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 FY2020 Earnings Results



Electric Power Development Co., Ltd.

April 30, 2021



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.

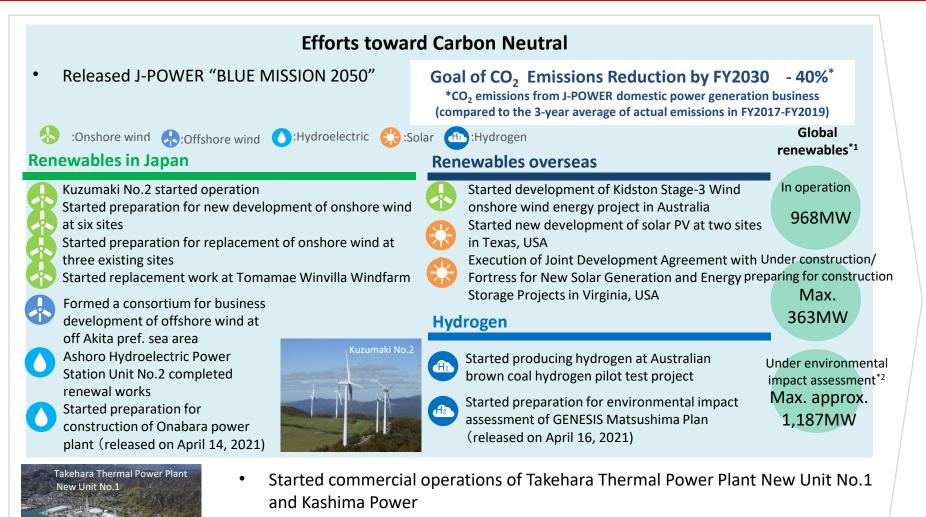
Furthermore, information and data other than those concerning the Company and its subsidiaries/affiliates are quoted from public information, and the Company has not verified and will not warrant its accuracy or appropriateness.

X 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.

Major Progress in FY2020 Aiming for Profit Growth





- Expanded virtual power plant construction business
- Improved operation system for thermal power plants
- Decided to sell interests in Taiwan gas-fired thermal power IPP project

*1 Owned capacity basis

*2 In addition, domestic offshore wind projects outside of port areas (3 projects, max. 1,585MW in total) are under preparation for development and one geothermal project is under research for development

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I. Summary of FY2020 Earnings Results

Summary of FY2020 Earnings Results



(Unity hillion yon)

					(Unit: billion yen)
Consolidated	FY2019 (AprMar.)	FY2020 (AprMar.)	Year-on-year change	FY2020 Forecast ^{*1} (AprMar.)	Comparison with the forecast
Operating Revenue	913.7	909.1	(4.6) (0.5)%	910.0	(0.8) (0.1)%
Operating Income	83.6	77.7	(5.8) (7.0)%	70.0	7.7 11.1%
Ordinary Income	78.0	60.9	(17.1) (22.0)%	54.0	6.9 12.8%
Profit attributable to owners of parent	42.2	22.3	(19.9) (47.2)%	39.0	(16.6) (42.8)%
Non-consolidated	FY2019 (AprMar.)	FY2020 (AprMar.)	Year-on-year change	FY2020 Forecast ^{*2} (AprMar.)	Comparison with the forecast
Operating Revenue	571.2	589.9	18.6 3.3 %	584.0	5.9 1.0%
Operating Income	24.8	77.8	52.9 212.8%	72.0	5.8 8.1%
Ordinary Income	60.5	114.0	53.4 88.2 %	106.0	8.0 7.6 %
Profit	57.3	15.5	(41.8) (72.9)%	11.0	4.5 41.2 %
Growth Indicator	FY2019 (AprMar.)	FY2020 (AprMar.)	Year-on-year change	FY2020 Forecast ^{*1} (AprMar.)	Comparison with the forecast
J-POWER EBITDA ^{*3}	177.9	176.9	(0.9) (0.6)%	173.0	3.9 2.3 %

*1 Consolidated earnings forecast released on February 26, 2021 *2 Non-consolidated earnings forecast released on March 31, 2021

*3 J-POWER EBITDA = Operating income + Depreciation and amortization + Share of profit of entities accounted for using equity method

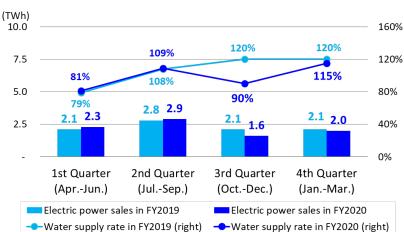
Note On April 1, 2020, J-POWER's transmission and transformation business was transferred to a wholly owned subsidiary, J-POWER Transmission Network Co., Ltd. by company split. This transaction negatively impacted the non-consolidated operating revenue, operating income, ordinary income and profit for FY2020, while there was no impact on the consolidated earnings results.



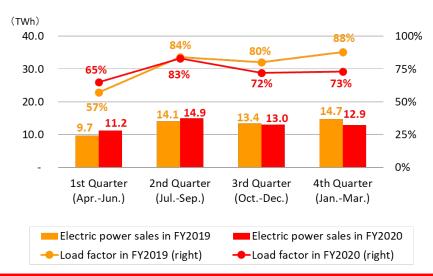
	FY2019 (AprMar.)	FY2020 (AprMar.)	Year-on-year change		
Electric Power Sales (TWh)					
Electric Power Business	73.1	74.5	1.4 2.0 %		
Hydroelectric Power	9.1	8.9	(0.2) (3.2)%		
Thermal Power	52.0	52.1	0.0 0.2 %		
Wind Power	0.8	1.2	0.3 40.1 %		
Other ^{*1}	11.0	12.3	1.2 11.7 %		
Overseas Business ^{*2}	15.6	11.0	(4.5) (29.0)%		
Water supply rate	101%	96%	(5) points		
Load factor *3	77%	75%	(2) points		

- *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.

Electric Power Sales for each Quarter



[Domestic Thermal Electric Power Business]



[Domestic Hydroelectric Power Business]

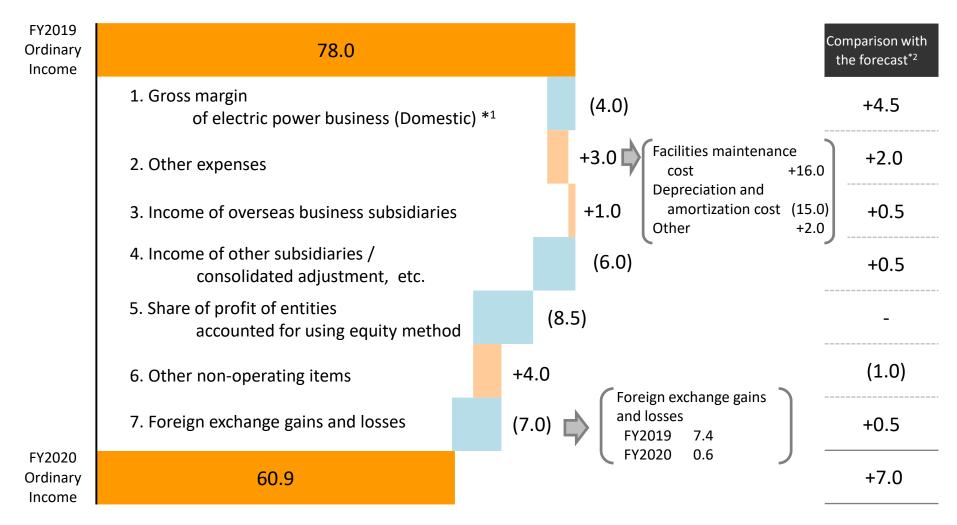


	FY2019 (AprMar.)	FY2020 (AprMar.)		on-year nge
Operating Revenue (Billion yen)	913.7	909.1	(4.6)	(0.5)%
Electric Power Business	684.1	731.3	47.1	6.9 %
Electric Power Generation Business	631.0	670.9	39.9	6.3 %
Transmission / Transformation Business	49.6	49.6	0.0	0.0 %
Overseas Business ^{*1}	179.0	138.0	(41.0)	(22.9)%
Other Business ^{*2}	50.5	39.7	(10.7)	(21.3)%
Foreign exchange rate at the end of December (Yen/US\$)	109.56	103.50		
Foreign exchange rate at the end of December (Yen/THB)	3.63	3.44		
Foreign exchange rate at the end of December (THB/US\$)	30.15	30.04		

*1 Sales for the overseas business segment (Sales from overseas consolidated subsidiaries and overseas consulting business, etc.) *2 "Other Business" is composed of "Electric Power-Related Business" segment and "Other Business" segment.

POWER

(Unit: billion yen)



*1 Gross margin of electric power business (Domestic) : Domestic electric power business revenue (hydro, thermal, wind and other) – fuel costs, etc. *2 Forecast released on February 26, 2021



(Unit: billion yen)

	FY2019 (AprMar.)	FY2020 (AprMar.)	Year-on-year change	Main factors for change
Operating Revenue	913.7	909.1	(4.6)	
Electric power business	684.1	731.3	47.1	Soared electricity trading prices at JEPX from late December 2020 to January 2021, etc.
Overseas business	179.0	138.0	(41.0)	Decrease in electric power sales volume, etc.
Other business	50.5	39.7	(10.7)	Decreased revenue at an Australian coal mine investment subsidiary, etc.
Operating Expenses	830.1	831.3	1.2	Electric power business +46.5, Overseas business (42.6), Other business (2.6)
Operating Income	83.6	77.7	(5.8)	
Non-operating Revenue	26.5	11.2	(15.3)	
Share of profit of entities accounted for using equity method	11.3	2.7	(8.5)	
Other	15.2	8.4	(6.7)	
Non-operating Expenses	32.0	28.0	(4.0)	
Interest expenses	26.2	23.7	(2.5)	
Other	5.7	4.3	(1.4)	
Ordinary Income	78.0	60.9	(17.1)	Electric power business (8.3), Overseas business (3.0), Other business (5.7)
Extraordinary income	-	9.4	9.4	Gain on the sale of shares of Taiwan Chiahui Power Corporation +9.4
Extraordinary losses	12.4	5.7	(6.7)	Elimination of loss equivalent to impairment loss of Birchwood project in the US (8.9), etc.
Total income taxes	11.9	33.4	21.5	Increase in taxable income due to increased non-consolidated operating income, etc.
Profit attributable to owners of parent	42.2	22.3	(19.9)	



(Unit: billion yen)

	FY2019 End of FY	FY2020 End of FY	Change from prior year end	Main factors for change
Non-current Assets	2,471.3	2,475.2	3.8	
Electric utility plant and equipment	965.0	1,107.3	142.3	Non-consolidated (45.8), Subsidiaries and others +188.1
Overseas business facilities	316.3	286.9	(29.3)	
Other non-current assets	90.9	91.1	0.1	
Construction in progress	647.1	588.2	(58.9)	Non-consolidated (155.1), Subsidiaries and others +96.2
Nuclear fuel	74.8	75.3	0.5	
Investments and other assets	377.0	326.1	(50.8)	Long-term investments (36.2)
Current Assets	334.0	366.7	32.7	
Total Assets	2,805.3	2,841.9	36.5	
Interest-bearing debt	1,648.4	1,664.6	16.2	Non-consolidated (1.7), Subsidiaries +17.9 [Commercial papers +20.0]
Other	299.5	323.5	24.0	Accured taxes +24.4
Total Liabilities	1,948.0	1,988.2	40.2	
Shareholders' equity	806.1	814.7	8.5	Increase in retained earnings
Accumulated other comprehensive income	1.5	(5.6)	(7.1)	Foreign currency translation adjustment (13.3), Remeasurements of defined benefit plans +11.8, Deferred gains or losses on hedges (10.7)
Non-controlling interests	49.6	44.5	(5.0)	
Total Net Assets	857.3	853.6	(3.7)	
D/E ratio (x) Shareholders' equity ratio	2.0 28.8%	2.1 28.5%		



II. Summary of FY2021 Earnings Forecast



			(Unit: bil			(Unit: bil	lion yen)			
		Consolid	ated				Non-consolidated			
	FY2020 Result	FY2021 Forecast	Comparis FY2020	son with result		FY2020 Result	FY2021 Forecast	Comparis FY2020		
Operating Revenue	909.1	842.0	(67.1)	(7.4)%	Operating Revenue	589.9	514.0	(75.9)	(12.9)%	
Operating Income	77.7	59.0	(18.7)	(24.1)%	Operating Income	77.8	6.0	(71.8)	(92.3)%	
Ordinary Income	60.9	50.0	(10.9)	(17.9)%	Ordinary Income	114.0	41.0	(73.0)	(64.0)%	
Profit attributable to owners of parent	22.3	34.0	11.6	52.4%	Profit	15.5	41.0	25.4	164.0 %	

	Cash dividends per share					
	Interim Year end		Annual			
FY2020	35 yen	40 yen	75 yen			
FY2021 (Forecast)	35 yen	40 yen	75 yen			



	FY2020 Result	FY2021 Forecast	Comparis FY2020			FY2020 Result	FY2021 Forecast
Electric Power Sales (TWh)					Water supply rate	96%	100%
Electric Power Business	74.5	71.8	(2.7)	(3.6)%	Load factor	75%	65%
Hydroelectric Power	8.9	9.1	0.2	3.2 %	Foreign exchange rate at term end		
Thermal Power	52.1	46.0	(6.0)	(11.7)%	Yen/USD	103.50	105.00
Wind Power	1.2	1.1	(0.0)	(2.7)%	Yen/THB	3.44	3.60
Other ^{*1}	12.3	15.4	3.1	25.5 %	THB/USD	30.04	30.04
Overseas Business ^{*2}	11.0	10.8	(0.2)	(1.8)%			
Operating Revenue (Billion yen)	909.1	842.0	(67.1)	(7.4)%			
Electric Power Business	731.3	658.0	(73.3)	(10.0)%			
Electric Power Generation Business	670.9	598.0	(72.9)	(10.9)%			
Transmission/Transformation Business	49.6	49.0	(0.6)	(1.4)%			
Overseas Business ^{*3}	138.0	136.0	(2.0)	(1.5)%			
Other Business ^{*4}	39.7	47.0	7.2	18.2 %			

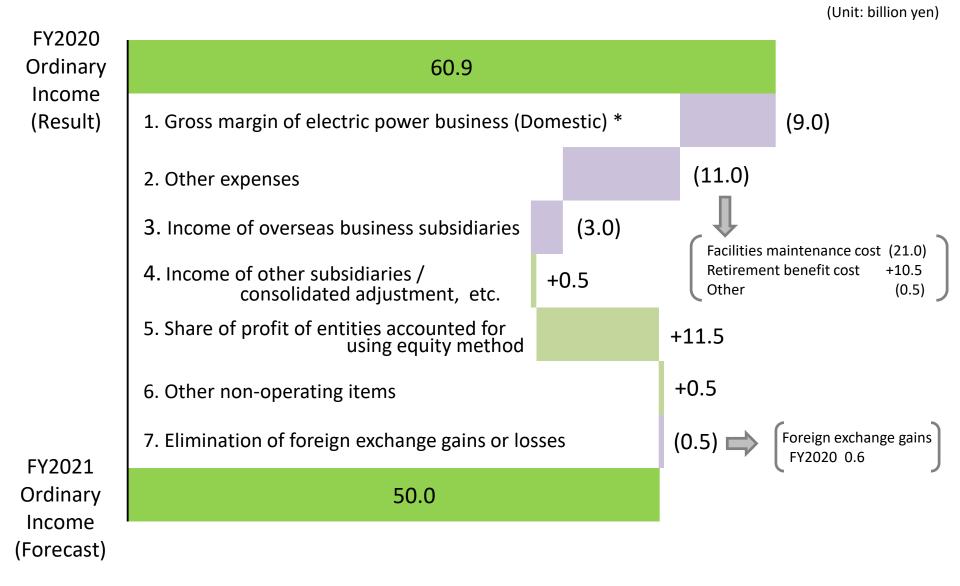
*1 Electric power sales volume of electricity procured from wholesale electricity market, etc.

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

*3 Sales for the overseas business segment (Sales from overseas consolidated subsidiaries and overseas consulting business, etc.)

*4 "Other business" is composed of "Electric power-related business" segment and "Other business" segment.





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

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	(Unit: 1				
	FY2016	FY2017	FY2018	FY2019	FY2020
Operating revenue	7,444	8,562	8,973	9,137	9,091
Electric utility operating revenue	5,385	6,319	6,937	6,841	7,313
Overseas business operating revenue	1,498	1,630	1,410	1,790	1,380
Other business operating revenue	559	612	625	505	397
Operating expenses	6,626	7,519	8,185	8,301	8,313
Operating income	817	1,043	788	836	777
Non-operating revenue	205	291	188	265	112
Share of profit of entities accounted for using equity method	132	97	96	113	27
Other	72	193	92	152	84
Non-operating expenses	351	309	292	320	280
Interest expenses	297	283	263	262	237
Other	53	25	28	57	43
Ordinary income	671	1,024	685	780	609
Extraordinary income	-	-	-	-	94
Extraordinary losses	-	33	-	124	57
Profit attributable to owners of parent	414	684	462	422	223



				(Unit: 1	LOO million yen)
	FY2016	FY2017	FY2018	FY2019	FY2020
Operating activities	1,154	1,603	1,484	1,592	1,679
Profit before income taxes	671	990	685	655	646
Depreciation and amortization	756	822	799	830	964
Share of (profit) loss of entities accounted for using equity method	(132)	(97)	(96)	(113)	(27)
Investing activities	(1,376)	(1,096)	(1,704)	(1,617)	(1,432)
Purchase of non-current assets	(1,081)	(988)	(1,060)	(1,495)	(1,592)
Payments of investment and loans receivable	(180)	(81)	(744)	(109)	(25)
Free cash flow	(222)	506	(220)	(24)	246



(Unit: 100 million yen)

		Electric power	Electric power -related	Overseas	Other	Subtotal	Elimination*	Consolidated
FY2020	Sales	7,334	3,741	1,380	184	12,641	(3,550)	9,091
	Sales to customers	7,313	247	1,380	149	9,091	-	9,091
	Ordinary income	190	122	308	10	633	(24)	609
FY2019	Sales	6,860	4,005	1,790	221	12,878	(3,740)	9,137
	Sales to customers	6,841	319	1,790	185	9,137	-	9,137
	Ordinary income	274	185	339	5	805	(24)	780
year-on-year change	Sales	474	(263)	(410)	(37)	(236)	190	(46)
J	Sales to customers	471	(72)	(410)	(35)	(46)	-	(46)
	Ordinary income	(83)	(62)	(30)	4	(172)	0	(171)

"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"

These focus 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

(1)-4. Consolidated: Key Ratios and Key Data



					(Unit	: 100 million yen)
		FY2016	FY2017	FY2018	FY2019	FY2020
(PL)	Operating revenue	7,444	8,562	8,973	9,137	9,091
	Operating income	817	1,043	788	836	777
	Ordinary income	671	1,024	685	780	609
	Profit attributable to owners of parent	414	684	462	422	223
(BS)	Total assets	26,062	26,470	27,661	28,053	28,419
	Construction in progress	4,761	5,257	5,820	6,471	5,882
	Shareholders' equity	7,238	7,872	7,974	8,077	8,091
	Net assets	7,640	8,361	8,455	8,573	8,536
	Interest-bearing debt	16,200	15,613	16,428	16,484	16,646
(CF)	Investing activities	(1,376)	(1,096)	(1,704)	(1,617)	(1,432)
	Free cash flow	(222)	506	(220)	(24)	246
	(Ref) CAPEX* ¹	(1,058)	(987)	(1,077)	(1,626)	(1,715)
	(Ref) Depreciation and amortization	756	822	799	830	964
ROA (%)	2.6	3.9	2.5	2.8	2.2
ROA (I	ROA excl. Construction in progress) (%)	3.2	4.8	3.2	3.6	2.8
ROE (9	%)	6.0	9.1	5.8	5.3	2.8
EPS (¥)	226.33	373.93	252.68	230.96	121.85
BPS (¥)	3,954.22	4,300.98	4,356.54	4,412.84	4,420.39
Share	holders' equity ratio (%)	27.8	29.7	28.8	28.8	28.5
D/E ra	tio (x)	2.2	2.0	2.1	2.0	2.1
Numb	per of shares issued ^{*2} (thousand)	183,049	183,049	183,048	183,048	183,048

*1 Capital expenditure: Increase in tangible and intangible non-current assets

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

(1)-5. Non-consolidated: Revenues and Expenses



				(Unit: 1	.00 million yen)
	FY2016	FY2017	FY2018	FY2019	FY2020
perating revenue	5,224	6,145	6,469	5,712	5,899
Electric power business	5,109	6,014	6,336	5,638	5,838
Sold power to other suppliers	4,579	5,456	5,806	5,104	5,660
Other ^{*1}	529	558	529	533	177
Incidental business	115	131	133	74	61
perating expenses	4,948	5,715	6,282	5,464	5,120
Electric power business	4,842	5,593	6,157	5,397	5,065
Personnel expense	436	342	324	358	318
Amortization of the actuarial difference in retirement benefits	107	(1)	(14)	24	28
Fuel cost	1,968	2,573	2,890	2,332	1,937
Repair and maintenance cost	683	634	697	666	441
Depreciation and amortization cost	496	534	510	527	552
Other	1,257	1,508	1,734	1,512	1,814
Incidental business	105	122	125	66	55
perating income	276	430	186	248	778

*1 "Other" shows transmission revenue and other electricity revenue. Due to the split of transmission business in April, 2020, "Other" for FY2020 shows only other electricity revenue



					(Unit:	100 million yen)
(Amortizatio	n of the actuarial difference】	FY2016	FY2017	FY2018	FY2019	FY2020
Actuarial difference	The remainder in the previous year (c)	(10)	49	(0)	(6)	11
	Actuarial difference in the previous year	167	(51)	(20)	42	31
	Subtotal (a)	156	(1)	(21)	35	42
Amortization	*(b)	107	(1)	(14)	24	28
The remainder in the present year (c=a-b)		49	(0)	(6)	11	13

(Unit: 100 million yen)

[Repair and maintenance cost]	FY2016	FY2017	FY2018	FY2019	FY2020
Hydroelectric	119	119	168	129	134
Thermal	507	460	452	472	290
Transmission	39	39	59	48	-
Others	17	15	16	16	16
Total	683	634	697	666	441

(Unit: 100 million yen)

[Depreciation and amortization cost]	FY2016	FY2017	FY2018	FY2019	FY2020
Hydroelectric	132	151	143	147	155
Thermal	230	243	230	239	356
Transmission	100	105	100	102	-
Others	33	34	35	37	40
Total	496	534	510	527	552

* Actuarial difference is amortized by the declining-balance method over two years from the year following the year in which they occurred.

(1)-6. Non-consolidated: Balance Sheet



	(Unit: million yer	
	FY2019	FY2020
	End of FY	End of F
sets		
Non-current assets	2,252,958	2,060,08
Electric utility plant and equipment	916,563	870,73
Hydroelectric power production facilities	367,545	371,30
Thermal power production facilities	303,682	434,6
Transmission facilities	150,839	
Transformation facilities	30,175	
Communication facilities	9,312	7,8
General facilities	55,007	56,98
Incidental business facilities	2,507	2,50
Non-operating facilities	505	69
Construction in progress	591,528	436,3
Construction in progress	589,775	436,3
Retirement in progress	1,753	
Nuclear fuel	74,812	75,3
Nuclear fuel in processing	74,812	75,3
Investments and other assets	667,041	674,44
Long-term investments	43,948	50,4
Long-term investment for subsidiaries and associates	572,635	584,82
Long-term prepaid expenses	16,408	7,30
Deferred tax assets	34,047	31,8
Current assets	167,147	190,42
Cash and deposits	63,040	76,70
Accounts receivable-trade	32,596	28,02
Other accounts receivable	1,034	2,43
Supplies	35,601	28,90
Prepaid expenses	2,668	1,3
Short-term receivables from subsidiaries and associates	9,482	29,50
Other current assets	22,723	23,3
Total assets	2,420,106	2,250,50

	(Unit	: million yen)
	FY2019	FY2020
	End of FY	End of FY
Liabilities		
Non-current liabilities	1,279,081	1,336,610
Bonds payable	604,993	654,994
Long-term loans payable	604,686	615,736
Long-term accrued liabilities	5,269	5,599
Lease obligations	208	190
Long-term debt to subsidiaries and associates	1,505	2,043
Provision for retirement benefits	44,550	46,323
Asset retirement obligations	4,549	7,172
Other non-current liabilities	13,317	4,551
Current liabilities	480,208	243,363
Current portion of non-current liabilities	144,258	68,820
Short-term loans payable	14,750	8,750
Commercial paper	-	20,005
Accounts payable-trade	4,642	7,566
Accounts payable-other	14,870	7,911
Accrued expenses	13,514	11,822
Accrued taxes	6,259	22,338
Deposits received	319	315
Short-term debt to subsidiaries and associates	278,286	92,362
Other advances	710	1,157
Other current liabilities	2,597	2,311
Total liabilities	1,759,289	1,579,973
Net assets		
Shareholders' equity	657,456	659,259
Capital stock	180,502	180,502
Capital surplus	109,904	109,904
Legal capital surplus	109,904	109,904
Retained earnings	367,057	368,861
Legal retained earnings	6,029	6,029
Other retained earnings	361,028	362,832
Reserve for special disaster	74	77
Exchange-fluctuation preparation reserve	1,960	1,960
General reserve	302,861	342,861
Retained earnings brought forward	56,132	17,933
Treasury shares	(8)	(8)
Valuation and translation adjustments	3,360	11,268
Valuation difference on available-for-sale securities	4,562	9,632
Deferred gains or losses on hedges	(1,201)	1,636
Total net assets	660,817	670,528
Total liabilities and net assets	2,420,106	2,250,502

* For consolidated balance sheet, please refer to the Financial Results disclosed on April 30, 2021

(1)-7. Non-consolidated: Statement of Income



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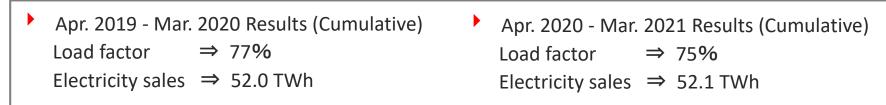
	(Unit: million yen)		
	FY2019	FY2020	
	(AprMar)	(AprMar)	
Operating revenue	571,291	589,915	N
Electric utility operating revenue	563,813	583,812	
Sold power to other suppliers	510,429	566,068	
Transmission revenue	49,673	-	
Other electricity revenue	3,710	17,744	
Incidental business operating revenue	7,478	6,102	
Operating revenue-consulting business	1,320	957	
Operating revenue-coal sale business	5,040	4,094	N
Operating revenue-other businesses	1,117	1,051	
Operating expenses	546,405	512,060	
Electric utility operating expenses	539,708	506,536	
Hydroelectric power production expenses	62,337	62,723	
Thermal power production expenses	355,331	315,632	
Purchased power from other suppliers	11,813	48,433	
Transmission expenses	24,738	-	Т
Transformation expenses	5,446	-	Т
Selling expenses	1,110	1,224	<u>Т</u> О Е
Communicating expenses	4,599	4,669	E
General and administrative expenses	65,722	65,007	
Expenses for third party's power transmission service	1,446	2,363	
Enterprise tax	7,162	6,480	
Incidental business operating expenses	6,697	5,524	Р
Operating expenses-consulting business	884	655	Ir
Operating expenses-coal sale business	4,987	4,030	١r
Operating expenses-other businesses	825	838	Т
Operating income	24,886	77,854	Р

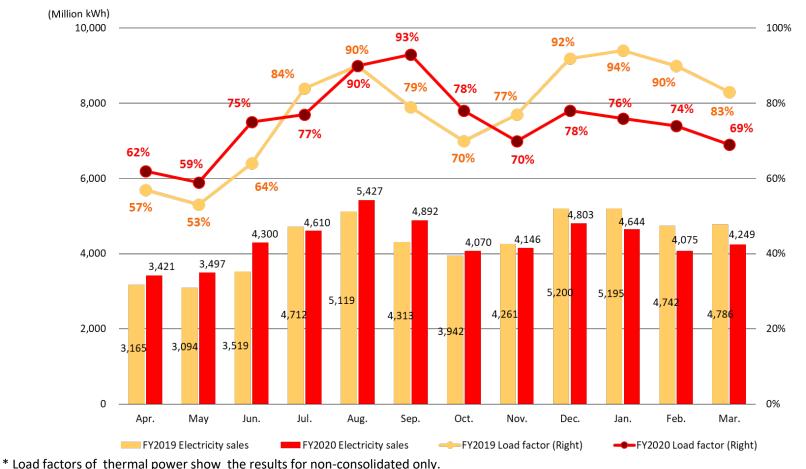
	(Unit: million ye		
	FY2019	FY2020	
	(AprMar)	(AprMar)	
Non-operating income	52,749	49,648	
Financial revenue	50,594	46,706	
Dividend income	49,781	43,930	
Interest income	812	2,776	
Non-operating revenue	2,155	2,941	
Gain on sales of non-current assets	13	18	
Miscellaneous revenue	2,141	2,923	
Non-operating expenses	17,037	13,462	
Financial expenses	13,012	11,852	
Interest expenses	12,711	11,635	
Bond issuance cost	301	217	
Non-operating expenses	4,024	1,609	
Loss on sales of non-current assets	0	1	
Miscellaneous loss	4,023	1,608	
Total ordinary revenue	624,041	639,564	
Total ordinary expenses	563,443	525,523	
Ordinary income	60,597	114,041	
Extraordinary losses	-	77,694	
Impairment losses	-	3,170	
Loss on debt waiver for subsidiaries and associates	-	57,001	
Loss on valuation of shares of subsidiaries and associates	-	17,522	
Profit before income taxes	60,597	36,346	
Income taxes-current	3,457	21,445	
Income taxes-deferred	(238)	(631)	
Total income taxes	3,219	20,813	
Profit	57,377	15,532	

* For consolidated statement of income, please refer to the Financial Results disclosed on April 30, 2021

(1)-8. Monthly Electricity Sales:

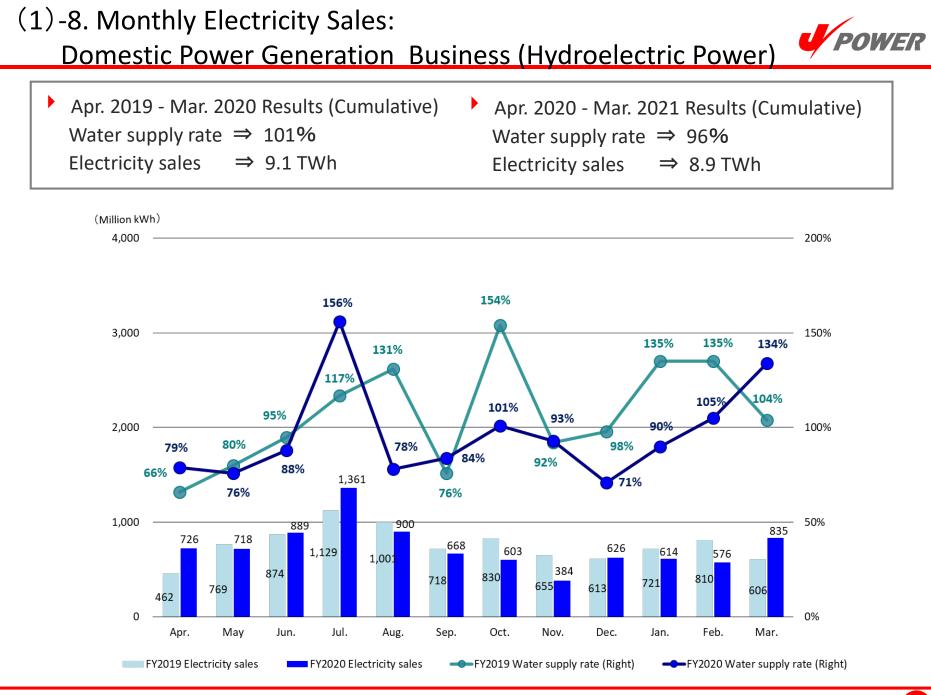
Domestic Power Generation Business (Thermal Power)





* Proportion of equity holding is not taken into account.

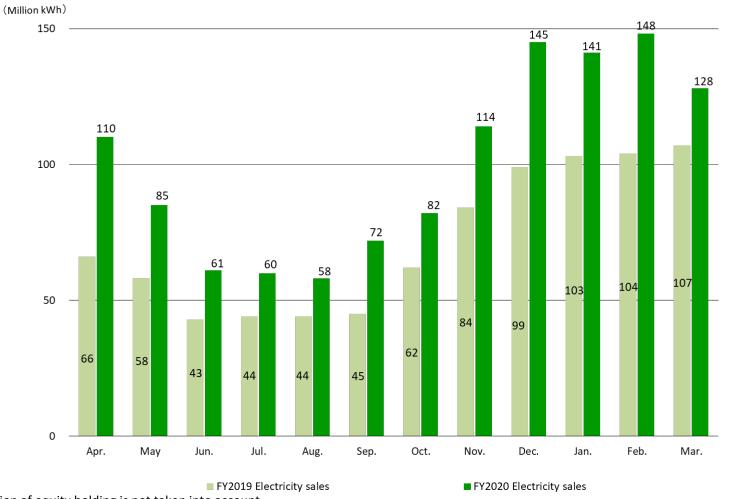
POWER



(1)-8. Monthly Electricity Sales:

Domestic Power Generation Business (Wind Power)

- ▶ Apr. 2019 Mar. 2020 Results (Cumulative) \Rightarrow 0.86 TWh
- ▶ Apr. 2020 Mar. 2021 Results (Cumulative) ⇒ 1.21 TWh



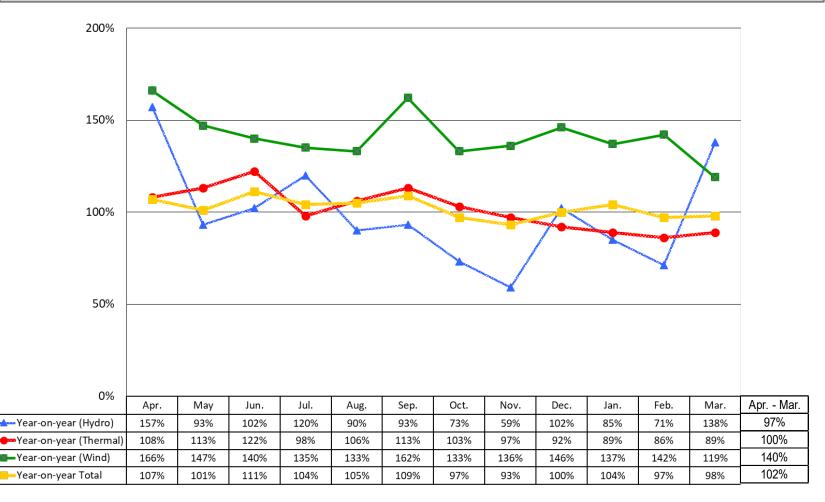
* Proportion of equity holding is not taken into account.



(1)-8. Change in Monthly Electricity Sales:

Domestic Power Generation Business

- ▶ Apr. 2019 Mar. 2020 Total Results (Cumulative) ⇒ 73.1 TWh
- ▶ Apr. 2020 Mar. 2021 Total Results (Cumulative) ⇒ 74.5 TWh



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

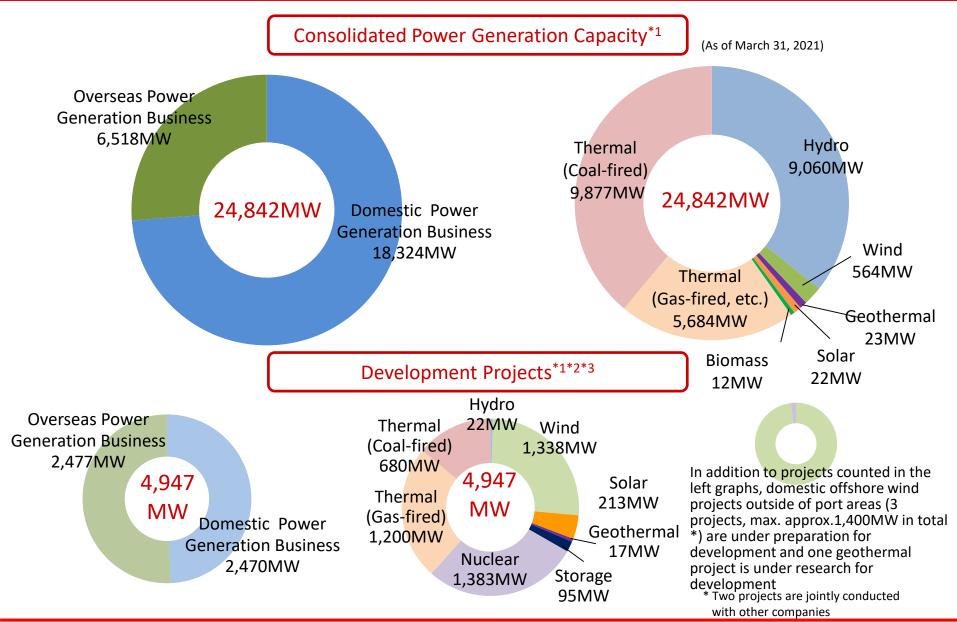


(2) Business Data Contents



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*1 Capacity figures show owned capacity which takes into account of equity ratio *2 For replacement project, only change amount in capacity is counted

*3 In case capacity is to be determined, maximum capacity at environmental impact assessment is used



Hydroelectric: 60 power plants, 8,560MW^{*1}

		Beginning	
Power plant	Location	of operation	Capacity(MW)
Shimogo	Fukushima	1988	1,000
Okutadami	Fukushima	1958	560
Otori	Fukushima	1963	182
Tagokura	Fukushima	1959	400
Okukiyotsu	Niigata	1978	1,000
Okukiyotsu No.2	Niigata	1996	600
Numappara	Tochigi	1973	675
Shintoyone	Aichi	1972	1,125
Sakuma	Shizuoka	1956	350
Miboro	Gifu	1961	215
Nagano	Fukui	1968	220
Tedorigawa No.1	Ishikawa	1979	250
Ikehara	Nara	1964	350
Sendaigawa No.1	Kagoshima	1965	120
Other 46 plants			

Wind Power: 23 wind farms, 540MW*2

			Output capacity
Wind farm	Location	Ownership	(MW)
Setana Osato	Hokkaido	100%	50.0
Kaminokuni	Hokkaido	100%	28.0
Green Power Kuzumaki	lwate	100%	21.0
Kuzumaki No.2	lwate	100%	44.6
Nikaho Kogen	Akita	100%	24.8
Nikaho No.2	Akita	100%	41.4
Koriyama-Nunobiki Kogen	Fukushima	100%	66.0
Hiyama Kogen	Fukushima	100%	28.0
Irouzaki	Shizuoka	100%	34.0
Tahara Bayside	Aichi	100%	22.0
Awara-Kitagata	Fukui	100%	20.0
Minami Ehime	Ehime	100%	28.5
Minami Oosumi	Kagoshima	100%	24.7
Other 10 wind farms			

*1 Including 3,275MW of pure pumped storage type.

*2 Owned capacity: Output capacity of each facility is multiplied by J-POWER's investment ratio (equity ratio).



Thermal (J-POWER): 7 power plants, 8,412MW

Coal

Thermal	(Others):	5 power	plants,	705MW*1
---------	-----------	---------	---------	---------

	Power plant (Location)		Beginning of operation	Capacity (MW)	Pow
	Isogo	New No.1	2002	600	J-PC
	(Kanagawa)	New No.2	2009	600	and Ichił
	Takasago	No.1	1968	250	Mih
	(Hyogo)	No.2	1969	250	Pow Shin
	Takehara	New No.1	2020	600	Itoig
	(Hiroshima)	No.3	1983	700	Tosa
	Tachibanawan	No.1	2000	1,050	Kasł
	(Tokushima)	No.2	2000	1,050	
	Matsushima	No.1	1981	500	
	(Nagasaki)	No.2	1981	500	
	Matsuura	No.1	1990	1,000	
	(Nagasaki)	No.2	1997	1,000	
	Ishikawa Coal (Okinawa)	No.1	1986	156	
		No.2	1987	156	

De se de si				Output capacity
Power plant	Location	Fuel OV	wnership	(MW)
J-POWER Supply and Trading	Chiba	Gas	100%	108
Ichihara				
Mihama Seaside Power Shinminato	Chiba	Gas	100%	105
Itoigawa	Niigata	Coal	64%	149
Тоза	Kochi	Coal	45%	167
Kashima	Ibaraki	Coal	50%	645

(2)-3. Overseas Power Generation Projects (As of March 31, 2021)



		caj	output pacity		Owned capacity		Purchase agreement
Project	Туре		(MW)	Ownership	(MW)	Power purchaser	valid through
Thailand (14 projects)		5	,719		3,189		
Roi-Et	Biomass (Cha	aff)	9	24.7%	2	EGAT*1	2024
Rayong	CCGT* ³		112	20%	22	EGAT*1/ Companies in the industrial park	2024
Nong Khae	CCGT*3		120	49%	59	EGAT*1/ Companies in the industrial park	2021
	Biomass (Rub	ber					
Yala	wood waste)		20	49%	10	EGAT*1	2031
Kaeng Khoi 2	CCGT* ³		1,468	49%	719	EGAT*1	2033
7 SPPs ^{*2}	CCGT*3	Consolidated	790	57.7%	456	EGAT*1/ Companies in the industrial park	2038
Nong Saeng	CCGT* ³	Subsidiaries	1,600	60%	960	EGAT*1	2039
U-Thai	CCGT* ³		1,600	60%	960	EGAT*1	2040
United States (10 proje	ects)	5	,187		1,895		
Tenaska Frontier	CCGT* ³		830	31%	257	Exelon Generation Company, LLC	2020
Elwood Energy	SCGT*4		1,350	50%	675	PJM market	-
Green Country	CCGT*3		795	50%	398	Exelon Generation Company, LLC	2022
Pinelawn	CCGT*3		80	50%	40	Long Island Power Authority	2025
Equus	SCGT*4		48	50%	24	NYISO market	-
Fluvanna	CCGT* ³		885	15%	133	Shell Energy North America	2024
Edgewood	SCGT*4		88	50%	44	Long Island Power Authority	2023
Shoreham	Jet Fuel (Simp	ole cycle)	90	50%	45	Long Island Power Authority	2020
Orange Grove	SCGT*4		96	50%	48	San Diego Gas & Electric	2035
Westmoreland	CCGT* ³		925	25%	231	PJM market	-

*1 EGAT(Electricity Generating Authority of Thailand): State-owned electric power utility in Thailand

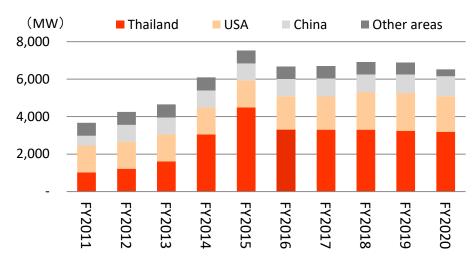
(2)-3. Overseas Power Generation Projects (As of March 31, 2021)



(MW)

		Output capacity		Owned capacity		Purchase agreement
Project	Туре	(MW)	Ownership	(MW)	Power purchaser	valid through
China (4 projects)		11,026		1,071		
Hanjiang (Xihe/Shuhe)	Hydroelectric	450	27%	122	Shaanxi Electric Power Company	Renewed every year*1
Gemeng* ²	Mainly Coal	7,442	7%	521	Shanxi Province Power Corporation	-
Hezhou	Coal	2,090	17%	355	Guanxi Power Grid Co.	Renewed every year*1
Other country/region (3	8 projects)	728		364		
CBK (3 projects) (Philippines)	Hydroelectric	728	50%	364	National Power Corporation	2026

[Owned capacity of overseas projects (in operation)]

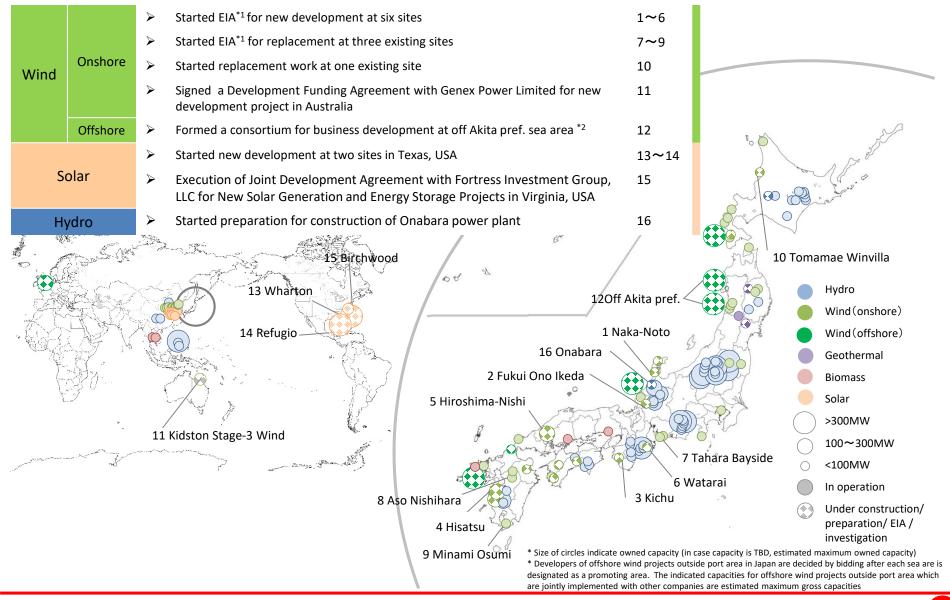


			(10100)
Country/ Region	In operation	Under development	Total
Thailand	3,189	-	3,189
USA	1,895	1,508	3,402
China	1,071	-	1,071
Other areas	364	969	1,333
Total	6,518	2,477	8,995

- *1 Although power purchase agreements are renewed every year, J-POWER makes other agreements with power purchasers for continuous power purchase during the plant operation.
- *2 Gemeng International Energy Co., Ltd. is an electric power company that owns 14 power generation companies.
- *3 CCGT: Combined Cycle Gas Turbine

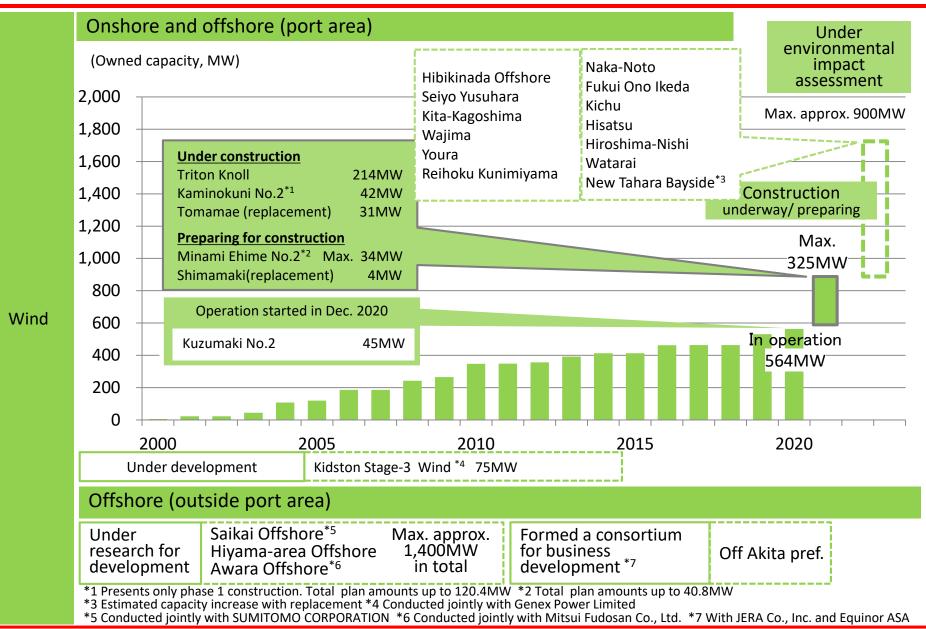


Progress in FY2020



(2)- 5. Renewable Energy Development Projects (Wind)





Note: "Construction underway/ preparing" and "Under environmental impact assessment" in the graph above do not include replacement projects with no capacity change

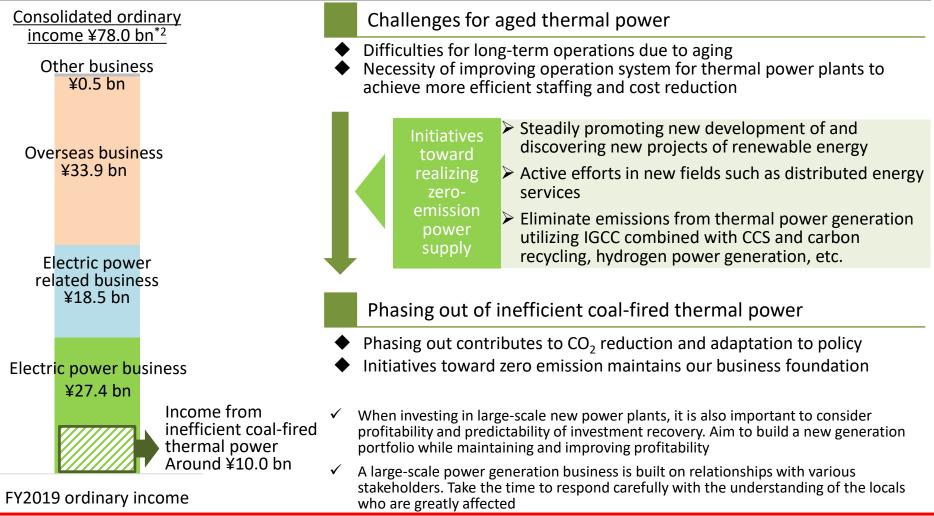
(2)- 5. Renewable Energy Development Projects (Hydro, Geothermal, Solar)



	Project		Capacity		Note		
Hydro	Shinkatsurazawa/ Kumaoi		17.0MW	Start of opera	Start of operation : FY2022 (planned)		
	Ashoro Repowering		-	Completion o (planned)	Completion of construction : FY2022 (planned)		
	Ogamigo Repowering		20.0MW→21.3M	W Completion o (planned)	Completion of construction : FY2023 (planned)		
	Nagayama Repowering		37.0MW→39.5M	W Completion o (planned)	Completion of construction : FY2025 (planned)		
	Onabara		1MW	Completion of (planned)	construction : November 2024		
	Project	Capacity	Ownership	Owned capacity	Start of operation		
Geo-	Onikobe Replacement	14.9MW	100%	14.9MW	April 2023 (planned)		
thermal	Аррі	14.9MW	15%	2.2MW	April 2024 (planned)		
	Takahinatayama-area	-	-	-	Under research for development		
	Project	Capacity	Ownership	Owned capacity	Start of operation		
	Wharton (USA)	350MW	25%	87.5MW	2022 (planned)		
	Refugio (USA)	400MW	25%	100.0MW	2023 (planned)		
Solar	Birchwood (USA, Solar)	50MW	50%	25MW	2023 (planned)		
	Birchwood (USA, Storage)	190MW	50%	95MW	To be determined (Preparation for construction)		



- The treatment of inefficient coal-fired thermal power plants has been under review in recent years as they have been aged
- We are aiming at phasing them out by initiatives toward realizing zero-emission power supply^{*1} already under implementation



*1 Please refer to pp.14-38 of "Summary of FY2019 Earnings Results" (disclosed on April 30, 2020)

*2 Is not equal to the sum of each segment income due to adjustment of inter segment transaction, etc.

(2)- 7. Initiatives toward Zero Emissions (CO₂ free Hydrogen Generation/ Producing Hydrogen **POWER**

Osaki CoolGen Project (Refer to page40 for details)

Coal gasification gas

Phase 1:

Oxygen-blown IGCC demonstration

CO₂ separation and capture facilities

Dxygen-blown IGCC with CO₂ separation and capture demonstration

Large-scale demonstration test on high-efficiency coal-fired thermal power (oxygen-blown IGCC, IGFC) and CO₂ separation and capture aiming for commercialization

Exhaust heat

recovery boiler

Gas

turbine

Fuel cell

GENESIS Matsushima Plan (Refer to page41 for details)

- the first commercialization of the results demonstrated in the Osaki CoolGen Project
- Adding a gasification unit to the existing Matsushima Thermal Power Plant Unit No.2 as a transitional technology toward realizing a hydrogen society.



- 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

Carbon Recycling Test Projects(Refer to page42 for details)	Australian Brown Coal Hydrogen Pilot Test Project (Refer to page43 for details)

- Considering carbon recycling to utilize CO₂ captured in Osaki CoolGen Project
- Participating in demonstration test of constructing supply chain which produces hydrogen by gasifying brown coal in Australia and transports it to Japan



- Demonstration test * 1 of a system that manufactures coal gasification gas containing hydrogen and uses it to generate electricity is underway
- Demonstration test will be conducted in three phases
- In Phase 2, the basic performance (CO₂ recovery rate of 90% or more, CO₂ recovery purity of 99% or more) has been confirmed in the demonstration test until the end of February 2021. In the future, we will continue to conduct demonstration tests to improve the accuracy of the results so far.
- The third phase demonstration test is under design / production of equipment for the start of construction in March 2021

Company	Osaki CoolGen Corporation (Ownership: J-POWER 50%, Chugoku Electric Power Company 50%)			Output	166MW	
Location	Chugoku Electric Power Company Osaki Power Station premises (Hiroshima)	Generation type	,	-blown IGC rbine: 1,30		



Demonstration Test Schedule

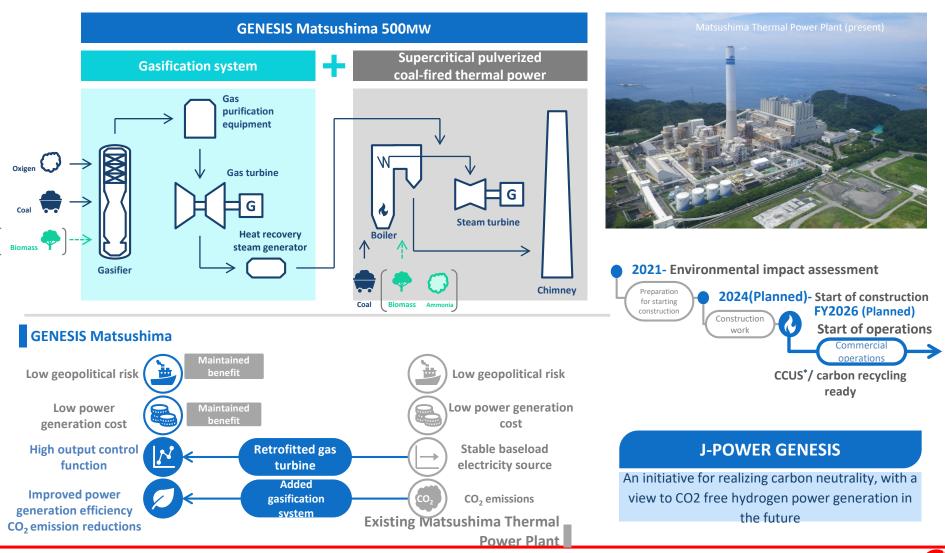
[FY	2016	2017	2018	2019	2020	2021	2022
Hydrogen Approx. 25%	Phase 1 : Demonstration of Oxygen-blown IGCC demonstration	Design/manufac ure/installation		ration				
Hydrogen Approx. 85% ^{*2}	Phase 2 : Demonstration of Oxygen- blown IGCC with CO ₂ separation and capture	Design/n	nanufactur	e/installati	on Dem test	onstration mar alla		emonstration est
Hydrogen Approx. 85% ^{*2}	Phase 3 : Demonstration of IGFC with CO ₂ separation and capture				Design/m allation	anufacture	e/inst	emonstration st

*1 The project is subsidized by the New Energy and Industrial Technology Development Organization (NEDO), a national research and development organization.

*2 Hydrogen concentration after CO2 separation and capture. For power generation, the concentration will be lowered for burning due to restrictions on the capability of the turbine used in the demonstration test.



J-POWER will take the first step in CO2-free hydrogen power generation at the Matsushima Plant that paved the way for using imported coal after the oil crisis. J-POWER will realize reducing environmental loads as early as possible by applying new technologies to the existing assets in an economically viable way while maintaining a stable power supply.



* CCUS: Carbon Capture, Utilization, and Storage

Considering carbon recycling to utilize CO₂ captured in Osaki CoolGen Project

Osaki CoolGen Carbon Recycling Test Project

Company: Osaki CoolGen Corporation (Ownership: J-POWER 50%, Chugoku Electric Power Company 50%) Demonstration Outline: Manufacturing Liquefaction carbonic acid production 5ton- CO₂/day

 CO_2

Osaki CoolGen (IGCC+**CO₂** Capture Process Demonstration facility)



• Utilizing thousands tons of CO₂ annually to promote tomato photosynthesis

Tomato farm

Kitakyushu city

 Jointly operated by J-POWER and KAGOME in



Research and development related to biofuel production from microalgae

Examples of Carbon Recycling

Environmentally friendly concrete

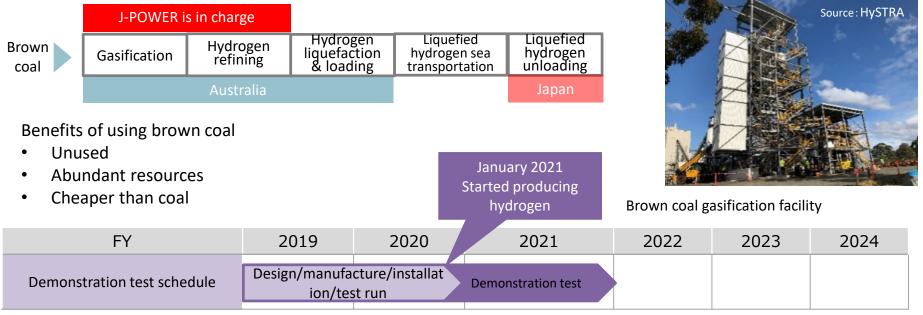
FY	2018	2019	2020	2021	2022	2023	2024
Demonstration test schedule			Design/man /installa		monst- ation tests		



(2)-11. Australian Brown Coal Hydrogen Pilot Test Project

- POWER
- Participating in demonstration test of constructing supply chain which produces hydrogen by gasifying brown coal in Australia and transports it to Japan
- J-POWER has been in charge of brown coal gasification^{*1} and hydrogen refining facilities^{*2} utilizing its knowledge on coal gasification. These facilities were installed by September 2020 and test run is underway aiming at producing hydrogen
- We started producing hydrogen in January 2021
- When commercialized in the future, CO₂ free will be achieved by applying CCS to store CO₂ generated in hydrogen production

Overall View of the Global Hydrogen Supply Chain



*1 Sponsored by the New Energy and Industrial Technology Development Organization (NEDO)

*2 Sponsored by the Australian federal government and the Victoria state government

(2)-12. Overseas Projects under Development (As of March 31, 2021)



Project	Overview	Location of the project
Central Java (Indonesia) Capacity: 2,000MW (1,000MW x 2) Type: Coal-fired (USC*1) Ownership: 34% Status: Under construction Start of operation: FY2021(planned)	 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. 	Jakarta Batang, Central Java Province Java, Indonesia
Triton Knoll (UK) Capacity: 857MW 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*² 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. 	Ireland Triton Knoll Offshore Wind Farm United Kingdom Nethorlands Germany Belgium
Jackson (USA) Capacity: 1,200MW Type: CCGT*3 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*⁴ market 	sota Wisconsin New York Michigan Iowa Jackson Power Plant Illinois Indiana Ohio Virginia

*1 USC: Ultra – Supercritical

*2 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.

*3 CCGT: Combined Cycle Gas Turbine

*4 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.

(2)-12. Overseas Projects under Development (As of March 31, 2021)



Project	Overview	Location of the project
Wharton, Refugio (USA) Capacity: Wharton:350MW Refugio:400MW Type: Solar photovoltaic Ownership: 25% Status: Under development Start of operation: 2022, 2023	 First renewable project in USA for J-POWER Texas has abundant solar resource and can expect growth in power demand Located close to Houston, a high-power demand area 	Texas Wharton Project Refugio Project Guide State State
Kidston Stage-3 Wind (Australia) Capacity: 150MW Type: Onshore wind Ownership: 50% Status: Under development Start of operation: 2024	 First renewable project in Australia for J- POWER J-POWER executes Development Funding Agreement with Genex Power Limited for New Wind Project Leveraging J-POWER's domestic and international wind energy expertise and Genex's renewable energy development capabilities in Australia 	Kidston Stage 3 Wind
Birchwood (USA) Capacity: Solar 50MW Storage 190MW Type: Solar Ownership: 50% Status: Under development Start of operation: 2023(Solar)	 Third renewable project in USA for J-POWER Execution of Joint Development Agreement with Fortress Investment Group, LLC Developing solar generation and energy storage projects in Virginia after closing Birchwood Power in March 2021, which is the coal-fired power plant and J-POWER has owned 50% of its interest 	Birchwood

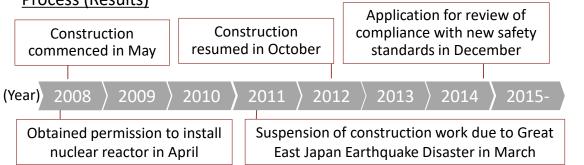
(2)-13. Ohma Nuclear Power Project

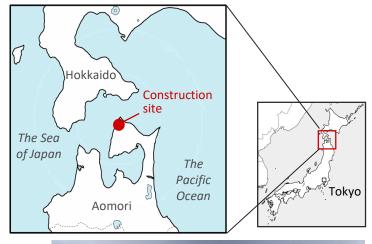


- In December 2014, J-POWER submitted to NRA* an application for permission for alteration of reactor installment license and an application for construction plan approval in order to undertake review of compliance with the new safety standards
- Pursue further improvements in safety continuously
- Sincerely 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, Shimo	Ohma-machi, Shimokita-gun, Aomori Prefecture			
Capacity	1,383MW	1,383MW			
Type of nuclear reacto	r Advanced Boiling Wa	ater Reactor (ABWR)			
Fuel		Enriched uranium and uranium-plutonium mixed oxide (MOX)			
Commencement of operations	To be determined	To be determined			
Process (Results)		Application for review of			
Construction	Construction	compliance with new safety			

Overview of the Project



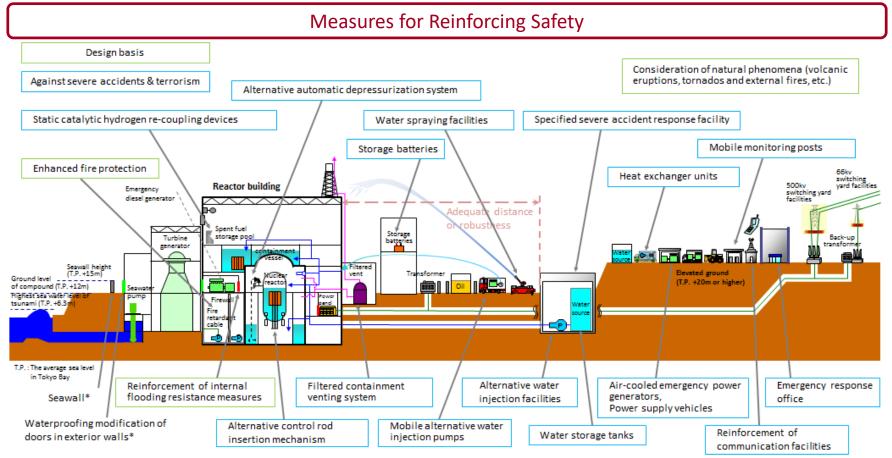




(2)-14. Response to the New Safety Standards at the Ohma Nuclear Power Plant

- Construction Works for Measures for Reinforcing Safety
- Construction Period: From the 2nd half of 2022 to the 2nd half of 2027
- 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)



*Independent measures

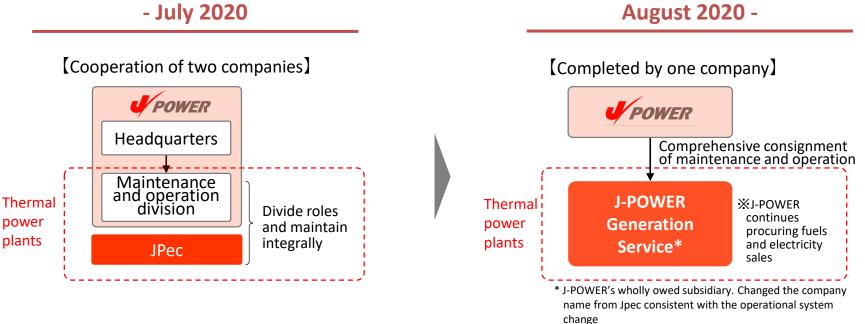
(2)-15. Initiatives Aiming at Reducing Costs



Main facto for increase in costs in resent year	e 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
	FY2020 FY2021- Start of operation of Takehara Thermal Power Plant New Unit No.1 in June 2020 Repair and maintenance costs can be reduced compared to before replacement
Initiatives aiming at reducing	Considering extension of inspection interval for thermal power plants Considering extension of periodic inspection interval which is currently every two years
costs	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

(2)-15. Initiatives Aiming at Reducing Costs POWER (Improvement of the Operation System for Thermal Power Plants)

- In August 2020, the operation system for thermal power plants has been improved, in which \geq operations of J-POWER's thermal power plants have been comprehensively transferred to its subsidiary
- Achieve cost reduction and more efficient staffing through elimination of redundant management \geq structure and utilizing digital technologies (aiming at shifting approx. 30% of O&M personnel to other businesses by FY2024)
- This initiative is expected to contribute to enhance cost competitiveness while increasing \geq personnel in renewable and overseas businesses



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