Investors Meeting 2nd Quarter FY2017

October, 2017



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01 Outline of Financial Results for Six-Months ended September 30, 2017

Note: The company's fiscal year (FY) is from April 1 to March 31 of the following year. FY2017 represents the fiscal year begun on April 1, 2017, and ending on March 31, 2018. 2nd Quarter(2Q) represents six months period ended September 30, 2017.



- Operating revenues (consolidated and non-consolidated) increased following 2014/2Q, for the first time in 3 years.
- Ordinary income (consolidated and non-consolidated) decreased for 2 consecutive years since 2016/2Q.
- We recorded increased sales and decreased profit following 2013/2Q, for the first time in 4 years. (We posted a deficit in 2013/2Q.)

		(Rounded down to ne	arest 100 million yen.)	(Billion yen,%)
[Consolidated]	2017/2Q	2016/2Q	Chang	e
	(A)	(B)	(A-B)	(A-B)/B
Operating revenues	1,393.3	1,306.8	86.4	6.6
Operating income	96.9	172.2	(75.2)	(43.7)
Ordinary income	87.3	163.7	(76.4)	(46.6)
Net income attributable to owners of parent	62.1	146.7	(84.5)	(57.6)

*The number of consolidated subsidiaries [change from the same period of the previous year in parenthesis] 2017/2Q : 31 subsidiaries (+2 companies), 26 affiliates accounted for under the equity method (+2 companies)

[New several date d]		(Rounded down to ne	earest 100 million yen.)	(Billion yen,%)
[Non-consolidated]	2017/2Q	2016/2Q	Change	
	(A)	(B)	(A-B)	(A-B)/B
Operating revenues	1,280.0	1,213.9	66.1	5.4
Operating income	88.5	164.0	(75.5)	(46.0)
Ordinary income	78.2	157.8	(79.5)	(50.4)
Net income	57.1	115.0	(57.8)	(50.3)

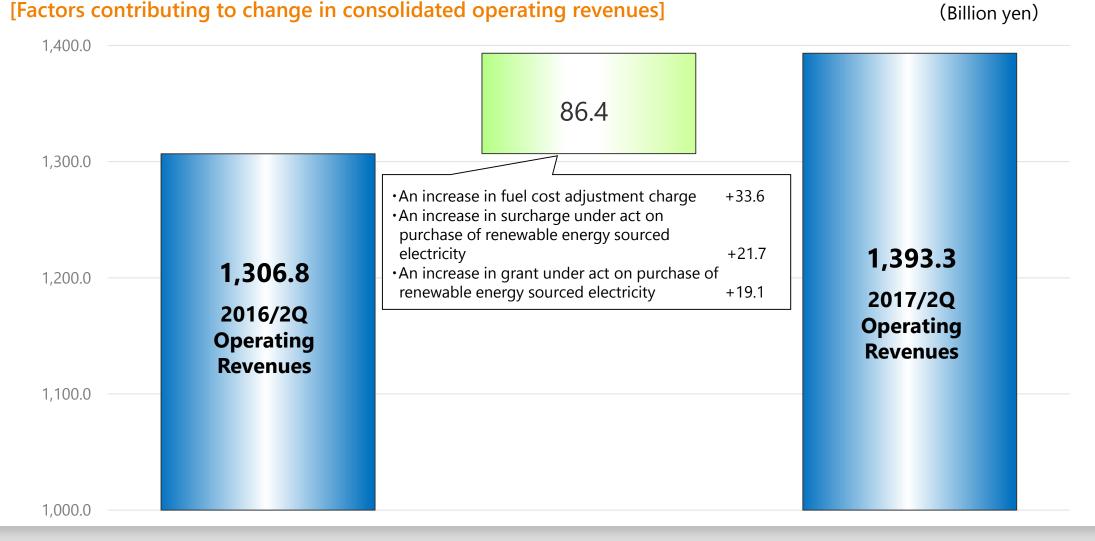
[Principal figures]		2017/2Q (A)	2016/2Q (B)	Change (A-B)
Electrical energy sold	(TWh)	59.9	60.4	(0.5)
CIF price: crude oil	(\$/b)	51.3	43.8	7.5
FX rate (interbank)	(yen/\$)	111.1	105.2	5.9
Nuclear power utilization rate	(%)	-	-	

*CIF crude oil price for 2Q of FY2017 is tentative.

<Consolidated Operating Revenues>

02

Operating revenues increased by 86.4 billion yen compared with 2016/2Q, mainly due to an increase in fuel cost adjustment charge, and an increase in surcharge and grant based on Act on Special Measures Concerning Procurement of Electricity from Renewable Energy Sources by Electricity Utilities.



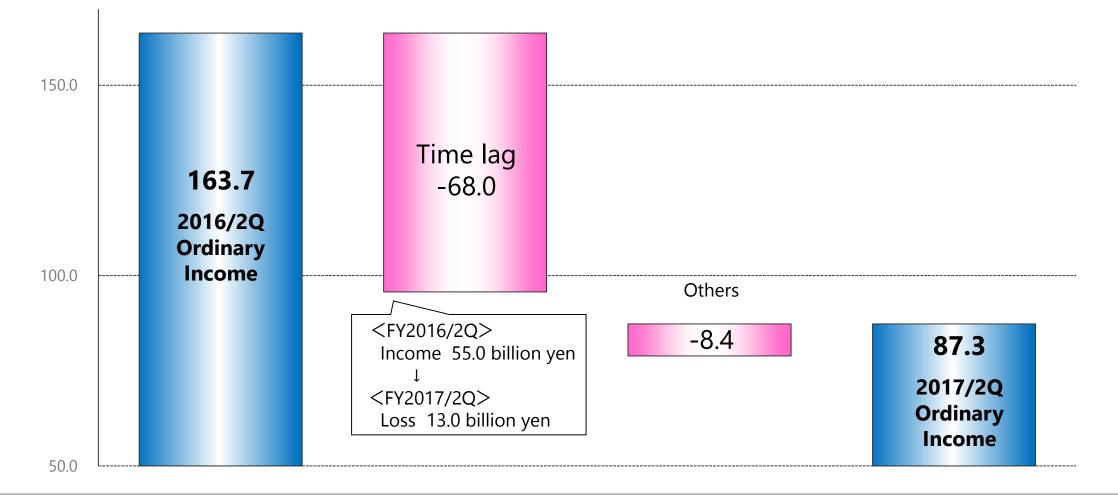


<Consolidated Ordinary Income>

Consolidated ordinary income decreased by 76.4billion yen compared with 2016/2Q, mainly due to a conversion of income incurred by fuel cost adjustment system time lag into loss.

[Factors contributing to change in consolidated ordinary income]

(Billion yen)





< Electrical Energy Sold>

- Dropped by 0.8% to 59.9TWh, compared with 2016/2Q, mainly due to an effect of switches made to other operators with the intensified competition, in spite of an increase of production in the automobile and semiconductor industry and an increase in air conditioning demand affected by temperature, in addition to a sales increase in Tokyo metropolitan area.
- Low voltage : Dropped by 1.1% to 17.8TWh, compared with 2016/2Q, mainly due to an effect of switches made to other operators, in spite of an increase in air conditioning demand by lower temperature in this early spring, in addition to a sales increase in the Tokyo metropolitan area.
- High voltage / Extra-high voltage : Dropped by 0.7% to 42.1TWh, compared with 2016/2Q, mainly due to an effect of switches made to other operators, in spite of an increase of production in the automobile and semiconductor industry, in addition to a sales increase in the Tokyo metropolitan area.

					(TWh,%)
		2017/2Q	2016/2Q	Chang	je
		(A)	(B)	(A-B)	(A-B)/B
Electrical energy sold	Low voltage	17.8	18.0	(0.2)	(1.1)
	High voltage / Extra-high voltage	42.1	42.4	(0.3)	(0.7)
	Total	59.9	60.4	(0.5)	(0.8)

05 | Electric Power Supplied

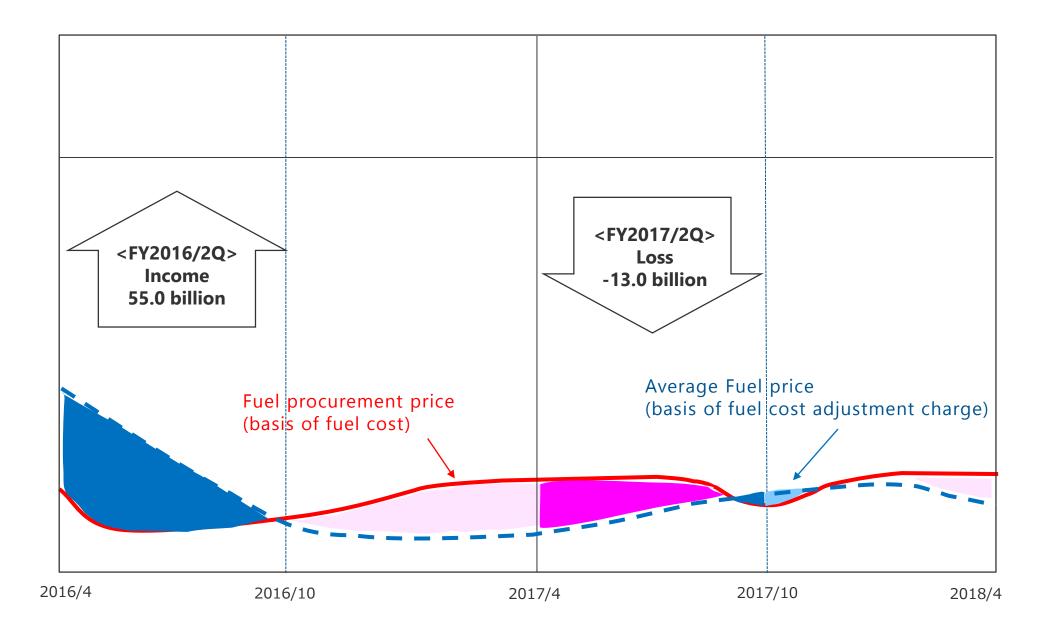


<Electric Power Supplied>

- **Hydro :** The flow rate fell short of 2016/2Q ; thus hydroelectric power output **decreased by 0.1TWh.**
- Interchanged, purchased power : Increased by 0.7TWh, mainly due to an increase in purchase of renewable energy.
- **Thermal** : As a result of a decrease in electrical energy sold and above, thermal power output **decreased by 1.8TWh**.

						(TWh,%)
			2017/2Q	2016/2Q	Chan	ge
			(A)	(B)	(A-B)	(A-B)/B
		Hydro	4.7	4.8	(0.1)	(2.3)
		<flow rate=""></flow>	<86.0>	<92.3>	<(6.3)>	
	Internally Thermal generated Nuclear <utilization rate=""> Renewable energy Interchanged, purchased power(*)</utilization>	Thermal	51.3	53.1	(1.8)	(3.5)
Electric		Nuclear	(0.1)	(0.1)	(0.0)	5.5
power supplied		<utilization rate=""></utilization>	<->	<->	<->	
		0.0	0.0	(0.0)	(24.4)	
		6.2	5.5	0.7	15.4	
	Power used	d for pumped storage	(0.7)	(0.5)	(0.2)	32.1
		Total	61.4	62.8	(1.4)	(2.1)

* Interchanged, purchased power represent power output that we grasp at the end of the 2017/2Q.





<The Policy on Shareholder Return>

The Company will work to maintain stable dividends after taking account of financial condition and other factors, while continuously investing in building and operating facilities that are essential for a safe and stable supply of electricity.

<Dividends>

The Board of Directors has determined that the interim dividend per share is 15 yen per share today.

	Dividend per share (yen)				
	Interim Year-end Total in annual				
FY 2017	15	<15>	<30>		
FY 2016	15	15	30		

*1 Forecast in < >.

*2 We have not changed the forecast of the dividend since the last time (July, 28 2017).



<Forecast>Revised Forecasts of Financial Results previously announced on July 28, 2017.

- Operating revenues (consolidated and non-consolidated) is not revised.
- Ordinary income (consolidated and non-consolidated) will increase mainly due to further management efficiency.

[Consolidated]

- Operating revenues will increase following FY2014, for the first time in 3 years.
- Ordinary income will decrease for 2 consecutive years since FY2016.

				(Billion yen,%)
	Current	July 28	Change	
	(A)	(B)	(A-B)	(A-B)/B
Operating revenues	2,760.0	2,760.0	-	-
Operating income	125.0	115.0	10	8.7
Ordinary income	110.0	100.0	10	10.0
Net income attributable to owners of parent	75.0	70.0	5	7.1

[Non-consolidated]

- Operating revenues will increase following FY2014, for the first time in 3 years.
- Ordinary income will decrease for 2 consecutive years since FY2016.

				(Billion yen,%)
	Current	July 28	Change	
	(A)	(B)	(A-B)	(A-B)/B
Operating revenues	2,510.0	2,510.0	-	-
Operating income	105.0	95.0	10	10.5
Ordinary income	85.0	75.0	10	13.3
Net income	60.0	55.0	5	9.1



[Principal figures]

				(TWh,%)
(Electrical operaty cold)	Current	July 28	Cha	nge
(Electrical energy sold)	(A)	(B)	(A-B)	(A-B)/B
Low voltage	37.7	37.7	-	-
High voltage / Extra-high voltage	81.6	81.6	-	-
Total	119.3	119.3	-	-

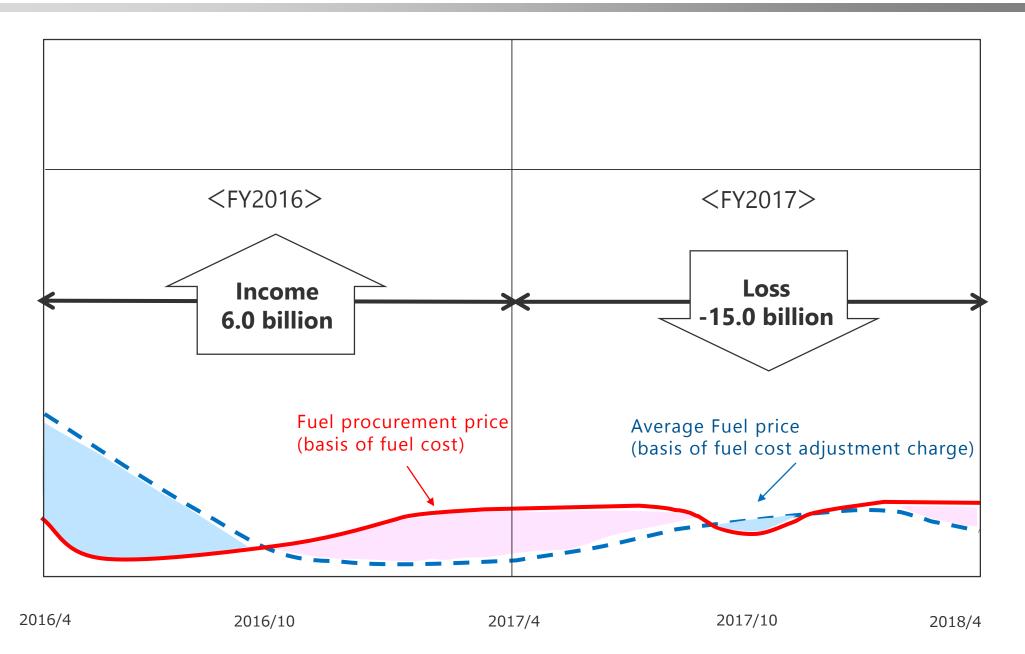
(Other principal figures)		Current	July 28
CIF price: crude oil	(\$/b)	approx. 53	approx. 55
FX rate	(yen/\$)	approx. 111	approx. 110
Nuclear power utilization rate	(%)	-	-

			(Billion yen)	
(Income sensitivity)		Current	July 28	
CIF price: crude oil	(1\$/b)	7.5	7.5	*1,2
FX rate	(1yen/\$)	5.5	5.5	*1
Flow rate	(1%)	0.5	0.5	
Interest rate	(1%)	5.0	5.0	

*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.

CHUBU Electric Power









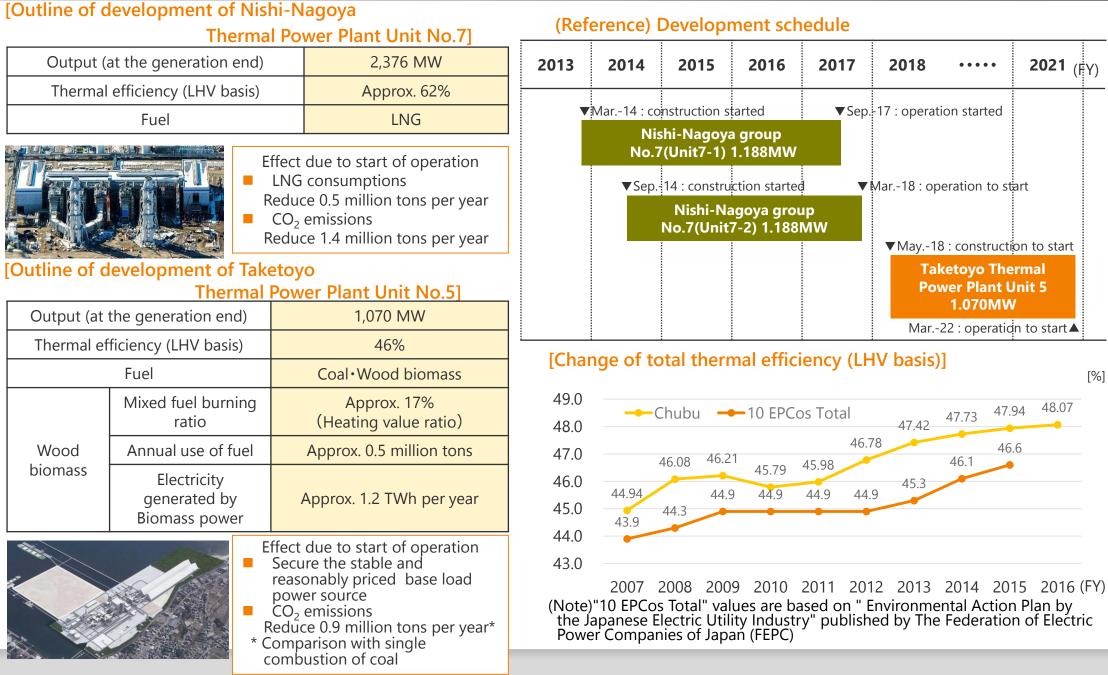
Chubu electric Power Group "What We Aim For"		ovides services that exceed expectations betitors, we will aim to become a "total oup that is one step ahead."
	To achieve "Wh we will implement fo t	at We Aim For," ur priority measures
	Measures to increase the safety of the Hamaoka Nuclear Power Station	Measures to accelerate growth
	Measures to ensure stable power supply for new era	Measures to construct a business framework to make swift responses

Quantitative mid-term target toward the achievement of "What We Aim For"

Chubu electric Power Group Mid-term target	We will aim to achieve "consolidated ordinary income of over 150 billion yen" in FY2018.
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12 Development of High Efficiency Thermal Power Plants





13 | Business Expansion of JERA



- TEPCO Fuel & Power, Incorporated and Chubu Electric established "JERA Co., Inc.", as a new company that implements "a comprehensive alliance covering the entire energy supply chain, from upstream fuel and procurement through power generation." After establishing JERA, business was gradually transferred from both companies to JERA.
- In business that has been transferred so far, actions that could not be realized by Chubu Electric Power alone are initiated, and in June 2017, it has been concluded the joint-venture agreement on integration of fuel receiving/storage and gas transportation businesses, and existing thermal power generation businesses to JERA.

[Roadmap of the comprehensive alliance]

Established JERA

In order to develop continuous growth strategies and further improve corporate values of JERA, examinations will be made in detail toward integration.

[Integration synergy effects]

100 billion yen/year within **five years** of integration

(ope	amlining of O&M eration and ntenance)	30, 2015	Start new fuel procurement and fuel related business, new establishment and replacement of domestic thermal power stations and new overseas power generation business
Rationalization •Ratio	onalization due to Octobe	er 1, 2015	Integration of fuel transportation business and fuel trading business to JERA
enect	procurement of pment and July July		Integration of existing fuel businesses(upstream/procurement) and existing overseas power generation/energy infrastructure business to JERA
	ling of optimized gy portfolio March		Agreement on to integrate fuel receiving/storage and gas transportation businesses and existing thermal power generation business to JERA
with JERA's	ew iness	8, 2017	Conclusion of joint-venture agreement on integration of fuel receiving/storage and gas transportation businesses, and existing thermal power generation businesses to JERA.
existing			Integration of fuel receiving/storage and gas transportation businesses, and existing thermal power generation business (target)
	Overvi	ew of mea	asures to prevent the restriction on JERA business activities]

Optimization of procurement due to integrated management of existing fuel contract
Incorporation of know-how cultivated in overseas energy market into domestic thermal power business

 Acquisition of revenue due to market transactions and sales by a third party

Direct sales of O&M (operation and maintenance)
Acquisition of revenue due to expansion of sales of gas and LNG $\textcircled{1} \mathsf{Dividend} \ \mathsf{rules}$

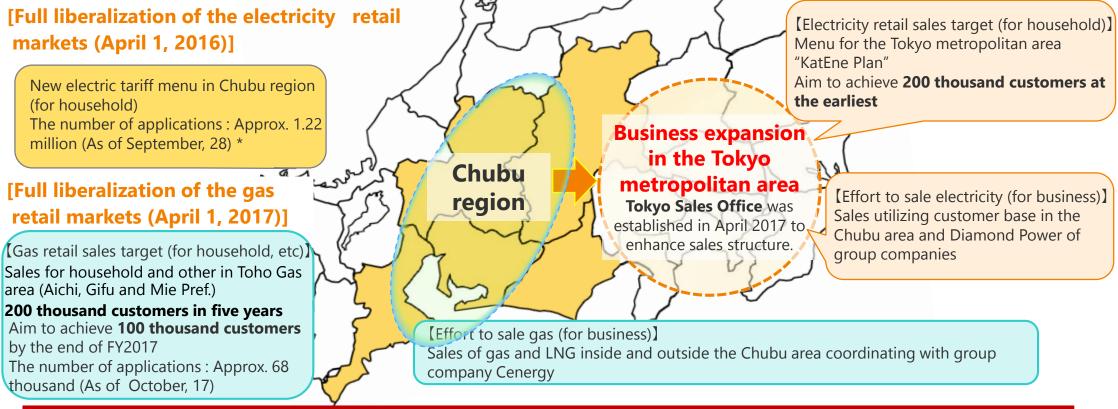
After retained earnings required to invest JERA for business growth, deal with risks and maintain investment grade rating, dividend amounts shall be determined after agreement by both shareholders referring "market average payout ratio" "as a guideline". ②Mechanism for complying with dividend rules

- If material concerns arise over the financial situation of a shareholder, the right of the aforementioned shareholder to set dividends shall be immediately restricted.
- If the aforementioned concerns are materialized, the other shareholder shall become the majority shareholder by acquiring one additional share.

14 | Expansion of Total Energy Services



Taking full liberalization of entry to gas business from April 2017 as an opportunity, gas has begun to be sold to household customers in addition to conventional customers for industrial use and business use.
 With competitive procurement capacity of JERA as a lever, total energy service will be expanded through development and provision of new services centering on "gas and power".



Expansion of gas & electric power in the Chubu region and the Tokyo metropolitan area

Electricity sales outside Chubu region, primarily Tokyo metropolitan area in 2030

 \rightarrow Aim for increase to **20 TWh per year**

Gas/LNG sales in and outside Chubu region \rightarrow Aim for increase to **3 MTPA**

* The number of switching from conventional menu to new tariff menu ("Point Plan", "Otoku Plan", "Toku-toku Plan", "Biji-toku Plan", "Smart life Plan").

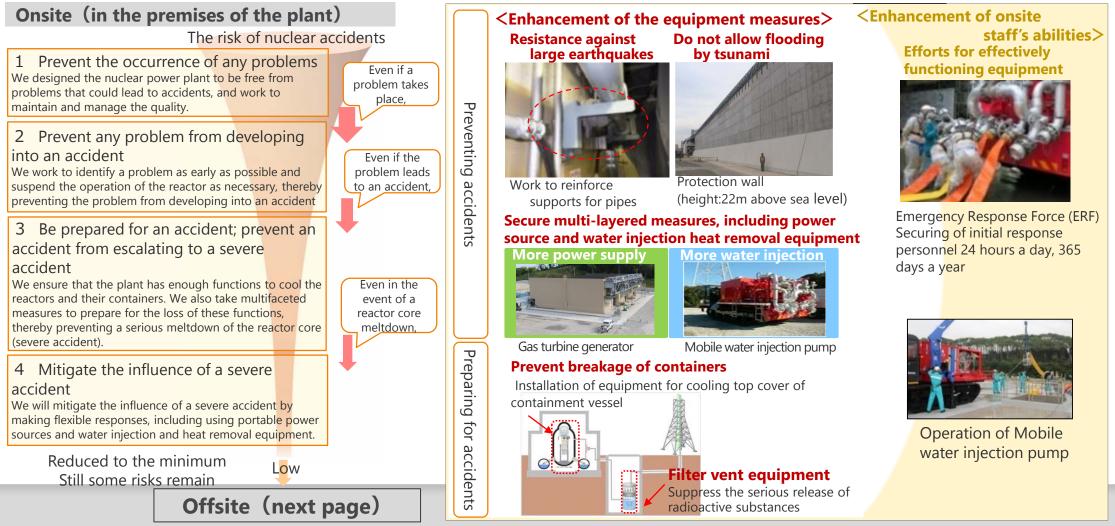
15 | Safety Improvement Measures on Hamaoka Nuclear Power Station < Onsite >



Major construction works at Unit 4 have been completed excluding some construction works including re-examination of construction work details based on the situation in the field. We are presently undergoing inspections by the Nuclear Regulation Authority to ensure that the power plant is safe and complies with the new regulatory standards.

(Reference) On-site survey was conducted by members of the Nuclear Regulation Authority regarding items concerning the plant in June 2015 and items concerning tsunami and earthquake in March 2017.

We are strongly committed to preventing similar accidents that happened at Fukushima Daiich Nuclear Power Station, and will continue to strengthen our equipment "onsite" abilities, while fostering collaboration with related organizations to enhance our "offsite" abilities to prepare against nuclear accidents.



16 | Safety Improvement Measures on Hamaoka Nuclear Power Station < Offsite >



Offsite (outside of the power plant site)

As preparation for nuclear disasters, coordination with the national government and local governments will be enhanced so that support and cooperation concerning evacuation of residents can be provided with the local community.



Strengthen the system for issues on resident evacuation

Nuclear disaster training held by Shizuoka Prefecture





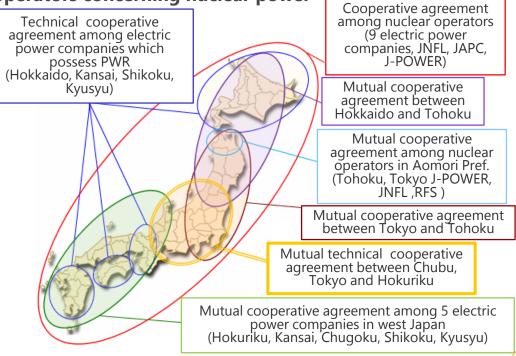
Training of transport of patients with risk of exposure to medical institutions

Mutual cooperative systems

On March 7, 2017, Chubu Electric Power concluded an agreement on mutual technical cooperation regarding improvement of nuclear safety with TEPCO Holdings and Hokuriku Electric Power.

By having knowledge shared among the 3 companies, safety is further enhanced, and due to mutual cooperation in support for settling the accident and support for evacuation of residents when a nuclear disaster occurs, effectiveness of response actions for a nuclear disaster is further improved.

Nationwide expansion of cooperative agreement of operators concerning nuclear power



17 | Efforts for Development of Business Structure that can Adapt to Change of Environment



[Reinforcement of business foundation utilizing ICT and expansion of business areas]

ICT such as IoT, big data and AI will be utilized for reinforcement of business foundation, and examinations will be made for provision of new services.

<Specific examples>

Operation support service of thermal power generation	Monitoring of signs of equipment failure by utilizing big data and analysis technology
New service due to IoT of telegraph poles	Watching service for children and senior citizens by installing various sensors to telegraph poles
Achieve the sophistication and efficiency power transmission/distribution business	Use of advanced technology for formation, maintenance and management of equipment
Services for household	Energy management service utilizing IoT

Development of business structure according to change of market structure]

- Outlook that electricity demand in Japan will drastically decrease and will not structurally expand in the future
- Increase of share of new electricity due to further intensified competition as an impact of full liberalization of entry to electricity business

Development of business structure where efforts are proactively made for establishment of new revenue base including gas & power Further improvement of corporate values by continuing to realize efficient management and creating new business and innovative service ahead of other companies



Reference Data(1): Financial Results



	(Rounded	(Rounded down to nearest 100 million yen.) (Billion yer			
	2017/2Q	2017/2Q 2016/2Q		nge	
	(A)	(B)	(A-B)	(A-B)/B	
Operating revenues	1,393.3	1,306.8	86.4	6.6	
Non-operating revenues	8.1	7.7	0.3	4.7	
Ordinary revenues	1,401.4	1,314.6	86.7	6.6	
Operating expenses	1,296.3	1,134.6	161.6	14.2	
Non-operating expenses	17.7	16.2	1.5	9.3	
Ordinary expenses	1,314.0	1,150.8	163.1	14.2	
<operating income=""></operating>	<96.9>	<172.2>	<(75.2)>	<(43.7)>	
Ordinary income	87.3	163.7	(76.4)	(46.6)	
Reserve for fluctuation in water levels	(1.1)	(1.2)	0.0	-	
Extraordinary income(*)	-	30.2	(30.2)	-	
Income taxes	25.3	47.7	(22.3)	(46.8)	
Net income attributable to non-controlling interes	sts 1.0	0.8	0.1	19.6	
Net income attributable to owners of parent	62.1	146.7	(84.5)	(57.6)	

* 2016/2Q : Gain on change in equity

19 Non-consolidated Statements of Income <1>: Operating Revenues

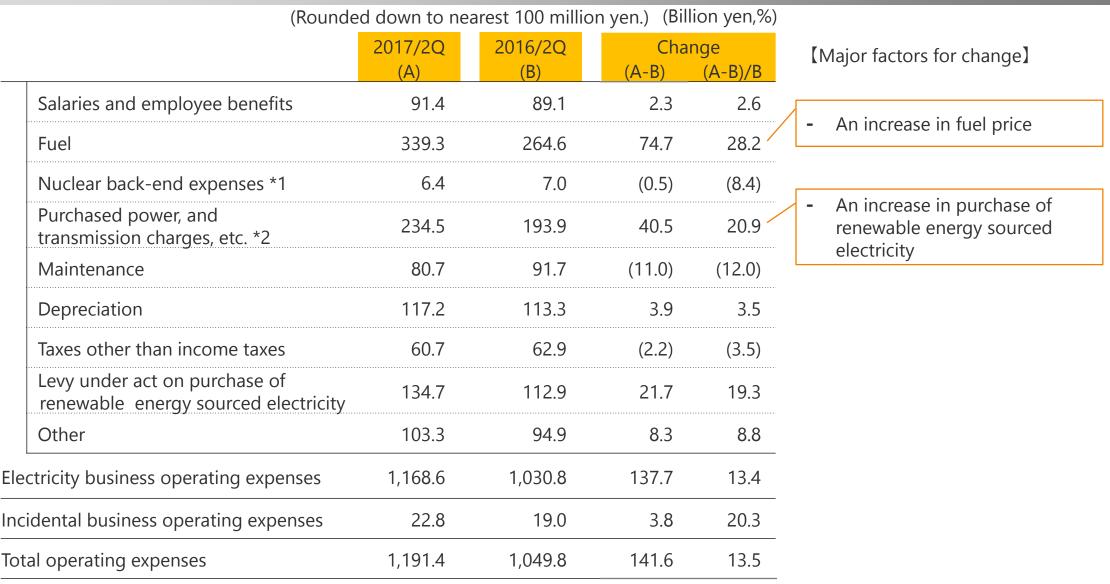




* Sold power to other utilities, Sold power to other suppliers, Transmission revenue and Settlement revenue among utilities

20 Non-consolidated Statements of Income <2>: Operating Expenses





*1 Reprocessing of irradiated nuclear fuel, Preparation of reprocessing of irradiated nuclear fuel, Contributions for reprocessing of irradiated nuclear fuel, Designated radioactive waste disposal expenses, Decommissioning nuclear power plants

*2 Sold power to other utilities, Sold power to other suppliers, Portion of the existing power generation expenses such as spent fuel reprocessing for which contracts have been signed, Transmission charges, Supply connection transmission charges, Settlement revenue among utilities



	(Rounded down to	o nearest 100 m	nillion yen.) (B	Billion yen,%)	
	2017/2Q	2016/2Q	Cha	nge	[Major factors for change]
	(A)	(B)	(A-B)	(A-B)/B	
Operating income	88.5	164.0	(75.5)	(46.0) -	- Electricity business : -69.8
Non-operating revenues	6.6	8.9	(2.3)	(26.1)	- Incidental business : -5.6
Non-operating expenses	16.9	15.2	1.6	11.1	
Ordinary revenues	1,286.6	1,222.8	63.7	5.2	
Ordinary expenses	1,208.3	1,065.0	143.3	13.5	
Ordinary income	78.2	157.8	(79.5)	(50.4)	
Reserve for fluctuation in w levels	vater (1.1)	(1.2)	0.0	-	
Income taxes	22.2	44.0	(21.7)	(49.5)	
Net income	57.1	115.0	(57.8)	(50.3)	



	(Rounded down to nearest 100 million yen.)		(Billion yen)
	2017.9	2017.3	Change
	(A)	(B)	(A-B)
Assets	5,451.0	5,412.3	38.7
	<4,969.5>	<4,956.5>	<13.0>
Liabilities	3,657.0	3,687.5	(30.5)
Liabilities	<3,501.1>	<3,535.9>	<(34.8)>
Not accets	1,794.0	1,724.7	69.3
Net assets	<1,468.4>	<1,420.5>	<47.8>
	31.8	31.1	0.7
Shareholders' equity ratio (%)	<29.5>	<28.7>	<0.8>
Outstanding interest begring debt	2,632.1	2,674.7	(42.6)
Outstanding interest-bearing debt	<2,623.3>	<2,662.8>	<(39.4)>

Non-consolidated figures in <>.



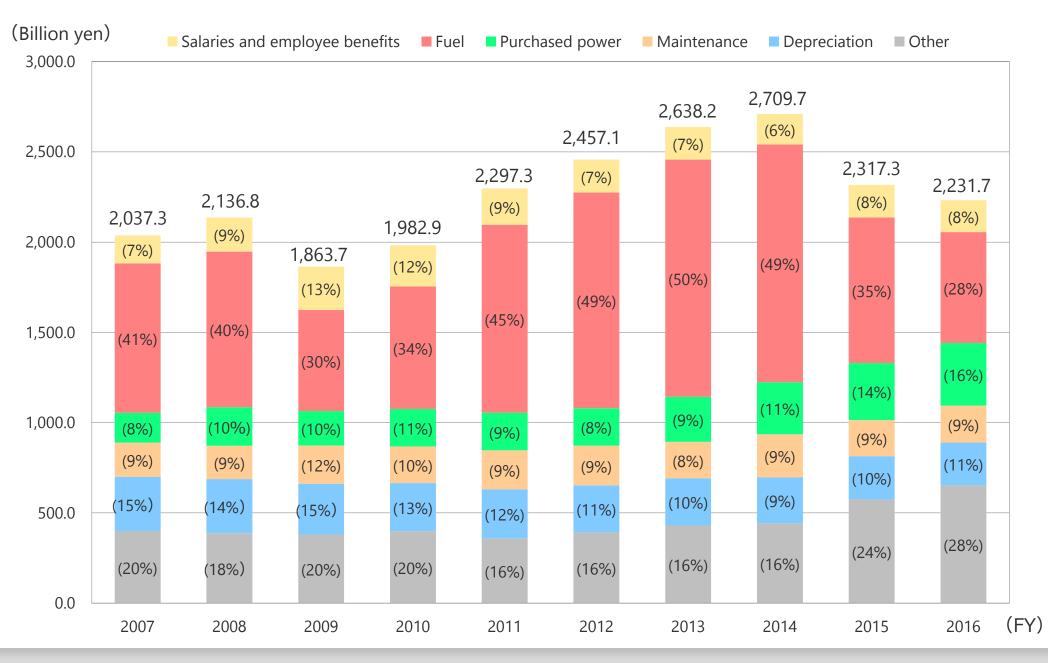
(Billion yen)

	FY2017/2Q (A)	FY2016/2Q (B)	Change (A-B)
Cash flows from operating activities (a)	142.8	174.0	(31.1)
Cash flows from investing activities (b)	(173.0)	(181.9)	8.8
Cash flows from financing activities(c)	(37.0)	(12.3)	(24.7)
Net decrease in cash and cash equivalents(a)+(b)+(c)	(67.2)	(20.3)	(46.8)
	2017/2Q (A)	2016/2Q (B)	Change (A-B)
Free cash flows (a+b)	(30.1)	(7.9)	(22.2)

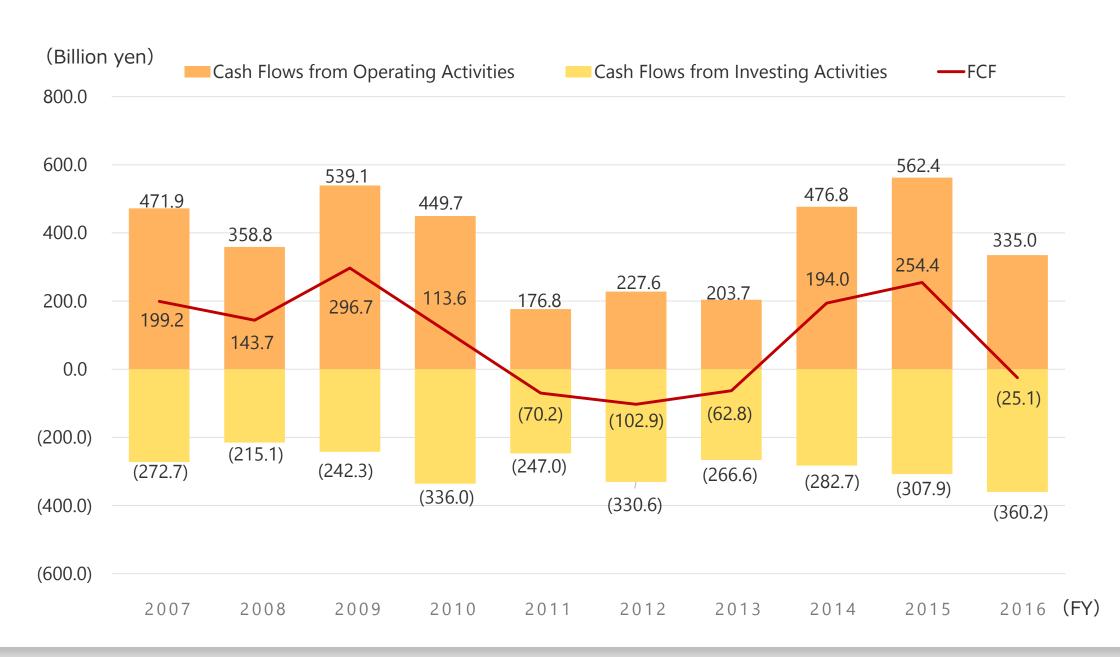
Rounded down to nearest 100 million yen.

24 | Electricity Business Operating Expenses (Non-consolidated)





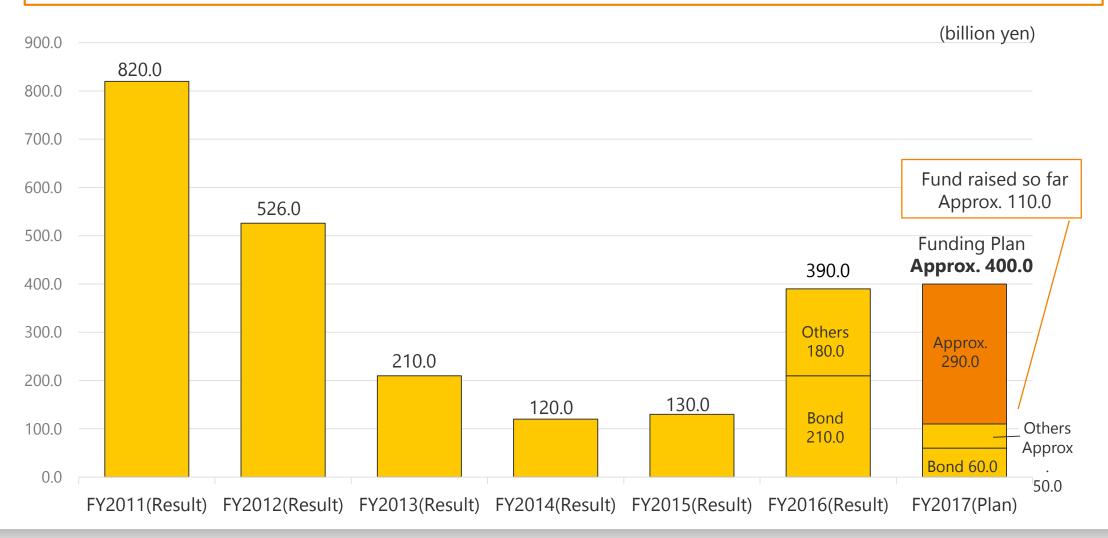
CHUBU Electric Power



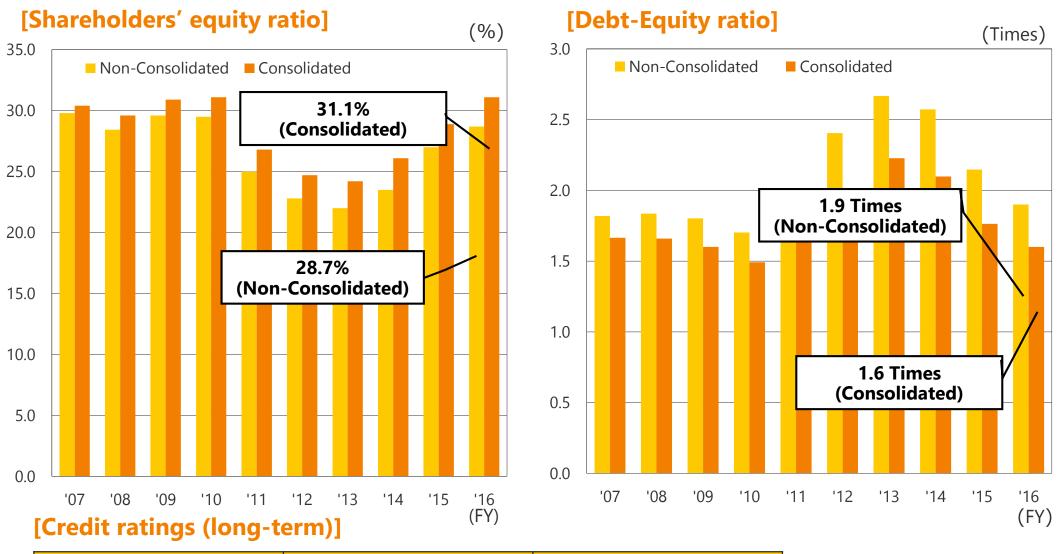
26 | Fund Raising



- We raised total approximately 1,500 billion yen in long-term funding for 3 years since the shutdown of Hamaoka Nuclear Power Station.
- We raised 390 billion yen in long-term funding in FY2016.
 - We plan to raise approximately 400 billion yen in long-term funding in FY2017.







Moody's	R&I	JCR
A3	A+	AA



Reference Data (2) : Management Information

28 Schedule of the Electricity and Gas System Reform



[Schedule of the electricity system reform]

	Schedule for implementing the measures	Schedule for Enacted the bill
3 rd phase: Further securing the neutrality of the power transmission/distribution sector through legal unbundling; Fully liberalizing electricity rates	In April 2020	Enacted on June 17, 2015

<Reference>Development of markets and rules for competitive activation (Subcommittee for accomplishment of the electricity system reform)

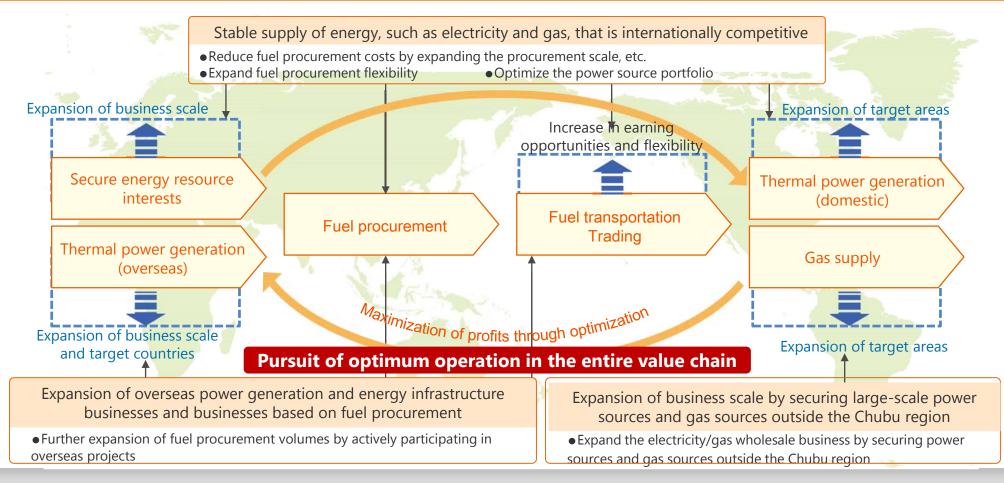
	Timing for the introduction	Contents
Establishment of the Base-load power market	FY2019	 Establishment of a market that provides PPS with easy access to base-load power Institutionalizing major electric power companies' supply of base-load power to the market
Revision of utilization rule of interconnection line	FY2018	 Change the current utilization rule of interconnection line from "first-come priority" to an indirect auction system via spot market based on market principle
Introduction of Capacity mechanism	FY2020	 Introduction of a framework to ensure power supply and coordination capabilities that are required over the medium- to long-term
Establishment of the Non-fossil value trading market	FY2019	•Establishment of a market where retailers can procure non-fossil value

[Revision of the gas business act]

	Scheduled for implementing the measures	Scheduled for enacted the bill	
Full liberalization of the gas retail market	In April 1, 2017		
Legal unbundling of the gas pipeline business (Tokyo Gas Co., Ltd., Osaka Gas Co., Ltd., and Toho Gas Co., Ltd)	In April 2022	Enacted on June 17, 2015	



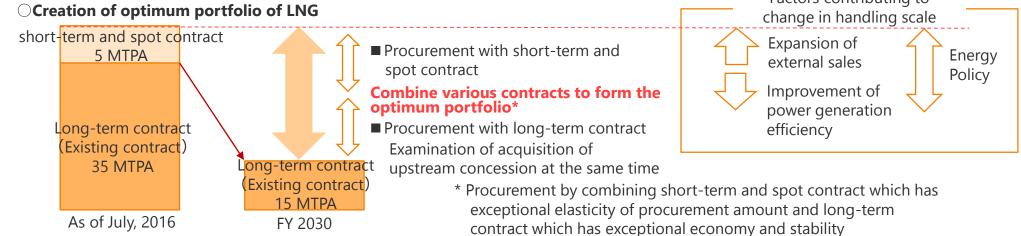
- JERA will expand business based on investment profits from each business and profits generated from the optimization of the value chain.
- We will divide the value chain from the securing of interests of energy resources to procurement, transportation, gas supply and power generation (domestic and abroad) for each business, and aim to increase the investment returns of each business domain.
- At the same time, on the operation side we will establish a system that can control profits and risks by optimizing the allocation of managerial resources and operations, in view of the activities of the entire value chain. As a competitive and innovative supplier, we intend to survive the competition both in the Japanese and global markets.





[Fuel business (Upstream, procurement, transportation, trading)]

Optimum portfolio is create using the world's largest procurement scale and trading, and fuel procurement that can flexibly respond to change of business environment in the future is realized. Factors contributing to



[Domestic power generation business (New establishment and replacement)]

Bring together the knowledge and technology of both companies to establish and replace thermal power stations, and thereby seek a balance between achieving improved competitiveness and addressing global warming issues.

Place (Fuel)	Output	Start of operation	
Hitachinaka (Coal)	650 MW	1st half FY 2021	
Goi (LNG)	Approx. 2,340 MW	FY 2022 - FY 2023	
Anegasaki (LNG)	Approx. 1,950 MW	FY 2022 - FY 2023	
Yokosuka (Coal)	Approx. 1,300 MW	FY 2023	

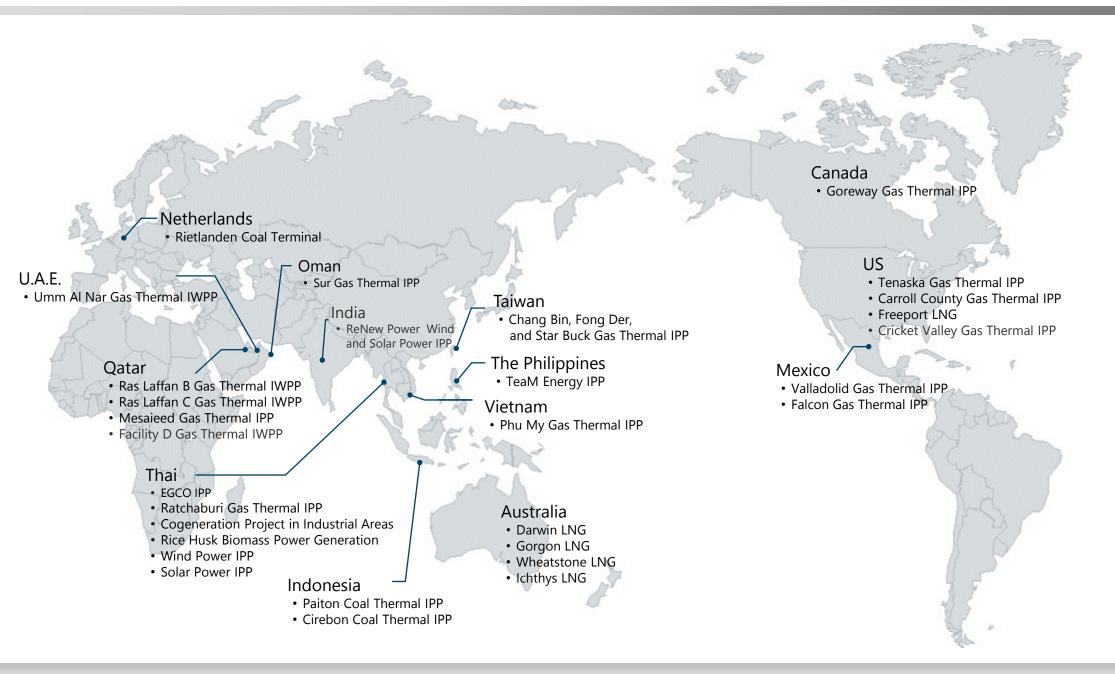


[Overseas power generation business]

By expanding power generation and energy infrastructure business overseas, economic growth and reduction of environmental load in developing countries are supported and new revenue source is acquired.

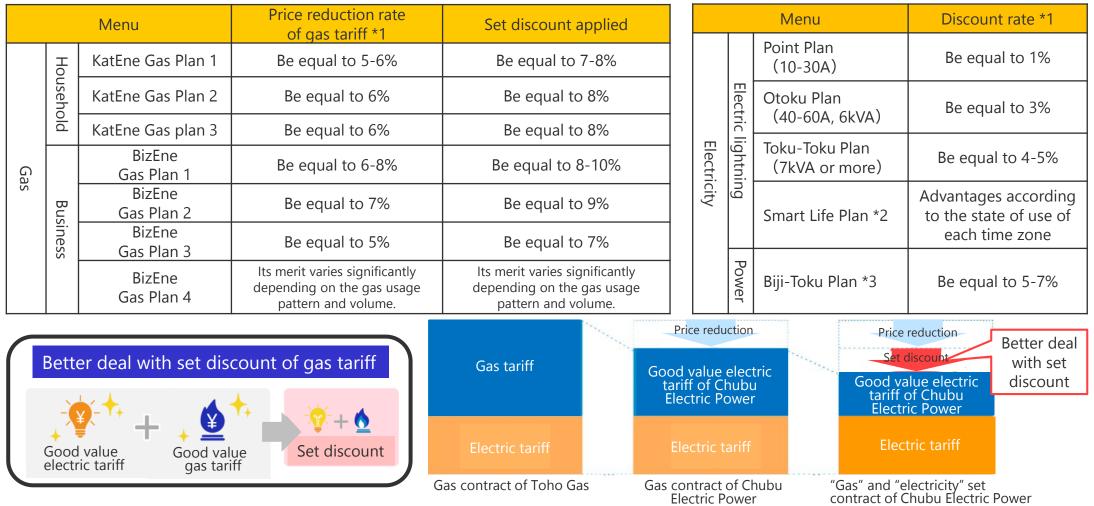
(US) Participation in Cricket Valley Gas Thermal IPP	Jan, 2017	The first new power generation project outside of Japan in which JERA will take part, after succession of overseas power generation business		
(India) Participation in Renewable Energy Business	Feb, 2017	Acquisition of a part of shares from ReNew in India. Aim to construct the power generation portfolio that includes renewable energy.		
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31 (Reference) Overseas IPP and Fuel Projects of JERA Group (As of October, 2017) 🌾 CHUBU Electric Power





- We arranged seven gas tariff menus, i.e. the KatEne Gas Plan for households and the BizEne Gas Plan geared toward businesses. They have been set at prices lower than the gas tariff menu offered by Toho Gas*.
 - * There are some cases that our menu is not lower than Toho Gas's menu, depending on current menu selected by the customer.
- We arranged a KatEne/BizEne Gas Set, which discounts 2% off the gas tariff by signing a contract both for electricity and gas.



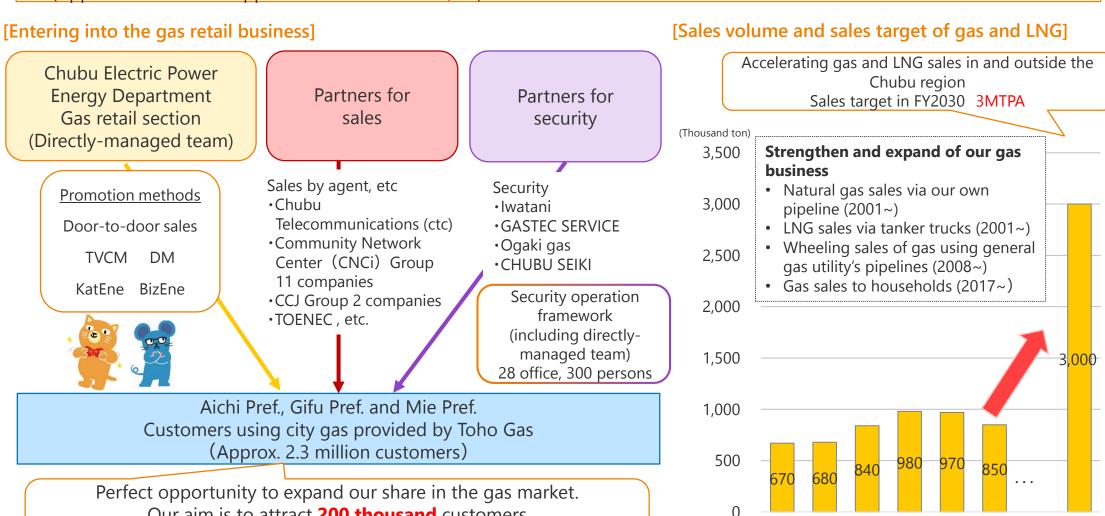
- *1 Gas menus are compared with Toho Gas's menu and Electricity menus are compared with our conventional menu.
- *2 We developed new tariff menu "Smart Life Plan for Smart Airs" with TOYOTA HOUSING CORPORATION and the sales begun in April 2017.
- *3 Biji-Toku Plan is excluded from the set discount offer.



(FY)

2011 2012 2013 2014 2015 2016

- In 2001, Chubu Electric Power launched a natural gas sales operation geared towards large factories, harnessing its own pipelines. The company has since then been taking incremental steps to strengthen and expand its gas business.
- We started to sale gas to household and restaurant and other in April, 2017. (Approx. 68 thousand applications as of October, 17)



[Electricity tariff menu in the Tokyo metropolitan area (KatEne Plan)]

- **①** Top-class low price
 - > Discount rate is 5-10% (KatEne point included) compared with TEPCO Energy Partner's existing menu.

② Benefit arising for all customer in various consumption

> By adopting a 3-stage fee system, the unit price of the basic charge and energy charge is reduced respectively.

[Partners] Promote electric sales through multiple sales channels, including sales through partner companies as well as direct sales

	Procurement	Sales channels	Overview
		Chubu Electric	Sales of the KatEne plan
House	Chubu Electric	BIGLOBE	Joint development menu (KatEne Plan + Communication)
hold		Shizuoka Bank	Joint development menu (KatEne Plan + Home Ioan)
		Chubu Telecommunications (ctc)	Joint development menu (KatEne Plan + Communication)
	Diamond Power	18 city gas companies	We provides electricity through Diamond Power to city gas companies. Each city gas company sells tariff menus that suit each customer.
Dusinger		Chubu Electric	Negotiation-based sales in the Tokyo metropolitan area through the customer bases in the Chubu area
Business		Diamond Power	Negotiation-based sales in the Tokyo metropolitan area through the customer acquisition

[Securing power sources]

Features

Power sources	Output	Fuel	Operation commences
Suzukawa Energy Center Co., Inc. (Fuji-shi, Shizuoka)	100MW	Coal	September, 2016
Hitachinaka Generation Co/, Inc. (Tokai-mura, Naka-gun, Ibaraki)	650MW	Coal	FY2021

35 Sales Strategy <4> : Enhancement of Points of Contact with Customers



<Low voltage >

- Various services with high added values that contribute to convenient and comfortable life as "daily-life coordinator" are developed and provided.
- <High voltage Extra-high voltage >
 Total energy solution is proactively promoted for various problems of corporate customers, thereby contributing to business of customers.
- Energy service activities coordinating with Cenergy Co. and Toenec Co. in the Chubu Electric Power group are carried out.

[Web service for household "KatEne"]

Member acquisition situation

L

More than 1.77 million Club KatEne members (As of October, 2017) Aim for 2 million members by the end of FY2017

Main service

OEnergy consumptions visualization

- OEnergy saving consultation
- ○Point service (KatEne Point)
- ⊖Shopping
- \bigcirc Home service



[Total energy solution service]

Energy solution

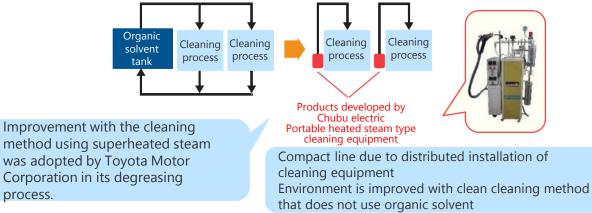
Response to wide range of needs of customers associated with from improvement of operation to repair of equipment Proactively engage in needs concerning saving of gas, more than ever

Energy saving support service in overseas

Support energy conservation of customers in overseas offices where there is more room for energy conservation compared to Japan

Development-integrated solution

Chubu Electric Power provides "development-integrated solution" which repeats trial and error with customers including technical development for diversified and complicated problems of customers.





- For Unit 4, application for review for checking conformity to New Regulatory Standards was submitted on February 14, 2014. For Unit 3, application for review for checking conformity to New Regulatory Requirements was submitted on June 16, 2015.
- For Unit 5, examination of restoration plan for the equipment where sea water entered due to damage of main condenser tube that occurred in 2011 will be advanced and actions for conformity to New Regulatory Standards will continue to be examined.

	Unit 3	Unit 4	Unit 5	Unit 1	Unit 2
Output	1,100 MW	1,137 MW	1,380 MW		ssioning process on on January 30, 9)
Start of operation	August 28, 1987	September 3, 1993	January 18, 2005	decommissior	nd phase of the ning process on y 3, 2016
Passed years (As of the end of October, 2017)	30 years	24 years	12 years		
Application for examination to check for compliance with the new regulatory standards	June 16, 2015	February 14, 2014	Dealing with the seawater infiltration event		

Hamaoka Nuclear Power Station <2> : Progress of the Nuclear Regulation Authority's Review to Verify Compliance with the New Regulatory Standards



As of the end of October

As to Unit No.4, the application form for Change in reactor establishment permission that we submitted has been reviewed by the Nuclear Regulation Authority in two separate categories (matters related to earthquakes/tsunami, etc., and the plant).
 On March 27 and 28 this year, on-site survey was conducted by the Nuclear Regulation Authority regarding items concerning earthquake and tsunami.

Matters subject	Matters related to earthquakes/tsunami, etc.	Matters related to the plant
Number of examination	22 times	58 times
meetings to be held	Joint meeting	s: 2 times
Main item subject	Earthquakes / Tsunami / Volcanoes	Design basis measures Severe accidents, etc.
Main topics of discussion in recent examination meetings	 Assessment of geological features and geological structure around the premises Explanation pertaining to the impact of the fold zone identified around the premises, on the evaluation of activity / seismic motion Assessment of seismic motion Explanation pertaining to the assessment of seismic motion effected by the inland crustal earthquakes. Tsunami assessment Explanation pertaining to the defining design basis tsunami (overview) and tsunami assessment of the interplate earthquakes. 	Spent fuel dry storage facility -Explanation pertaining to the method of evaluating fires caused due to crashing of airplanes, tornados, thunderbolts with respect to the spent fuel dry storage facility Effectiveness assessment of severe accidents -Answers about selection of the accident sequence, and effectiveness assessment of prevention of core damage
Future schedule	-Defining the standard seismic motion and design basis tsunami -Stability of foundation ground, etc.	- Probabilistic risk assessment - Tornados impact assessment, etc.

Hamaoka Nuclear Power Station <3> : Seawater Inflow via Damaged Tubes in the Main Condenser for Hamaoka Reactor No.5



[Fact]

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

[Inspection results]

□ Reactor Pressure Vessels and Structure in the Reactor

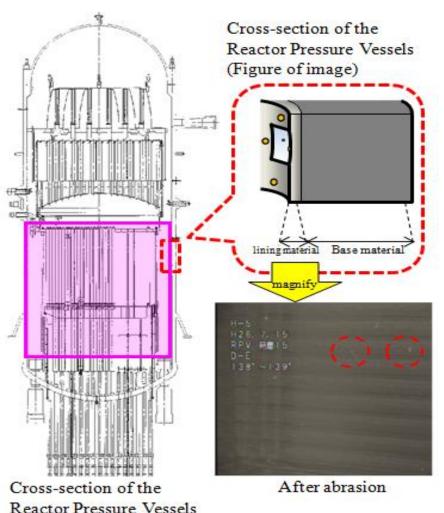
 We found parts of lined portions in the nuclear pressure vessels and in some equipment were corroded.
 However, the evaluation results showed that the control rods and neutron detectors needed to be replaced but that other devices could continue to be used.

Other Reactor and Turbine Equipment

- We found corrosion in some equipment. However, We assessed that we would be able to maintain the functions of each equipment by repairing or replacing the defective parts.

[Future plan]

- We plan to consider restoration plans such as examining the necessary specific measures toward individual devices.
- As for Reactor No.5, we will summarize the total plan, which is not only the restoration plan in the event of seawater inflow but also such as anti-tsunami measures that conform to the new regulations.
- Our total plan will be evaluated at the Nuclear Regulation Authority.



Hamaoka Nuclear Power Station <4> : Activities to Take Part in Dialogue with Local Residents



- On the Hamaoka Nuclear Power Station, we have been steadily promoting further safety measures including facilities measures and disaster prevention measures together with gaining public understanding as a package.
- The Company will endeavor more than ever to focus on interactive communication with local residents and our stakeholders by transmitting information including risks in an easy-to-understand manner and with respect, listening with sincerity to customers' voices on uncertainty and doubts, concerns and questions them respectfully.

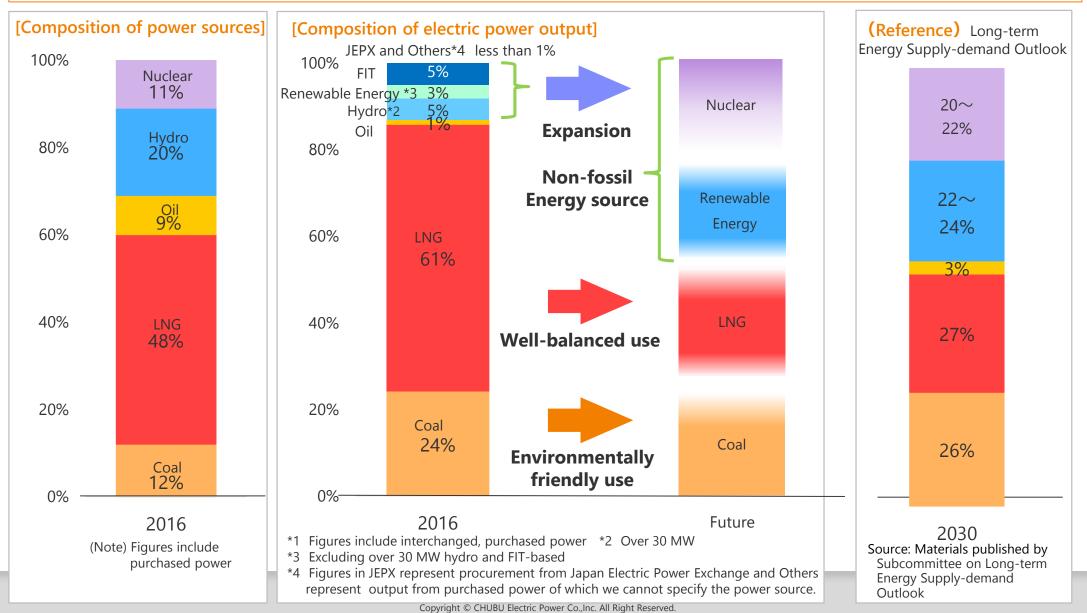
[Activities to take part in dialogue for 4 cities concerned]

Tour of the Hamaoka Nuclear Power Station	We provide opportunities to confirm the safety measures at the Hamaoka Nuclear Power S directly for local residents. In addition, we are making efforts to communicate with local re opportunities to engage in dialogue with employees who works in Hamaoka Nuclear Power Visitors : 31 thousand people in a year (Average for FY2012-FY2016)	esidents by setting up
Caravan activities	About once or twice each month the caravan team visits shopping centers and other facilit vicinity of the Hamaoka Nuclear Power Station to communicate the progress of the safety to locals and to directly ask for their opinions. FY2016 (result) : 19 times and 1,939 persons listened to our explanations.	
Visit and dialogue	We visit people living in the vicinity of the Hamaoka Nuclear Power Station to engage in d measures to as many people as possible and to solicit the opinions of local residents. Visiting targets : Approx. 84 thousand households *And we implement third round of visit and dialogue from May 2017. (Visiting result : App	
Opinion-exchange meetings	We plan and hold opinion-exchange meetings with local government and woman's organi the governments in order to exchange opinions with various organization continuously, the dialogue with people living in the vicinity <opinion-exchange "shaberi-ba"="" meetings="" targeting="" women,=""> We hold "Shaberi-ba" that is opinion-exchange meeting with women's organizations in the Hamaoka Nuclear Power Station by group work in order to share concerns and questions a FY2016 (result) : 14 times <participating by="" government="" held="" in="" meetings="" opinion-exchange="" the=""> We are making an effort to communicate with as many people as possible by participating in opinion-exchange meetings held by Omaezaki city and Makinohara city. FY2016 (result) : 23 times</participating></opinion-exchange>	ereby increasing the opportunities to engage in "Shaberi-ba" ► e vicinity of the

40 Composition of Power Sources and Electric Power Output (FY2016)



Based on energy mix of Japan, aim for optimum composition of power sources by combining various types of power source, such as nuclear power, thermal power and renewable energy, in a well-balanced manner from the standpoint of "S+3E" while taking aging of equipment into account.

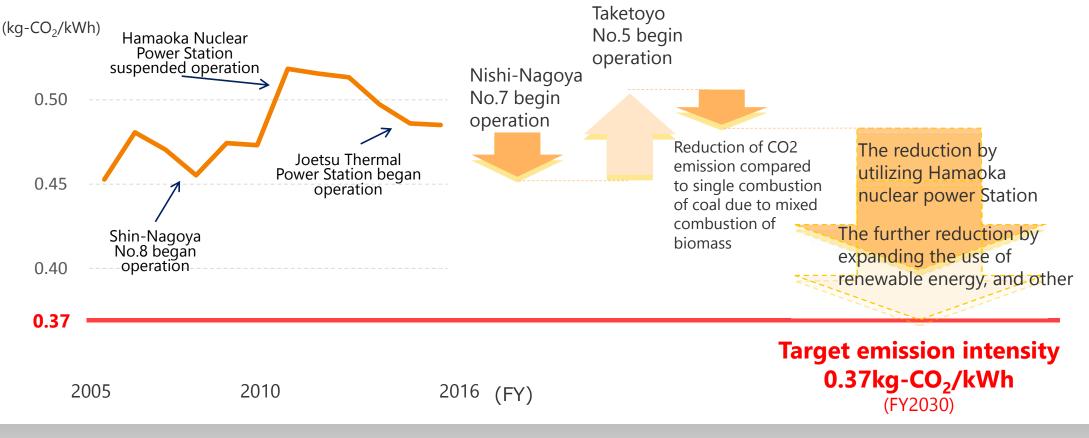


41 Responses to Global Warming ~ Reduction of CO₂ Emissions ~



- Japanese government set up the target of reducing greenhouse gas emissions (26% reduced by FY2030) as Japan's goal of the Paris Agreements, and decide the proportion of nuclear power generation and renewable energy(Non-fossil energy sources ratio is more than 44% by FY2030) to achieve the target.
- The entire electric utility industry set the target emission intensity 0.37kg-CO2/kWh (FY2030).
- In order to achieve the target, we take various actions such as making thermal power facilities highly efficient and continuously utilizing nuclear power generation which largely contributes to reduction of CO2 emission.

[Trends and outlook of CO₂ emission intensity (before reflecting CO₂ credits)]



42 Renewable Energy <1>: Our Efforts toward Promotion



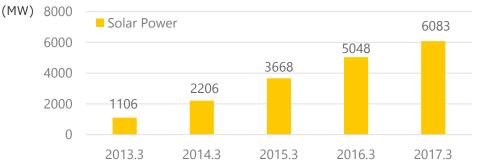
		(As c	of the end of September, 2017
		Chubu Electric	(Reference) Chubu Electric Group
	operating	196 Site : 5,453MW	Akigami : 0.29MW(FY2016)
Hydro	plan	Shin-Okuizumi : 0.29 MW (FY2017) Seinaiji : 5.6 MW (FY2022) Abekawa : 7.1 MW (FY2022) 1 Site : 1.9MW(FY2023)	Sakore : 0.38MW(FY2018) 1 Site : 0.53MW(FY2018)
Wind	Operating Plan	Omaezaki:22MW —	158MW —
Solar	Oporating	Mega Solar lida : 1.0 MW Mega Solar Shimizu : 8.0 MW Mega Solar Kawagoe : 7.5 MW	
	plan		5 Site : 18 MW (FY2017) 6 Site : 20 MW (FY2018)
Biomass	operating	Mixture of wooden chip Mixture of fuel from carbonized sewage sludge	Taki bio power : 6.7 MW (FY2016) Aichi clean : 0.549 MW (FY2016)
SSt	plan	Biomass power generation facility at Yokkaichi Thermal Power Station : 49MW	CEPO Handa biomass : 50 MW (FY2019)

* Joint businesses are recorded in their entire amount instead of by equity interest. (Reference) "Summary of electric power supply plan FY2017"

Renewable Energy <2>: Actions for Expansion of Introduction of Renewable Energy

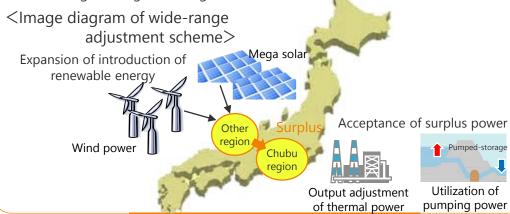


To realize energy mix of Japan, take actions for expansion of introduction of renewable energy such as efforts for adjusting supply and demand in a wide range for change of output of renewable energy and efforts for structuring distribution system to respond to change of voltage which tends to occur due to change of output.



Utilization of wide-range adjustment scheme

- When introduction of renewable energy expands, output largely changes due to weather conditions. It could be difficult to prepare all adjusted power sources for responding to such output change, in the supply area.
- Thus, expansion of introduction of renewable energy is supported such as lending electric power necessary for adjustment of supply and demand in a wide range through inter-regional interconnection lines.

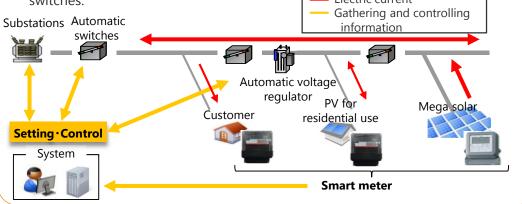


Wind Power Generation



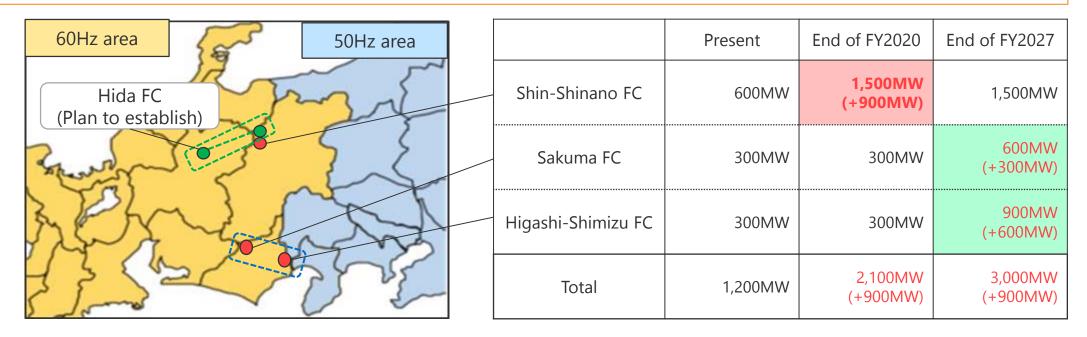
Structuring of next-generation distribution system

- When introduction of renewable energy, which has the characteristic of unstable output, expands, voltage tends to change easily. By utilizing measurement data of smart meters that are currently being installed, voltage can be precisely controlled.
- During power outage, failure zone will be kept as minimum as possible due to power outage information from smart meters and deployment of automatic switches.





- In order to stably supply electricity when power outage occurs in a wide range due to stoppage of large-scale power source, efforts will be made to increase FC by 900 MW to a total of 2,100 MW in FY2020 so that lending of electricity between regions with different frequency can be expanded.
- Furthermore, in order to increase FC to a total of 3,000 MW in FY2027, in accordance with the Cross-regional Network Development Plan drawn up in the Organization for Cross-regional Coordination of Transmission Operators, reinforcements including development of surrounding systems will be aimed for.



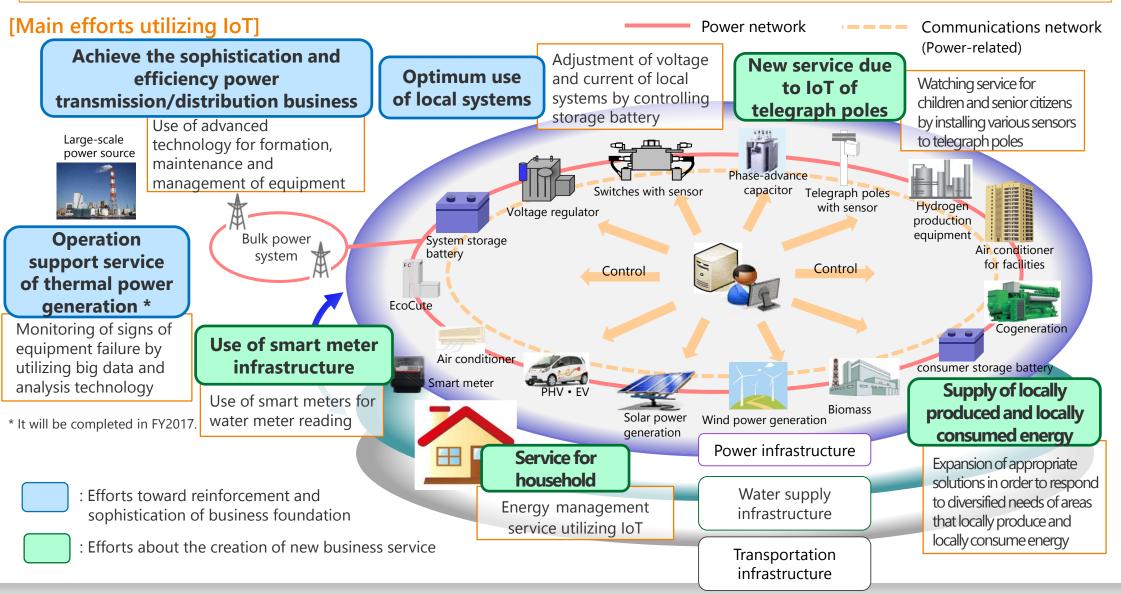
[Joint procurement and competitive ordering of equipment and materials]

- Equipment and materials intended for reinforcement of New Shinano FC are jointly procured by Chubu Electric Power and TEPCO Power Grid with the purpose of reducing procurement price due to economy of scale.
- For equipment and materials intended for reinforcement of East Shimizu FC and Sakuma FC, manufacturers desiring to make a bid will be jointly advertised for with joint procurement by Chubu Electric Power and J-POWER in mind.





ICT such as IoT, big data and AI will be utilized for reinforcement of business foundation, and examinations will be made for provision of new services.





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