

# FY2019 Consolidated Performance Forecast

March 30, 2020

Tokyo Electric Power Company Holdings, Inc.

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【Important points about the performance forecast】

- **Operating Revenue** is forecasted to decrease by 139 billion yen to approximately 6.199 trillion yen due to decreases in electricity sales volume.
- **Ordinary Income/Loss** is forecasted to decrease by 6 billion yen to approximately 270 billion yen due to decreases in operating revenue despite continual efforts by the entire Group to reduce costs.
- **Net income for the current term** is forecasted to decrease by 153 billion yen to approximately 79 billion yen as a result of appropriating work expenses included in expenditures related to fuel debris removal as extraordinary disaster loss.

# 1. Performance Forecast Overview

(Unit: Billion Yen)

	FY2019 (Forecast)	FY2018 (Actual)	Change
Operating Revenue	6,199	6,338.4	- 139
Operating Income/Loss	217 <sub>(*)</sub>	312.2	- 95
Ordinary Income/Loss	270 <sub>(*)</sub>	276.5	- 6
Extraordinary Income / Loss	- 177	- 18.2	- 159
Current Term Net Income Attributable to Owners of Parent	79 <sub>(*)</sub>	232.4	- 153

(\*) The same amount of special liabilities as last fiscal year has been temporarily included

## <Reference> Key Factors Affecting Performance

(Unit: Billion kWh)

	FY2019 (Forecast)	FY2018 (Actual)	Comparison	
			Change	Percentage (%)
Electricity Sales V o l u m e	222.1	230.3	- 8.2	96.4

(Unit: Billion kWh)

	FY2019 (Forecast)	FY2018 (Actual)	Comparison	
			Change	Percentage (%)
A r e a D e m a n d	269.8	274.7	- 4.9	98.2

	FY2019 (Forecast)	FY2018 (Actual)	Change
Exchange-rate (Interbank, yen/dollar)	108.6	110.9	- 2.3
Crude Oil Price (All Japan CIF, dollar/barrel)	67.9	72.2	- 4.3

## 2. Extraordinary Income/Loss Breakdown

### Extraordinary Income

(Unit: Billion Yen)

Breakdown	Amount
Grants-in-aid from the Nuclear Damage Compensation and Decommissioning Facilitation Corporation (NDF)	101.6
Gain on Change in Equity	199.7
Gain on Reversal of Provision for Loss on Disaster	113.5
<b>Total</b>	<b>414.9</b>

### Extraordinary Loss

(Units: Billion Yen)

Breakdown	Amount
Contingent Loss on Assets	0.3
Extraordinary Loss on Disaster	388.3
Expenses for Nuclear Damage Compensation	107.7
Loss on Decommissioning Fukushima Daini NPS	95.6
<b>Total</b>	<b>592</b>

### 3. Extraordinary Loss on Disaster breakdown

#### Disaster Extraordinary Loss

(Unit: Billion Yen)

Breakdown	Amount
T y p h o o n - r e l a t e d	17.3
The Great East Japan Earthquake related	371
F u e l d e b r i s r e m o v a l	350 (*)
O t h e r	21
Total	388.3

(\*) Based on the Mid/Long-Term Decommissioning Plan 2020” announced on March 27, the estimated 350 billion yen for debris removal preparations was included as disaster extraordinary loss, from amongst the expenditure for fuel debris removal. In addition, 1.02 trillion yen has been estimated to acquire equipment needed for decommissioning and these facilities shall be posted as assets upon acquisition.

(For the details, please refer to “Expenditure related to fuel debris removal based upon the Mid/Long-term Decommissioning Plan 2020” shown on the next slide)

**Expenditure related to fuel debris removal based upon the Mid/Long-term Decommissioning Plan 2020**

➤ Expenditure estimate based upon the work process outlined in the plan announced on March 27 of this year is 1.37trillion yen, and expenditure for work expenses included in this amount is 350 billion yen.

     ...work to be implemented based upon the Mid/Long-term Decommissioning Plan 2020

	Trial removal (Unit 2)	Scale of removal gradually enlarged (Unit 2)	Further enlargement of the scale of removal	Estimated expenditure
<b>① Prepara tory work</b>	<ul style="list-style-type: none"> <li>● Indoor environmental improvements</li> <li>● Internal investigations</li> </ul>	<ul style="list-style-type: none"> <li>● Indoor environmental improvements</li> <li>● Training/test operation</li> </ul>	<ul style="list-style-type: none"> <li>● Indoor/outdoor environmental improvements</li> <li>● PCV water level reductions</li> <li>● Dose level reductions, etc.</li> <li>● Exhaust stack dismantling</li> <li>● Transformer removal, etc.</li> </ul>	330 billion yen (* )
<b>② Equipm ent installat ion</b>	<ul style="list-style-type: none"> <li>● Removal equipment</li> </ul>	<ul style="list-style-type: none"> <li>● Fuel debris removal equipment</li> <li>● Safety systems</li> <li>● Fuel debris temporary storage facility</li> <li>● Maintenance equipment</li> </ul>	<b>(Unit 3)</b> <ul style="list-style-type: none"> <li>● Fuel debris removal equipment</li> <li>● Safety systems</li> <li>● Fuel debris storage facility</li> <li>● Maintenance equipment</li> </ul>	1.02 trillion yen
<b>③ Fuel Debris removal</b>	<ul style="list-style-type: none"> <li>● Trial removal</li> </ul>	<ul style="list-style-type: none"> <li>● Scale of removal gradually enlarged</li> </ul>	Difficult to predict	20 billion yen (* )

(\* ) Total: 350 billion yen

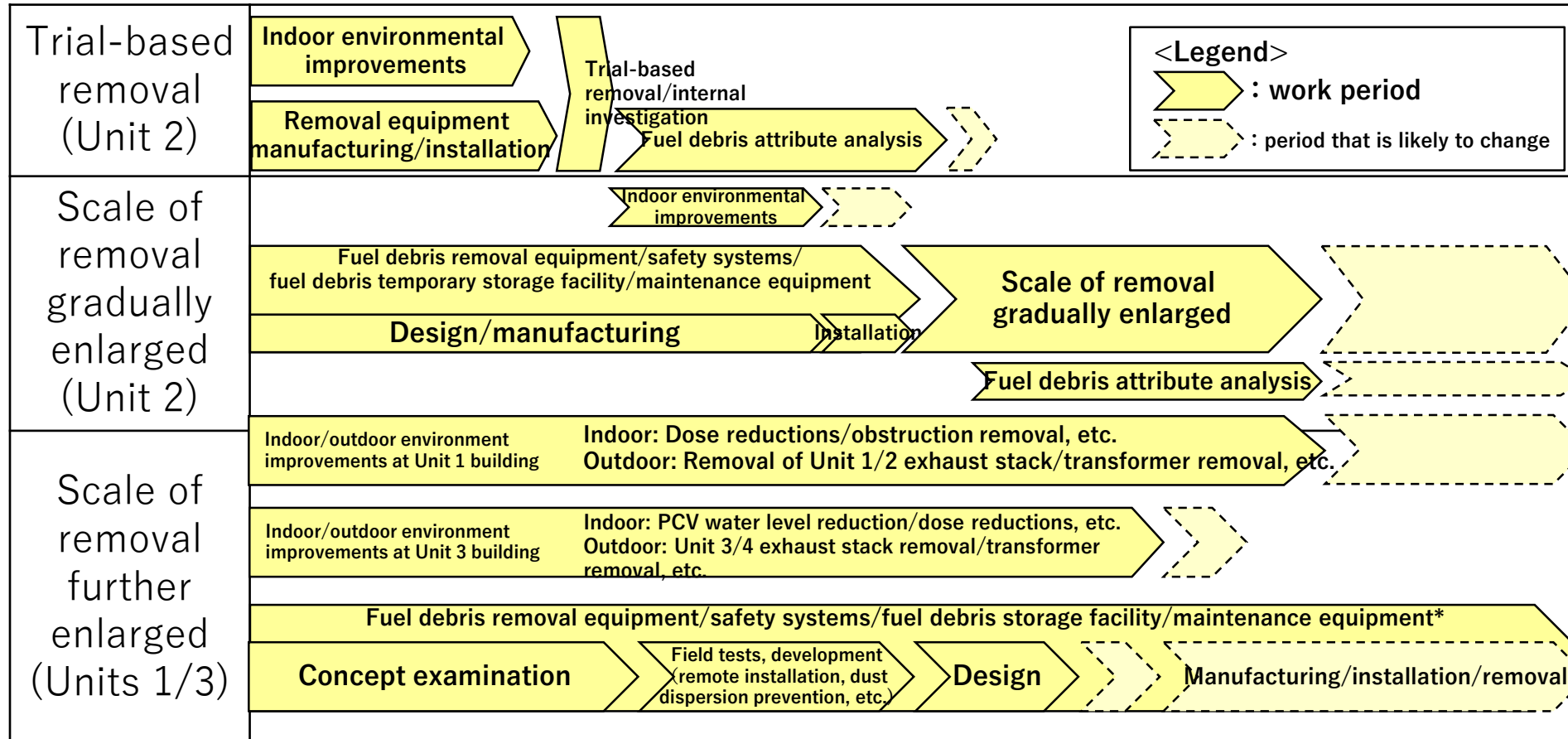
**Total 1.37 trillion yen**

# <Reference> Fuel debris removal schedule and process

- By 2031, the scale of removal will be gradually enlarged at Unit 2 and preparations will be made to further enlarge the scale of removal

▽ Commencement of fuel debris removal from the first reactor (during 2021)

End of 2031



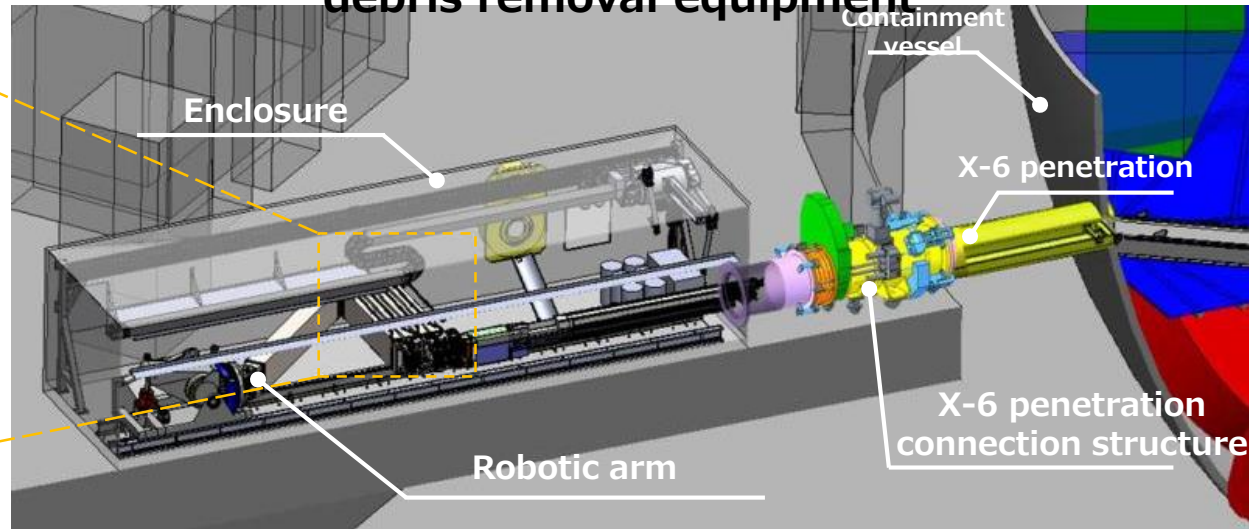
\* It is assumed that the Unit 3 will be considered first and the results will be applied to the Unit 1.

# <Reference> Tasks to be performed by 2031 (Unit 2)

- Trial removal from Unit 2 will start (during 2021)
- Based on these trials, the removal method will be examined/verified upon which the scale of removal will be gradually enlarged

**Diagram: Concept diagram of fuel debris removal equipment**

**Photo: Robotic arm**



Trial removal		Scale of removal gradually enlarged	
<p><b>Access device</b></p>	<p><b>Debris recovery devices</b></p> <p>Metal brush prototype    Vacuum container prototype</p>	<p><b>Access device</b></p>	<p><b>Debris recovery devices</b></p> <p>Gripping tool prototype    Excavation and recovery tool prototype</p>





# <Reference> Tasks to be performed by 2031 (Units 1/3)

- Further examination/implementation of internal investigations of the primary containment vessel and reactor pressure vessel
- Decide on methods to further enlarge the scale of removal based upon the knowledge obtained from the removal of fuel debris at Unit 2
- Secure site space by removing facilities outside the building (exhaust stack, etc.), and move forward with indoor dose reduction measures while at the same time designing, manufacturing, and installing fuel debris removal equipment and storage facilities

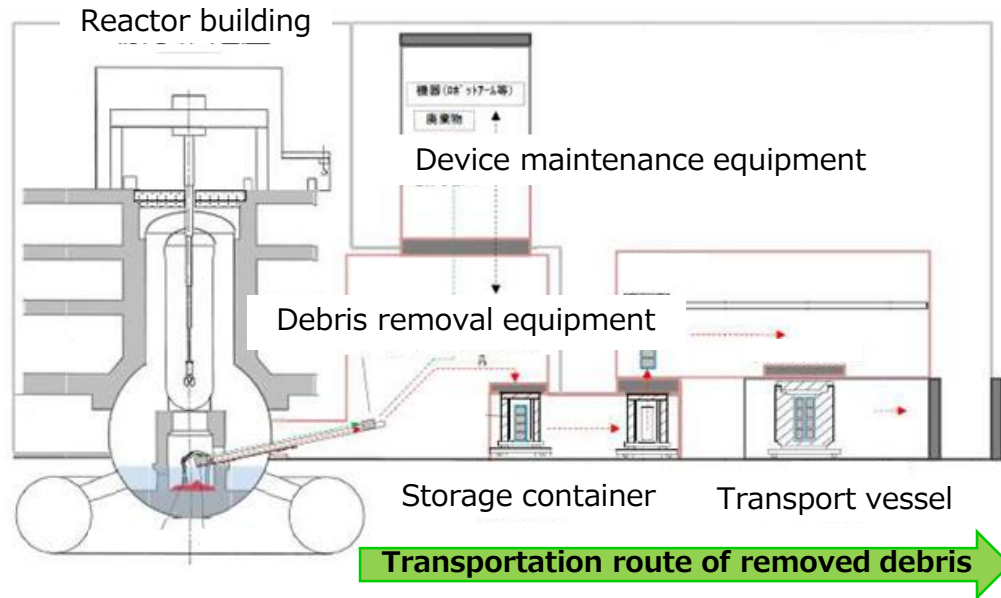
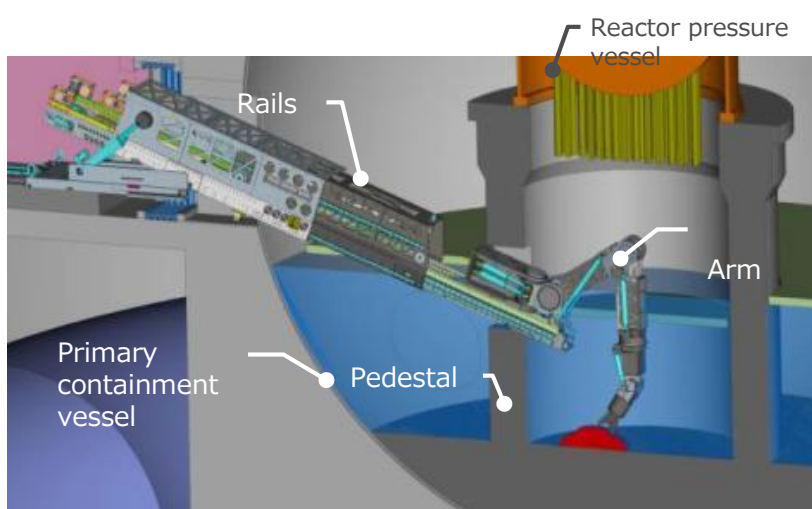


Diagram: Concept of fuel debris removal equipment that enables the enlargement of removal scale

## 1. Preparatory work

Dose reductions, obstructing equipment removal, etc.

→ Estimated based on similar work performed in the past

## 2. Required equipment

① Equipment used for the first time during debris removal  
(debris removal equipment, safety systems, etc. )

→ Estimated based on government, etc. R&D achievements

② Equipment that can be estimated using existing or similar  
equipment (debris storage facilities, maintenance equipment, etc.)

→ Estimated based on past acquisition of similar equipment or  
deliberations on such acquisitions