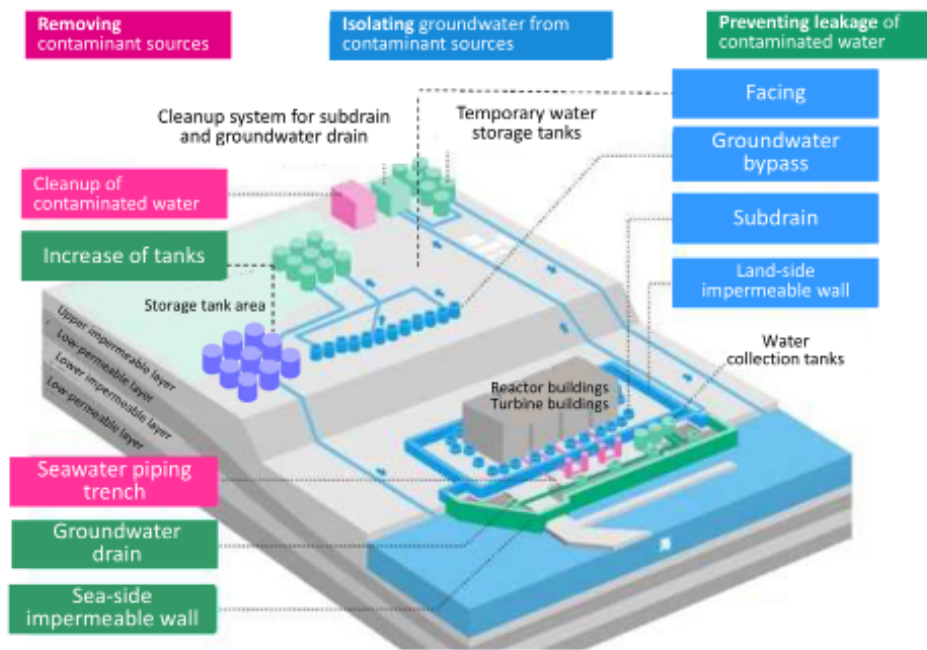


Measures against Contaminated Water

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

Water contaminated with radioactive materials has been treated based on the following three basic policies.

< Basic Policy 1: Removing contaminant sources >

- (i) Clean up contaminated water by removing 62 types of radionuclides therefrom
- (ii) Remove highly contaminated water that remains in the trench, etc.

< Basic Policy 2: Isolating water from contaminant sources >

- (i) Pump up groundwater on the mountain side of the buildings to suppress inflow of groundwater around the buildings
- (ii) Pump up groundwater using the well near the buildings (subdrain) to lower the groundwater level, thereby suppressing inflow of groundwater into the buildings
- (iii) Construct a frozen soil wall around the buildings to suppress inflow of groundwater into the buildings
- (iv) Suppress infiltration of rainwater into soil by paving the surface (facing)

< Basic Policy 3: Preventing leakage of contaminated water >

- (i) Construct a sea-side impermeable wall made of steel pipes to reduce outflow of groundwater containing radioactive materials into the sea
- (ii) Construct a groundwater drain in the area between the sea-side impermeable wall and the land-side impermeable wall and pump up groundwater to reduce the outflow of groundwater into the sea
- (iii) In order to ensure safe storage of water after purification using ALPS and other equipment, promote storage in welded tanks with lower leakage risks

These efforts have brought about the following outcomes:

- The amount of newly generated contaminated water decreased from approx. 540 m³/day in May 2014 to approx. 90 m³/day in FY2022.
- Treatment of the accumulated water in the buildings, except for reactor buildings, etc. for Unit 1 to Unit 3, was completed and the goal set in the Mid- and Long-term Roadmap has been achieved.
- Concentrations of radioactive materials in the port decreased significantly.

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