Reference

Enabling you to see seven years of progress
at the site of decommissioning from anywhere at any time

“INSIDE FUKUSHIMA DAIICHI”

Now available in English

☑Take a virtual tour of Units 1-4 from anywhere, anytime

☑360° video of some facilities available for the first time.

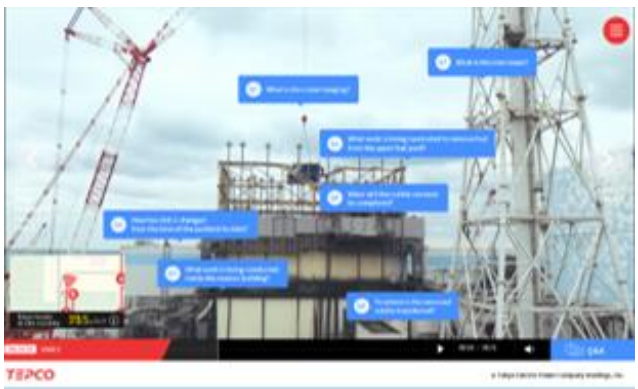
☑Questions about the site and the facilities are answered through a FAQ format.

Tokyo Electric Power Company Holdings, Inc. (TEPCO HD) will be launching an English version of the virtual tour of the Fukushima Daiichi Nuclear Power Station (hereinafter referenced to as, “1F”), “INSIDE FUKUSHIMA DAIICHI – A virtual tour of the site of decommissioning -“ on November 1. Seven years have passed since the accident. The reactors and the spent fuel pools are being cooled in a stable manner, and progress has been made with contaminated water countermeasures and work environment improvements thereby paving the way for full-scale decommissioning work, such as fuel removal.
TEPCO HD decided to create an English version of the virtual tour in response to requests from parties abroad that wish to see the current conditions at 1F, and to enable as many people as possible to see decommissioning work from anywhere at any time.

Splash page

360° video of the inside of the Unit 5 reactor building

Unit 3 reactor building where a hydrogen explosion occurred



Front side of Unit 1 and FAQ

■INSIDE FUKUSHIMA DAIICHI : http://www.tepco.co.jp/en/insidefukushimadaiichi/index-e.html

※The Japanese version was launched on March 28, 2018 and is accessible from computers and smartphones.

※The English version is accessible from computers. It will be available for smartphones in the future.

Overview of “INSIDE FUKUSHIMA DAIICHI - A virtual tour of the decommissioning site- “

“INSIDE FUKUSHIMA DAIICHI – A virtual tour of the decommissioning site–“ offers a virtual tour of the current conditions at the Fukushima Daiichi Nuclear Power Station seven years after the accident that can be viewed on a computer anywhere at any time. The virtual tour allows viewers to get up close to the Unit 1-4 reactor buildings and 360° videos of some facilities make it feel as if you are really there. You can also get answers to questions about the site and the facilities through the FAQ at the end of each tour video. And, disclosed data on radiation readings show how the radiation doses fluctuate depending on the area.
The virtual tour has been available in Japanese for several months now and has received much praise from viewers who commented that they were “able to get a good grasp on what’s going on” from the tour. TEPCO HD also received a domestic advertising award for the virtual tour. We hope that this tour will enable viewers to get a real sense for what it is like at the site of decommissioning and what this work entails.



■Details of facilities that can be seen in the tour

① Unit 1
The top of the Unit 1 reactor building was severely damaged by the hydrogen explosion during the accident. Rubble still litters the top of the reactor building and must be removed in order to remove fuel from the spent fuel pool. Rubble removal work began on January, 2018.

② Unit 2
There was no hydrogen explosion at Unit 2. Preparations are being made to perform an investigation of the top of the reactor building in order to remove fuel from the spent fuel pool.

③ Unit 3
A Hydrogen explosion occurred at Unit 3 during the accident. Rubble on the roof has already been removed and preparations to remove fuel from the spent fuel pool are proceeding. Fuel removal will begin in the FY2018.

④ Unit 4
Hydrogen from Unit 3 flowed into Unit 4 and resulted in an explosion during the accident. All fuel for the reactor was in the spent fuel pool at the time because Unit 4 was undergoing periodic inspection. Fuel removal was completed in 2014 thereby eliminating any risks associated with nuclear fuel.

⑤ Outside of the Unit 5 PCV (360° video, point-of-view video)
Unit 5 was not heavily damaged by the tsunami since it is located on ground higher than Units 1-4. Operation is currently suspended and the fuel is being stably stored in the spent fuel pool where it is being cooled. TEPCO HD has decided to also decommission Units 5 and 6.

⑥ Multi nuclide removal equipment (360° video, point-of-view video)
This is one of the facilities used to treat contaminated water.
It can remove almost all of the radioactive substances from contaminated water except for tritium.

⑦ Tank area
Treated water from which almost all radioactive materials have been removed, except for tritium, is stored in tanks in this area.

⑧ Refrigerator plant (point-of-view video)
The temperature of the land-side impermeable wall made from frozen soil is controlled by this facility 24 hours a day. Groundwater flowing into Units 1-4 would generate a large amount of contaminated water. The wall prevents groundwater from getting close to Units 1-4 thereby reducing the amount of groundwater that seeps into the buildings.

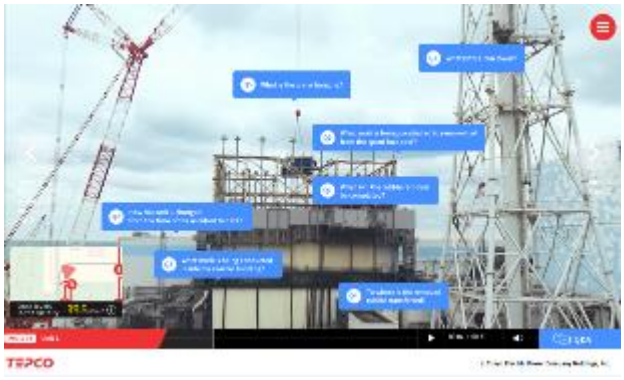
⑨ Refrigerator room (360° video)
This facility is used to freeze the soil around Units 1-4 to form the land-side impermeable wall.

⑩ Main anti-earthquake building and Emergency Response Center (point-of-view video)
In the event of a disaster, such as an earthquake, an Emergency Response Center would be established in this building. It has meeting rooms, communications equipment, power systems, air conditioning and more in order to enable an emergency response even in the event of an earthquake with a seismic intensity of 7.
The Emergency Response Center used during the disaster was established in this building.

⑪ Waste treatment facility, Developed land
Waste is separated by type and safely stored at the 1F site. TEPCO HD will build additional facilities to store waste after predicting how much waste will be generated during the next decade

■Frequently Asked Questions (FAQ)

Questions about the site and the facilities are answered in the form of FAQ.



FAQ (example):

Q. What is the difference between radiation, radioactivity and radioactive materials?

Radiation resembles a strong ray of light and “radioactive material” can be compared to a flashlight. “Radiation” is the energy the flashlight emits, namely the “light of the flashlight.” “Radioactivity” is the ability to emit radiation, which equates to “the ability of a flashlight to emit light.”

Q. To where is the removed rubble transferred?

After being categorized by types and radiation exposure dose, rubble and other waste are stored in waste storage buildings and other facilities on-site.

■Radiation dose

Air dose rates are displayed at the lower left of the screen.
There are 88 dosimeters on the 1F site that monitor air dose rates in real time. This value is displayed to indicate outdoor radiation doses as you visit different locations on the virtual tour. Values for indoor radiation dose reflect values measured by dosimeters brought inside the buildings.

Dosimeter