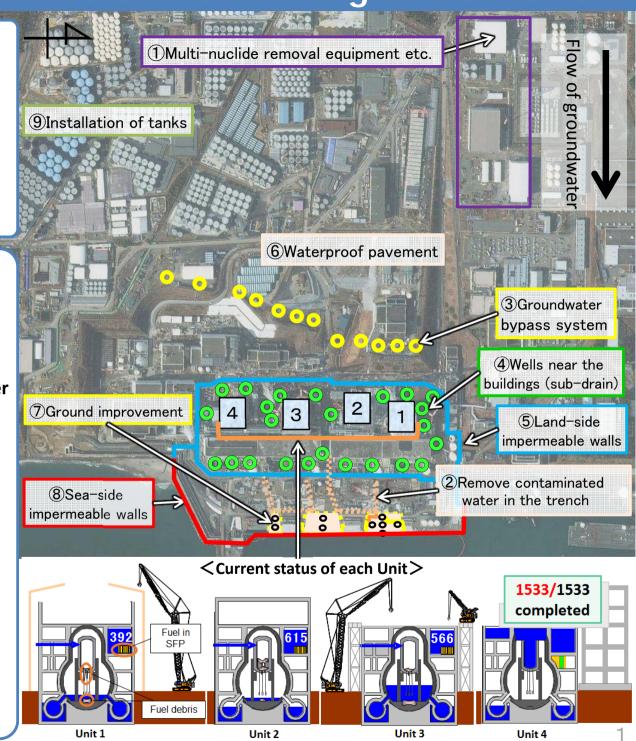
Decommissioning and Contaminated Water management activities

Decommissioning

- Fuel Removal from SFP
 - Completed in Unit 4 (December, 2014)
 - Debris removal is underway towards fuel removal from Unit 1-3 etc.
- **Removal of Fuel Debris**
 - Investigation into the PCV etc.

Contaminated Water management

- Removing the contamination source
 - Clean up contaminated water using multi-nuclide removal equipment (ALPS), etc.
 - Remove highly contaminated water from seawater pipe trench
- Isolating groundwater from contamination sources
 - 3 Groundwater bypassing system
 - Pump-up from sub-drain around the reactor building
 - **⑤** Land-side frozen soil impermeable walls
 - Waterproof pavement wide area facing
- Preventing leakage of contaminated water
 - **7** Ground solidification by sodium silicate
 - Sea-side impermeable walls
 - Installation of welding type tanks including replacement from flange (bolt) type



Overview of the Decommissioning Strategy

- ◆ On June 12, 2015, the Mid-and Long-Term Roadmap was revised on the Inter-Ministerial Council for Contaminated Water and Decommissioning Issues.
- ◆ While some delay is found in the schedule of fuel removal, the general framework that completion of decommissioning in 30 to 40 years is held by keeping the milestones of contaminated water management, fuel debris removal and waste management.

December, 2021 November, 2013 30-40 years later December, 2011 Measures for Phase 2 Phase 1 Phase 3 Stabilization Until start of fuel debris removal Until start of fuel Until completion of Cold Shutdown removal from SFP decommissioning Cold shutdown condition Release of radioactive (30-40 years) (2 years) (10 years) materials is greatly



controlled

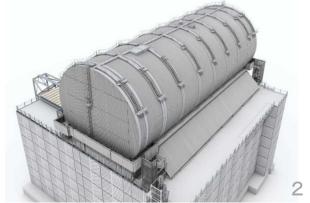




Fuel removal from Unit 4 SFP commenced on November 18, 2013. (Completed on December 22, 2014)



Fuel removal from Unit 3 to start in FY 2017



Main point of the Mid-and-Long-Term Roadmap (Revised on June 12, 2015)

1. Give priority to Risk Reduction

Focus on Speed



Focus on Risk Reduction Give priority sequence to actions in order to certainly reduce risks in a long-term, not only to focus on speed

Contaminated water management, Fuel removal from SFP

Fuel debris removal

Solid radioactive wastes, Secondary waste generated from contaminated water treatment



Deal with as soon as possible



Deal with safely, surely and carefully with adequate preparation



Deal with in a long-term

2. Clarifying Milestones



Clarifying Milestones over next few years, taking stakeholder's opinions into account

3. Strengthen good relationship of trust with the local stakeholders by maximizing disclosure, etc.

Establishment of Fukushima Council for stakeholder communication (February, 2014)



Further enhanced communication

(International Forum on Strategy for the Decommissioning of F1, etc.)

- 4. Further reduction in workers' exposure dose,
 Enhancement of Management System for Safety and Health for Workers
- 5. Reinforcement of Nuclear Damage Compensation and Decommissioning Facilitation Corporation (NDF), as the Control Tower of technical strategy for decommissioning



New Milestones

■ Clarify the short-term targets (green) for higher priority measures, while keeping the general framework (blue)

Overall	Completion of decommissioning	30 – 40 years
	Completion of decommissioning	30 – 40 years
Contaminated water management	Completion of treatment of stagnant water in buildings Minimizing the amount of increase of contaminated water and water inside the building, except cooling water	2020
Removing	Additional effective dose rate at the site boundary < 1 mSv/y (Achieving the risk reduction goal of exposure dose) FY2015
	Start of preparation to determine long-term management of ALPS-treated water	First half of FY2016
Isolating	Control inflow of groundwater into the buildings < 100 m3/day (Huge decrease the amount of contaminated water increase	f FY2016
Preventing leakage	Storage of all the water generated by treatment of highly contaminated water in welded-joint tanks (Huge reduction in ris of leakage from tank)	early FY2016
Stagnant water treatment	Reduction of radioactive materials in stagnant water in the buildings by half Reduction in risk of leakage from buildings	FY2018
Removal of spent	Decision on methods for the treatment and storage of spent fuel around 2020	
		diodila 2020
fuel	Start of spent fuel removal at Unit-1 Second	nd half of FY2017 🖒 FY2020
fuel	·	
fuel	Start of spent fuel removal at Unit-2 First	nd half of FY2017 🖒 FY2020
%The changes in milestones fo	Start of spent fuel removal at Unit-2 First	nd half of FY2017 \Rightarrow FY2020 half of FY2020 \Rightarrow FY2020 half of FY2015 \Rightarrow FY2017 for preventing dust dispersion or
XThe changes in milestones fo	Start of spent fuel removal at Unit-2 Start of spent fuel removal at Unit-3 First larger of SF removal are mainly due to "Measures for Safety and Securing more", including measures in the securing more in the securing	nd half of FY2017 \Rightarrow FY2020 half of FY2020 \Rightarrow FY2020 half of FY2015 \Rightarrow FY2017 for preventing dust dispersion or
XThe changes in milestones for reduction of workers' expos	Start of spent fuel removal at Unit-2 Start of spent fuel removal at Unit-3 First of Start of spent fuel removal at Unit-3 First of Start of spent fuel removal at Unit-3 First of Start of	nd half of FY2017 FY2020 half of FY2020 half of FY2015 FY2017 for preventing dust dispersion or hade hereafter. around 2 years from now
%The changes in milestones for reduction of workers' expos	Start of spent fuel removal at Unit-2 Start of spent fuel removal at Unit-3 First low SF removal are mainly due to "Measures for Safety and Securing more", including measures sure dose, etc. Best efforts to avoid delay due to "troubles" or "delay in decision" should be not provided by the Policy on fuel debris removal from each Unit	nd half of FY2017 FY2020 half of FY2020 FY2020 half of FY2015 FY2017 for preventing dust dispersion or hade hereafter. around 2 years from now

For more information



http://www.meti.go.jp/english/index.html



Mid-and-Long-Term Roadmap towards the Decommissioning of TEPCO's Fukushima Daiichi Nuclear Power Station Units 1-4

- Related Links

What's New

- At the 59th IAEA General Conference on September 14-18, 2015, the movie titled "Fukushima Today -Towards new horizons-" was shown. In this movie, Fukushima Today is presented from a variety of angles, including the current status of the Nuclear Power Station, various measures towards decommissioning, progress of decontamination work, and food inspection.
 ☐ (September 16, 2015)
- Analysis results regarding the water quality of the groundwater pumped up by sub-drain and purified at Fukushima Daiichi Nuclear Pow Station(PDF:141KB) (September 2, 2015)



視聴回数 56 回

Fukushima Today -Towards new horizons-

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