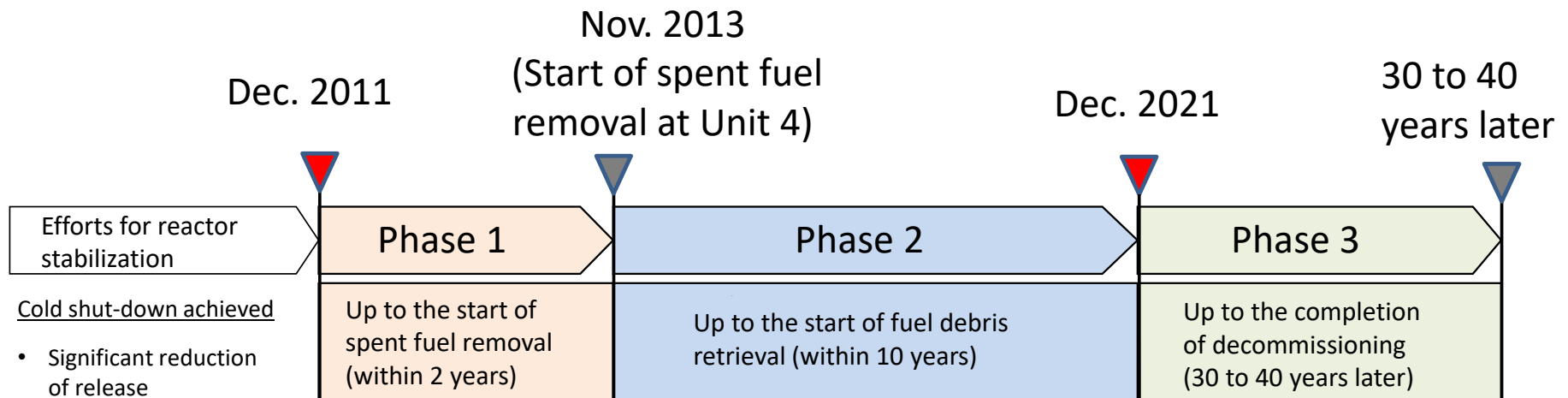


Overall framework of decommissioning procedures



- Decommissioning procedures by roughly dividing the whole process into three phases
- This overall framework is maintained in the Mid- and Long-term Roadmap revised in September 2017.
- Fuel debris retrieval is scheduled to be commenced by the end of 2021.

Reduction of Radiation Doses in Surrounding Environment

Land area

Testing of antiscattering agents for their dust holding capacity

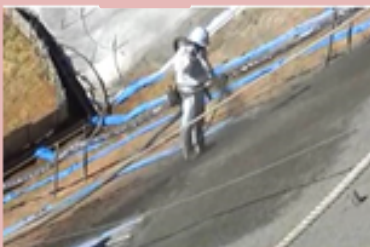
Antiscattering agents are used



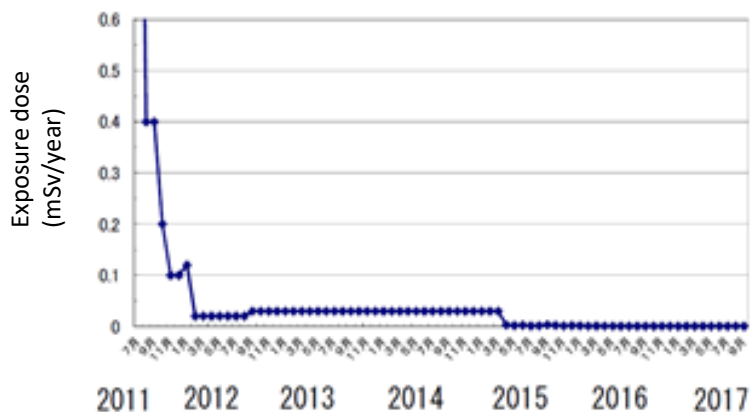
Antiscattering agents are not used

Scattering of radioactive materials is suppressed by spraying antiscattering agents under the condition of instantaneous wind velocity up to 50m/s.

Cover the premises of the Fukushima Daiichi NPS with mortar to suppress scattering of radioactive materials

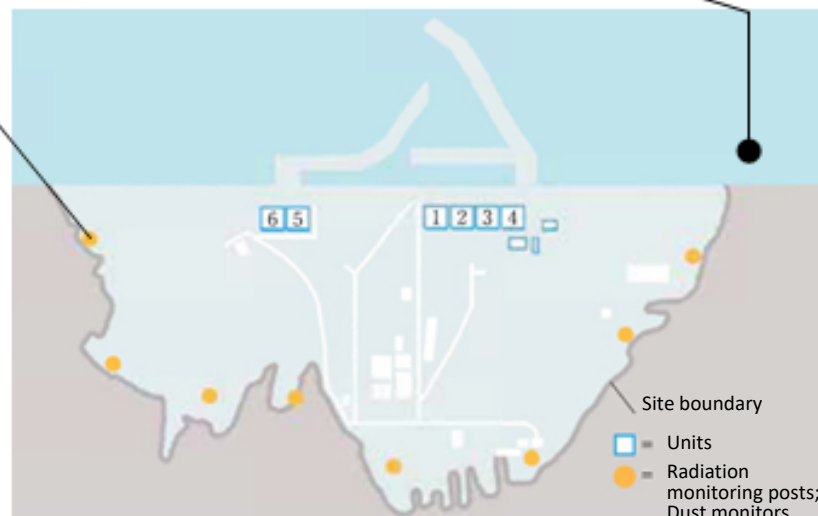
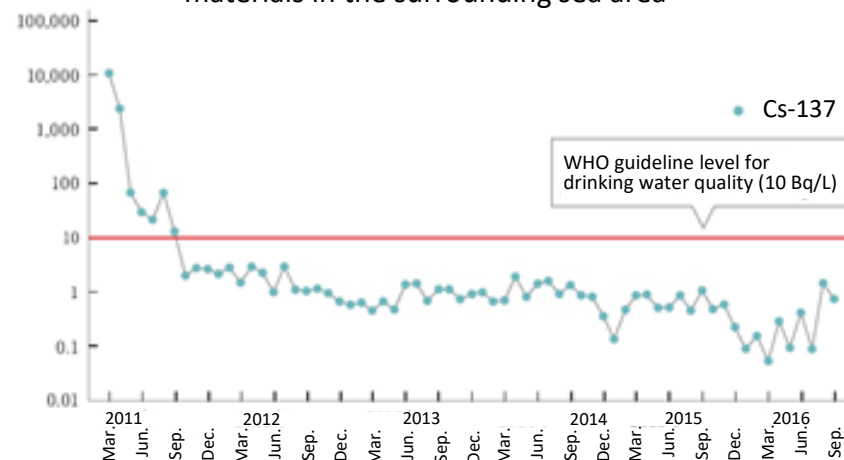


Evaluation of annual exposure doses at the site boundary due to Cs from reactor buildings of Unit 1 to Unit 4



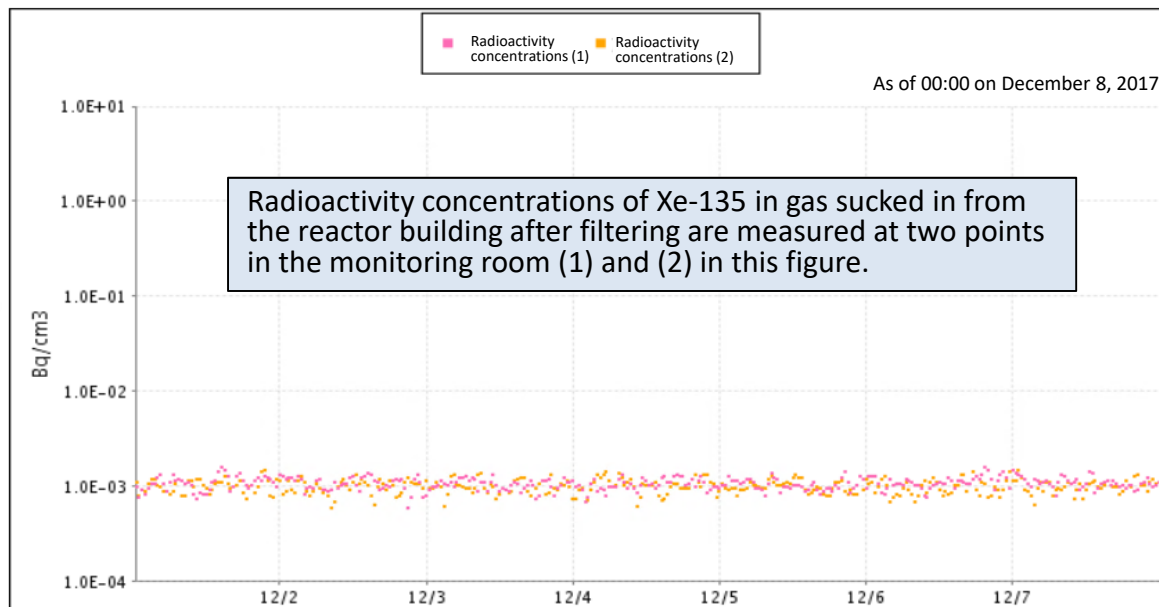
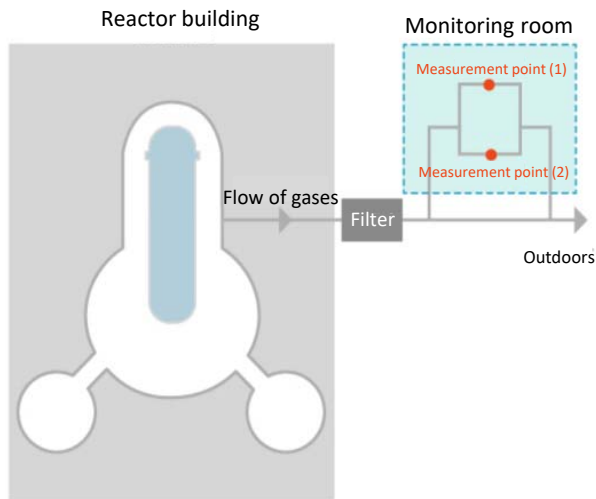
Sea area

Changes in concentrations of radioactive materials in the surrounding sea area



Measures against Recriticality and Future Earthquakes and Tsunamis

Amount of noble gases generated



Measures against earthquakes and tsunamis

Through computer analyses and other means, it has been confirmed that reactor buildings and other major facilities are sound enough to withstand any earthquakes or tsunamis equivalent to or even bigger than the Great East Japan Earthquake.

Securing of power sources in an emergency

In preparation for power loss, ordinary power sources have been multiplexed and emergency power supply vehicles and gas turbine vehicles are put in place. These vehicles are to be used to supply power to water injection facilities in an emergency.



Water injection drill



Emergency power supply vehicle



Fire engines

Backup power sources such as emergency power supply vehicles and water injection means such as fire engines are placed at a higher area where tsunamis are unlikely to reach.



Temporary seawall

(Source: Website of Tokyo Electric Power Company)

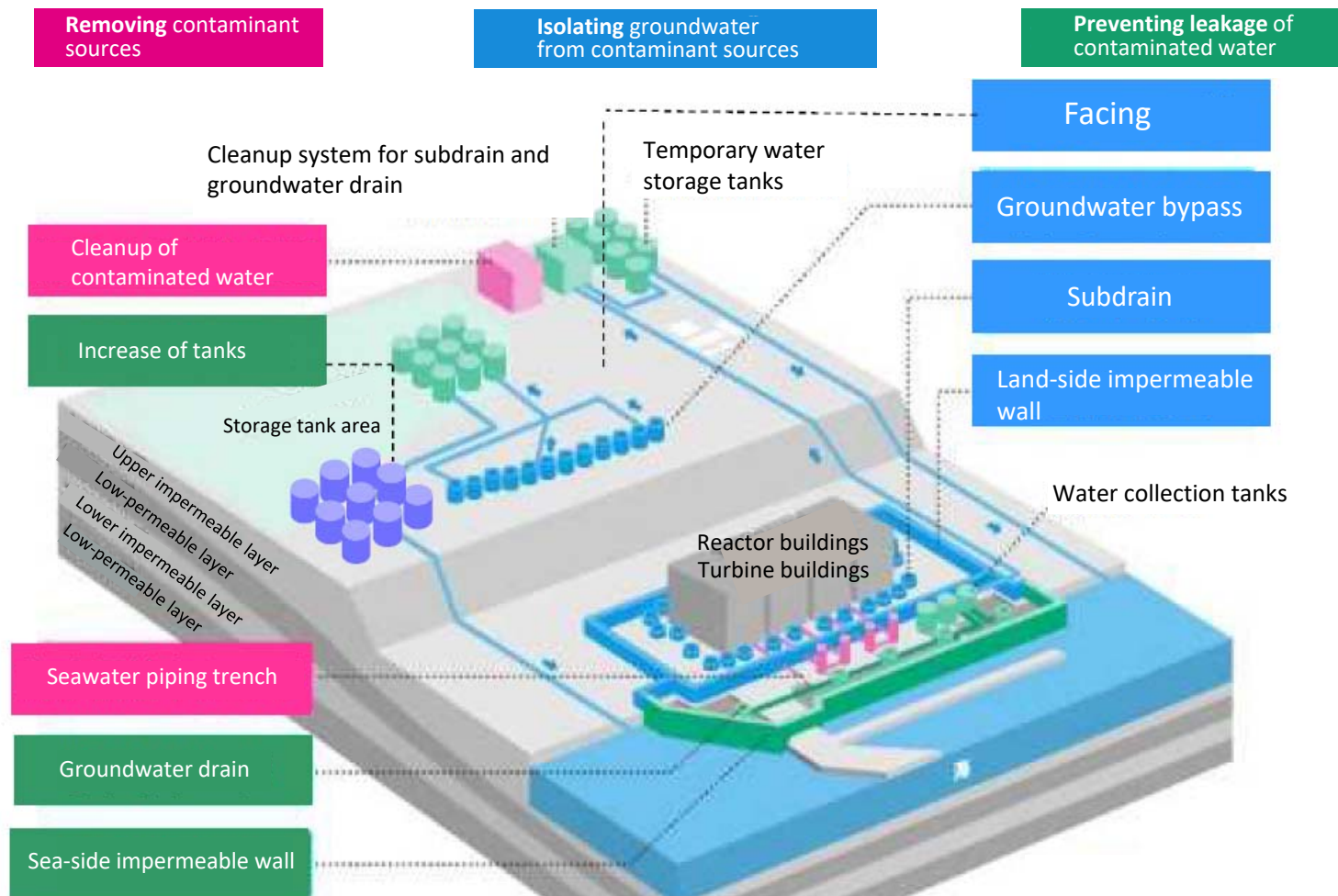
Premises of the Fukushima Daiichi NPS



Provided by Japan Space Imaging Corporation and (c) Digital Globe
Prepared by the Ministry of Economy, Trade and Industry based on the materials of Tokyo Electric Power Company

Measures against Contaminated Water

Preventive and multi-layered measures are being taken against contaminated water based on policies of (i) removing contaminant sources, (ii) isolating groundwater from contaminant sources, and (iii) preventing leakage of contaminated water.



Prepared by the Ministry of Economy, Trade and Industry based on the materials of Tokyo Electric Power Company

Decommissioning Measures

Current status of Unit 1 to Unit 4 at the Fukushima Daiichi NPS

- Unit 1 to Unit 3 are being kept stable and preparation work for fuel removal from spent fuel pools is underway (debris retrieval, decontamination, shielding and installation of fuel removal equipment, etc.)
- Policies for the retrieval of fuel debris (fuel that melted at the time of the accident and then solidified) were decided. Concrete retrieval methods will be discussed from now on.

