

CTO & VP of Fukushima Daiichi D&D Engineering Company (FDEC) Corporate Officer of Tokyo Electric Power Company Holdings, Inc.

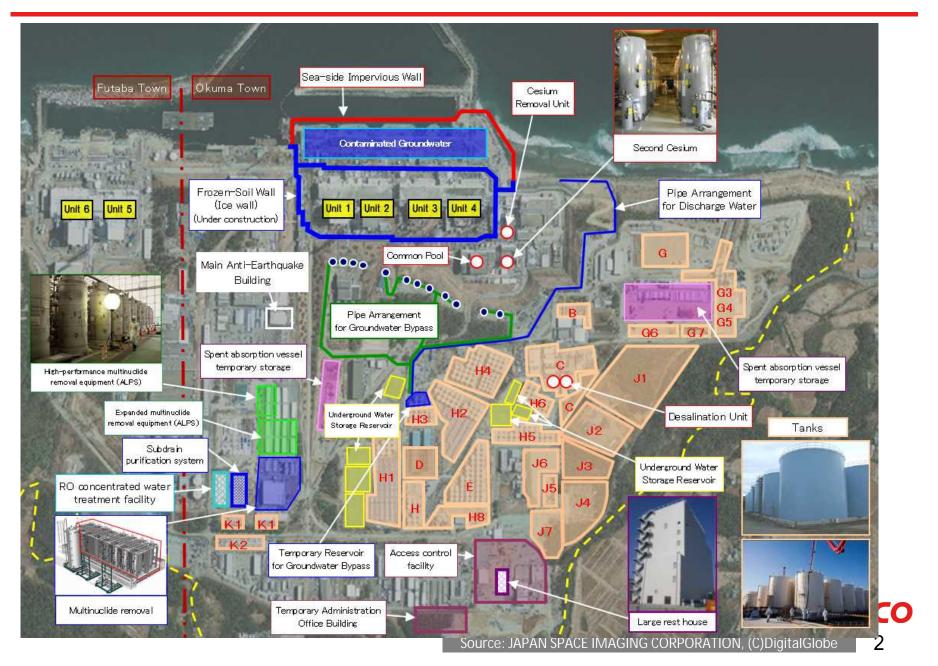


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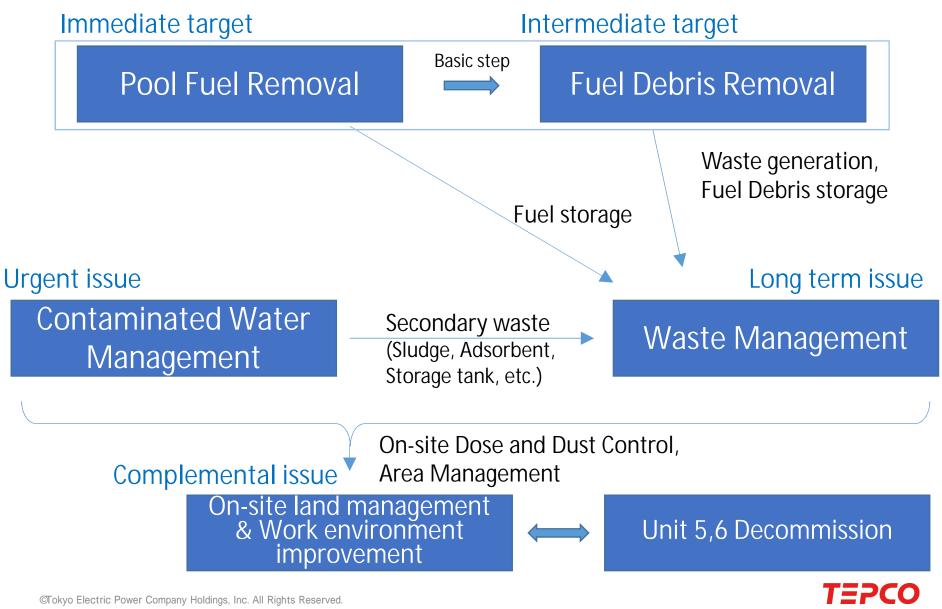
1. Current Overview of Fukushima Daiichi



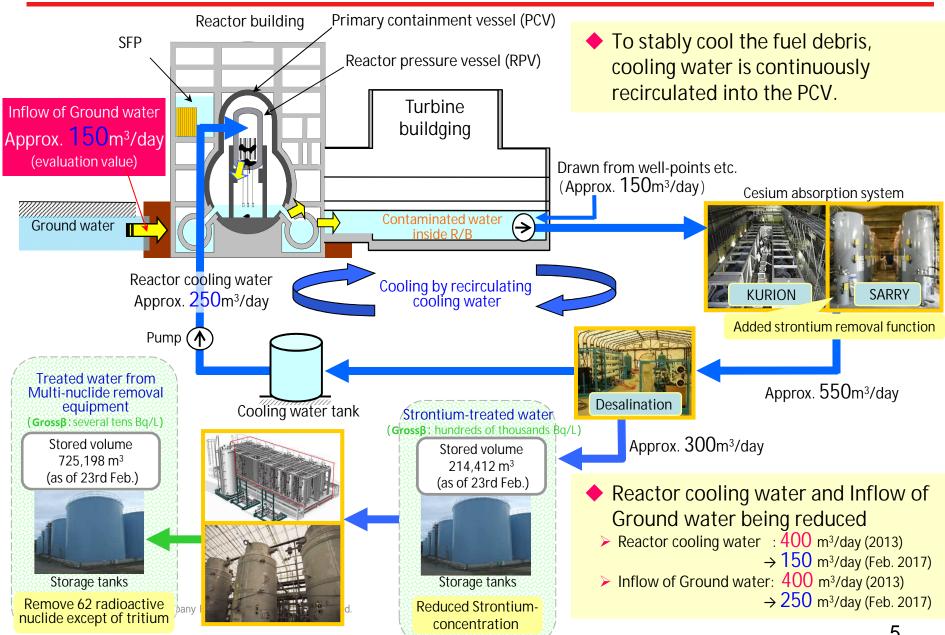
2. Basic Strategy of Fukushima Daiichi D&D

Mission	"Drive stable decommissioning of Fukushima Daiichi through dialogue with stakeholders"					
Value	Pursue resolutely safety and quality without	Build trust with society		Improve and reform through innovation		Enhance individual and organizational capabilities
	"Continuously reduce risks to protect people and environment from radiati					
Intermediate Goals	Attain a condition where safety is maintained with the minimum control					
	Manage whole decommissioning process					
Major Activities (Six Technical Programs)	value		el Debris emoval	Waste Management	On-site Manage Wo Enviror Improv	ment & Unit 5, 6 ork nment Decommission
r tograffis)	Drive technical development					
Supporting Activities	Safety and Risk Management Management				Knowledge Ianagemei	

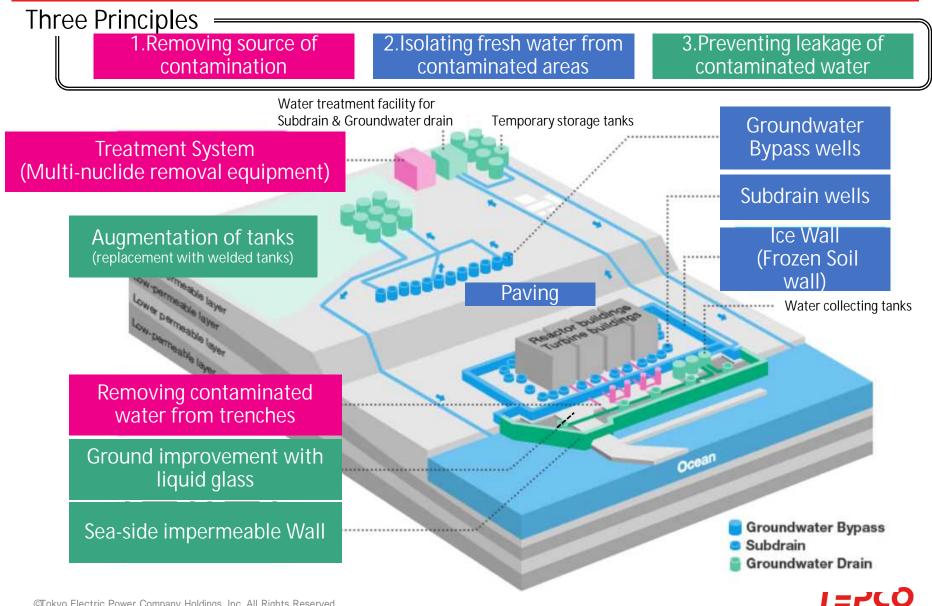
3. Six Technical Programs



3-1. Contaminated Water Management **Urgent** issue



3-1. Contaminated Water Management **Urgent** issue



3-2. Pool Fuel Removal

Immediate target

Unit 4

Pool Fuel Removal was completed on December 22, 2014 ullet



September, 2011



July, 2012



November, 2013 Completion of building steel framework for Removal





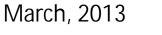


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Unit 3

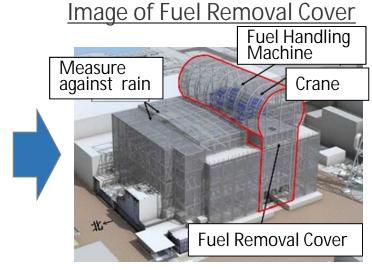
- Removal of rubbles and installation of shielding on Refueling Floor were completed
- Installation of Fuel Removal Cover and Fuel Handling Machine are in progress

Photo over the Refueling Floor





December, 2016

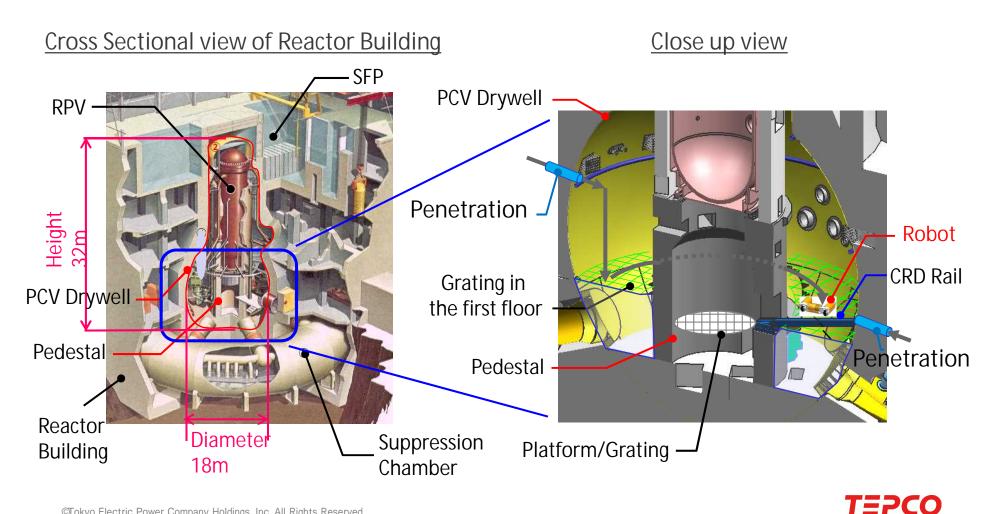




3-3. Fuel Debris Removal

Intermediate target

Investigation inside the Primary Containment Vessel (PCV)



3-3. Fuel Debris Removal

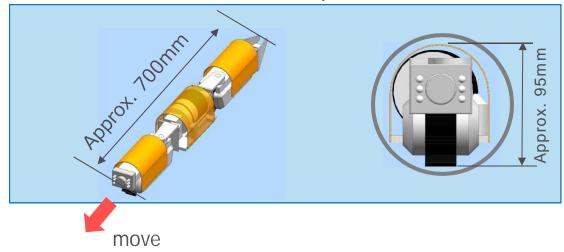
Intermediate target

Investigation inside the Primary Containment Vessel (PCV)

Unit 1 Robot

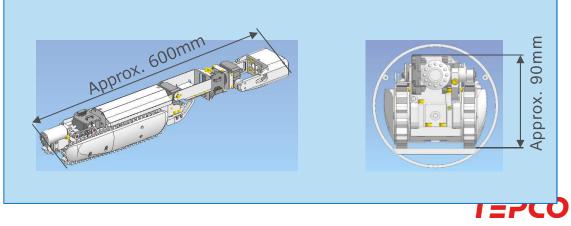


Transformation for penetration



Unit 2 Robot

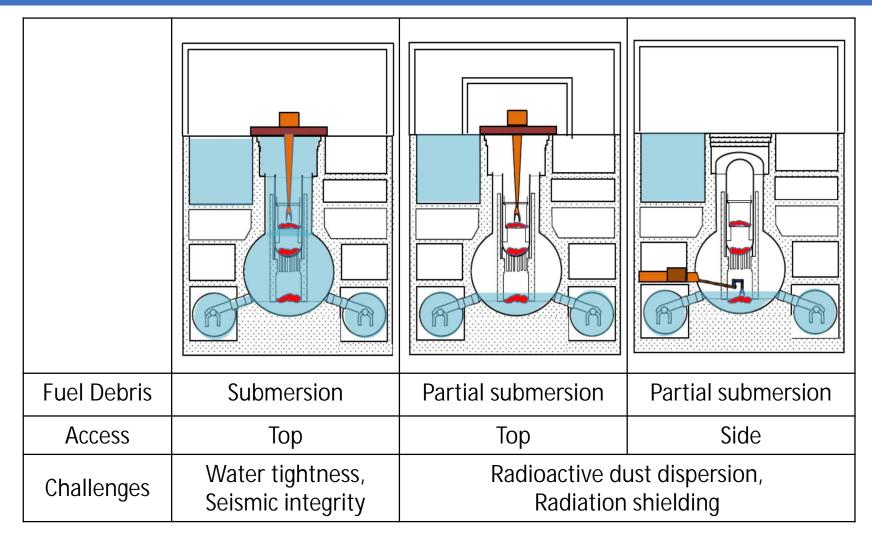




3-3. Fuel Debris Removal

Intermediate target

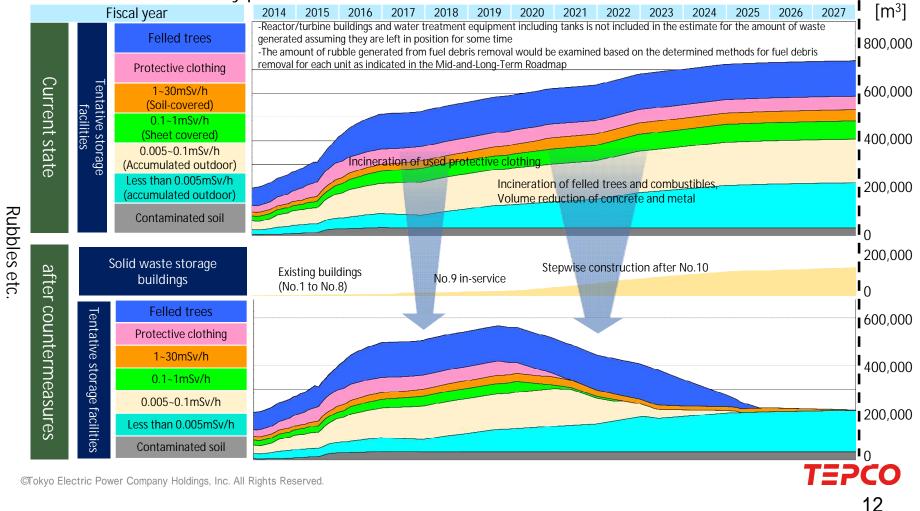
Concept of Fuel Debris Removal Methods



3-4. Waste Management

Forecast of waste generation next 10 years

- Without additional volume reduction, solid waste storage volume will reach about 750,000m³ in 2028.
- In order to store solid waste safely in storage buildings, the volume of rubbles need to be reduced as much as reasonably possible.



3-4. Waste Management

Long term issue

Construction of Solid waste storage buildings No.9



February, 2017

Image of the No.9

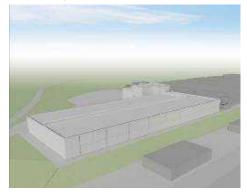
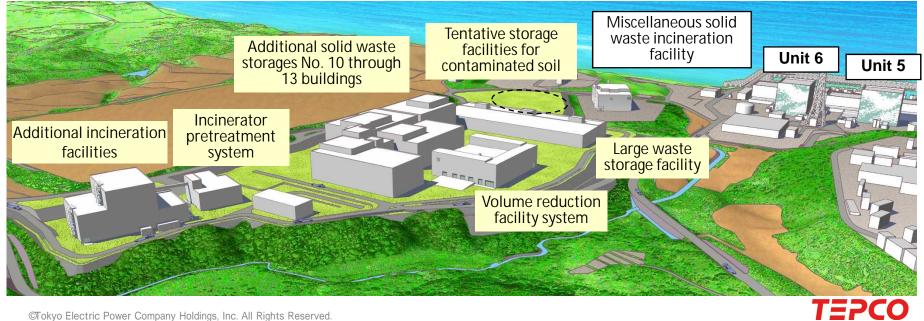
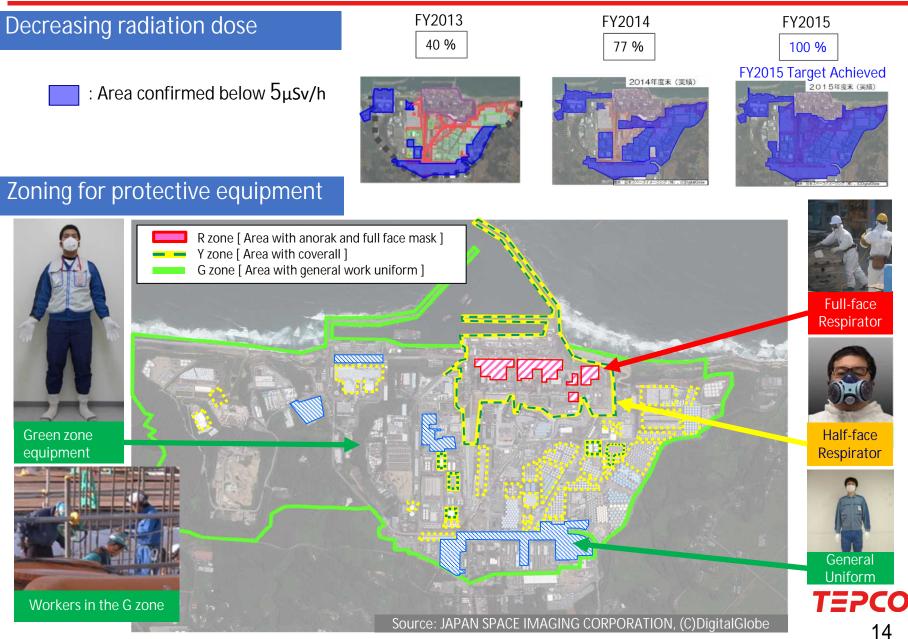


Image of the establishment of systems and facilities



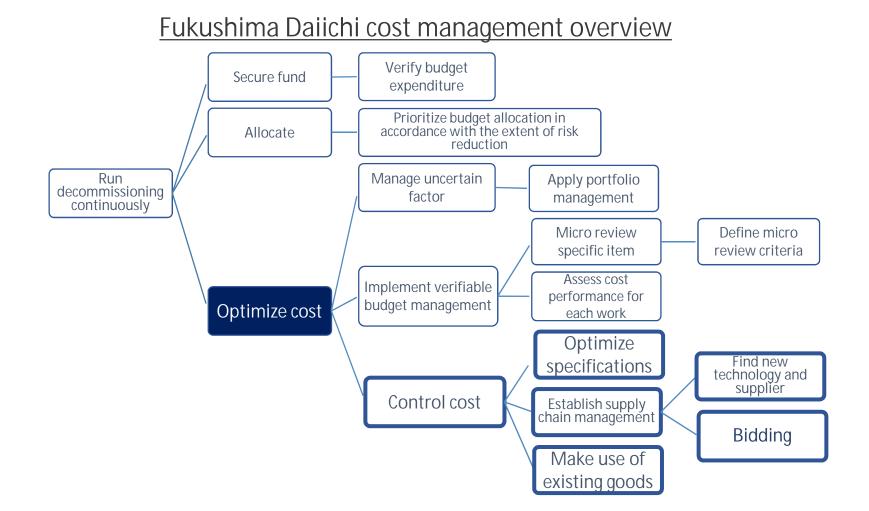
3-5. On-site Land Management & Work Environment Improvement

Complemental issue



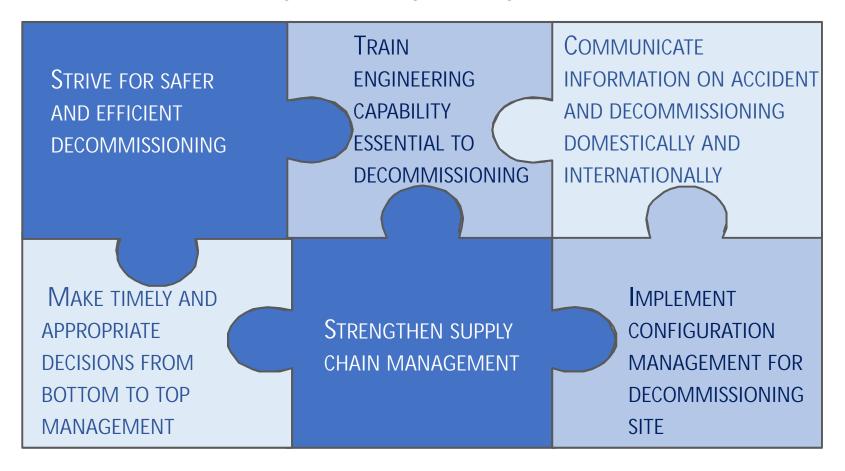
4. Supply Chain Management

Pursuit of cost effectiveness is essential to accomplish long-term D&D activity.



5. Knowledge Management

<u>6 factors with expected benefits in decommissioning</u> <u>through knowledge management</u>



6. Open Innovation Platform "TEPCO CUUSOO"

TEPCO CUUSOO

An open innovation platform for energy related technologies and ideas

In a pursuit to decommission Fukushima Daiichi, TEPCO group is seeking knowledge and expertise of research institutions and firms from across the world.

Example of keywords

- Contaminated water management
- Robotics
- ➢ Waste management

https://tepco.cuusoo.com

