# FY2016 2<sup>nd</sup> Quarter Financial Results (April 1 – September 30, 2016)

Tokyo Electric Power Company Holdings, Inc.



## **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 to be 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.

# Overview of FY2016 2<sup>nd</sup> Quarter Financial Results (Released on October 31, 2016)



## < FY2016 2<sup>nd</sup> Quarter Financial Results >

- Ordinary revenues decreased for the second consecutive year due to a decrease in the unit price of electricity resulting from fuel cost adjustments and a decrease in electricity sales.
- Ordinary expenses decreased due to the fall of fuel prices and the continued extensive cost reduction efforts on TEPCO Group level, therefore ordinary income achieved profits for the fourth consecutive year.
- However, effect caused by fuel cost adjustments decreased compared to the previous year, and ordinary income decreased for the first time in four years.
- Although net income decreased substantially due to extraordinary loss for expenses for nuclear damage compensation, it achieved profits for the fourth consecutive year.

## < FY2016 Full-Year Financial Forecasts >

 FY2016 full-year financial forecasts is to be determined, because the current situation makes it difficult to release an operation plan for Kashiwazaki-Kariwa Nuclear Power Station.

(Unit: Billion Yen)

	FY2016	FY2015	Comparison	
	Apr-Sep(A)	Apr-Sep(B)	(A)-(B)	(A)/(B) (%)
Operating Revenues	2,643.3	3,128.1	-484.8	84.5
Operating Income	292.8	385.0	-92.1	76.1
Ordinary Income	274.2	365.1	-90.8	75.1
Extraordinary Income	36.4	426.7	-390.3	-
Extraordinary Loss	168.5	465.2	-296.7	-
Net Income attributable to owners of parent	94.1	279.4	-185.3	33.7

## 2. Electricity Sales Volume/ Key Factors Affecting Performance

#### **Electricity Sales Volume** (Unit: Billion kWh) Comparison FY2015 FY2016 Apr-Sep\*(A) Apr-Sep(B) (A)-(B) (A)/(B) (%) Lighting 39.9 41.7 -1.8 95.7 79.7 97.2 Power 82.0 -2.3 119.6 123.6 96.7 Total -4.1

\* Excluding islands. Including nation-wide sales.

#### **Key Factors Affecting Performance**

	FY2016 Apr-Sep(A)	FY2015 Apr-Sep(B)	(A)-(B)
Foreign Exchange Rate (Interbank, yen/dollar)	105.2	121.9	-16.7
Crude Oil Prices (All Japan CIF, dollar/barrel)	43.8	58.8	-15.0
LNG Prices (All Japan CIF, dollar/barrel)	36.7	53.2	-16.5

			(U	nit: Billion Yen)	
	FY2016	FY2015	Compa	irison	
	Apr-Sep(A)	Apr-Sep(B)	(A)-(B)	(A)/(B) (%)	<ul> <li>Effect of fuel cost</li> </ul>
(Operating Revenues)	2,643.3	3,128.1	-484.8	84.5	adjustments -473.0 Decrease in electricity
Electricity Sales Revenues	2,211.8	2,723.5	-511.6	81.2	sales -75.0
Lighting	937.4	1,122.4	-184.9	83.5	Total of TEPCO
Power	1,274.4	1,601.1	-326.6	79.6	Holdings and three Core Operating Companies (TEPCO Fuel & Power,
Power Sold to Other Utilities and Suppliers	62.1	94.4	-32.2	65.8	TEPCO Power Grid and TEPCO Energy Partner)
Other Revenues	315.2	256.9	58.2	122.7	(after intercompany elimination)
(Written again)Grant under Act on Procurement of Renewable Electric Energy	159.8	110.2	49.6	145.0	Total of subsidiaries and
Subsidiaries / Affiliated Companies	87.8	88.8	-0.9	98.9 -	affiliated companies excluding three Core
Ordinary Revenues	2,677.1	3,163.7	-486.5	84.6	Operating Companies (after intercompany
					elimination)

			(Ur	nit: Billion Yen)	Effect of price
	FY2016	FY2015	Compa	rison	fluctuations of exchange rate, CIF and others
	Apr-Sep(A)	Apr-Sep(B)	(A)-(B)	(A)/(B) (%)	-332.0
Personnel Expenses	169.8	178.5	-8.6	95.1	Decrease in thermal
Fuel Expenses	496.2	851.9	-355.7	58.2	power generation -24.0
Maintenance Expenses	149.1	157.2	-8.1	94.8	Decrease of purchase
Depreciation Expenses	274.6	298.2	-23.6	92.1	from cooperative thermal power
Power Purchasing Costs	462.5	503.3	-40.7	91.9	companies and others
Interest Paid	39.7	44.3	-4.5	89.7	Total of TEPCO
Taxes,etc.	153.4	173.1	-19.7	88.6	Holdings and three
Nuclear Back-end Costs	26.8	28.7	-1.9	93.2	Core Operating Companies (after
Other Expenses	562.2	500.9	61.3	112.2	intercompany
(Written again)Payment under Act on Procurement of Renewable Electric Energy	227.6	157.9	69.6	144.1	elimination)
Subsidiaries / Affiliated Companies	68.2	62.1	6.1	109.9	Total of subsidiaries and affiliated companies
Ordinary Expenses	2,402.9	2,798.6	-395.7	85.9	excluding three Core
(Operating Income)	(292.8)	(385.0)	(-92.1)	76.1	Operating Companies (after intercompany
Ordinary Income	274.2	365.1	-90.8	75.1	elimination)

## 5. Extraordinary Income/ Loss (Consolidated)

(Unit: Billion Yen)

	FY2016 Apr-Sep	FY2015 Apr-Sep	Comparison
Extraordinary Income	36.4	426.7	-390.3
Gain on change in equity	36.4	_	36.4
Grants-in-aid from NDF*	-	426.7	-426.7
Extraordinary Loss	168.5	465.2	-296.7
Expenses for Nuclear Damage Compensation	168.5	465.2	-296.7
Extraordinary Income/ Loss	-132.0	-38.4	-93.5

<Extraordinary Income>

Gain on change in equity

• Effects of transfer of fuel business for thermal power generation and overseas thermal power generation business etc. to JERA

\* Nuclear Damage Compensation and Decommissioning Facilitation Corporation ©Tokyo Electric Power Company Holdings, Inc. All Rights Reserved.

#### <Extraordinary Loss>

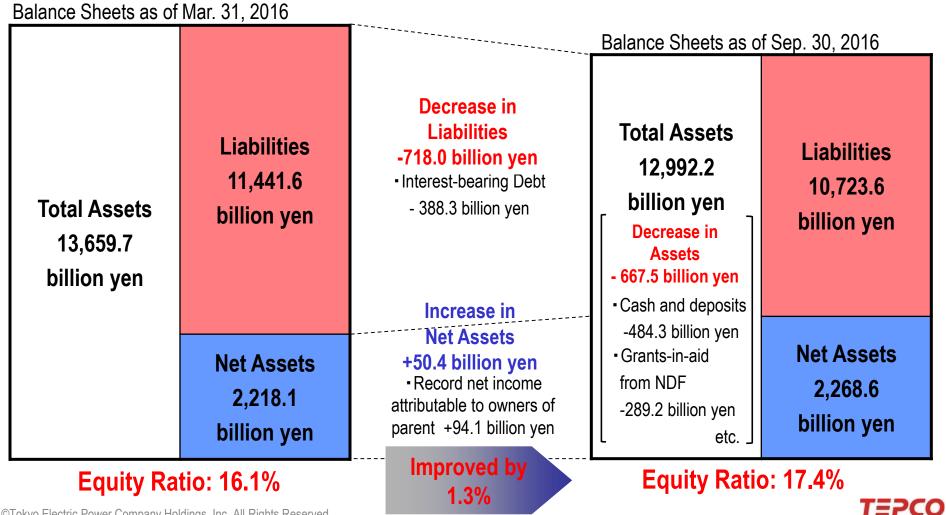
Expenses for Nuclear Damage Compensation

 Increase in the estimated amount of compensation for opportunity losses on businesses and damage to reputation among other factors

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## 6. Consolidated Financial Position

> Total assets decreased 667.5 billion yen mainly due to decline in cash and deposits. > Total liabilities decreased 718.0 billion yen mainly due to decline in interest-bearing debt. ► Equity ratio improved by 1.3%.



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# FY2016 2<sup>nd</sup> Quarter Financial Results Detailed Information



(Unit:	Billion	Yen)
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	FY2016	FY2015	Comp	arison
	Apr-Sep (A)	Apr-Sep (B)	(A)-(B)	(A)/(B) (%)
Operating Revenues	2,643.3	3,128.1	-484.8	84.5
Operating Expenses	2,350.5	2,743.1	-392.6	85.7
Operating Income	292.8	385.0	-92.1	76.1
Non-operating Revenues	33.7	35.5	-1.7	95.0
Investment Gain under the Equity Method	13.8	18.0	-4.1	76.8
Non-operating Expenses	52.3	55.4	-3.0	94.4
Ordinary Income	274.2	365.1	-90.8	75.1
(Reversal of or Provision for) Reserve for Preparation of the Depreciation of Nuclear Plants Construction	0.1	0.1	0.0	122.9
Extraordinary Income	36.4	426.7	-390.3	—
Extraordinary Loss	168.5	465.2	-296.7	—
Income Tax, etc.	47.6	45.9	1.7	103.7
Net Income attributable to non-controlling interests	0.1	1.0	-0.8	17.7
Net Income attributable to owners of parent	94.1	279.4	-185.3	33.7

			(Uni	<u>t: Billion Yen)</u>	
	FY2016 FY2015		Compa	arison	
	Apr-Sep (A)	Apr-Sep (B)	(A)-(B)	(A)/(B) (%)	
Ordinary Revenues	2,677.1	3,163.7	-486.5	84.6	
Operating Revenues	2,643.3	3,128.1	-484.8	84.5	
Operating Revenues from Electric Power Business	2,530.2	3,000.2	-470.0	84.3	
Electricity Sales Revenues	2,211.8	2,723.5	-511.6	81.2	
Lighting	937.4	1,122.4	-184.9	83.5	
Power	1,274.4	1,601.1	-326.6	79.6	/
Power Sold to Other Utilities	22.0	63.4	-41.4	34.7	- (
Power Sold to Other Suppliers	40.1	30.9	9.1	129.5	
Other Revenues	256.1	182.2	73.8	140.5	
Operating Revenues from Incidental Business	34.4	49.7	-15.2	69.3	
Non-operating Revenues	33.7	35.5	-1.7	95.0	

(Note) Total of TEPCO Holdings and three Core Operating Companies (after intercompany elimination)

## **Breakdown of Consolidated Ordinary Expenses**

			(L	Jnit: Billion Yen)
	FY2016	FY2015	Compa	arison
	Apr-Sep (A)	Apr-Sep (B)	(A)-(B)	(A)/(B) (%)
Ordinary Expenses	2,402.9	2,798.6	-395.7	85.9
Operating Expenses	2,350.5	2,743.1	-392.6	85.7
Operating Expenses for Electric Power Business	2,255.1	2,640.3	-385.2	85.4
Personnel	169.8	178.5	-8.6	95.1
Fuel	496.2	851.9	-355.7	58.2
Maintenance	149.1	157.2	-8.1	94.8
Depreciation	274.6	298.2	-23.6	92.1
Power Purchasing	462.5	503.3	-40.7	91.9
Taxes, etc.	153.4	173.1	-19.7	88.6
Nuclear Power Back-end	26.8	28.7	-1.9	93.2
Others	522.5	449.1	73.4	116.3
Operating Expenses for Incidental Business	27.2	41.2	-14.0	66.0
Non-operating Expenses	52.3	55.4	-3.0	94.4
Interest Paid	39.7	44.2	-4.5	89.8
Other Expenses	12.6	11.2	1.4	113.0

(Note) Total of TEPCO Holdings and three Core Operating Companies (after intercompany elimination)

TEPCO

## Year-on-Year Comparison of Consolidated Ordinary Expenses - 1

Personnel expe	nses (¥178.5 billi	on to ¥169.8 billio	on)				- ¥8.6 billion	
Salary and benefi	its (¥127.3 billion to ¥´	127.8 billion)					+¥0.5 billion	
Retirement benefits (¥17.3 billion to ¥8.7 billion)								
	actuarial difference - ¥7 :ion of Actuarial [	<u> </u>	o - <u>¥1.9 billion</u> )			(Unit Billion Yen)		
		Expense	es / Provisions in Eac	h Period		Amount Uncharged		
	Expenses	FY2	2015	FY2	2016	as of Sep. 30,		
	incurred	Charged	Of which charged	Charged	Of which charged	2016		
FY2013	72.8	24.2	in Apr-Sep 12.1	····.	in Apr-Sep			
FY2013 FY2014	-38.1	-12.7	-6.3	-12.7	-6.3	-6.3		
FY2014	26.6	8.8	-0.0	8.8	4.4	13.3		
Total		20.4	5.7	-3.8	-1.9	6.9		

Note: Actuarial gain and loss are amortized by the straight-line method over three years.

# Fuel expenses (¥851.9 billion to ¥496.2 billion) - ¥355.7 billion Consumption volume Approx. - ¥24.0 billion Decrease in thermal power generation Approx. - ¥24.0 billion Price Approx. - ¥332.0 billion Decrease due to fluctuations of foreign exchanges Approx. - ¥67.0 billion Decrease due to fluctuations of CIF crude oil price, and others Approx. - ¥265.0 billion

## Year-on-Year Comparison of Consolidated Ordinary Expenses - 2

Maintenance expenses (¥157.2 billion to ¥149.1 billion)							
Generation facilities (¥71.3 billion to ¥46.1 billion)			-¥25.2 billion				
Hydroelectric power (¥3.0 billion to ¥2.6 billion)		- ¥0.4 billion					
Thermal power (¥43.1 billion to ¥29.3 billion)	Main Factors for Increase/ Decrease	- ¥13.7 billion					
Nuclear power (¥25.0 billion to ¥13.9 billion)	Thermal: Decrease in expenses for periodic inspection due to decrease of the number of units which need to be inspected, and others	- ¥11.0 billion					
Renewable energy (¥0.1 billion to ¥0.1 billion)	Nuclear: Decrease in expenses for maintaining the stabilization status	+¥0.0 billion					
Distribution facilities (¥84.3 billion to ¥101.6 billion)	at Fukushima Daiichi NPS, and others		+¥17.2 billion				
Transmission (¥9.4 billion to ¥10.3 billion)	Main Factors for Increase/ Decrease	+¥0.9 billion					
Transformation (¥6.3 billion to ¥6.0 billion)	Distribution : Increase in expenses for replacement of conventional	-¥0.3 billion					
Distribution (¥68.5 billion to ¥85.1 billion)	meters with smart meters, and others	+¥16.6 billion					
Others (¥1.5 billion to ¥1.4 billion)			- ¥0.1billion				

#### Depreciation expenses (¥298.2 billion to ¥274.6 billion)

Depreciation expenses (¥298.2 billion to ¥274.6 billion)		- ¥23.6 billion
Generation facilities (¥137.6 billion to ¥119.8 billion)		- ¥17.8 billion
Hydroelectric power (¥17.3 billion to ¥11.4 billion)	- ¥5.8 billion	
Thermal power (¥82.2 billion to ¥65.7 billion)	- ¥16.4 billion	
Nuclear power (¥37.6 billion to ¥42.0 billion)	+¥4.3 billion	
Renewable energy (¥0.4 billion to ¥0.6 billion)	+¥0.1 billion	
Distribution facilities (¥156.1 billion to ¥150.1 billion)		- ¥5.9 billion
Transmission (¥74.6 billion to ¥70.5 billion)	- ¥4.1 billion	80.000.000.000.000.000.000.000.000.000.
Transformation (¥27.7 billion to ¥27.1 billion)	- ¥0.5 billion	
Distribution (¥53.6 billion to ¥52.4 billion)	- ¥1.2 billion	
Others (¥4.5 billion to ¥4.6 billion)		+¥0.1 billion

#### <Depreciation Breakdown>

	FY2015 Apr-Sep	$\rightarrow$	FY2016 Apr-Sep
Regular depreciation	¥288.4 billion		¥273.4 billion
Extraordinary depreciation	¥7.9 billion		-
Trial operations depreciation	¥1.8 billion		¥1.2 billion

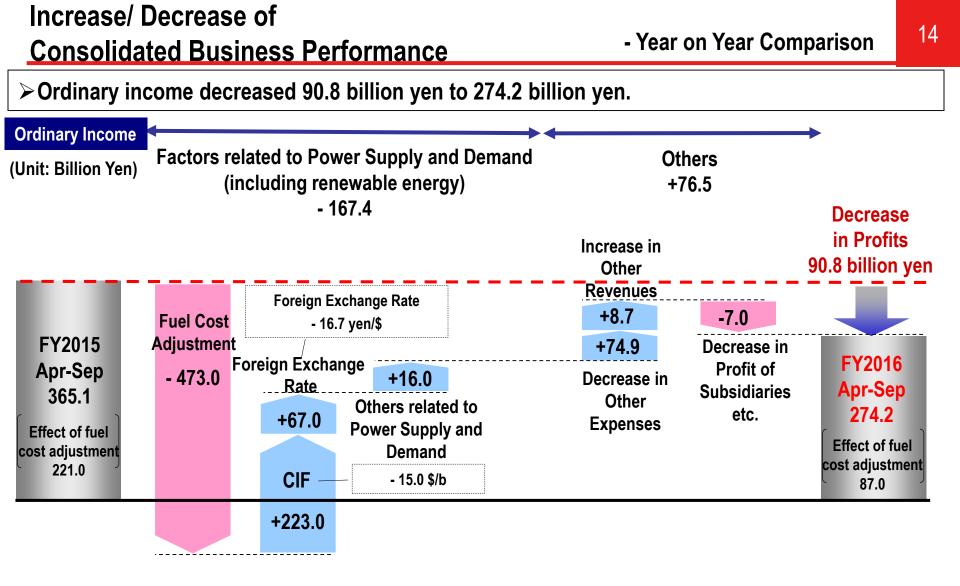
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## Year-on-Year Comparison of Consolidated Ordinary Expenses - 3

Power purchasing costs (¥503.3 billion to ¥462.5 billion)		- ¥40.7 billion			
Power purchased from other utilities (¥96.3 billion to ¥21.1 billion)		- ¥75.2 billion			
Power purchased from other suppliers (¥406.9 billion to ¥441.3 billion)		+¥34.4 billion			
Taxes and other public charges (¥173.1 billion to ¥153.4 billi	ion)	- ¥19.7 billion			
Charge for occupancy of roads (¥26.7 billion to ¥13.9 billion)		-¥12.8 billion			
Enterprise tax (¥30.9 billion to ¥25.8 billion)		- ¥5.0 billion			
Nuclear power back-end costs (¥28.7 billion to ¥26.8 billion)		- ¥1.9 billion			
Expenses for reprocessing of spent nuclear fuel (¥18.5 billion to ¥16.0 billion)		- ¥2.5 billion			
Decommissioning costs of nuclear power units (¥8.7 billion to ¥9.2 billion)		+¥0.5 billion			
Other expenses (¥449.1 billion to ¥522.5 billion)		+¥73.4 billion			
Payment on Act of Renewable Electric Energy (¥157.9 billion to ¥227.6 billion)	Main Factors for Increase/ Decrease	+¥69.6 billion			
Promotion expenses ( $\pm 0.8$ bllion to $\pm 7.6$ billion)	Payment on Act of Renewable Electric Energy : Increase due to rise in the unit price of	+¥6.7 billion			
Expenses for retirement of non-current assets (¥23.0 billion to ¥27.8 billion)	the renewable power promotion surcharge, and others	+¥4.8 billion			
Rental expenses (excluding charge for occupancy of roads) (¥52.0 billion to ¥	51.7 billion)	-¥0.2 billion			
Commission expenses (¥122.8 billion to ¥119.5 billion)		-¥3.2 billion			
Miscellaneous expenses (¥14.4 billion to ¥7.6 billion)		-¥6.7 billion			
Contribution to Nuclear Damage Liability Facilitation Fund (¥28.3 billion to ¥28	3.3 billion)	_			
Incidental business operating expenses (¥41.2 billion to ¥27	7.2 billion)	- ¥14.0 billion			
Gas supply business (¥37.6 billion to ¥24.6 billion)	Main Factors for Increase/ Decrease	- ¥12.9 billion			
Interest paid (¥44.2 billion to ¥39.7 billion)	Gas supply business: Decrease due to LNG unit purchase price, and others	- ¥4.5 billion			
Decrease in average rate during the period (1.30% to 1.24%) [T otal of four com	panies]	- ¥0.6billion			
Decrease in the amount of interest-bearing debt ( $\pm$ 6,890.7 billion to $\pm$ 6,219.0 bil	lion) [Total of four companies]	- ¥3.7billion			
Other non-operating expenses (¥11.2 billion to ¥12.6 billion)					
Bond issuance cost (¥0.0 billion to ¥1.1 billion)	Main Factors for Increase/ Decrease Bond issuance cost Increase due to issuance of ICB (Inter-company bond)	+¥1.1 billion			



> Net Income attributable to owners of parent decreased 185.3 billion yen to 94.1 billion yen

Ordinary Income/ Loss -90.8, Extraordinary Income/ Loss -93.5, Income Tax etc. +1.7, and others

TEPCO

## Financial Impact of the Great East Japan Earthquake [Extraordinary Income/ Loss]

Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation [Extraordinary Income]						
ltem	FY 2010 to FY2015	FY2016 Apr-Sep	Cumulative Amount			
- Grants-in-aid based on Nuclear Damage Compensation and Decommissioning Facilitation Corporation Act	6,357.1	-	*1 6,357.1			

Note: Journal Entry: Grants-in-aid receivable from Nuclear Damage Compensation and Decommissioning Facilitation Corporation is debited on the balance sheet.

\*1 Numbers above are those after deduction of a governmental indemnity of 188.9 billion yen,

and Grants-in-aid corresponding to decontamination expenses of 1,112.4 billion yen respectively.

oss on Disaster [Extraordinary Loss] and Gain on Reverasal of Provision for Loss on Disaster	[Extraordinary Inc	come]	(Unit: Billion Yen)
- Expenses and/ or losses for Fukushima Daiichi Nuclear Power Station Units 1 through 4	992.7	-	992.7
- Other expenses and/ or losses	389.2		389.2
Loss on Disaster Sub Total (Extraordinary Loss): (A)	1,382.0		1,382.0
Gain on reversal of provision for loss on disaster (Extraordinary Income): (B)		ļ	
<ul> <li>Difference of the restoration cost caused by re-estimation due to decommissioning of</li> </ul>	32.0	-	32.0
Fukushima Daiichi Nuclear Power Station Unit 5 and 6			
Total: (A)-(B)	1,349.9	-	<sup>*2</sup> 1,349.9
2 Cumulative amount of restoration cost caused by the Great East Japan Earthquake is 1,367.3 billion yen (inclu	uding 9.1 billion yen	recorded as Non	1-operation
Expenses for FY2014, 2.6 billion yen for FY2015 and 5.4 billion yen for Apr-Sep of FY2016)			
oss on Decommissioning of Fukushima Daiichi Nuclear Power Station Unit 5 and 6 [Extraordina	ary Loss]		(Unit: Billion Yen)
- Expenses and/ or losses for decommissioning of Fukushima Daiichi Nuclear Power Station	39.8	-	39.8
Expenses for Nuclear Damage Compensation [Extraordinary Loss]			(Unit: Billion Yen)
- Compensation for individual damages			
• Expenses for radiation inspection, Expenses for evacuation, Expenses for temporary	0.400.0	12.0	0 100 1
return, Expenses for permanent return, Mental distress, Damages caused by	2,120.3	13.0	2,133.4
voluntary evacuations, and Opportunity losses on salary of workers			
- Compensation for business damages	t		
Opportunity losses on businesses, Damages due to the restriction on shipment,	2,563.1	120.5	2,683.7
Damages due to groundless rumor, and Indirect business damages	2,000.1	120.0	2,000.1
- Other expenses	+ +		
<ul> <li>Damages due to decline in value of properties, Housing assurance damages,</li> </ul>			
Decontamination costs and Contribution to The Fukushima Pref. Nuclear Accident	2,975.0	34.8	3,009.8
Affected People and Child Health Fund			I
- Amount of indemnity for nuclear accidents from Government	-188.9	-	-188.9
- Amount of Indemniv for nuclear accidents from Government			
- Amount of indemnity for nuclear accidents from Government - Grants-in-aid corresponding to decontamination expenses	-1,112.4	-	-1,112.4

	(Unit: Billion Yen)				<interest-bearing< th=""><th>ding&gt;</th><th>(Unit: Billion Yen)</th></interest-bearing<>	ding>	(Unit: Billion Yen)	
	Sep. 30 2016 (A)	Mar. 31 2016 (B)	Compa (A)-(B)	arison (A)/(B) (%)		Sep. 30 2016 (A)	Mar. 31 2016 (B)	(A)-(B)
Total Assets	12,992.2	13,659.7	-667.5	95.1	Bonds	3,280.		6 -200.0
Fixed Assets	11,013.6	11,321.2	-307.5	97.3	Long-term Debt	2,399.	7 2,632.9	-233.1
Current Accete	4 070 E	0.000 5	250.0	04.6	Short-term Debt	538.	0 493.2	2 44.8
Current Assets	1,978.5	2,338.5	-359.9	84.6	Total	6,218.	4 6,606.8	-388.3
Liabilities	10,723.6	11,441.6	-718.0	93.7	<reference></reference>	·		
Long-term Liability	7,319.6	8,601.0	-1,281.3	85.1		FY2016 Apr-Sep (A)	FY2015 Apr-Sep (B)	(A)-(B)
Current Liability	3,397.7	2,834.5	563.1	119.9	ROA(%)	2.2	2.7	-0.5
Reserves for Preparation of the Depreciation of Nuclear Plants Construction	6.2	6.1	0.1	102.2	ROE (%) EPS (Yen)	4.2 58.77	12.5 174.41	-8.3 -115.64
Net Assets	2,268.6	2,218.1	50.4	102.3	ROA: Operating In	1		-113.04
Shareholders' Equity	2,290.6	2,196.4	94.1	104.3	ROE: Net Income (attributable to owners of parent)/ Average			
Accumulated other comprehensive income	-27.1	-0.1	-26.9					
Non-controlling interests	5.1	21.8	-16.7	23.5				

(Linit: Billion Von)

## **Consolidated Statements of Cash Flows**

			(Unit: Billion Yen)
	FY2016	FY2015	Comparison
	Apr-Sep (A)	Apr-Sep(B)	(A)-(B)
Cash flow from operating activities	330.7	808.4	-477.6
Income / loss before income taxes and minority interests	142.0	326.5	-184.4
Depreciation and amortization	282.5	308.0	-25.4
Interest expenses	39.7	44.2	-4.5
Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation	_	-426.7	426.7
Expenses for nuclear damage compensation	168.5	465.2	-296.7
Decrease (increase) in notes and accounts receivable trade*	-105.1	-13.2	-91.8
Increase (decrease) in notes and accounts payable trade**	-80.2	-47.2	-33.0
Interest expenses paid	-24.1	-46.4	22.2
Payments for extraordinary loss on disaster due to the Great East Japan Earthquake	-22.1	-23.6	1.4
Grants-in-aid from Nuclear Damage Compensation and Decommissioning Facilitation Corporation received	390.0	814.8	-424.8
Payments for nuclear damage compensation	-396.5	-539.8	143.2
Others	-63.7	-53.3	-10.4
Cash flows from investing activities	-243.6	-278.0	34.4
Purchases of property, plant and equipment	-289.7	-303.3	13.5
Payments into time deposits	-19.2	-124.8	105.5
Proceeds from withdrawal of time deposits	76.5	146.1	-69.6
Others	-11.1	3.9	-15.0
Cash flows from financing activities	-388.4	-121.8	-266.5
Redemption of bonds	-200.0	-388.1	188.1
Repayment of long-term loans	-249.1	-51.0	-198.1
Proceeds from short-term loans	537.2	493.5	43.6
Repayment of short-term loans	-492.2	-188.4	-303.8
Others	15.7	12.1	3.6
Effect of exchange rate changes on cash and cash equivalents	-3.8	0.5	-4.3
Net increase (decrease) in cash and cash equivalents**	-305.0	408.9	-714.0
Cash and cash equivalents at the beginning of the year	1,339.9	1,292.4	47.4
Decrease due to change in scope of consolidation	-96.5	_	-96.5
Cash and cash equivalents at the end of the guarter	938.2	1,701.4	-763.2
* Minus denotes an increase. ** Minus denotes a decrease.			

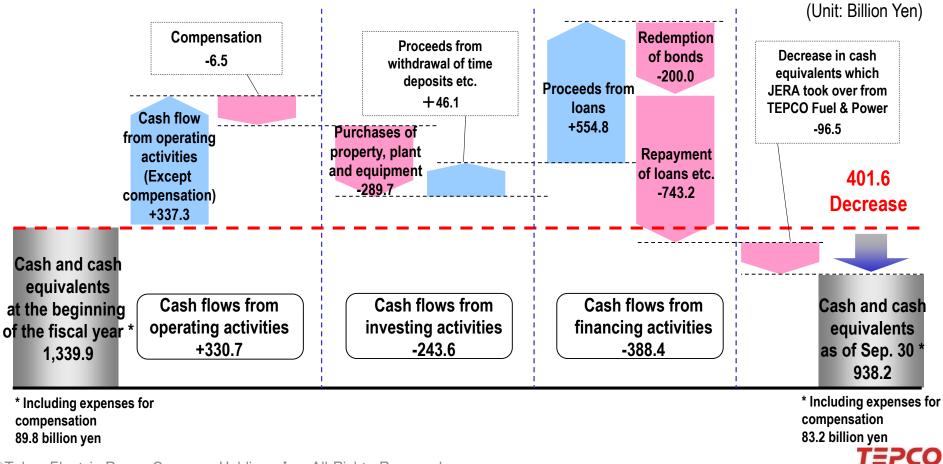
\* Minus denotes an increase. \*\* Minus denotes a decrease.



## **Overview of Consolidated Cash Flows**

Cash and cash equivalents as of September 30, 2016 decreased 401.6 billion yen to 938.2 billion yen.

- Cash flow from operating activities increased 330.7 billion yen mainly due to income before income taxes and minority interests
- Cash flow from investing activities decreased 243.6 billion yen mainly due to purchases of property, plant and equipment
- Cash flow from financing activities decreased 388.4 billion yen mainly because payment of loans exceeded proceeds from loans
- Moreover, cash and cash equivalents decreased 96.5 billion yen mainly due to decrease in cash equivalents which JERA took over from TEPCO Fuel & Power



## **Segment Information**

	FY2016	FY2015	Compai	rison	
	Apr-Sep (A)	Apr-Sep (B)	(A) - (B)	(A)/(B)	
Operating Revenues	2,643.3	3,128.1	-484.8	84.5	
Holdings	460.7	354.4	106.3	130.0	
	27.8	20.5	7.3	135.9	
Fuel & Power	812.3	1,320.3	-507.9	61.5	
	15.8	31.7	-15.8	50.0	
Power Grid	815.6	829.8	-14.2	98.3	
	129.7	82.3	47.3	157.5	
Enorgy Portoor	2,562.8	3,084.3	-521.5	83.1	
Energy Partner	2,469.8	2,993.5	-523.6	82.5	
Operating Expenses	2,350.5	2,743.1	-392.6	85.7	
Holdings	388.7	391.5	-2.7	99.3	
Fuel & Power	694.5	1,071.7	-377.2	64.8	
Power Grid	761.2	740.1	21.0	102.8	
Energy Partner	2,514.7	3,000.9	-486.1	83.8	
Operating Income	292.8	385.0	-92.1	76.1	
Holdings	72.0	-37.0	109.0		
Fuel & Power	117.8	248.6	-130.7	47.4	
Power Grid	54.4	89.7	-35.2	60.7	
Energy Partner	48.1	83.4	-35.3	57.6	
Ordinary Income	274.2	365.1	-90.8	75.1	
Holdings	69.5	14.9	54.6	465.4	
Fuel & Power	122.5	221.1	-98.5	55.4	
Power Grid	32.2	47.0	-14.8	68.5	
Energy Partner	49.3	82.0	-32.6	60.2	

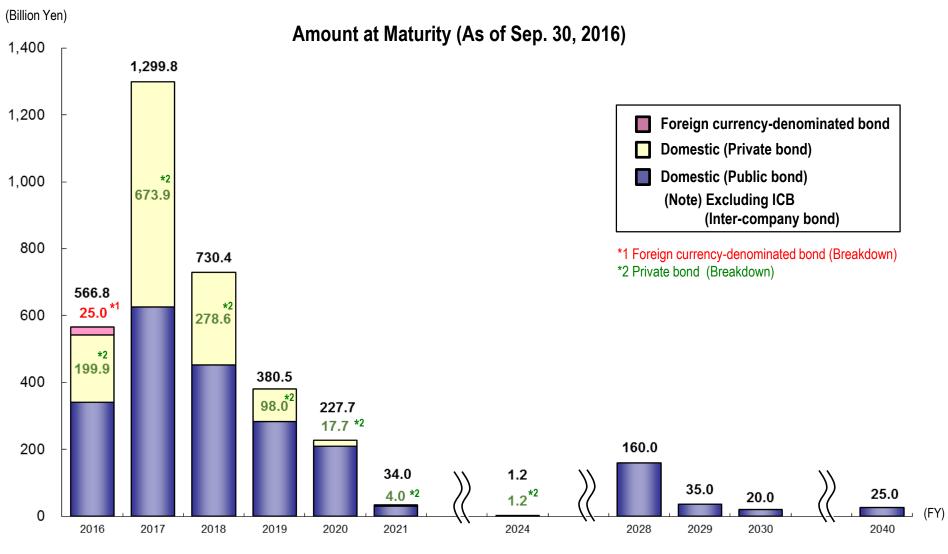
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Note1: The lower row in operating revenues section represents revenues from external customers.

Note2: We set four segments; "Holdings" "Fuel & Power" "Power Grid" and "Energy Partner," according to its business operations.

Note3: We changed calculation method of each segment's operating revenues and profit or loss. As for internal sales or transfer, we calculated using the price determined based on the market price and prime cost Note4: Segment information of FY2015 Apr-Sep was calculated and released based on the aforementioned changes.





Note: The amount redeemed for Apr.-Sep. of fiscal 2016 totaled 200.0 billion yen.

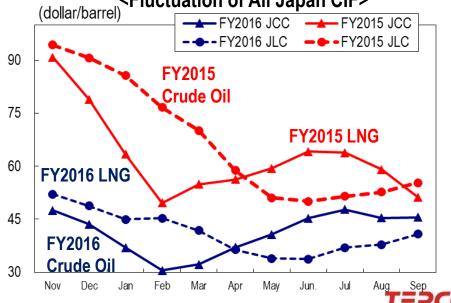
#### 20

## [Reference] Key Factors Affecting Performance and Financial Impact <sup>21</sup>

Key Factors Affecting Performance						Financial Impact (Sensitivity)			(Unit: billion yen)	
		FY2016		【Refere	ence】		FY2	016	[Reference]	
	Apr Son	Full-year	Projection	FY2015 Actual	Performance		Full-Year I	Projection	FY2015 Full-Year	
	Apr-Sep	(As of Oct. 31)	(As of Jul. 28)	Apr-Sep	Full-Year		(As of Oct. 31)	(As of Jul. 28)	Actual Performance	
Electricity Sales Volume (billion kWh)	119.6	241.4	240.2	123.6	247.1					
Crude Oil Prices (All Japan CIF; dollars per barrel)	43.8		-	58.8	48.7	Crude Oil Prices (All Japan CIF; 1 dollar per barrel)	-	-	Approx.22.0	
Foreign Exchange Rate (Interbank; yen per dollar)	105.2		-	121.9	120.2	Foreign Exchange Rate (Interbank; 1 yen per dollar)	-	-	Approx.12.0	
Flow Rate (%)	89.1	-	-	101.3	102.3	Flow Rate (1%)	-	-	Approx.1.0	
Nuclear Power Plant Capacity Utilization Ratio (%)	-		-	-	-	Nuclear Power Plant Capacity Utilization Ratio (1%)	-	-	-	
						Interest Rate (1%)	-	-	Approx.23.0	

<Fluctuation of Foreign Exchange Rate> (yen/dollar) 130 -------------------------------FY2015 **FY2015** 125 120 115 **FY2016** 110 105 100 95 Feb Mar Jul Jan Apr May Jun. Aug Sep





## [Reference] Seasonal Breakdown of Electricity Sales Volume and Total Power Generated

## **Electricity Sales Volume**

	ity bales w	June				Unit: Billion kWh					
		FY2016									
	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Apr-Sep					
Lighting	18.95	6.16	7.27	7.51	20.95	39.90					
Power	37.33	13.86	14.29	14.20	42.35	79.68					
Total	56.28	20.02	21.56	21.71	63.30	119.58					

						Unit: Billion kWh		
	FY2015							ar Comparison
	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Apr-Sep	Jul-Sep	Apr-Sep
Lighting	19.67	6.35	8.74	6.92	22.01	41.68	95.2%	95.7%
Power	38.95	14.11	15.17	13.74	43.02	81.97	98.4%	97.2%
Total	58.62	20.46	23.91	20.65	65.03	123.65	97.3%	96.7%

## **Total Power Generated**

Unit: Billion kWh

		FY2016				
	Apr-Jun	Jul	Aug	Sep	Jul-Sep	Apr-Sep
Hydroelectric	2.82	0.86	0.93	1.11	2.90	5.71
Thermal	42.53	16.01	17.07	15.38	48.46	91.00
Nuclear	0.00	0.00	0.00	0.00	0.00	0.00
Renewable etc.	0.02	0.01	0.01	0.01	0.02	0.04
Total	45.37	16.88	18.01	16.49	51.38	96.75



## [Reference] Fuel Consumption

#### **Fuel Consumption Data**

	FY2013 Actual	FY2014 Actual	FY2015 Actual	FY2016 Apr-Sep	【Reference】 FY2015 Apr-Sep
LNG(million tons)	23.78	23.49	21.55	9.97	10.70
<b>Oil</b> (million kI)	6.82	3.10	2.48	1.06	1.16
Coal (million tons)	7.76	7.53	8.34	4.03	4.01

Note: The oil data is total of crude oil and heavy oil, not including gas oil. The coal data is total of coal and biomass.

## **Fuel Procurement**

Oil				LNG				Coal			
Crude Oil		(Unit	thousand kl)			(Unit	thousand t)			(Uni	t 1
	FY2013	FY2014	FY2015		FY2013	FY2014	FY2015		FY2013	FY2014	
Indonesia	924	473	464	Brunei	2,230	2,230	1,940	Australia	6,801	5,903	
Brunei	_	_	_	Das	4,684	4,972	4,986	USA	145	38	
Vietnam	_	_	_	Malaysia	3,675	2,750	3,220	Canada		55	-
Australia	179	90	_	Papua New Guinea		403	1,604	Indonesia	830	1,458	-
Sudan	193	20	41	Australia	289	297	305				-
Gabon	286	62	_	Qatar	1,234	1,142	1,156	Russia			-
Chad	190	61	111	Darwin	2,629	2,129	2,304	Total imports	7,776	7,454	L
Other	10	0	0	Qalhat	768	548	428				
Total imports	1,782	706	616	Sakhalin	2,452	2,262	2,010				
Heavy Oil		(Unit:	thousand kl)	Spot and short-term contract	7,291	8,023	4,934				
	FY2013	FY2014	FY2015	Total imports	25,252	24,754	22,887				
Total imports	4,750	2,440	1,540							T	-

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#### 23

(Unit: thousand t)

FY2015

6,745

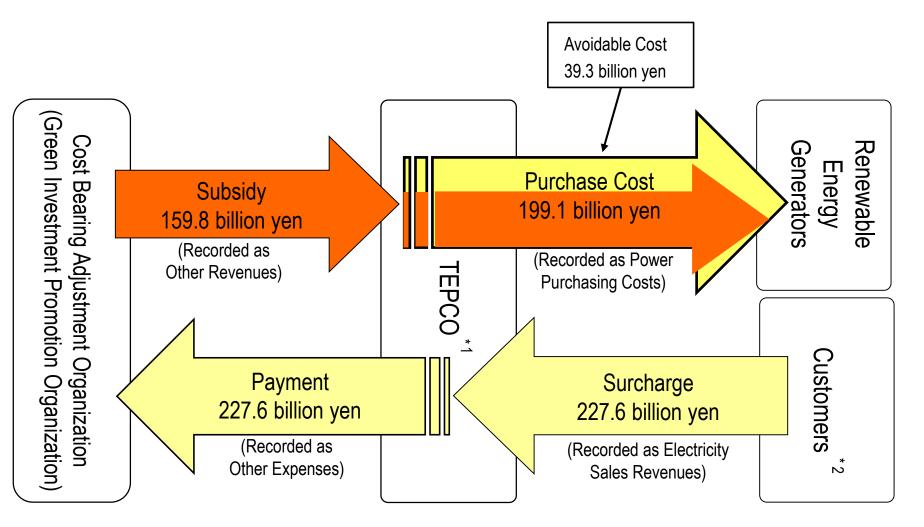
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1,402 210

8,548

## [Reference] Feed-in Tariff Scheme for Renewable Energy (Purchase Cost Collection Flow)



\*1 TEPCO Power Grid, Incorporated (islands), TEPCO Energy Partner, Incorporated (excluding islands) \*2 Including TEPCO Group Companies

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TEPCO

(FY 2016 Apr-Sep)

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



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

At Units 1, 2 and 3, it was evaluated that the comprehensive cold shutdown condition had been maintained, judging from the temperatures of the reactors and spent fuel pools as well as the density of radioactive materials. To facilitate the removal of spent fuel, works to remove large rubble, decontaminate and install shields inside the reactor building are underway.
To formulate fuel debris removal plan, the condition inside the Primary Containment Vessel are under investigation using robots, elementary particle derived from cosmic radiation and others.

	but panel Unit 2	✓Please visit our website for the latest ✓ Unit 3	information. <u>Click Here</u> . Unit 4
Reactor Primary Containment Vessel Reactor Pressure Vessel Fuel debris Vent pipe Suppression Chamber Torus room	Water Injection		Cover for fuel removal
Reactor* Temperature of the bottom of RPV: 24.7°C/ Temperature of the inside of PCV:25.1°C	28.3℃/30.9℃	28.7°C∕ 28.4°C	No Fuel
SFP* 20.8°C	18.2°C	28.5°C	No Fuel
- To remove the rubble on the Reactor Works towards Building (R/B) top floor, dismantling of wall	<ul> <li>[Spent fuel removal]</li> <li>Maintaing yard around the building has been underway.</li> <li>[Fuel debris removal]</li> <li>High density matter at the bottom of the reactor core (estimated to be fuel debris) was found by the investigation using muons, which are derived from cosmic radiation.</li> </ul>	<ul> <li>[Spent fuel removal]</li> <li>To improve work environment, removal of rubble and decontamination has been completed. Installation of shields has been underway.</li> </ul>	[Spent fuel removal] - Fuel removal from the SFP was completed in December, 2014.

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\*Temperature is as of October 24, 2016 (11:00 am).

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1=200

## Overview of the Mid-to-long Term Roadmap towards the Decommissioning of Fukushima Daiichi Nuclear Power Station - 1

- TEPCO, jointly with the national government, released "Mid-to-long Term Roadmap towards the Decommissioning of Fukushima Daiichi Nuclear Power Station Units 1 through 4" in December, 2011. Based on the continually-revised Roadmap, TEPCO, jointly with the national government, is advancing its efforts to maintain the units' stabilization and to decommission them in safe.
- In June 2015, the third revision was made.
- Decommissioning is expected to complete in 30 to 40 years from completion of Step2 (in December 2011), "Release
  of radioactive materials is under control and radiation doses are being significantly held down".
- < Main Points of the third revision >
  - 1. Emphasize on risk reduction
  - 2. Make target process (milestone) clear
  - 3. Strengthen trusting relationship with local people and others by thorough disclosure of information
  - 4. Further reduction of the workers' exposure dose level, and to strengthen the management of the workers' safety and health environment
  - 5. Enhancement of the role of Nuclear Damage Compensation and Decommissioning Facilitation Corporation in the strategy of decommissioning technologies
- < Target process of removal of fuel and fuel debris of each unit > Removal of fuel from spent fuel pool

1.01		
	Start at Unit 1	FY2020
	Start at Unit 2	FY2020
	Start at Unit 3	FY2017
Ren	noval of fuel debris	
	Decision on policy for each Unit	2 years after revising the roadmap in June 2015

	Toaumap in June 2015
Determination of methods for the first Unit	First half of FY2018
Start of the removal at the first Unit	The end of 2021

Source: Cabinet and other meetings concerning decommissioning and contaminated water countermeasures (June 12, 2015) ©Tokyo Electric Power Company Holdings, Inc. All Rights Reserved. 26

## Overview of the Mid-to-long Term Roadmap towards the Decommissioning of Fukushima Daiichi Nuclear Power Station - 2

<Main target process of the Decommissioning>

Area	Previous	Future efforts	
Area	efforts	Phase 2 (until commencement of fuel debris rmoval)	Phase 3 (until decommissioning completed)
		~FY2015 / FY2016 / FY2017 / FY2018 / FY2019 / FY2020 /	, Completion of Phase 2 (December 2021)
Contaminated	d water measures		
Eliminate	ALPS cleanup of contaminated wat		
Isolate	Pump up groundv via groundwater b		ned area
Prevent leakage	Increase tanks etc	tc Store all water treated for high-level contamination in welded tanks	
Complete of Retained water processing	Surveys of retaine in buildings etc	Lower building water level / sever from recirculating cooling water line / Complete treating clean up and remove retained water V Halve the quantity of radioactive materials	tment of water retained inside buildings n retained water
Fuel removal	Removal completed	d at Unit 4 (Dec. 2014) Determine	methods for treating and storing the fuel removed
Unit 1	Building cover dis	ismantled etc Remove large rubbles etc Install cover etc Remove fue	
	Preparation work		
Unit 2	of	V     V       Determine scope of disassembly and renovation     Select plan       Plan (1)     Install containers etc       Remove fuel       Install cover etc       Remove fuel	
Unit 3	Remove large rub	bbles etc Install cover etc Remove fuel	
Fuel debris		Determine removal policy  V Finalize removal method for initial unit V	Commence removal at initial unit
Removal	Ascertain status in	nside reactor containment vessel/ review methods for removing fuel debris etc	Remove fuel debris / review treatment and disposal methods etc
Waste materia	I measures		
Storage management	Store according to classification / for storage managem	ormulate Implements storage management in accord with storage	
		$\nabla$ coordinate basis approach to tractment and dispess	Conduct technical revision of treatment and dispose
Processing /		Coordinate basic approach to treatment and disposal	V

## **Contaminated Water Management**

- In December 2013, the government's Nuclear Disaster Response Headquarters arranged a set of preventative and multi-tiered measures based on the three basic policies for addressing contaminated water issues.
- The countermeasures for "Isolate water from contamination" and "Prevent leakage of contaminated water" including subdrain operation were significantly proceeded. TEPCO will continue to decrease the risk of "increase" and "leakage" of contaminated water.

#### <Main countermeasures>

#### 1. Eliminate contamination sources

- Multi-nuclide removal equipment (ALPS)
- · Remove contaminated water in the trenches

#### 2. Isolate water from contamination

- Pump up groundwater for bypassing
- Pump up groundwater near buildings
- -Land-side frozen impermeable walls
- Waterproof pavement

#### 3. Prevent leakage of contaminated water

- Soil improvement by sodium silicate
- -Sea-side impermeable walls
- Increase tanks (welded-joint tanks)

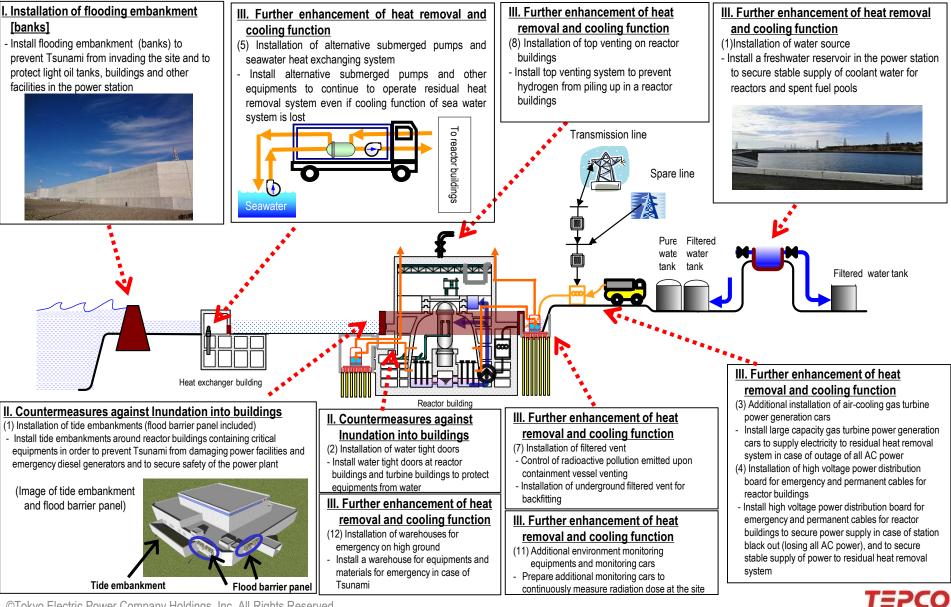
	< Major Progress>					
tion sources	Subdrain Operation > Groundwater pumped up through wells near reactor building(Subdrain system) are discharged after purification buildingted facilities and emplits test (As of October 92, 2016, 2,00cm, the total and employed after purification					
nent (ALPS)	by dedicated facilities and quality test.(As of October 23, 2016, 3:00pm, the total volume of groundwater discharged is 210,146t). <u>Land-side frozen impermeable walls</u>					
in the trenches	Freezing started on March 31, 2016 for the whole of the sea side and a portion of the mountain side. Regarding the sea side, almost all of observation points under the groundwater level except unfrozen parts under the					
ntamination	seawater piping trench declined to 0°C or lower by the end of September. Regarding the mountain side, groundwater inflow into buildings from the mountain side will be decreased by closing a part of unfrozen parts (about 2 parts).					
/passing	Sea-side impermeable walls					
buildings	<ul> <li>On Oct. 26, 2015, the seaside impermeable walls was completed to be closed.</li> <li><u>Removal of contaminated water in trenches</u></li> <li>On Dec. 21,2015, the removal of contaminated water in seawater piping trench of Unit 4 and filing up of trench were completed. As a consequence, the removal of about 10,000t of contaminated water in trenches of Unit 2-4</li> </ul>					
ble walls						
	was completed.  Groundwater bypass  Land-side Impermeable Wall  Groundwater bypass  Groundwater  Grou					
aminated water	Groundwater levels					
silicate	groundwater Upper permeable layer					
tanks)	Low-permeable layer					
	Low-permeable layer					

# The Current Status of Kashiwazaki-Kariwa Nuclear Power Station and Future Initiatives



## Main Measures to Secure Safety – 1 [Outline]

We promote the following measures to secure further safety after the Great East Japan Earthquake.



## Main Measures to Secure Safety - 2 [Implementation Status]

							As of Oct. 26, 2016
ltem	Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7
I . Installation of flooding embankment [banks]	Completed Completed						
II . Countermeasures against inundation into buildings							
(1) Installation of tide embankments (flood barrier panel included)	Completed	Completed	Completed	Completed	All close	ed under 15 meters abov	ve sea level
(2) Installation of water tight doors on reactor buildings, etc.	Completed	Under consideration	Under construction	Under consideration	Completed	Completed	Completed
(3) Countermeasures against inundation into heat exchanger buildings	Completed	Completed	Completed	Completed	Completed	-	- -
(4) Installation of tide barriers for switching stations*1				Completed			
(5) Reliability improvement of inundation countermeasures (countermeasures against flooding inside buildings)	Under construction	Under consideration	Under construction	Under consideration	Under construction	Under construction	Under construction
${\rm I\!I\!I}$ . Further enhancement of heat removal and cooling function							
(1) Installation of water source				Completed			
(2) Installation of storage water barrier	Completed	Under consideration	Under consideration	Under consideration	Completed	Completed	Completed
(3) Additional installation of air-cooling gas turbine power generation cars	Completed						
(4)-1 Installation of high voltage power distribution board for emergency	Completed						
(4)-2 Installation of permanent cables for reactor buildings	Completed	Completed	Completed	Completed	Completed	Completed	Completed
(5) Installation of alternative submerged pumps and seawater heat exchanging system	Completed	Completed	Completed	Completed	Completed	Completed	Completed
(6) Installation of alternative high pressure water injection system	Under construction	Under consideration	Under consideration	Under consideration	Under construction	Under construction	Under construction
(7) Installation of aboveground filter vent	Under construction	Under	Under consideration	Under consideration	Under	Termination of performance test*2	Termination of performance test*2
(8) Installation of top venting on reactor buildings	Completed	Completed	Completed	Completed	Completed	Completed	Completed
(9) Installation of hydrogen treatment system in reactor buildings	Completed	Under consideration	Under consideration	Under consideration	Completed	Completed	Completed
(10) Installation of facilities to fill water up to the top of containment vessels	Completed	Under consideration	Under consideration	Under consideration	Completed	Completed	Completed
(11) Additional environment monitoring equipment and monitoring cars				Completed			
(12) Installation of warehouses for emergency on high ground*1				Completed			
(13) Improvement of earthquake resistance of pure water tanks on the Ominato side		-				Completed	
(14) Installation of large-capacity water cannons, etc.				Completed			
(15) Multiplexing and reinforcing access roads				Completed			
<ul> <li>(16) Environmental improvement of the seismic isolated building</li> <li>(17) Reinforcement of the bases of transmission towers*1 and earthquake resistance of the switchboards*1</li> </ul>	Under construction Completed						
(18) Installation of tsunami monitoring cameras	Under construction Completed						
(19) Installation of Coriumu Shield*1	Under consideration	Under consideration	Under consideration	Under consideration	Under consideration	Under construction	Completed

\*1 TEPCO's voluntary safety measures \*2 Peripheral works are ongoing ©Tokyo Electric Power Company Holdings, Inc. All Rights Reserved. 30



## Compliance Review under the New Regulatory Requirements – 1

- In November 2013, the Nuclear Regulation Authority (NRA) started reviews for Kashiwazaki-Kariwa Nuclear Power Station Units 6 and 7 as to their compliance under the New Regulatory Requirements.
- At present, regarding plant examination, the method of seismic design/tsunami-resistant design and the installation of emergency response facility at Unit 5 reactor building are under examination.

#### <Review Status regarding Earthquake/Tsunami Countermeasures Examination>

- ➤As to the design basis seismic ground motion and tsunami assessment, activity of the faults found beneath the power station site and its vicinity, stability of the foundations and side slopes of reactor buildings etc. and the impact assessment of volcanic activity, the NRA approved the documents regarding the reviews, that TEPCO submitted to NRA.
- ➤ 30 review meetings and 89 interviews regarding earthquake/tsunami countermeasure examinations had been conducted as of October 26, 2016.

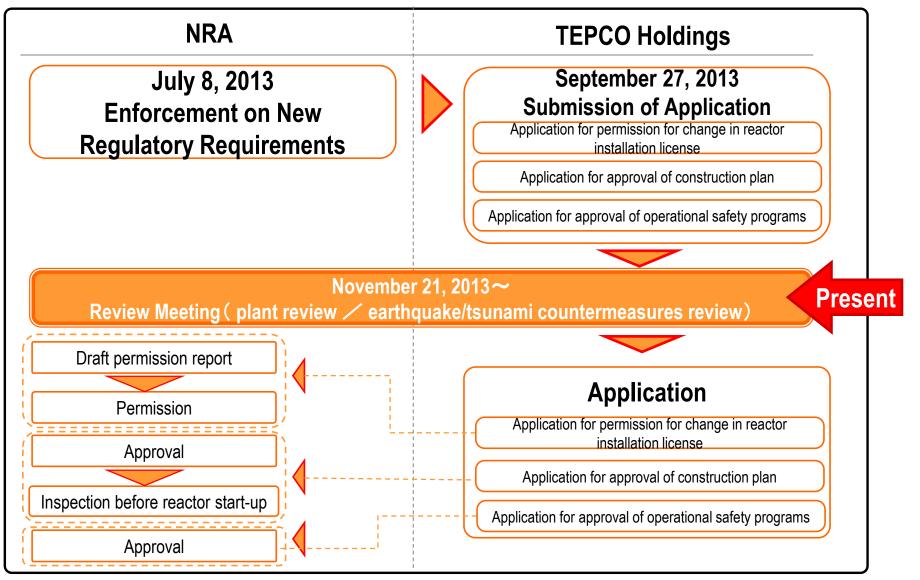
#### <Review Status regarding Plant Examination>

- The discussion on seismic response analysis of buildings, which TEPCO presented, has been settled. At present, the method of seismic design/tsunami-resistant design and the installation of emergency response facility at Unit 5 reactor building are under examination.
- >85 review meetings and 465 interviews regarding plant examinations had been held as of October 26, 2016.



## **Compliance Review under the New Regulatory Requirements - 2**

## <Review Process>



## **Other Initiatives**

<Cost reduction>

- In the New Comprehensive Special Business Plan, TEPCO\* and its subsidiaries & affiliated companies will implement further cost cuts of 1,419.4 billion yen and 108.5 billion yen, respectively from the previous Comprehensive Special Business Plan, and raise the target amount of ten years to 4,821.5 billion yen and 351.7 billion yen, respectively.
- The targets of TEPCO and its subsidiaries & affiliated companies for FY2016 are 358.9 billion yen and 34.3 billion yen, respectively.
   The prospect of achieving these targets will be determined around the end of 2016.
- The Productivity Doubling Committee works to accelerate activities for doubling TEPCO's productivity by focusing around the Productivity Doubling Projects directed by Mr. Uchikawa, Special Advisor of TEPCO, who was a former managing director at Toyota.

#### <Asset disposal>

Accumulated grand total of FY2011 to FY2013 regarding disposal of real estate, securities and subsidiaries & affiliated companies, which was the target set in the previous Comprehensive Special Business Plan, was achieved. Maximum efforts will continue to be made aiming most efficient business operation on the basis of growth strategies from the New Comprehensive Special Business Plan.

#### <Streamlining Policy of New Comprehensive Special Business Plan (cost reduction)>

	Plan	FY2	2015	FY2016		
	from FY2013 to FY2022	Plan	Outcomes	Plan	Outcomes	
TEPCO*	4,821.5 billion yen to be reduced over ten years (including additional cost cuts from the previous Comprehensive Special Business Plan of 1,419.4 billion yen)	356.8 billion yen	596.6 billion yen	358.9 billion yen	_	
Subsidiaries & Affiliated Companies	351.7 billion yen to be reduced over ten years (including additional cost cuts from the previous Comprehensive Special Business Plan of 108.5 billion yen)	34.3 billion yen	60.6 billion yen	34.3 billion yen	_	

\*After April 2016, TEPCO means Tokyo Electric Power Company Holdings, Inc., TEPCO Fuel & Power, Inc., TEPCO Power Grid, Inc. and TEPCO Energy Partner, Inc.



## Efforts towards Nuclear Reform - 1

- Framework for Nuclear Reform

- Since April 2013, TEPCO has advanced the Nuclear Safety Reform Plan so that we may realize our determination that "the Fukushima nuclear accident will never be forgotten and we will be a nuclear operator which continues to create unparalleled safety and increase the level of that safety to be greater today than vesterday and still greater tomorrow than today"
- TEPCO reports the state of progress of the Reform Plan to the Nuclear Reform Monitoring Committee, approved The "Reassessment of Fukushima Nuclear Accident and Nuclear Safety Reform Plan", on a regular basis. The Reform Plan is steadily implemented on the basis of the initiatives proposed by the Committee.

#### <Framework for Nuclear Reform>

	Board of Directors					
		Advice Suggestion				
Nuclear Reform Monitoring Committee         (Established in September, 2012)           Monitoring and supervising efforts of nuclear reform, then reporting and suggesting to the Board of Directors						
Dale Klein, Chairman (former Chairman of the U.S. Nuclear Regulatory Commission) Barbara Judge, Vice Chairman (former Chairman of the U.K. Atomic Energy Authority) Masafumi Sakurai, committee member (former member of the National Diet of the Japan Fukushima Nuclear Accident Independent Investigation Commission) Fumio Sudo, committee member (Chairman of Tokyo Electric Power Company Holdings, Inc.) Supervise/Monitor						
Nuclear Safety Oversight OfficeOn April 1,2015, the Nuclear Safety Oversight Office, which reportsto the Board of Directors, was reorganized so that it now reportsdirectly to the President.Dealing with nuclear safety through supervising and consultingactivities, but from a much closer position to the front line of nuclear		Nuclear Reform Special Task Force (Established in September, 2012) Implementing nuclear reform under the supervision of the Committee	Social Communication Office (Established in April, 2013) Instilling corporate behaviors sensitive to social standards throughout TEPCO and promoting prompt and appropriate information disclosure through routinely collecting and analyzing information on potential risks			
process on nuc	o involving more directly with the decision-making clear safety	Nuclear Pow	er & Plant Siting Division			
Fukushima Daiichi Decontamination & Decommissioning Engineering Company (Established in April, 2014) An internal entity established for the purpose of clarifying the responsibilities allocation and focusing solely on handling of decommissioning and contaminated water Positioning "Chief Decommissioning Officer (CDO)" as Company President Assigning three experienced executives invited from nuclear power manufacturers to the Vice President. In addition, as of June 30,2015, Yoshikazu Murabe, a managing director at the Japan Atomic Power Company, was brought in to serve as Senior Vice President and his responsibilities will focus on waste						
	aintaining safety at Units 5 & 6, radiation & chemica	•				

## Efforts towards Nuclear Reform – 2

#### - Report on Status of the Nuclear Safety Reform Plan

The Nuclear Safety Reform Plan consists of 6 measures that compensate for the lack of "safety awareness", "technological capability" and "dialogue-promoting capability" which are the underlying contributors for accidents and aim for improving them.
Three years have been passed since the Nuclear Safety Reform started. We implemented a self-assessment to determine how close we are to achieving the desired effects of Nuclear Safety Reform Plan and reported it to Nuclear Reform Monitoring Committee on Sep. 2. (http://www.tepco.co.jp/en/press/corp-com/release/2016/1321252\_7763.html)

Measures	Recent Principal Activities ([Resource] Nuclear Safety Reform Plan Progress Report released on Aug 2, 2016)
Reform from Top Management	<ul> <li>In order to promote nuclear safety reforms, the General Manager of the Nuclear Power and Plant Siting Division has strengthened activities to enhance understanding about expectations and the reasons behind them.</li> <li>As part of activities to make nuclear safety culture more widespread, the officers in charge of safety at contractor head offices gather for nuclear safety information meetings.</li> </ul>
Enhancement of Oversight and Support for Management	<ul> <li>The Nuclear Safety Oversight Office (NSOO) has confirmed the progress on several good practices as well as the issues needed to further the commitment of management from the aspects of behavior toward nuclear safety, and encouraged improvement of these issues by nuclear leaders.</li> <li>The pace at which the NSOO is setting new recommendations and the pace at which these recommendations are being completed are almost in line. There are still issues including the deficiency of communication between power station and the head office whose improvement needs to be accelerated and followed.</li> </ul>
Enhancement of Ability to Propose Defense-in-Depth	<ul> <li>The Second Safety Improvement Proposal Competition of 2015 has selected 11 outstanding proposals out of 220 entries.</li> <li>CAP (Corrective Action Program) activities have been initiated to good practices, third-party review results and other information besides non-conformance data incorporated to progressively make improvements.</li> </ul>
Enhancement of Risk Communication	<ul> <li>Together with Sellafield Ltd., meetings of the Fukushima-West Cumbria Study have been held monthly to learn about each other's experiences.</li> <li>In response to the request by educators in Fukushima Prefecture, Mr. Ishizaki, Representative of Fukushima Revitalization Headquarters and Mr. Masuda, President of Fukushima Daiichi D&amp;D Engineering Company gave a briefing and exchanged views with students on the progress of decommissioning at Fukushima Daiichi, compensation, decontamination and support for recovery, at a high school in Fukushima Prefecture.</li> </ul>
Enhancement of Emergency Response Capabilities of Power Stations and the Head Office	<ul> <li>Comprehensive and individual drills continue to be conducted to maintain and improve emergency response capabilities.</li> <li>In the wake of issues related to the reporting of core meltdowns, drills are conducted on responding to more rigorous scenarios as well as requests from external entities.</li> </ul>
Development of Human Resources to enhance Nuclear Safety	<ul> <li>A Nuclear Human Resources Development Center, which oversees the training of Nuclear Power Division personnel, was established at Fukushima Daini NPS, and a preparatory organization had been formed on July 1 (total staff of approximately 70 personnel).</li> <li>Education and training programs have been reorganized so that systematic education and training are to be provided.</li> </ul>

## Alliances with Other Companies to Increase Corporate Value

 Main efforts made by TEPCO Holdings and its core operating companies are as follows. (Press releases)

#### <TEPCO Holdings>

- Oct. 3, 2016 Investment in United Wind, Inc., a United States venture company that develops a customer solutions business utilizing small wind power
- Oct. 20, 2016 Companies set up to construct and run world's most advanced coal-fired thermal power plants in Fukushima for contributing to Fukushima revitalization (Mitsubishi Corporation etc.)

<TEPCO Fuel & Power>

- Sep. 26, 2016 Basic agreement regarding joint development and introduction of IoT in thermal power generation (GE Power)
- Sep. 29, 2016 Basic agreement regarding business alliance toward improving efficiency in thermal power plants inside and outside the country (Mitsubishi Hitachi Power Systems, Ltd.)

<TEPCO Power Grid>

- Aug. 1, 2016 Commencement of demonstration project of resource aggregation business through building virtual power plants (NEC Corporation etc.)
- Oct. 7, 2016 Commencement of "House cleaning service with advice on saving electricity and cleaning of outlet" (KAJITAKU Co., Ltd.)

<TEPCO Energy Partner>

- Aug. 22, 2016 Commencement of demonstration project of public power supply service (espot service) (Sony Business Solutions Corporation, Kandenko)
- Aug. 23, 2016 Basic agreement regarding commencement of a study of alliance for developing and offering service utilizing IoT in Smart Home (Sony Mobile Communications Inc.)





# The Energy for Every Challenge