# FY2021 2<sup>nd</sup> Quarter Financial Results (April 1 – September 30, 2021)

Tokyo Electric Power Company Holdings, Inc.





tepcon





# Overview of FY2021 2<sup>nd</sup> Quarter Financial Results

(Released on October 27, 2021)

### **Regarding Forward-Looking Statements**

Certain statements in the following presentation regarding TEPCO Group's business operations may constitute "forward-looking statements." As such, these statements are not historical facts but rather predictions about the future, which inherently involve risks and uncertainties, and these risks and uncertainties could cause TEPCO Group's actual results to differ materially from the forward-looking statements herein.

(Note)

Please note that the following is an accurate and complete translation of the original Japanese version prepared for the convenience of our English-speaking investors. In case of any discrepancy between the translation and the Japanese original, the latter shall prevail.



### <FY2021 2<sup>nd</sup> Quarter Financial Results>

- Operating revenue decreased due to decreases in the volume of electricity sold and fuel cost adjustments, and the application for the new accounting standards.
- Ordinary income/loss and quarterly net income decreased due to a negative turn in the effects of the time-lag from the fuel cost adjustment system at JERA and decrease in the volume of retail electricity sold despite Group-wide continued efforts to improve profitability.

### < FY2021 Consolidated Performance Forecast >

• FY2021 full-year financial forecast was revised to reflect a negative turn in the effect of the time-lag from the fuel cost adjustment system and other factors.



		FY2021	FY2020	Comparison	
		Apr-Sep (A)	Apr-Sep (B)	(A)-(B)	(A)/(B) (%)
Total Electricity Sales Volume		113.3	111.4	1.9	101.7
Retail Electricity Sales Volume	<b>※</b> 1	91.1	102.6	-11.5	88.8
Wholesale Electricity Sales Volume	<b>※</b> 2	22.2	8.8	13.4	252.3

### (Unit: Billion Yen)

	FY2021	FY2020	Compa	arison
	Apr-Sep (A)	Apr-Sep (B)	(A)-(B)	(A)/(B) (%)
Operating Revenue	2,210.7	2,834.2	-623.4	78.0
Operating Income/Loss	97.0	181.3	-84.3	53.5
Ordinary Income/Loss	101.3	224.8	-123.4	45.1
Extraordinary Income/Loss	0.0	-67.7	67.7	-
Net Income Attributable to Owners of the Parent	88.6	148.6	-59.9	59.6

※1 Total of EP consolidated (EP/TCS/PinT) and PG (islands, etc.)

2 Total (excluding indirect auctions) of EP consolidated (EP/TCS/PinT), PG (including inter-regional), and RP consolidated (RP/Tokyo Electric Generation)

Area demand				(Unit: Billion kWh)
	FY2021	FY2020	Comp	arison
	Apr-Sep(A) Apr-Sep(B)	(A)-(B)	(A)/(B) (%)	
Area demand	130.0	131.3	-1.3	99.0

### Foreign Exchange Rate/CIF

	FY2021 Apr-Sep(A)	FY2020 Apr-Sep(B)	(A)-(B)
Foreign Exchange rate (Interbank,yen/dollar)	109.8	106.9	2.9
Crude oil price (All Japan CIF,dollar/barrel)	70.3	36.5	33.8

### 2. Points of Each Companies

### <TEPCO Holdings>

Ordinary income increased due to an increase in received dividends from core operating companies, etc.

### <TEPCO Fuel & Power>

Ordinary income decreased due to a negative turn in the effects of the time-lag from the fuel cost adjustment system at JERA.

### <TEPCO Power Grid>

Ordinary income decreased due to a decrease in transmission revenue and an increase in facility costs, etc.

### <TEPCO Energy Partner>

Ordinary income decreased due to a decrease in the volume of retail electricity sold as a result of increased competition and effects of daily temperatures, etc.

### <TEPCO Renewable Power>

> Ordinary income decreased due to an increase in prorerty tax, etc.

### 3. Overview of Each Company

(Unit: Billion Yen)				nit: Billion Yen)
	FY2021 Apr-Sep(A)	FY2020 Apr-Sep (B)	Comparison (A)-(B) (A)/(B) (%)	
	2,210.7	2,834.2	-623.4	78.0
	239.7	267.9	-28.1	89.5
	2.6	3.8	-1.2	66.8
	866.2	862.8	3.3	100.4
	1,837.8	2,519.2	-681.4	73.0
	00.0	00.4	0 7	400.4

Operating Revenue	2,210.7	2,834.2	-623.4	78.0
TEPCO Holdings	239.7	267.9	-28.1	89.5
TEPCO Fuel & Power	2.6	3.8	-1.2	66.8
TEPCO Power Grid	866.2	862.8	3.3	100.4
TEPCO Energy Partner	1,837.8	2,519.2	-681.4	73.0
TEPCO Renewable Power	82.8	80.1	2.7	103.4
Adjustments	-818.5	-899.8	81.3	-
Ordinary Income/Loss	101.3	224.8	-123.4	45.1
TEPCO Holdings	98.0	63.3	34.7	154.9
TEPCO Fuel & Power	7.3	45.3	-37.9	16.2
TEPCO Power Grid	106.6	123.8	-17.1	86.1
TEPCO Energy Partner	5.8	45.9	-40.0	12.7
TEPCO Renewable Power	35.0	36.7	-1.6	95.5
Adjustments	-151.5	-90.2	-61.3	-

(Unit: Billion Yei	n)
--------------------	----

	FY2 Apr-Se	021 ep(A)	FY2020 Apr-Sep(B)	Comparison (A)-(B)
Extraordinary Income		29.8	-	29.8
Grants-in-Aid from the Nudear Damage Compensation and Decommissioning Facilities Corporation	<b>※</b> 1	29.8	-	29.8
Extraordinary Loss		29.8	67.7	-37.8
Expenses for Nuclear Damage Compensation	<b>※</b> 2	29.8	67.7	-37.8
Extraordinary Income/Loss		0.0	-67.7	67.7

X1 Apply for changes in grant amounts based on stipulations on September 30, 2021.

X2 Increases due to damage from shipping restrictions and extension of the period for calculating reputational damage estimates.

### 5. Consolidated Financial Position

- > Total assets balance Increased by 518.9 billion yen due mainly to an increase in cash and deposits.
- > Total liabilities balance increased by 389.2 billion yen due mainly to an increase in corporate bonds.
- Total net assets balance increased by 129.6 billion yen due mainly to an increase in appropriation of net income attributable to owners of parent.
- Equity ratio worsed by 0.1 points. Balance Sheet as of September 30,2021  $\geq$ **Total Assets** Balance Sheet as of March 31,2021 12,612.0 **Increase in liabilities** Liabilities billion yen +389.2 billion yen 9,339.6 Increase in assets Liabilities Increase in corporate bonds +518.9 billion yen billion yen +450.0 billion yen 8,950.3 Increase in cash and deposits **Total Assets** + 527.0 billion yen billion yen 12,093.1 Increase in net assets billion yen Net assets + 129.6 billion yen **Net Assets** 3,272.4 Net income attributable to 3,142.8 owners of parent billion yen + 88.6 billion yen billion yen Worsed by Equity Ratio:25.7% Equity Ratio:25.8% 0.1 points 1=200 ©Tokyo Electric Power Company Holdings, Inc. All Rights Reserved.

### 6. FY2021 Consolidated Performance Forecast

Performance forecast has been revised as shown below due to a negative turn in the effect of the time-lag from the fuel cost adjustment system amid rising fuel prices.

(Unit: Billion yen)

	FY2021 Projection (released on Oct. 27,2021) (A)	FY2021 Projectin (released on Jul. 29,2021) (B)	(A)-(B)
Operating revenue	4,850.0	4,484.0	366.0
Operating income/loss	21.0	69.0	- 48.0
Ordinary income/loss	-13.0	74.0	- 87.0
Extraordinary income/loss	0.0	-	0.0
Net Income Attributable to Owners of Parent	-16.0	67.0	- 83.0

\*Projections for Ordinary Income and Net Income attributable to owners of parent reflect a provisional special contribution of 50.0 billion yen to the NDF for compensation.

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(Unit: Billion yen)

		FY2021 Projection (released on Oct. 27,2021)	FY2021 Projectin (released on Jul. 29,2021)	FY2020 Results
Total Electricity sales volume		222.0	213.0	231.5
	Retail Electricity sales volume	183.9	186.9	204.7
	Wholesale Electricity sales volume	38.1	26.1	26.8
Area demand		266.3	267.3	266.3

	FY2021 Projection (released on Oct. 27,2021)	FY2021 Projectin (released on Jul. 29,2021)	FY2020 Results
Foreign Exchange rate (Interbank:yen per dollar)	Approx.110	Approx.110	106.1
Crude oil price (All Japan CIF:dollar per barrel)	Approx. 74	Approx.62	43.4



#### (Reference) Consolidated Year-on-Year performance comparison ① ~Increases/Decreases chart~



 $\times 1$  Retail power sales include the impact of transmission expenses

- $\times 2$  Wholesale power sales exclude the impact of indirect auctions
- X3 Electricity procurement expenses exclude the impact of indirect auctions, and offset the revenue increase/decrease caused by an increase/decrease in deficit imbalance.
- X4 Transmission revenue excludes the impact of deficit imbalance but includes transactions within the Group companies

### (Reference) Consolidated Year-on-Year performance comparison 2 ~ Figures~

TEPCO

(Units: Billion yen)

		FY2021 Apr-Sep (A)	FY2020 Apr-Sep (B)	(A)-(B)
Ordinary In	come	101.3	224.8	-123.4
Power support	ply and demand, and on revenue	897.0	984.1	-87.1
	Retail electricity sales $st$ 1	1,017.9	1,221.9	-203.9
	Wholesale electricity sales ※2	237.0	105.8	131.1
(-)	Electricity procurement expense ※3	-1,039.1	-1,035.9	-3.1
Transmi	Transmission revenue ※4	681.2	692.3	-11.1
Others		-795.7	-759.3	-36.3
	Profit of entities accounted for using equity method	27.3	66.3	-38.9
(-)	Depreciation costs	-201.5	-200.1	-1.4
(-)	Facility costs	-125.0	-117.9	-7.0
	Others ※5	-496.4	-507.5	11.1

X1 Retail power sales include the impact of consigned transmission expenses

X2 Wholesale power sales exclude the impact of indirect auctions

3 Electricity procurement expenses exclude the impact of indirect auctions, and offset the revenue increase/decrease caused by an increase/decrease in deficit imbalance.

×4 Consigned transmission income includes transactions within the Group but excludes the impact of the deficit imbalance

### Ordinary income/loss

(Units: Billion Yen)



#### **Profit Structure**

Profit is dividend income, decommissioning charges profit, management consultation fees, wholesale power sales of nuclear power, etc.

(Units: Billion Yen)

	FY2020	FY2021	Comparison
Apr-Jun	79.5	126.7	+ 47.1
Apr-Sep	63.3	98.0	+34.7
Apr-Dec	7.0		
Apr-Mar	-7.9		





X Transmission revenue excludes impact from imbalanced revenue and expenditure

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- ×1 Retail and wholesale power sales, and electricity procurement expenses both exclude the impact from indirect auctions. The impact of imbalance on transmission costs has been added to the electricity procurement costs after including the impact excluding the imbalance from retail and wholesale power sales.
- X2 Includes the impact of correcting consolidated discrepancies related to the appropriation of renewable energy subsidy estimates in the last year's financial results.

	FY2020	FY2021	comparison	
Apr-Sep	102.5	91.0	-11.5	

	FY2020	FY2021	comparison
Apr-Jun	11.2	-37.4	-48.7
Apr-Sep	45.9	5.8	-40.0
Apr-Dec	7.9		
Apr-Mar	6.4		

### Ordinary income/loss

(Units: Billion Yen)

#### **Profit Structure**

	Increase in Wholesales, etc	Increase in		Profit is mainly new energies. Expenses is ma	wholesale power ainly for depreciat	sales of hydroe	lectric and
	+3.3	Property tax, etc. (Paid by HD in the first year after company split)	Year-on-Year	Flow rate			(Unit:%)
			-1.6		FY2020	FY2021	comparison
		¥		Apr-Sep	104.0	104.1	0.1
5)/ 0000							
Apr-Sep			FY 2021		ome FY2020	(U FY2021	nits: Billion yen) comparison
Apr-Sep 36.7			FY 2021 Apr-Sep	Apr-Jun	ome FY2020 17.8	(U FY2021 16.1	nits: Billion yen) comparison -1.6
Apr-Sep 36.7			FY 2021 Apr-Sep 35.0	Apr-Jun Apr-Sep	ome FY2020 17.8 36.7	(U FY2021 16.1 35.0	nits: Billion yen) comparison -1.6 -1.6
Apr-Sep 36.7			FY 2021 Apr-Sep 35.0	Apr-Jun Apr-Sep Apr-Dec	ome FY2020 17.8 36.7 44.1	(U FY2021 16.1 35.0	nits: Billion yen) comparison -1.6 -1.6
Apr-Sep 36.7			FY 2021 Apr-Sep 35.0	Apr-Jun Apr-Sep Apr-Dec Apr-Mar	ome FY2020 17.8 36.7 44.1 48.1	(U FY2021 16.1 35.0	nits: Billion yen) comparison -1.6 -1.6

### (Reference)Application of new accounting standards

- Accounting standards for revenue recognition" went into effect in FY2021 and some transactions that were posted as revenue (sales) must now be listed in a different category (changes were also made to what can be posted as expenses so there was no impact on revenue and expenditure).
- Surcharges and payments are posted as increases/decreases in recovered debts (liabilities) since they are paid to the GIO.
- Subsidies are posted as decreases in expenses due to revision of the electric operators accounting rules in accordance with the new accounting standards.



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### (Reference) Factors for fluctuating consolidated revenue ~The impact of application for new accounting standards~

Operating revenue decreased by 533.3 billion yen as a result of the application for new accounting standards (no impact on revenue and expenditures since expenses decreased)



### (Reference) FY2021 Consolidated Performance Forecast (Overview of Each Company)

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(Units: Billion Yen)

	FY2021 Projection (released on Oct. 27,2021) (A)	FY2021 Projectin (released on Jul. 29,2021) (B)	(A)-(B)
Operating Revenue	4,850.0	4,484.0	366.0
TEPCO Holdings	620.0	635.0	-15.0
TEPCO Fuel & Power	5.0	5.0	_
<b>TEPCO Power Grid</b>	1,787.0	1,760.0	27.0
<b>TEPCO Energy Partner</b>	4,040.0	3,685.0	355.0
<b>TEPCO</b> Renewable Power	151.0	154.0	-3.0
Adjustments	- 1,753.0	- 1,755.0	2.0
Ordinary income/loss	-13.0	74.0	-87.0
TEPCO Holdings	41.0	75.0	-34.0
TEPCO Fuel & Power	-22.0	24.0	- 46.0
<b>TEPCO Power Grid</b>	116.0	108.0	8.0
<b>TEPCO Energy Partner</b>	-35.0	8.0	-43.0
<b>TEPCO</b> Renewable Power	40.0	40.0	_
Adjustments	- 153.0	- 181.0	+ 28.0

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# **Supplemental Material**

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# FY2021 2<sup>nd</sup> Quarter Financial Results Detailed Information



### **Consolidated Statements of Income**

			(Unit:	Billion Yen)
	FY2021	FY2020	Comp	arison
	Apr-Sep(A)	Apr-Sep(B)	(A)-(B)	(A)/(B) (%)
Operating Revenue	2,210.7	2,834.2	-623.4	78.0
Operating Expenses	2,113.7	2,652.8	-539.0	79.7
Operating Income / Loss	97.0	181.3	-84.3	53.5
Non-operating Revenue	31.9	68.4	-36.4	46.7
Investment Gain under the Equity Method	27.3	66.3	-38.9	41.2
Non-operating Expenses	27.6	24.9	2.6	110.5
Ordinary Income / Loss	101.3	224.8	-123.4	45.1
Reserve for Fluctuation in Water Levels	0.0	0.1	-0.1	12.6
Provision or Reversal of Reserve for Preparation of Depreciation of Nuclear Power Construction	0.1	0.2	-0.0	66.5
Extraordinary Income	29.8	_	29.8	—
Extraordinary Loss	29.8	67.7	-37.8	—
Income Tax, etc.	12.2	7.5	4.6	162.1
Net Income Attributable to Non-controlling Interests	0.2	0.5	-0.2	52.5
Net Income Attributable to Owners of Parent	88.6	148.6	-59.9	59.6

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(Unit: Billion Yen)

Item	FY2010 to FY2020	FY2021 Apr-Sep	Cumulative Amount					
♦ Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation								
OGrants-in-aid based on Nuclear Damage Compensation and Decommissioning Facilitation Corporation Act	<sup>*1</sup> 7,437.0	29.8	<sup>*2</sup> 7,466.9					
Note: Journal Entry: Grants-in-aid receivable from Nuclear Damage Compensation and Decommissioning Facilitation Corporation *1 Numbers above are those after deduction of a governmental indemnity of 188.9 billion yen, and Grants-in-aid corresponding *2 Numbers above are those after deduction of a governmental indemnity of 188.9 billion yen, and Grants-in-aid corresponding *• Expenses for Nuclear Damage Compensation	is debited on the balance to decontamination expe to decontamination expe	ce sheet. enses of 4,695.6 billion enses of 4,845.9 billion	yen respectively. yen respectively.					
<ul> <li>Compensation for individual damages</li> <li>Expenses for radiation inspection, Mental distress, Damages caused by voluntary evacuations, and Opportunity losses on salary of workers etc.</li> </ul>	2,076.1	4.2	2,080.3					
<ul> <li>Compensation for business damages</li> <li>Opportunity losses on businesses, Damages due to the restriction on shipment, Damages due to groundless rumor and Package compensation etc.</li> </ul>	3,207.8	21.2	3,229.1					
<ul> <li>Other expenses</li> <li>Damages due to decline in value of properties, Housing assurance damages and Decontamination costs etc.</li> </ul>	7,036.4	154.6	7,191.0					
Amount of indemnity for nuclear accidents from the Government	-188.9	_	-188.9					
Grants-in-aid corresponding to decontamination expenses	-4,695.6	-150.3	-4,845.9					

Total

### TEPCO

7,465.6

29.8

7,435.7

### **Consolidated Balance Sheets**

	(Unit Billion Yen)				<interest-bearing< th=""><th colspan="2">debt outstanding&gt;</th><th colspan="2">(Unit Billion Yen)</th></interest-bearing<>	debt outstanding>		(Unit Billion Yen)	
	Sep. 30	Mar. 31		arison		Sep. 30	Mar. 31	(A)-(B)	
Total Accate	12 612 0	12 002 1	(A)=(D)	(A)/(B) (70) 107 3	Bonds	<b>2021 (A)</b> 3,155.4	2021 (B) 2,705.4	450.0	
Total Assets	12,012.0	12,093.1	J10.9	104.3	Long-term Debt	194.9	215.9	-20.9	
Fixed Assets	10,494.7	10,518.0	-23.2	99.8	Short-term Debt	2,214.0	) 1,967.7	246.2	
Current Assets	2,117.2	1,575.1	542.1	134.4	Total	5,564.3	4,889.0	675.2	
Liabilities	9,339.6	8,950.3	389.2	104.3	F Apr	Y2021 -Sep (A) A	FY2020 Apr-Sep (B)	(A)-(B)	
Long-term Liability	5,696.8	5,376.4	320.3	106.0	ROA(%) ROE(%)	0.8	1.5 5.0	-0.7 -2.2	
Current Liability	3,634.1	3,565.4	68.7	101.9	ROA: Operating Incom	55.33 e / Average Total /	92.76 Assets	-37.43	
Reserve for Fluctuation in Water Levels	0.0		0.0		ROE: Net Income attrib	utable to owners	of parent / Average	Equity Capital	
Reserve for Preparation of the Depreciation of Nuclear Plants Construction	8.5	8.4	0.1	101.8					
Net Assets	3,272.4	3,142.8	129.6	104.1					
Shareholders' Equity	3,212.4	3,121.4	90.9	102.9					
Accumulated Other Comprehensive Income	35.0	3.8	31.2	919.8					
Share Acquisition Rights	0.0	0.0	-0.0	47.5					
Non-controlling Interests	24.9	17.4	7.4	142.5					

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### **Consolidated Statements of Cash Flows**

			(Unit: Billion Yen
	FY2021	FY2020	Comparison
	Apr-Sep (A)	Apr-Sep(B)	(A)-(B)
Cash flow from operating activities	96.2	14.5	81.7
Income / loss before income taxes	101.2	156.7	-55.5
Depreciation and amortization	207.3	205.0	2.3
Increase (decrease) in decommissioning reserve fund*	-13.7	-20.8	7.1
Interest expenses	21.9	21.3	0.5
Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation	-29.8	-	-29.8
Expenses for nuclear damage compensation	29.8	67.7	-37.8
Decrease (increase) in notes and accounts receivable trade*	57.4	-85.7	143.2
Increase (decrease) in notes and accounts payable trade**	-39.1	-64.8	25.6
Interest expenses paid	-21.0	-20.6	-0.4
Payments for extraordinary loss on disaster due to the Great East Japan Earthquake	-10.3	-16.3	5.9
Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation received	144.7	144.2	0.5
Payments for nuclear damage compensation	-116.9	-129.1	12.2
Others	-235.2	-242.9	7.7
Cash flows from investing activities	-249.2	-253.7	4.5
Purchases of property, plant and equipment	-248.0	-263.9	15.8
Others	-1.1	10.1	-11.3
Cash flows from financing activities	679.5	361.2	318.3
Proceeds from issuance of bonds	479.9	578.6	-98.7
Redemption of bonds	-31.2	-220.1	188.8
Repayment of long-term loans	-20.9	-16.3	-4.6
Proceeds from short-term loans	2,196.9	1,985.2	211.7
Repayment of short-term loans	-1,950.9	-1,971.7	20.8
Others	5.8	5.5	0.3
Effect of exchange rate changes on cash and cash equivalents	0.2	-0.1	0.4
Net increase (decrease) in cash and cash equivalents**	526.9	121.9	404.9
Cash and cash equivalents at the beginning of the fiscal year	454.3	812.1	-357.8
Cash and cash equivalents at the end of the quarter	981.2	934.1	47.1

\* Minus denotes an increase. \*\* Minus denotes a decrease.



### **Overview of Consolidated Cash Flows**

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- Cash and cash equivalents as of September 30, 2021 increased 526.9 billion yen to 981.2 billion yen.
  - Cash flow from operating activities increased 96.2 billion yen mainly due to income before income taxes
  - Cash flow from investing activities decreased 249.2 billion yen mainly due to purchases of property, plant and equipment
  - Cash flow from financing activities increased 679.5 billion yen mainly due to proceeds from bonds/ loans exceeded redemption of bonds / repayment of loans



### Key Factors Affecting Performance (Results)

 X1 Total of EP consolidated (EP/TCS/PinT) and PG (islands, etc.)
 X2 Total (excluding indirect auctions) of EP consolidated (EP/TCS/PinT), PG (including inter-regional), and RP consolidated (RP/Tokyo Electric Generation)

		FY2021 Apr-Sep	FY2020 Apr-Sep	[Reference] FY2020
Total ( B	Electricity Sales Volume illion kWh)	113.3	111.4	231.5
	Retail Electricity Sales Volume (Billion kWh)涨1	91.1	102.6	204.7
	Wholesale Electricity Sales Volume (BiIIion kWh) <mark>※</mark> 2	22.2	8.8	26.8
Gas	Sales Volume (Million ton)	1.05	0.87	2.10
Fo (In	reign Exchange Rate terbank; yen per dollar)	109.8	106.9	106.1
C r (All	u d e O i I Prices Japan CIF; dollars per barrel)	70.3	36.5	43.4
Nuc Uti	lear Power Plant Capacity Ilization Ratio (%)	-	-	-

#### <Fluctuation of Foreign Exchange Rate>



#### <Fluctuation of All Japan CIF>





### Seasonal Breakdown of Retail Electricity Sales Volume and Total Power Generated

Retail Ele	ctricity Sale	s Volum	e (EP	consolio	lated)				
					Uı	nit: Billion kWh			
			FY2	021					
	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Apr-Sep			
Lighting	12.89	4.34	5.49	5.06	14.89	27.78			
Power	29.60	11.16	11.71	10.79	33.67	63.27			
Total	42.49	15.50	17.20	15.85	48.56	91.05			
	FY2020						[Ref.] Year-on-	year Comparis	son
	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Apr-Sep	Jul-Sep	Apr-S	sep
Lighting	14.90	4.60	5.70	6.31	16.61	31.51	89.6%		88.2
Power	32.47	12.23	13.12	13.19	38.53	71.00	87.4%	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	89.1
Total	47.37	16.83	18.82	19.50	55.14	102.51	88.1%	-	88.8
			F	Y2021		Unit: Billion kWh			
	A		F	Y2021					
Hydroelectric	Api-Juli 3 69	Jui 1 33	Aug 1 /18	<u> </u>	Jui-Sep 	<u>Api-Sep</u>			
Thermal	0.03	0.02	0.02	0.01	0.04	0.08			
Nuclear	-								
		1		-	-	-			
Renewable etc.	. 0.02	0.01	0.01	0.01	0.02	0.04			
Renewable etc. Total	. 0.02 3.74	0.01 1.35	0.01 1.51	0.01 1.31	- 0.02 4.16	- 0.04 7.91			
Renewable etc. Total	. 0.02 3.74	0.01	 0.01 1.51	0.01 1.31 Y2020		0.04 7.91	[Ref.] Year-on-year	Comparison	
Renewable etc. Total	. 0.02 3.74 Apr-Jun	0.01 1.35	 0.01 1.51 F Aug	<u>0.01</u> <u>1.31</u> Y2020 Sep	- 0.02 4.16 Jul-Sep	- 0.04 7.91 Apr-Sep	[Ref.] Year-on-year Jul-Sep	Comparison Apr-Sep	
Renewable etc Total Hydroelectric	. 0.02 3.74 Apr-Jun 3.78	0.01 1.35 Jul 1.41	 0.01 1.51 F Aug 1.45	<u>0.01</u> 1.31 Y2020 <u>Sep</u> 1.03	- 0.02 4.16 Jul-Sep 3.89	 0.04 7.91 Apr-Sep 7.66	[Ref.] Year-on-year Jul-Sep 105.4%	Comparison Apr-Sep 101.7%	
Renewable etc Total Hydroelectric Thermal	. 0.02 3.74 Apr-Jun 3.78 0.03	0.01 1.35 Jul 1.41 0.01	- 0.01 1.51 F Aug 1.45 0.02	<u>0.01</u> <u>1.31</u> Y2020 <u>Sep</u> <u>1.03</u> <u>0.01</u>	- 0.02 4.16 Jul-Sep 3.89 0.05	 0.04 7.91  Apr-Sep  7.66  0.08	[Ref.] Year-on-year Jul-Sep 105.4% 94.2%	Comparison Apr-Sep 101.7% 96.3%	
Renewable etc Total Hydroelectric Thermal Nuclear	. 0.02 3.74 Apr-Jun 3.78 0.03	0.01 1.35 Jul 1.41 0.01		<u>0.01</u> <u>1.31</u> Y2020 <u>Sep</u> <u>1.03</u> <u>0.01</u>	- 0.02 4.16 Jul-Sep 3.89 0.05	- 0.04 7.91 Apr-Sep 7.66 0.08	[Ref.] Year-on-year Jul-Sep 105.4% 94.2%	Comparison Apr-Sep 101.7% 96.3%	
Renewable etc Total Hydroelectric Thermal Nuclear Renewable etc.	. 0.02 3.74 Apr-Jun 3.78 0.03 - 0.02	0.01 1.35 Jul 1.41 0.01 0.00	- 0.01 0.01 1.51 F Aug 1.45 0.02  0.00	<u>0.01</u> <u>1.31</u> Y2020 <u>Sep</u> <u>1.03</u> <u>0.01</u> <u>-</u> <u>0.00</u>	- 0.02 4.16 Jul-Sep 3.89 0.05 - 0.01	 	[Ref.] Year-on-year Jul-Sep 105.4% 94.2% - 123.8%	Comparison Apr-Sep 101.7% 96.3% - 123.1%	

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### **Schedules for Public Bond Redemption**

(Billion Yen)



Note: The amount redeemed for Apr. - Sep. of fiscal 2021 totaled <u>30.0 billion yen</u>.

(FY)

# Series of efforts including physical protection



### Improvement action plan for the nuclear material protection incidents Assumptions underlying the plan

- On September 22, 2021, TEPCO submitted a report summarizing the results of the causal analysis and improvement measures for the unauthorized ID card use and the partial loss of function of nuclear materials protection equipment incidents.
- Measures against the three root causes identified in the two cases and the individual causal factors were outlined in an improvement action plan which will be steadily rolled out.
- Reviews by other operators and good practices are incorporated into the improvement measures plan. The Independent Review Committee's proposals on
  recurrence prevention measures and opinions and knowledge of external third party experts will be actively incorporated into the execution of the plan.

#### **Causal analysis** Improvement measures 3 root causes that belie the three incidents Basic perspectives based on reflections on the two incidents **Causal factors** Weakness in risk recognition $\checkmark$ (common understanding) Weakness in understanding the state of Internal and external third parties Unauthorized ID the field Correctly update and maintain equipment $\checkmark$ Weakness as an organization to correct card use Design equipment assuming problems will problems occur Assumption that Take initiative in identifying and improving $\checkmark$ employees could not be an **Nuclear security culture** upon weaknesses internal threat Low understanding and awareness of nuclear Improve performance by persevering security Poor communication in the physical with the field work Partial loss of Assess protection division function of nuclear Lack of understanding of the interpretation of material protection the law Measures to address the three root causes equipment The Nuclear Power & Plant Safety culture Weakness in change management **Siting Division (Head office** Weakness in the attitude of prioritizing the √ Measures for fostering a strong culture Kashiwazaki-Kariwa NPS) field did not voluntarily address Individual causal factors new threats to physical Measures for the individual causal factors protection, and only did Unauthorized ID card use $\checkmark$ Partial loss of function of nuclear material √ what was required by the protection equipment NRA.

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### Improvement action plan for the nuclear material protection incidents Major measures

 Measures for the addressing the three root causes, measures to foster a strong culture, and measures to address individual causal factors will be implemented based on the improvement measures plan. We will also be working sincerely to respond appropriately to additional NRA inspections.

Improvement measures	Major measures				
Measure to address the three root causes	<ul> <li>Review of governance overall (management structure, internal control)</li> <li>Individual roles and responsibilities will be reorganized to strengthen involvement of senior management, and upper management of the head office and the station</li> <li>Create an information dissemination and command structure where problems on the field can be corrected swiftly by reviewing the reporting (nonconformance, problems, and execution of budget), routes, and frequency</li> <li>Organize the state of meeting bodies to review important items related to nuclear material protection</li> <li>Introduce external perspectives (third parties and internal audits) based on Independent Review Committee proposals</li> </ul>				
Measures to foster a strong culture	<ul> <li>[Fostering a nuclear security culture]</li> <li>Run PDCA cycles based on Independent Review Committee proposals to secure the effectiveness of the improvement measures plan, and have field managers, in addition to the President, the General Manger of the Nuclear Power &amp; Plant Siting Division, actively get involved in ensuring the culture permeates the mindset of workers and users to improve performance as an organization.</li> <li>[Fostering safety culture]</li> <li>Have management visit the field to increase their ability to understand the field and have them continuously improve upon their own weaknesses, especially in education and monitoring of change management, to further strengthen the safety culture.</li> </ul>				
Measures to address	<ul> <li>An improvement action plan was created based on the causal factors of each incident. Some of the main measures are described below.</li> <li>[Unauthorized ID card use]</li> <li>Measures to address defects in processes and facilities related to entering the protective area</li> <li>Physical measures (add individual identification devices)</li> <li>Introduce biometric access control devices to the surrounding protective area access control gate.</li> <li>Non-physical measures (stop using field recording devices when they fail)</li> <li>Ben the energy time of information based as instructions issued as</li> </ul>				
individual causal factors	<ul> <li>Ban the overwriting of information based on instructions issued on the field when the biometric identification device fails</li> <li>Have the person be identified at the registration center at the main office building to overwrite information</li> <li>*The above processes for entering the protected area has been rectified and is working effectively</li> <li>[Partial loss of function of nuclear material protection equipment]</li> <li>Measures to address the fact that the equipment had aged without updates</li> <li>Develop a maintenance plan according to the equipment</li> </ul>				

# Status of general inspections implemented after discovering partially incomplete safety measure renovations

- The reform team established in light of the partially incomplete safety measures renovations is conducting general inspections for not only the incomplete renovations but for the following items identified by the NRA.
  - Partially incomplete testing for the technical standards conformance confirmation of the welds
  - Installation of some fire detectors in areas that do not meet requirements
- The causes, including organizational causes, of the identified problems will be explored as the general inspections continue for countermeasures to be developed and executed.

#### <Partially incomplete safety measure renovations>

- All penetrations, including areas that can be visually inspected that were already inspected in the first round of inspections, are being checked again as part of penetration marking to centrally manage information and the state of the field. The penetration investigation will continue into winter.
- An additional 5 penetrations have been confirmed as not having inundation protection treatment. Inundation protection measures will be implemented for these penetrations. (94 penetrations of 4 different types including the 5 found here have been found to be incomplete.)

#### < Partially incomplete testing for the technical standards conformance confirmation of the welds >

- The scope of the investigation launched following the discovery that some of the filter vent expansion joint welds had not been mechanically tested, was expanded to all equipment subject to the new regulatory requirements (approx. 4,000 pieces) to investigate for similar incidents.
- The investigation found 17 pieces of equipment that required additional work because it either was mistakenly thought that it was not subject to technical standard conformance confirmation, was not included in documents or the wrong inspection methods were used. (This brings the total number of equipment that required additional work up to 23). The equipment will undergo conformance confirmation again or will be replaced as necessary.
- < Installation of some fire detectors in areas that do not meet requirements >
- The positions of all fire detectors (approx.2,000) required to be installed or adjusted as part of the new regulatory requirements were measured using lasers.
- The fire detectors were installed with the support of a contractor Fire Defense Equipment Officer but another 100 fire detectors were found to be installed in locations that do not meet the requirements (a total of 105 together with the 5 that had been already identified). In preparation for the next pre-service operator inspection, the optimal location to maximize its detection capabilities will be calculated, and fire detectors will be corrected (moved) as appropriate.



# The Current Status of Fukushima Daiichi Nuclear Power Station and Future Initiatives

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### **Current Situation and Status of Units 1 through 4**



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### Milestones of the 5<sup>th</sup> revision of Mid-and-Long-Term Roadmap(December 2019)

Maintain Overall F Dec. 2011	ramewo Nov. 2	ork of Decommissioning Schedule 2013	To be dela due to the Dec.	effects of COVID-19 2021 End of	2031	$30 \sim 40$ years after cold shutdown	
Phase 1	>	Phase 2	>	Phase 3-(1)	Pha	se 3	
Period until start of spent fuel removal (within 2 years)		Period until start of fuel debris retrieval (within 10 years)		Period until completion of decommissioning (30-40 years later)			
Major mileston	es						
Contaminated Water management	Reduce to about 150 m <sup>3</sup> /day Reduce to about 100 m <sup>3</sup> /day or less			Within 2020 Within 2025		Completed Have reduced the amount to approx. 140m <sup>3</sup> /day (FY2020)	
Stagnant water	Complete stagnant water treatment in buildings $st$			Within 2020(※)		Completed	
treatment	Reduce the amount of stagnant water in buildings to about a half of that in the end of 2020			FY2022-2024		Ongoing	
Fuel removal	Comple	omplete of fuel removal from Unit 1 – 6		Within 2031		Completed removing fuel from Units 3 and 4	
	Complete of installation of the large cover at Unit 1			Around FY 2023		Working on assembling the temporary gantry	
	Start fue	el removal from Unit 1	FY2027-2028		Same as above		
	Start fue	el removal from Unit 2		FY2024-2026		Currently preparing for ground improvement work	
Fuel debris	Start fuel debris retrieval from the first Unit			Within 2021 %To be delayed by around a year the effects of COVID-19	due to	Conducting performance verification tests for the trial retrieval device	
Tetrievai	(Start	from Unit 2, expanding the scale gradually)					
Waste management	Technic and the	al prospects concerning the processing/ disposal ir safety	policies	Around FY2021		Engaging in technical discussions	
	Eliminat waste >	ting temporary storage areas outside for rubble ar	nd other	Within FY2028(※※)		Rubble is being removed based on the storage maintenance plan	

Excluding the reactor buildings of Units 1-3, process main buildings, and High temperature incineration building.
 Excludes water treatment secondary waste and items that will be reused.

# Fuel Debris Retrieval Schedule and Process Based upon the Mid-to-Long Term Decommissioning Implementation Plan 2021

- ✓ On March 25, 2021, the Mid-and-Long Term Decommissioning Action Plan 2021 was published, an updated version of the Mid-and-Long Term Decommissioning Action Plan 2020 given the results of FY2020.
- At Unit 2, the scale of retrieval was gradually expanded from trial retrieval, and the knowledge obtained will be used to further expand the scale of retrieval from Units 1 & 3.



%These tasks shall be carried out for Unit 3 first and then examined with the intention doing the same for Unit 1

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### **Contaminated water measures**

#### Progress is being made on the three contaminated water initiatives detailed in the 5<sup>th</sup> revision of the Mid-and-long-term Roadmap (December 2019).

(1) Initiative to promote contaminated water measures following the three basic policies
 (1) Remove the contamination source, (2) don't let water near the contamination source, (3) don't let contaminated water leak out

- The strontium treated water treated using equipment other than multi-nuclide removal equipment, is treated again using multi-nuclide removal equipment and stored in welded tanks.
- Groundwater levels around the building have been kept stable at low levels through the use of land-side impermeable walls, subdrains and other multi-layered contaminated water management measures. The amount of contaminated water generated in a rain storm has also been falling as a result of repairs of building roofs and the paving over of the site premises. The amount of contaminated water generated has fallen from approx. 540 m<sup>3</sup> /day (May 2014) from before the measures were implemented to approx. 180 m<sup>3</sup> /day in FY2019 to 140 m<sup>3</sup> /day in FY2020.
- More contaminated water reduction measures will be implemented to reduce levels to below 100 m<sup>3</sup> /day by FY2025.

#### (2) Initiatives for the completion of retained water treatment

- Construction to build another retained water transfer equipment is underway to reduce building retained water levels according to plan. The floors of buildings other than the reactor buildings for Units 1-3, main processing building, and high temperature incinerator building is now consistently exposed.
- In 2020, treatment of retained water in buildings other than the reactor buildings for Units 1-3, main processing building, and high temperature incinerator building was completed. Going forward, water levels in the reactor building will be halved by FY2022 to FY2024 compared to end of FY2020 levels.
- Measures to reduce dose levels in and stabilize the zeolite sandbags that were installed in the basement of the main processing building and high temperature incinerator building immediately after the Accident as part of contaminated water measures, are being discussed.



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#### TEPCO Holdings' Response Regarding the Handling of ALPS Treated Water - 1 TEPCO Holdings' Approach to the Discharge of ALPS Treated Water

- The "Basic Policy on handling of ALPS treated water at the Tokyo Electric Power Company Holdings' Fukushima Daiichi Nuclear Power Station" (hereinafter government policy) was decided at the 5th Inter-Ministerial Council for Contaminated Water, Treated Water and Decommissioning Issues held on April 13, 2021.
- ✓ TEPCO will work to ensure that responses based on this government policy will be implemented.

<TEPCO Holdings' Approach to the Discharge of ALPS Treated Water>

#### Basic position

In discharging ALPS treated water<sup>\*1</sup> into the sea, we will ensure that the discharged water is safe by conforming to safety standards based on laws, and relevant international laws and practices, while conducting radiation impacts assessments on people and the environment<sup>\*2</sup>. Thus we will secure the safety of the public, the surrounding environment as well as agricultural, forestry and fishery products.

#### Strengthening and enhancing the scope of m o n i t o r i n g

#### Preventing leaks from tanks

#### Information dissemination and minimizing rumors

#### Appropriate compensation

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- In discharging ALPS treated water into the sea, we will further expand and strengthen our sea area monitoring efforts to minimize the adverse impacts on reputation.
- Objectivity and transparency of monitoring will be secured by asking for the cooperation of experts and the people in the agricultural, forestry, and fishery industry.
- On-site tank that store ALPS treated water will be continuously monitored for leaks and will be maintained and managed appropriately in preparation for natural disasters.
- To dispel concerns and foster understanding domestically and internationally, we will continuously provide accurate information in a highly transparent manner, regarding the impacts on the environment such as the results of measurements/analysis on the concentration of radioactive materials in the ALPS treated water before discharge; status of the discharge and the results of sea area monitoring; as well as the results of assessment of the radiation impact on the public and the environment.
- To minimize the adverse impacts on reputation, we will do our utmost in supporting industries that may be subject to potential adverse impacts on reputation at each stage from production, processing, distribution, and consumption (cultivating new markets).
  - If reputational damage is incurred as a result of the discharge of ALPS treated water despite these

 <sup>\*1</sup> Water that has been purified and treated in ALPS until levels of radioactive materials excluding tritium is lower than the regulatory standard value for safety.
 \*2 Includes any latent effects the ALPS treated water may have on the marine environment

### TEPCO's Response on the Handling of ALPS Treated Water – 2 Status of Review Regarding Design and Operation of Necessary Facilities

- In August 2021, TEPCO released status of review regarding the handling of ALPS treated water at the Fukushima Daiichi NPS.
- Ensure that radioactive materials other than tritium are purified before diluted discharge so that their concentration level sufficiently satisfies the regulatory standards. And ALPS treated water is diluted by more than 100 times with a large amount of seawater so that the concentration of tritium falls below the regulatory standards, and discharged through an undersea tunnel stretching 1 kilometer out to the sea.
- In the event of an abnormality, discharge will be stopped immediately by closing the emergency isolation valve and shutting down the pump.
- To initiate discharge around spring of 2023 as set forth in the Basic Policy, we will proceed with the review by continuing to listen to opinions from people in the region and parties concerned carefully.



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## **Other Initiatives**

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#### <TEPCO Holdings>

- July 21, 2021 The TEPCO Group Management Philosophy was updated to address the changes in society including the global trend toward carbon neutrality, increased interest in sustainable development goals (SDGs), and the need to secure electricity resilience, in addition to further increasing corporate value and fulfilling our responsibilities to Fukushima.
- August 10, 2021 The TEPCO Group Human Rights Policy, in line with the UN Guiding Principles on Business and Human Rights, was instituted for the Group to be competitive on the global stage and to further increase corporate value (created August 6, 2021)
- September 1, 2021 TEPCO Holdings established the consortium Yamanashi Hydrogen Energy Society (H2—YES) together with Yamanashi Prefecture, TORAY, TEPCO EP, Hitachi Zosen Corporation, Siemens Energy AG, Kaji Technology Corporation, Miura Co., Ltd., Nichicon Corporation after receiving a grant from the New Energy and Industrial Technology Development Organization (NEDO) for the Green Innovation Fund. The consortium will start a business developing energy demand transformation and utilization technologies using a large-scale P2G system in developing technologies for transforming energy demand and energy use.

#### <TEPCO Power Grid>

- August 23, 2021 Together with TEPCO HD and Kandenko Co., Ltd., TEPCO Power Grid signed a contract with the Singapore Power Group, which runs the gas and electricity businesses in Singapore, to consult with the 230kV underground substation construction project, the first of its kind in South East Asia (signed July 14, 2021)
- September 1, 2021 TEPCO Power Grid's joint proposal with JTOWER and Nippon Telegraph and Telephone East Corporation was selected for Tokyo Prefecture's 2021 Project for Broad Installation, Operation and Demonstration of Smart Poles in the Nishi-Shinjuku Area. An agreement was signed with Tokyo Prefecture with JTOWER as the representative operator.
- September 22, 2021 TEPCO Power Grid formed a consortium together with three other companies including Tokyo Electric Power Services Co., Ltd and World Business Associates, and signed a contract with Japan International Cooperation Agency (JICA) on the Laos Electric Utility Management Improvement Project.
- October 8, 2021 TEPCO Power Grid and a research group at the National Cerebral and Cardiovascular Center Hospital together succeeded in developing a model to predict decline in cognition based on the usage of various household appliances using electricity use data of each home (published in Sensors (Switzerland) on September 17, 2021)

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July 20, 2021	Together with Kobe University, Japan Airport Terminal Co., Ltd., and Japan Facility Solutions Inc., TEPCO Energy Partners started demonstrations to measure effectiveness of the air purification unit "Virus Free Air" in removing viruses and the energy savings of the conditioning system in Haneda Airport (demonstration started on July 18, 2021)					
August 12, 2021	TEPCO Energy Partners started the web series Gourmet TEPCO to connect discerning customers and dining establishments as part of TEPCO Management Support, a service to help stores reduce costs, save energy, and address other management-related issues and concerns.					
September 2, 2021	TEPCO Energy Partners signed a Decarbonization Lead Project Agreement with Sumitomo Realty & Development Co., Ltd. to jointly plan and execute projects to lead the decarbonization effort.					
September 30, 202	1 TEPCO Energy Partners signed the Basic Agreement on the Promotion of Electric Propulsion Ships in the Port of Kawasaki with Kawasaki-shi, ASAHI TANKER Co., Ltd. to build a new shipping infrastructure service through the popularization of zero-emission electric propulsion ships with the goal of building a sustainable circulating society that has a low impact on the environment. This is an untapped area of the transportation sector in the early stages of growth.					
October 8, 2021	TEPCO Energy Partners together with YORK BENIMARU CO., LTD and TEPCO HD started demonstrations to test the stability of electricity supply systems in emergencies comprised of solar power generation, storage batteries, electric cars, and multi-PCS with V2X functionality to increase resilience in carbon neutrality and SDGs-focused regional disaster preparedness centers.					
October 25, 2021	TEPCO Energy Partner signed a business alliance agreement regarding gas sales to households with Softbank. Softbank will begin selling gas provided by TEPCO EP with the "Softbank Gas Powered by TEPCO" gas plan to households as a gas distributor . (Sales started on October 26, 2021)					
<tepco renewab<="" td=""><td>le Power&gt;</td></tepco>	le Power>					
September 3, 2021	TEPCO Renewable Power issued ¥30 billion-worth of TEPCO Renewable Power 1 <sup>st</sup> Green Bond (3-year bond), the first issuance of green					

- bonds for the TEPCO Group (issued September 9, 2021) September 24, 2021 TEPCO Renewable Power sent the "(working title) Environmental Impact Statement in the Planning Stage for the Offshore Wind Power Generation Business of the Coast of Happo-cho and Noshiro-shi, Akita Prefecture", a document compiling the measures that would be taken to address the impact that a offshore wind power project off the coast of Happo-cho and Noshiro-shi, Akita Prefecture would have on
  - the environment to the METI Minister and the Akita Prefecture governor for their opinion from an environment conservation point of view.