			
(horizontal, on 2nd basement level)				

*1 acceleration detected on second basement level by seismometers to be monitored by operators in central control room *2 Gal: a unit of acceleration in cm/s^2 : 1 Gal = 1 cm/s²



*Causes of the tremor unique to the Reactor No.5

- Low-Velocity Layers (LVL) are found beneath the Reactor No.5, that would transmit a seismic wave slower than surrounding bedrock.

- The causes of the tremor; the seismic wave could be amplified as it concentrate at a certain location, after been reflected by passing LVL.

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Layout of Breakwater, etc.

 \rightarrow Prevention of tsunami inflow from the front and sides of the premises, as well as from waves coming around to the back - To avoid tsunami concentration, the dune dike will be raised to T.P. +12 m or higher.



Structure of Breakwater

- Height of top edge: T.P. 18 m

The height of the breakwater will be T.P. +18m (previously announced as "T.P. +12m or more"), by consideration on sand dune in front of Hamaoka Nuclear Power Station (T.P. +10 - 15m) and upstream of tsunami at Fukushima Daiichi Nuclear Power Station (approx. T.P. +15m).

- Base structure: Underground wall (made of reinforced concrete; embedded in rock)
- Wall structure: L-shaped revetment (complex of steel, iron frames and reinforced concrete)



Image of the breakwater

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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. It is assumed that 400 tons of seawater flowed into the main condenser and 5 tons of sea water into the reactor.

 $\mathbf{20}$

Cause and measures

Cause	Measures								
• It is assumed that a portion of the tubes was damaged	•To prevent falling of end caps, facility s	int falling of end caps, facility structures and welding							
by jet flow due to the end cap falling from a recirculation	method were reviewed.								
pipe connected to the main condenser.	• Preventive measures will be taken for other	her portions co	onnected						
	with the main condenser that could cause	similar incider	<u>ıt.</u>						
[System overview, Reactor No.5]	[System overview, main condensers] Main steam (from low pressure turbines)	[Side view, ins	side of main condenser]						
pressure vessel	ea rater Circulating water pump Agenda	1 r 1H FY 2011	Damaged approx. 70cm 2H FY 2011						
Future measures	Investigations of acuse of domaged	Checkups of the Mai	n Condenser (A) and similar sections						
- Currently seawater is being removed.	tubes in condenser	Investigations of Prevention	of cause						
- Seawater's affects on equipment etc. will be		Brester							
checked later.	Seawater removal	Reactor	Turbines						
- All procedures, including equipment checkup	Equipment checkups and soundness		Completion by the end of Dec. 2012						
and soundness assessment, will be completed by	assessment (1) Equipment checkups and assessment		Completion by the end of Dec. 2012						
the end of December, 2012.	(2) Fuel checkups and assessment © 2011 Chubu E	lectric Power Co.,	Inc. All rights reserved.						

Situation of Nuclear Power Generation Business

- External environments relating to nuclear power generation business

		FY 2011						FY 2012													
		J A	S	0	Ν	D	J	F	Μ	1	A M	J	J	A	S	6 0) N	D	J	F	Μ
Fukushima Daiichi Nuclear	- Accident control	Cold shutdown by January, 2012 (target)																			
Power Station	- Investigation of cause															Fir in s	nal rej summ	port d er 20	lue 12		
Reviewing seismic source model (Central Disaster Control Conference)	- Organizing information on the Great East Japan Earthquake - Reviewing the model of seismic source along Nankai				Αι	ıtum	n 20	011				Sn	ring	2012	2						
	Trough											Sh	mg	5 2012							
Reviewing guidelines concerning nuclear power (Nuclear Safety	- Reviewing the current issues - Drastic review									E	nd of	FY 2	011					In	2 - 3	yea	rs
Commission, etc.)	Drustic review																				
The bill for the Act to Establish a Nuclear Damage Compensation Facilitation Corporation	- Consideration at the Diet																				
Stress test	- Primary test	• Will a	pply	to re	actors	tha	t bee	com	e rea	ıdy	for st	art uj	o aft	ter co	mpl	letior	1 of pe	riodic	c insj	pecti	on
	- Secondary test				-	Rep	ort	s fro	om o	ope	rator	s will	be	due a	t th	e en	d of F	Y 201	11		

Development of LNG Thermal Power Plants with Enhanced Efficiency

(%)



15 19 (FY)

*TE: Thermal efficiency © 2011 Chubu Electric Power Co., Inc. All rights reserved.

Reinforcement Plan for LNG Handling Facilities

- Supporting stable yet flexible LNG procurement



Actions at Thermal Plants against Earthquakes <1> 24

- Actions for a scenario of triple interrelated earthquakes (Tokai, Tonankai and Nankai Earthquakes) Based on the assumed seismic waves and tsunami heights of the triple interrelated earthquakes published by the Central Disaster Prevention Council of the Cabinet Office, we have been taking actions to secure public safety of our thermal plants and to improve their aseismic resistance to ensure quick recovery of power supply.

- Assumed seismic waves and tsunami heights of the triple interrelated earthquakes published by the Central Disaster Prevention Council



- Location of Chubu's Thermal Power Plants



Based on results of the examination of the heights of the thermal electric power generating plant sites, it was confirmed that they are safe from tsunami that may be caused by the triple interrelated earthquakes.



No.	Site name	Approved output capacity (MW)
1	Hekinan	4,100
2	(Joetsu - under construction)	<2,380>
3	Shin-Nagoya	3,058
4	Kawagoe	4,802
5	Chita Daini	1,708
6	Chita	3,966
7	Yokkaichi	1,245
0	Nishi-Nagoya	1,190
0	(Refreshment plan)	<2,200>
9	Taketoyo	1,125
10	Atsumi	1,900
11	Owase Mita	875

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Actions at Thermal Plants against Earthquakes <2> 25

- Measures been taken at thermal plants

Safety measures

Measures to ensure safety will be promoted at all thermal plants.

Improvement of aseismic resistance

Priority will be placed on measures to secure quick recovery of power supply after an earthquake strikes and to improve the aseismic resistance of LNG bases.

Reinforcement of prompt recovery system

Secure availability of personnel, materials, equipment and back-up supplies and parts after occurrence of disaster.



Power plants for quick recovery, and LNG base (Photo from left: Hekinan thermal, Kawagoe thermal, an LNG base)

- 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.

- To be completed by the end of fiscal 2011.

Distribution facilities

Existing major installations within substations (ultra high voltage, primary and secondary substations) will be moved to higher locations, water-resistant walls will be installed; portable substation facilities will also be added to improve the aseismic resistance of substations.
To be completed by the end of fiscal 2015

Communication facilities

- Backup lines via wireless communications between specific sites will be implemented or reinforced.

Strengthen Mutual Support among Power Companies

- Higashi Shimizu FC: efforts to accelerate commencement of 300MW operations

- Revised schedule for 300 MW operation after the Great East Japan Earthquake



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Promotion of Renewable Energy

- Details for promotion of renewable energy

Detailed plans			Output (MW)	CO ₂ reduction* (t-CO ₂ / year)	Operation commences
	Mega Solar Iida		1	400	FY 2010
lar	Mega Solar Taketoyo		7.5	3,400	FY 2011 (Plan)
So	Mega Solar Shimizu		8	4,000	FY 2014 (Plan)
	Total for sola	r power generation	16.5	7,800	_
	Claubu Electric	Omaezaki (Phase 1)	6		FY 2009
	Chubu Electric	Omaezaki(Phase 2)	16	29,000	FY 2010
	Subtotal develo	ped by Chubu Electric	22		_
q		Wind Park Misato	16		FY2005
Vin	Group companies		20		FY2009
2		wind Park Kasadori	18	150,000	FY2010
		AOYAMA-KOGEN	15		FY2002
		WIND FARM	80		FY2016(Plan)
	Total for wine	171	179,000	_	
		Susado	0.24	600	FY 2010
	New development	Tokuyama	153.4	150,000	FY 2014(Plan)
dro		Generation with	0.26	_	FY 2014(Plan)
Hy		minimum water level	0.22	_	FY 2016(Plan)
	Improvement	Wagoh	0.1*2	200	FY 2012(Plan)
	Total for hydr	ro power generation	154.22	150,800	
nass	Mixture of wooden chip		_	200,000~300,000	FY 2010
Bion	Mixture of fuel from carboniz		4,000	FY 2012(Plan)	
	Grand toal			Approx. 500.000-600.000	_

*1 Approximate estimations made at announcement of plans

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

Reduction of CO₂ Emissions

-Corporate target on CO₂ reduction (setting in 1996) Reduction of CO_2 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)

- Concrete initiatives

Safe and stable operation of nuclear power plants

Active introduction of renewable energy

Enhancement of thermal efficiency in thermal generations

Reduction of transmission and distribution loss rate

Research & development

Consultation on energy saving

Procurement of CO₂ credits through the use of Kyoto mechanisms

- Principal measures for CO₂ reduction and its effect

Measures	Effect on CO ₂ reduction*
Shin-Nagoya Group No.8	approx. 1 mil. ton-CO ₂ /yr.
Nishi-Nagoya Group No.7	approx. 1 mil. ton-CO ₂ /yr.
Joetsu Group Nos. 1 and 2	approx. 1.6 mil. ton-CO ₂ /yr.
Wooden biomass mixture at Hekinan	approx. 0.2 mil 0.3 mil. ton-CO ₂ /yr.
Mega Solars Taketoyo, Iida, & Shimizu	approx. 7,800 ton-CO ₂ /yr.
Omaezaki Wind Power Station	approx. 29,000 ton-CO ₂ /yr.
	. 0 1

* Approximate estimations made at announcement of plans

- CO₂ emission intensity



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Industrial Large-lot Demand

(Year-on-year change)

		1H				2011			2H	Total				(%)
		FY 2010	Oct	Nov	Dec	Jan	Feb	Mar	FY 2010	FY 2010	Apr	May	Jun	Composition*
	Steel	39.4	25.1	14.3	15.7	17.6	10.8	3.6	14.1	25.5	-3.2	-0.9	4.6	12.1
liers	Chemicals	4.2	7.3	6.8	-1.2	-0.2	0.7	2.5	2.7	3.4	2.2	12.1	12.7	5.4
Supp	Glass & Ceramics	18.9	22.7	23.0	20.0	32.4	27.8	22.6	24.6	21.9	12.2	8.8	11.1	5.1
erial	Pulp & Paper	9.1	-3.2	0.3	2.0	1.9	3.9	5.2	1.6	5.3	5.9	2.8	1.0	3.2
Mat	Nonferrous Metal	23.6	18.6	12.5	12.5	13.2	14.7	12.4	14.0	18.5	15.2	0.0	-1.6	3.0
	Subtotal	22.5	16.8	12.4	11.0	13.9	11.2	7.6	12.1	17.0	3.3	3.4	6.1	28.8
	Machinery	14.8	5.2	4.9	4.0	2.8	2.2	-9.9	1.4	7.9	-12.3	-11.1	-3.8	39.7
ures	Foods	3.6	3.7	4.6	4.5	5.5	6.9	6.0	5.2	4.3	4.2	6.6	3.6	5.2
ufact	Textile & Apparel	18.4	15.7	13.1	11.4	5.7	2.4	5.7	9.0	13.5	-2.3	3.2	-0.8	2.1
Man	Others	10.9	3.4	4.0	1.9	1.0	1.2	-2.9	1.4	6.1	-5.2	-2.9	-2.0	12.6
	Subtotal	13.0	5.1	5.0	3.8	2.7	2.4	-6.6	2.0	7.4	-9.0	-7.3	-2.7	59.6
S	Railway	-1.3	-0.5	-1.2	-1.7	0.1	-1.0	-1.1	-0.9	-1.1	-0.5	0.2	0.3	5.3
tilitie	Others	1.9	-2.1	-1.9	-2.7	-0.2	-1.3	-2.6	-1.8	0.1	-0.4	-0.2	-1.5	6.3
	Subtotal	0.4	-1.4	-1.6	-2.3	-0.0	-1.2	-1.9	-1.4	-0.5	-0.4	-0.0	-0.7	11.6
	Total	13.8	7.4	6.3	5.0	5.4	4.4	-2.1	4.3	9.0	-4.4	-3.2	0.0	100.0

Note: Figures in "Composition" represent that of FY 2010.

Supply- and Demand-side Measures for Summer 2011

- Supply-side Measures

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	r Change in period for periodic inspection of Yokkaichi Thermal Power Station Unit No. 3 (220MW)		Up to	
thermal power equipment	Shortening of periodic inspection process for Kawagoe Thermal Power Station Unit No.2 (700MW)	May. 23 Jun. 28	1,260 MW	
	Change in period for periodic inspection and shorening 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	529 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		

- Demand-side Measures

Asking private power plants to increase output	Requests to our customers (large factories, etc.) to increase generation using private generators between 13:00 and 16:00 from Monday to Wednesday are expected to dcrease the power supplied by Chubu Electric by approx. 60 MW.	Jun. 28
Expanding supply and demand adjustment contrancts (planned adjustment contracts)	Requests to our customers (large factories, etc.) for measures including increasing the number of days for adjustment on planned adjustment contracts (contracts that change factory holidays from weekends to weekdays) have enabled us to ensure an additional adjustment capacity of approx. 90 MW.	Jun. 28

Other Measures on Demand-side

- Visiting customers and using our web site, etc. to ask for energy conservation

- Thorough implementation of energy-saving measures at all Chubu Electric Power and Group company workplaces

Fuel Procurement (FY 2010)



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LNG Contracts

(1.000t/vear)

			(1,0000)		
Suppliers / <delivery></delivery>	Period	lofcontracts	Volume		
Qatar/ <ex-ship></ex-ship>	1997 - 2021	(approx.25 years)	4,000		
Australia (extension)/ <ex-ship></ex-ship>	2009 - 2016	(approx.7 years)	approx.500		
Australia (expansion)/ <ex-ship></ex-ship>	2009 - 2029	(approx.20 years)	approx.600		
Malaysia/ <ex-ship></ex-ship>	2011 - 2031	(approx.20 years)	max.540		
Sakhalin II/ <ex-ship></ex-ship>	2011 - 2026	(approx.15 years)	approx.500		
Indonesia (re-extension)	2011 - 2015	(approx.5 years)	approx.950		
<fob ex-ship=""></fob>	2016 - 2020	(approx.5 years)	approx.630		
Gorgon/ <fob ex-ship=""></fob>	2014 - 2038	(approx.25 years)	approx.1,440		
Donggi-Senoro/ <ex-ship></ex-ship>	2014 - 2027	(approx. 13 years)	approx.1,000		
BG Group/ <ex-ship>^{*1}</ex-ship>	2014 - 2035	(approx.21 years)	*2		
Total [excludes Indonesia (re-extension) 2016-2020 & BG Group] max.9,530					

*1 Contract to purchase LNG from multipul sources through BG Group

*2 Max. of 122 cargos in the contract term (or max. of 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			
- Establish a marketing company to sell LNG procured from the Donggi-Senoro Project.	 Long-term LNG purchase scheme not minting supply sources Long-term purchase of LNG obtained from Coal bed methane (CBM) 			

Further improvement will be pursued in stability, economy and flexibility of LNG procurement.

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.
- Expectation on enhanced bargaining power by handling more volume, and flexibility in operation



	Project	Outline of project and interest	Participation and its purposes
		- Major interest holders	- Participation
		Shevron, Shell, Exxon Mobil, etc.	Interest holding ratio 0.417%
	Carron	- Project site	- Purposes/effects
	Gorgon	Australia	 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.,	Interest holding ratio 7.5%
		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' 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)
coar			- 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'
uclear		- Project site	group: 10%
fuel	Kharasan	Kazakhstan	- Purposes/effects
luci			Fuels will be secured for long term and in stable manner.
		- Project output capacity	-
		Approx. 5,000 ton/year (planned)	

-

- Outline of overseas business	Investment amount (approximate)	Output based on Chubu's stake*		
At end of FY 2010	Cumulative total 70 billion yen	Cumulative total 2,550 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
	r	Investments in various existing IPPs, United States	50x5	5%	FY 2004	2004 through 2013 (acquisition and sale phase)
	ıeric:	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
u	Nort	Gas thermal IPP, Valladolid, Mexico	525	50%	FY 2003	Jun. 2006
eratio		Aquisition of Falcon's interest in gas thermal IPP (5 sites), Mexico	2,233	20%	FY 2010	2001-2005
gene	sia	Gas thermal IPP, Thailand	1,400	15%	FY 2001	Jun. 2008
ower	A	Cogeneration in industrial park (3 sites), Thailand	approx.110×3	19%(2 sites) 24%(1 site)	FY2011	2014 (planned)
	st	Power generation & desalination, Ras Laffan B, Qatar	1,025	5%	FY 2004	Jun. 2008
	e Ea:	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	Mar. 2011
	K	Gas thermal IPP, Sur, Oman	2,000	30%	FY 2011	2014 (planned)
ental		Rice husk power generation, Thailand	20	34%	FY 2003	Dec. 2005
ronm	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.

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Sales Strategy

- Electricity sales

- First priority should be given to efforts toward stable provision of electricity through public relations campaigns on energy saving, including education on effective use of electricity.

- Features of electric apparatuses and heat pumps should be informed to those who appreciate the safety, convenience and cleanness of electricity.

- Propose energy solutions to business customers

In addition to electricity, in collaboration with all group companies we will propose energy solution services that comprehensively satisfy the diverse needs of our business customers, by combining gas, LNG and onsite energy systems.



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The Act to Establish a Nuclear Damage Compensation Facilitation Corporation 37

- Overview of the bill for 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 <u>in the spirit of "mutual aid"</u>, and
(2) to offer the national government's support for payment of compensation, if necessary.

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



- Currently the bill is under discussion in the 177th regular Diet session (session continues until August 31, 2011).

- Requests from the Federation of Electric Power Companies of Japan regarding the bill (submitted on May 18, 2011)

- (1) The reason for contributions by electric power companies other than Tokyo EPCO should be clarified.
- (2)The national government should pay compensation as well.
- (3)The system should not interfere with stable provision of electricity or damage credit in financial markets; the system should not affect in any way the income and expenditure of electric power companies' business.

Feed in Tariffs for Renewable Energy

- Scheme of feed in tariffs for renewable energy (not only surplus, but all of them)

Eligible products to purchase



Shared cost adjustment organization

(Source: "Overview of 'Bill on Act of Special Measures concerning Renewable Energy Electricity Procured by Electric Power Companies" by the Ministry of Economy, Trade and Industry in March 2011)

- Details of feed in obligation

	Electricity other than solar power	Solar power generation			
	generation	For households	Offices, factories, and generation business		
	generation	1 of nousenous	(other than households)		
Purchase	to be fixed within 15 20 yen/kW/h	The purchase price should initially be set higher, then gradually lowered in accordance with			
price to be fixed within 15 - 20 yen/kwh		the decrease in solar power generation system prices.			
Purchase	to be fixed for 15 20 years	10	to be fixed for		
duration	to be fixed for 13 - 20 years	10 years	15 - 20 years		

(Source: "Overview of 'Bill on Act of Special Measures concerning Renewable Energy Electricity Procured by Electric Power Companies" by the Ministry of Economy, Trade and Industry in March 2011)

Smart Grid/Smart Meter <1>

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

Aim to establish one of the most advanced next-generation transmission/distribution networks in the world that enables bilateral communication between all power sources and users, by the 2020s or as early as possible.
Aim to introduce smart meters to users by the 2020s or as early as possible, fully taking cost performance and other factors into consideration.

- Major Activities by the Company

- 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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Smart Grid/Smart Meter <2>

- Chubu's own initiatives

< Next-generation home "smart home" (FY 2009 - FY 2011) >

Testing of next-generation home that can use renewable energies to their fullest extent

< Power generation characteristics of solar power generation (FY 2009 - FY 2011)>

Evaluation of various solar panels to determine the effect of progressive installation of solar power generation to the power system

- Participation in national projects



Image for next-generation home "smart home"

< Demonstration project for "residential and community" low-carbon social system, in Toyota City (demonstration of HEMS establishment) (FY 2010 - FY 2014) >

Provide visualization of electricity use status for customers. Effective use of electricity generated by solar power systems for "Eco Cute," energy-storing devices for next-generation automobiles, and other electric devices.

< Research regarding assessment of impacts of wide spread of solar power units on our system (FY2009 - FY2011)>

At 61 sites in our service area, the amount of solar radiation and output from the solar power system were measured, and analysis of leveling effect was conducted from the viewpoints of output fluctuation and wide area use.

< Optimal control technologies for next generation power grids (FY 2010 - FY 2012)>

Development of technologies to control fluctuation in voltage in the grid, and development of low-loss, lowcost devices that utilize next-generation converter technology in preparation for wide spread of solar power generation

Reforms to Retirement Benefits

- Outline of reforms to retirement benefits (effective since April 2011)

- A switchover of portion of defined benefit plans to defined contribution plans
- A change in calculation method for retirement lump-sum grants and defined benefit plans from "proportion to final basic salary" to "point accumulation"

- Effects of the reforms to financial statements



Free Cash Flow (Non-consolidated)

(billion yen)



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Shareholders' Equity Ratio, Debt - Equity Ratio

- Shareholders' equity ratio

- Debt - equity ratio





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