The English version is a translation of the original Japanese version.

Please note that if there is any discrepancy, the Japanese version will take priority.

Summary of FY2019 Second Quarter Earnings Results



Electric Power Development Co., Ltd.

October 31, 2019

Forward Looking Statements



The following contains statements that constitute forward-looking statements, plans for the future, management targets, etc. relating to the Company and/or the J-POWER group. These are based on current assumptions of future events, and there exist possibilities that such assumptions are objectively incorrect and actual results may differ from those in the statements as a result of various factors.

Furthermore, information and data other than those concerning the Company and its subsidiaries/affiliates are quoted from public information, and the Company has not verified and will not warrant its accuracy or appropriateness.

★Display of Figures

- ✓ All figures are consolidated unless stated otherwise.
- ✓ Amounts less than 100 million yen and electric power sales volume less than 100 million kWh shown in the consolidated financial data have been rounded down. Consequently, the sum of the individual amounts may not necessarily agree with figures shown in total columns.

Contents



	Cummony of TV2010 Cocond Quarter Fornings Docults	2
	Summary of FY2019 Second Quarter Earnings Results	• • • 3
•	Key Data	4
•	FY2019 Second Quarter Earnings Results (Main Factors for Change)	••• 6
•	Revenue / Expenditure Comparison	••• 7
•	Balance Sheet	*** 8
•	Summary of FY2019 Earnings Forecast	••• 9
•	APPENDIX	••• 10

Summary of FY2019 Second Quarter Earnings Results



			(Unit:	billion yen)
Consolidated	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-or char	
Operating Revenue	424.2	461.9	37.6	8.9 %
Operating Income	47.9	49.4	1.5	3.3 %
Ordinary Income	42.6	51.4	8.7	20.6 %
Profit attributable to owners of parent	31.1	28.2	(2.9)	(9.4) %
Non-consolidated	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-or char	
Operating Revenue	315.2	286.1	(29.1)	(9.2) %
Operating Income	22.9	22.0	(0.8)	(3.8) %
Ordinary Income	34.5	49.3	14.8	42.9 %
Profit	30.2	45.1	14.8	49.2 %
Growth indicator	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-or char	
J-POWER EBITDA*1	92.0	94.7	2.7	3.0 %

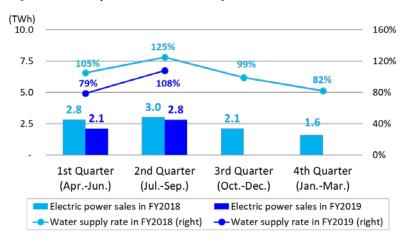
^{*1} J-POWER EBITDA = Operating income + Depreciation and amortization cost + Share of profit of entities accounted for using equity method

Key Data (Electric Power Sales)

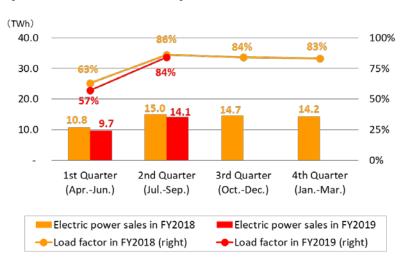


	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-on-year change
Electric Power Sales (TWh)			
Electric Power Business	33.3	34.8	1.4 4.4 %
Hydroelectric Power	5.9	4.9	(0.9) (16.2) %
Thermal Power	25.9	23.9	(2.0) (7.8) %
Wind Power	0.3	0.3	(0.0) (2.9) %
Other ^{*1}	1.1	5.6	
Overseas Business*2	5.6	8.7	3.0 54.8 %
Water supply rate	113%	91%	(22) points
Load factor *3	75%	71%	(4) points

<u>Electric Power Sales for each Quarter</u> [Domestic Hydroelectric Power]



[Domestic Thermal Power]



^{*1} Electric power sales volume of electricity procured from wholesale electricity market, etc.

^{*2} Electric power sales volume of overseas consolidated subsidiaries (Electric power sales volume of equity method affiliated companies is not included)

^{*3} Load factors of thermal power show the results for non-consolidated only

Key Data (Operating Revenue)



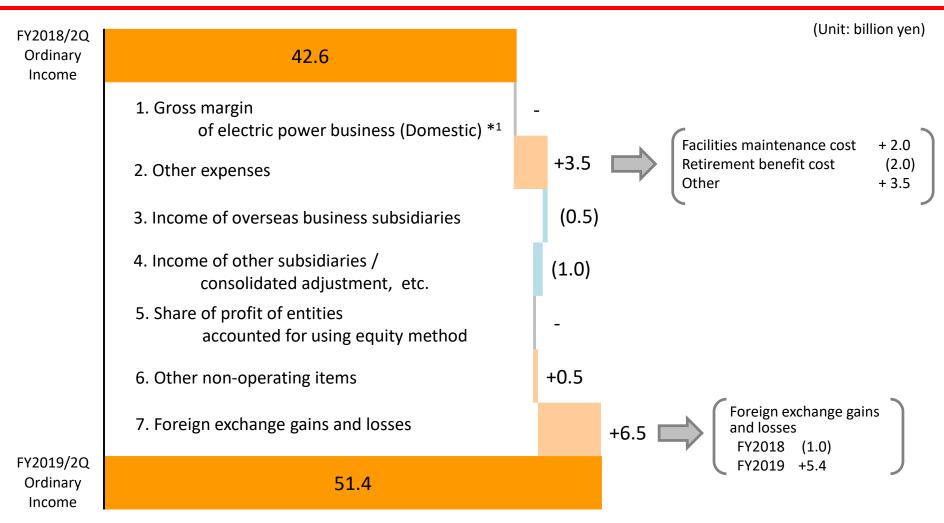
	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-on-year change	
Operating Revenue (Billion yen)	424.2	461.9	37.6	8.9 %
Electric Power Business	326.8	343.3	16.5	5.1 %
Electric Power Generation Business	301.1	316.8	15.6	5.2 %
Transmission / Transformation Business	24.9	25.0	0.1	0.5 %
Overseas Business*1	68.9	93.5	24.6	35.7 %
Other Business*2	28.4	24.9	(3.4)	(12.2) %
Foreign exchange rate at the end of June (Yen/US\$)	110.54	107.79		
Foreign exchange rate at the end of June (Yen/THB)	3.33	3.50		
Foreign exchange rate at the end of June (THB/US\$)	33.17	30.74		
Average foreign exchange rate (Yen/US\$)	110.26	108.60		

^{*1} Sales for the overseas business segment (Sales from overseas consolidated subsidiaries and overseas consulting business, etc.)

^{*2 &}quot;Other Business" is composed of "Electric Power-Related Business" segment and "Other Business" segment

FY2019 Second Quarter Earnings Results (Main Factors for Change)





In addition to the above factors, (8.9) billion yen which is equivalent to impairment loss of Birchwood project in the US is recorded as an extraordinary loss for the current fiscal year. Combined with the reversal of deferred tax liabilities of 2.4 billion yen associated with the impairment, net impact to profit attributable to owners of parent is (6.5) billion yen

^{*1} Gross margin of electric power business (Domestic): Domestic electric power business revenue (hydro, thermal, wind and other) – fuel costs, etc.

Revenue / Expenditure Comparison



(Unit: billion yen)

				(Unit: billion yen)
	FY2018 2nd Quarter (AprSep.)	FY2019 2nd Quarter (AprSep.)	Year-on-year change	Main factors for change
Operating Revenue	424.2	461.9	37.6	
Electric power business	326.8	343.3	16.5	Increase in electric power sales volume of electricity procured from wholesale electricity market, etc.
Overseas business	68.9	93.5	24.6	Increase in electric power sales volume at power generating companies in Thailand, etc
Other business	28.4	24.9	(3.4)	
Operating Expenses	376.3	412.4	36.0	Electric power business +13.0, Overseas business +25.5, Other business (2.5)
Operating Income	47.9	49.4	1.5	
Non-operating Revenue	10.2	16.2	6.0	
Share of profit of entities accounted for using equity	4.8	4.7	(0.1)	
Foreign exchange gains	-	5.4	5.4	
Other	5.4	6.0	0.6	
Non-operating Expenses	15.5	14.3	(1.2)	
Interest expenses	12.8	13.1	0.2	
Other	2.6	1.1	(1.4)	
Ordinary Income	42.6	51.4	8.7	Electric power business +1.2, Overseas business +8.8, Other business (1.9)
Extraordinary losses	-	8.9	8.9	Loss equivalent to impairment loss of Birchwood project in the US +8.9
Total income taxes	7.5	7.5	0.0	Reversal of deferred tax liabilities associated with impairment of Birchwood project (2.4)
Profit attributable to				
owners of parent	31.1	28.2	(2.9)	

Balance Sheet



(Unit: billion yen)

<u> </u>				(Unit: billion ye
	FY2018 End of FY	FY2019 End of 2Q	Change from prior year end	Main factors for change
Non-current Assets	2,401.6	2,417.5	15.9	
Electric utility plant and equipment	944.3	934.8	(9.4)	Non-consolidated (6.9), Subsidiaries and others (2.4)
Overseas business facilities	312.1	311.7	(0.3)	
Other non-current assets	94.8	92.8	(1.9)	
Construction in progress	582.0	620.2	38.1	Non-consolidated +15.9, Subsidiaries and others +22.2
Nuclear fuel	74.5	74.6	0.1	
Investments and other assets	393.7	383.1	(10.6)	
Current Assets	364.5	359.7	(4.7)	
Total Assets	2,766.1	2,777.3	11.1	
Interest-bearing debt	1,642.8	1,662.5	19.6	Non-consolidated +11.2, Subsidiaries +8.4 [Corporate bonds +10.0, Long-term loans +7.7]
Other	277.7	264.6	(13.0)	
Total Liabilities	1,920.5	1,927.1	6.5	
Shareholders' equity	777.6	798.5	20.8	Increase in retained earnings
Accumulated other comprehensive income	19.7	1.7	(18.0)	Deferred gains or losses on hedges (12.8)
Non-controlling interests	48.1	49.8	1.7	
Total Net Assets	845.5	850.1	4.5	
D/E ratio (x)	2.1	2.1	-	
Shareholders' equity ratio	28.8%	28.8%	L	

Summary of FY2019 Earnings Forecast

Consolidated

FY2019

Forecast



(Unit: billion yen)

*The earnings forecasts released on April 26, 2019 remain unchanged.

(Unit: billion yen)

Comparison with

FY2018 result

Profit

	Non-consolidated			
	FY2018 Result	FY2019 Forecast	Comparison with FY2018 result	
Operating Revenue	646.9	591.0	(55.9)	(8.6) %
Operating Income	18.6	16.0	(2.6)	(14.3) %
Ordinary Income	54.4	53.0	(1.4)	(2.6) %

52.7

51.0

(1.7)

(3.4) %

Operating Revenue	897.3	940.0	42.6	4.8 %
Operating Income	78.8	73.0	(5.8)	(7.4) %
Ordinary Income	68.5	60.0	(8.5)	(12.5) %
Profit attributable to owners of parent	46.2	42.0	(4.2)	(9.2) %
			(Unit: bi	llion yen)
	EV2040	EV2040	C =	

FY2018

Result

J-POWER EBITDA	Result 168.4	Forecast 166.0	FY2018 (2.4)	result
Growth indicator	FY2018	FY2019	Comparis	
			(Unit: bil	lion yen)

	Cash dividends per share				
	Interim	Year end Annu			
FY2018	35 yen	40 yen	75 yen		
FY2019 (Forecast)	35 yen	40 yen	75 yen		



APPENDIX

APPENDIX Contents



Initiatives Aiming at Reducing Costs	••• 12
Renewable Energy Development Projects	••• 13
New Coal-fired Power Projects in Japan	••• 14
Pohma Nuclear Power Project	••• 15
Response to the New Safety Standards at the Ohma Nuclear Power Plant	••• 16
Overseas Projects under Development	••• 19
Osaki CoolGen Project: Demonstration Test of Oxygen- blown IGCC	••• 21
Consolidated: Revenues and Expenses	••• 22
Non-consolidated: Revenues and Expenses	••• 23
Consolidated: Segment Information	••• 24
Consolidated: Cash Flow	••• 25
Consolidated: Key Ratios and Key Data	••• 26
Monthly Electricity Sales	••• 27

Initiatives Aiming at Reducing Costs



Main factors for increase in costs in resent years

- Repair and maintenance costs have increased with ageing of thermal power plants whose average age was 31 years at the end of FY2018
- > Repair and maintenance costs have increased with increasing sediment management costs at dam reservoirs
- Consignment costs and research costs have increased with promotion of initiatives in accordance with the medium-term management plan which takes major changes in business environment surrounding J-POWER group as opportunities for growth
 - ✓ Costs for investigation toward further expansion of renewable energy
 - ✓ Research costs aiming at realizing zero emission in coal use including Osaki CoolGen Project which is engaged in demonstration tests of oxygen-blown IGCC, IGFC and CO2 separation and capture
- Quality maintenance costs of equipment for construction of Ohma Nuclear Power Plant

FY2020

FY2021-

Start of operation of Takehara Thermal Power Plant New Unit No.1 (Scheduled for June 2020)

Repair and maintenance costs can be reduced compared to before replacement

Initiatives aiming at reducing costs

Considering extension of inspection interval for thermal power plants

Considering extension of periodic inspection interval which is currently every two years

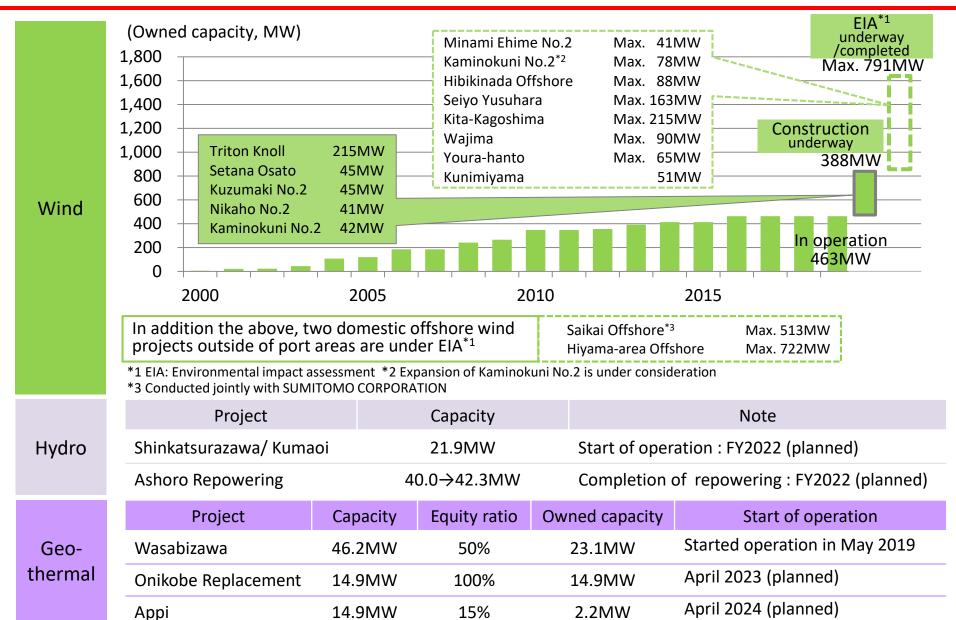
Considering rationalization of operation and maintenance system for thermal power plants

Considering dam operation and facility modification to reduce sediment volume in the dam reservoir by flowing sediment downstream

Review the necessity and ordering method regarding all costs

Renewable Energy Development Projects





New Coal-fired Power Projects in Japan

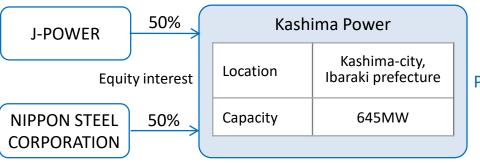


Takehara Thermal Power Plant New Unit No.1 (Replacement)

Location	Takehara-city, Hiroshima prefecture
Status	Under construction
Start of operation	Scheduled for June 2020
Capacity	600MW (Unit No.1 &2) \rightarrow 600MW (New Unit No.1) (Replacement in the same capacity)
Steam Condition	Sub-Critical → Ultra-supercritical

Kashima Power (New Capacity)

- ✓ Status: Under construction (Commenced in November 2016)
- ✓ Start of operation : Scheduled for July 2020





Power sales

TEPCO Energy Partner and others

Power supply



Yamaguchi Ube Power (New Capacity)

✓ The development plan for Yamaguchi Ube Power Project is under review due to withdrawal of one of the partners

Ohma Nuclear Power Project



- ➤ In December 2014, J-POWER submitted to NRA* an application for permission for alteration of reactor installment license and an application for construction plan approval in order to undertake review of compliance with the new safety standards
- Pursue further improvements in safety continuously
- Sincerely and appropriately respond to compliance reviews and aim to restart full scale construction work quickly
- Strive for more polite information communication and mutual communication so that we can gain the understanding and trust of the community

Overview of the Project

Location	Ohma-machi, Shimokita-gun, Aomori Prefecture
Capacity	1,383MW
Type of nuclear reactor	Advanced Boiling Water Reactor (ABWR)
Fuel	Enriched uranium and uranium-plutonium mixed oxide (MOX)
Commencement of operations	To be determined

Process (Results)

Construction commenced in May

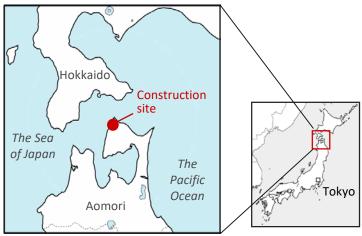
Construction resumed in October

Application for review of compliance with new safety standards in December

(Year) 2008 \rangle 2009 \rangle 2010 \rangle 2011 \rangle 2012 \rangle 2013 \rangle 2014 \rangle 2015-

Obtained permission to install nuclear reactor in April

Suspension of construction work due to Great East Japan Earthquake Disaster in March



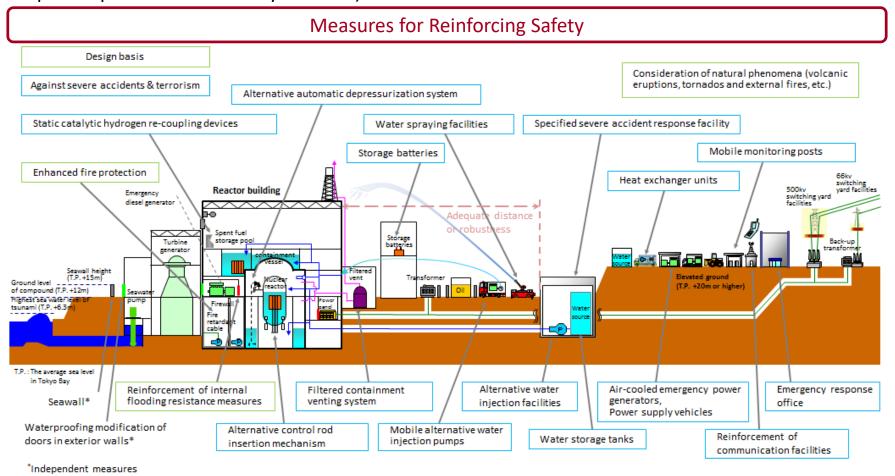


* Nuclear Regulatory Authority

Response to the New Safety Standards at the Ohma Nuclear Power Plant



- Construction Works for Measures for Reinforcing Safety
- ✓ Construction Period: From the 2nd half of 2020 to the 2nd half of 2025
- ✓ Construction Cost: Approx. 130 billion yen (The construction plan is based on J-POWER's projections, which incorporate estimations of examination and permit process durations by the NRA)





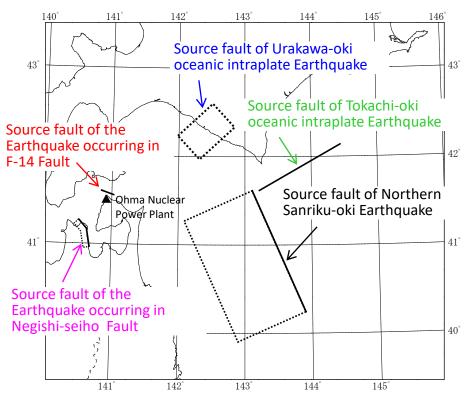
Earthquakes for Investigation

✓ Earthquakes listed below by earthquake type have been investigated

Earthquake type	Earthquake for investigation	Magnitude
Interplate earthquakes	Northern Sanriku-oki Earthquake [*]	Mw8.3
Oceanic	Urakawa-oki oceanic intraplate Earthquake	M7.5
intraplate earthquakes	Tokachi-oki oceanic intraplate Earthquake	M8.2
Inland crustal	Earthquake occurring in Negishi-seiho Fault	M7.5
earthquakes	Earthquake occurring in F-14 Fault	M6.7

^{*} Evaluation considering uncertainty of simultaneous rupture of north-off Sanriku area and off Tokachi and off Nemuro areas along Kuril trench (Mw9.0), based on experience of the 2011 off the Pacific coast of Tohoku Earthquake





Source faults of earthquakes for investigation



Standard seismic motion: (Maximum acceleration)

Horizontal 650 cm/s² Vertical 435 cm/s²

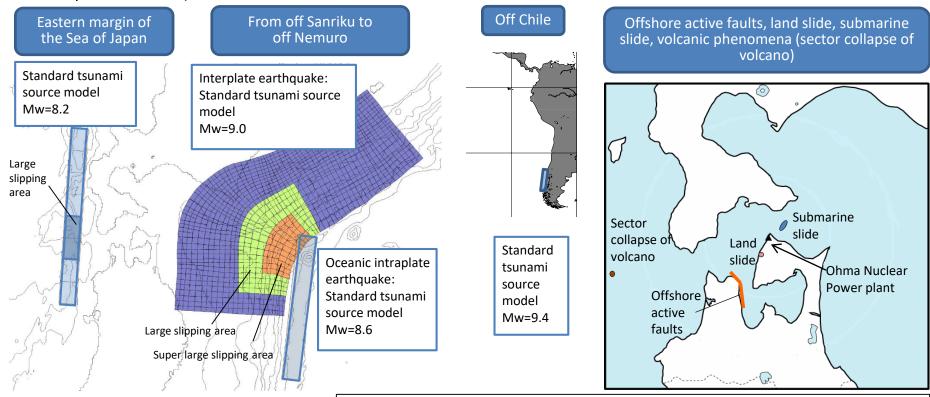
Response to the New Safety Standards at the Ohma Nuclear Power Plant

(Main Conditions)



Design Basis Tsunamis

- ✓ Tsunami source models based on the latest knowledge such as the 2011 off the Pacific coast of Tohoku Earthquake Tsunami
- ✓ Estimated earthquakes larger than ever considered as tsunami sources at the eastern margin of the Sea of Japan, from off Sanriku to off Nemuro, off Chile and offshore active faults
- ✓ Taking into consideration of non-earthquake-oriented tsunamis (caused by land slide, submarine slide, sector collapse of volcano)





The highest sea water level by design basis tsunami: approx. T.P.+6.3m The lowest sea water level by design basis tsunami: approx. T.P.-4.1m

Overseas Projects under Development (As of September 30, 2019)



[Overseas projects under Development]

Project	Туре	Output capacity (MW)	Owner- ship	Owned capacity (MW)	Power purchaser	Purchase agreement valid for	Scheduled start of operation	Status
Indonesia		2,000		680				
Central Java	Coal	2,000	34%	680	PT Perusahaan Listrik Negara*1	25 years	2020*2	Under construction
UK		860		215				
	Offshore				A fixed price is guaranteed for	15 years		
Triton Knoll	wind	860	25%	215	under UK CfD regime ^{*3}		2021	Under construction
USA		1,200		1,200				
Jackson	CCGT*4	1,200	100%	1,200	Sales at PJM*5 market	-	2022	Under construction

[Owned capacity of overseas projects (in operation)]

(MW)

(MW) 8,000	■ Thailand				■ USA ■ Chir			nina	ina ■ Other areas					
6,000														_
4,000	_												_	
2,000														
2,000														
-	FY201	.3 F	/201	.4 F	Y201	.5 F`	Y201	.6 F`	Y201	.7 F	Y201	.8 F	Y201 20	.9

			(10100)
Countries/ Regions	In operation	Under development	Total
Thailand	3,300	-	3,300
USA	2,016	1,200	3,216
China	984	-	984
Other areas	656	895	1,551
Total	6,955	2,095	9,050

^{*1} PT Perusahaan Listrik Negara: State-owned electric power utility in Indonesia

^{*2} Start of operation could possibly delay by a few months from the originally planned schedule, which is unit No.1 in Jun. 2020 and unit No.2 in Dec.2020.

^{*3} CfD regime: The CfD is an investment incentive program of UK, which will be granted to wind power generators and other low carbon electric power resources. Accredited electricity generators shall execute the CfD agreement with the LCCC (Low Carbon Contracts Company), a CfD management company owned by the British Government, and then, the parties thereto will make settlements for an electricity price based on the difference between the strike price, which is provided under the agreement, and the reference price, which is determined according to wholesale market prices from time to time.

^{*4} CCGT: Combined Cycle Gas Turbine

^{*5} PJM: The independent system operator in the Eastern US that operates the largest wholesale electricity market in the US as well as runs its electric power system.

Overseas Projects under Development (As of September 30, 2019)



Overview Location of the project **Project**

Central Java (Indonesia)

Capacity: 2,000MW

 $(1,000MW \times 2)$

Type: Coal-fired (USC)

Ownership: 34%

Status: Under construction

Start of operation*

No.1: Jun. 2020 No.2: Dec. 2020

* Possibly delayed by a few months

- IPP project (newly developed coal-fired power plant) awarded through international tender in Indonesia in 2011.
- The plan is to construct a high-efficiency coal-fired power plant in Batang city, Central Java Province.
- After startup of operation, the plant will sell electricity to Indonesia's state-owned electric power utility for a period of 25 years.



Triton Knoll (UK)

Capacity: 860MW

Type: Offshore wind

Ownership: 25%

Status: Under construction Start of operation: 2021

- Participating in an overseas offshore wind power project from the construction phase.
- A fixed price is guaranteed for 15 years under UK CfD regime.
- Taking advantage of the expertise regarding offshore wind power business obtained by participating in this project, J-POWER will accelerate its commitment to promoting its renewable energy business across the world, including Japan.



Jackson (USA)

Capacity: 1,200MW

Type: CCGT

Ownership: 100%

Status: Under construction

Start of operation: 2022

- Concluded in June 2019 to construct a new power plant next to Elwood plant now under operation
- A greenfield project to build a power plant from scratch
- Close to Chicago, a high power-demand area
- Electricity is sold in the PJM market



Osaki CoolGen Project: Demonstration Test of Oxygen- blown IGCC



Large-scale demonstration test on oxygen-blown IGCC, IGFC and CO2 separation and capture to verify total system performance aiming for commercialization*

*This demonstration test is subsidized by the New Energy and Industrial Technology Development Organization (NEDO)

Company	Osaki CoolGen Corporation (Ownership: J-POWER 50%, Chugoku Electric	Output	166MW		
Location	Chugoku Electric Power Company Osaki Power Station premises (Hiroshima)	Generation type	, .	-blown IGC bine: 1,300	



Demonstration Test Schedule

Fiscal year	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Phase 1 : Demonstration of Oxygen-blown IGCC demonstration		Design/mar	nufacture/ins	stallation		Demonstra tests	ation				
Phase 2 : Demonstration of Oxygen-blown IGCC with CO2 separation and capture					Design	/manufactu	re/installatio	on De	monstration		
Phase 3 : Demonstration of IGFC with CO2 separation and capture								Design/mai	nufacture/in	stallation	Demonstrat tests

Phase 1 demonstration tests completed in February 2019, achieving targets in all testing items

- ◆ Net efficiency reached 40.8% (HHV) (gross efficiency 48.1%), which stands at world top level as 170 MW-class demonstration plant
 - ⇒ Gaining perspective for approx. 46% of net efficiency (approx. 53% of gross efficiency) at an oxygen-blown IGCC commercial plant with 1500°C-class gas turbine, which enables CO2 emission reduction by around 15% compared with USC (USC is currently the most efficient commercialized coal-fired thermal power)
- Results of load change rate approx. 16%/minute*1 and stable operation at 0MW net output*2 prove quick output control ability
 - ⇒ Demonstrating high flexibility in operation, which enables supplement for sudden output changes in renewables
- IGCC (Integrated Coal Gasification Combined Cycle): An integrated power generation system with a twin-turbine configuration; the gas produced from coal is used as fuel to drive a gas turbine, the exhaust gas from which and others is used to drive a steam turbine. There are oxygen-blown type and air-blown type depending on kind of gas supplied to gasifier when coal is gasified. Oxygen-blown IGCC is said to be more efficient when operated with CO₂ separation and capture facilities
- IGFC (Integrated Coal Gasification Fuel Cell Combined Cycle): Power generation system combining fuel cells with gas and steam turbines in a triply integrated configuration, which will be able to achieve the highest efficiency as a coal-fired generation technology

^{*1} Output change rate to rated load per minute. Larger figure shows higher ability of quick output change in response to change of electricity demand.

^{*2} Net output represents MW of generator minus MW consumed in the plant itself. OMW net output means generating the same volume of electricity as consumed in the plant.

Consolidated: Revenues and Expenses



(Unit: 100 million yen)

					·	100 million yen)
	FY2015	FY2016	FY2017	FY2018	FY2018 2Q	FY2019 2Q
Operating revenue	7,800	7,444	8,562	8,973	4,242	4,619
Electric utility operating revenue	5,708	5,385	6,319	6,937	3,268	3,433
Overseas business operating revenue	1,559	1,498	1,630	1,410	689	935
Other business operating revenue	532	559	612	625	284	249
Operating expenses	6,921	6,626	7,519	8,185	3,763	4,124
Operating income	879	817	1,043	788	479	494
Non-operating revenue	178	205	291	188	102	162
Share of profit of entities accounted for using equity method	108	132	97	96	48	47
Other	69	72	193	92	54	115
Non-operating expenses	472	351	309	292	155	143
Interest expenses	304	297	283	263	128	131
Other	167	53	25	28	26	11
Ordinary income	585	671	1,024	685	426	514
Extraordinary income	-	-	-	-	-	-
Extraordinary losses	-	-	33	-	-	89
Profit attributable to owners of parent	400	414	684	462	311	282

Non-consolidated: Revenues and Expenses



(Unit: 100 million yen)

					·	100 million yen)
	FY2015	FY2016	FY2017	FY2018	FY2018 2Q	FY2019 2Q
Operating revenue	5,523	5,224	6,145	6,469	3,152	2,861
Electric power business	5,430	5,109	6,014	6,336	3,074	2,820
Sold power to other suppliers	4,902	4,579	5,456	5,806	2,808	2,554
Transmission and other	527	529	558	529	265	266
Incidental business	93	115	131	133	78	40
Operating expenses	5,107	4,948	5,715	6,282	2,923	2,640
Electric power business	5,023	4,842	5,593	6,157	2,849	2,603
Personnel expense	318	436	342	324	160	175
Amortization of the actuarial difference in retirement benefits	(23)	107	(1)	(14)	(7)	12
Fuel cost	2,184	1,968	2,573	2,890	1,335	1,147
Repair and maintenance cost	583	683	634	697	369	350
Depreciation and amortization cost	734	496	534	510	252	260
Other	1,202	1,257	1,508	1,734	731	670
Incidental business	84	105	122	125	73	36
Operating income	415	276	430	186	229	220

Consolidated: Segment Information



(Unit: 100 million yen)

		Electric power	Electric power -related	Overseas	Other	Subtotal	Elimination*	Consolidated
FY2019	Sales	3,442	1,688	935	103	6,170	(1,551)	4,619
2Q	Sales to customers	3,433	163	935	86	4,619	-	4,619
	Ordinary income	210	68	226	2	508	5	514
FY2018	Sales	3,277	1,973	689	142	6,082	(1,839)	4,242
2Q	Sales to customers	3,268	157	689	127	4,242	-	4,242
	Ordinary income	198	85	138	6	428	(1)	426
year-on-year	Sales	164	(284)	246	(38)	87	288	376
change	Sales to customers	165	5	246	(40)	376	-	376
	Ordinary income	12	(16)	88	(3)	80	7	87

"Electric Power Business"

Mainly J-POWER group's electric power generation business and transmission/ transformation business. The majority of consolidated revenue is derived from this segment.

"Electric Power-Related business"

This focuses on peripheral business essential for the operation of power plants and transmission facilities, such as designing, executing, inspecting and maintaining power facilities and importing and transporting coal. Intra-group transactions account for a large portion of this segment, such as Company's power plant maintenance, coal transportation activities.

"Overseas business"

Overseas power generation business, overseas engineering and consulting business

"Other business"

Diversified business such as telecommunication, environmental and the sale of coal

* Elimination includes elimination of intersegment sales

Consolidated: Cash Flow



(Unit: 100 million yen)

	FY2015	FY2016	FY2017	FY2018	FY2018 2Q	FY2019 2Q
Operating activities	1,461	1,154	1,603	1,484	486	554
Profit before income taxes	584	671	990	685	426	424
Depreciation and amortization	945	756	822	799	392	404
Share of (profit) loss of entities accounted for using equity method	(108)	(132)	(97)	(96)	(48)	(47)
Investing activities	(1,315)	(1,376)	(1,096)	(1,704)	(925)	(813)
Purchase of non-current assets	(1,408)	(1,081)	(988)	(1,060)	(445)	(700)
Payments of investment and loans receivable	(25)	(180)	(81)	(744)	(571)	(95)
Free cash flow	145	(222)	506	(220)	(439)	(259)

Consolidated: Key Ratios and Key Data



(Unit: 100 million yen)

						(Unit:	100 million yen)
		FY2015	FY2016	FY2017	FY2018	FY2018 2Q	FY2019 2Q
(PL)	Operating revenue	7,800	7,444	8,562	8,973	4,242	4,619
	Operating income	879	817	1,043	788	479	494
	Ordinary income	585	671	1,024	685	426	514
	Profit attributable to owners of parent	400	414	684	462	311	282
(BS)	Total assets	25,407	26,062	26,470	27,661	27,314	27,773
	Construction in progress	4,410	4,761	5,257	5,820	5,338	6,202
	Shareholders' equity	6,665	7,238	7,872	7,974	8,055	8,002
	Net assets	6,754	7,640	8,361	8,455	8,525	8,501
	Interest-bearing debt	16,287	16,200	15,613	16,428	16,376	16,625
(CF)	Investing activities	(1,315)	(1,376)	(1,096)	(1,704)	(925)	(813)
	Free cash flow	145	(222)	506	(220)	(439)	(259)
	(Ref) Non-consolidated CAPEX*1	(1,063)	(998)	(941)	(889)	(366)	(355)
	(Ref) Non-consolidated depreciation	734	496	534	510	252	260
ROA ((%)	2.3	2.6	3.9	2.5	-	-
ROA (ROA excl. Construction in progress) (%)	2.8	3.2	4.8	3.2	-	-
ROE (%)	5.9	6.0	9.1	5.8	-	-
EPS (¥)	218.97	226.33	373.93	252.68	169.98	154.07
BPS (¥)	3,641.59	3,954.22	4,300.98	4,356.54	4,400.72	4,372.03
Share	holders' equity ratio (%)	26.2	27.8	29.7	28.8	29.5	28.8
D/E ra	atio (x)	2.4	2.2	2.0	2.1	2.0	2.1
Numl	per of shares issued*2 (thousand)	183,049	183,049	183,049	183,048	183,049	183,048

^{*1} Non-consolidated capital expenditure: Increase in tangible and intangible noncurrent assets

^{*2} Number of shares issued at the end of the fiscal year (excluding treasury stock)

Monthly Electricity Sales:





Apr. 2018 - Sep. 2018 Results (Cumulative)

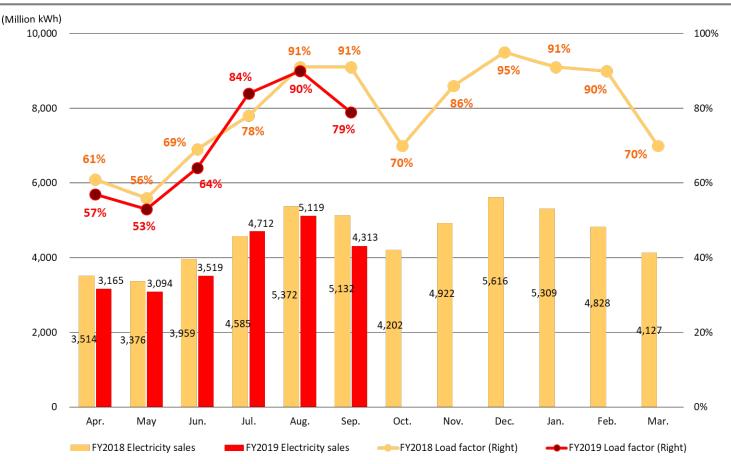
Load factor \Rightarrow 75%

Electricity sales ⇒ 25.9 TWh

Apr. 2019 - Sep. 2019 Results (Cumulative)

Load factor \Rightarrow 71%

Electricity sales ⇒ 23.9 TWh



^{*} Load factors of thermal power show the results for non-consolidated only.

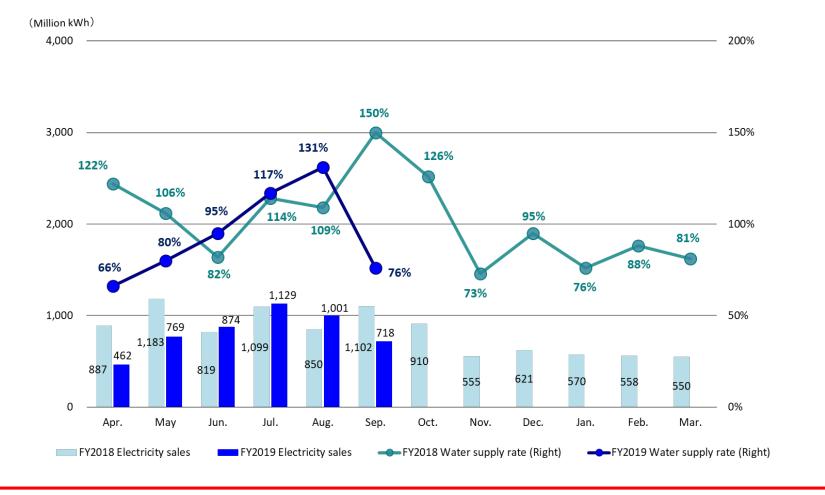
^{*} Proportion of equity holding is not taken into account.

Monthly Electricity Sales:

POWE

Domestic Power Generation Business (Hydroelectric Power)

- Apr. 2018 Sep. 2018 Results (Cumulative)
 Water supply rate ⇒ 113%
 Electricity sales ⇒ 5.9 TWh
- Apr. 2019 Sep. 2019 Results (Cumulative)
 Water supply rate ⇒ 91%
 Electricity sales ⇒ 4.9 TWh

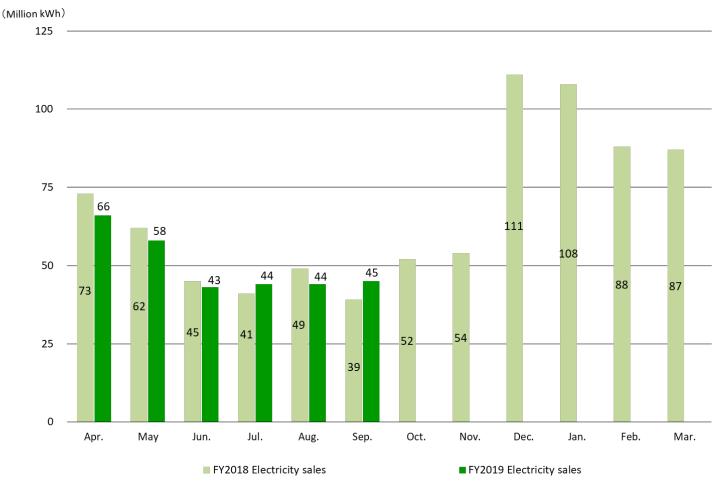


Monthly Electricity Sales:



Domestic Power Generation Business (Wind Power)

- Apr. 2018 Sep. 2018 Results (Cumulative) ⇒ 0.31TWh
- ► Apr. 2019 Sep. 2019 Results (Cumulative) ⇒ 0.30TWh



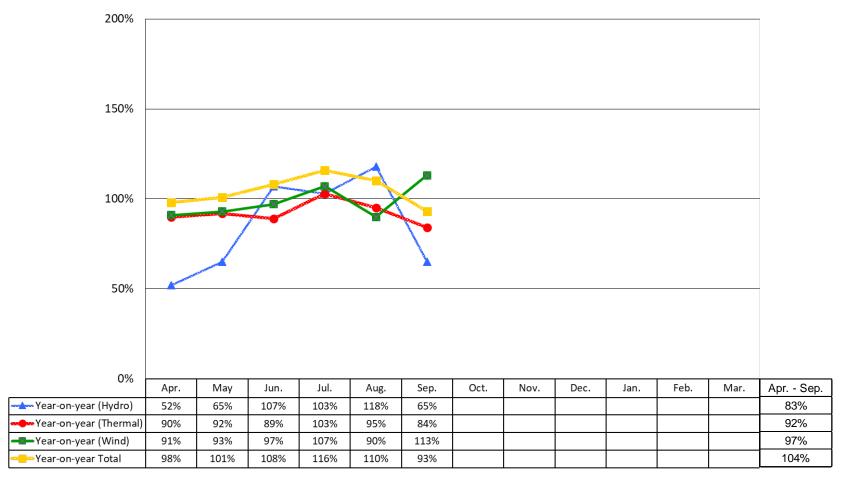
^{*} Proportion of equity holding is not taken into account.

Change in Monthly Electricity Sales:





- Apr. 2018 Sep. 2018 Total Results (Cumulative) ⇒ 33.3 TWh
- Apr. 2019 Sep. 2019 Total Results (Cumulative) ⇒ 34.8 TWh



^{*} Total volume includes electricity sales volume of hydro, thermal, wind and electricity procured from wholesale electricity market, etc.





電源開発株式会社

http://www.jpower.co.jp/english/