Progress of Landside Impermeable Wall freezing: the Second Stage



- OThe purpose of the Landside Impermeable Wall construction lies not in freezing soil to form an underground wall but in keeping groundwater from flowing into the reactor/turbine buildings and preventing new contaminated water from being generated.
- OBy closing part of unfrozen areas on the mountainside in the second stage following after the first stage, it is expected that the amount of groundwater flowing into the areas around the reactor/turbine buildings will be reduced. This will also keep groundwater from being contaminated.
- OThroughout the second stage, how freezing of the Landside Impermeable Wall has progressed will be checked by monitoring the difference in groundwater levels inside and outside of the wall and the amount of groundwater pumped up by the Subdrain, groundwater drain, and the well point systems.

Changes in soil temperatures over time

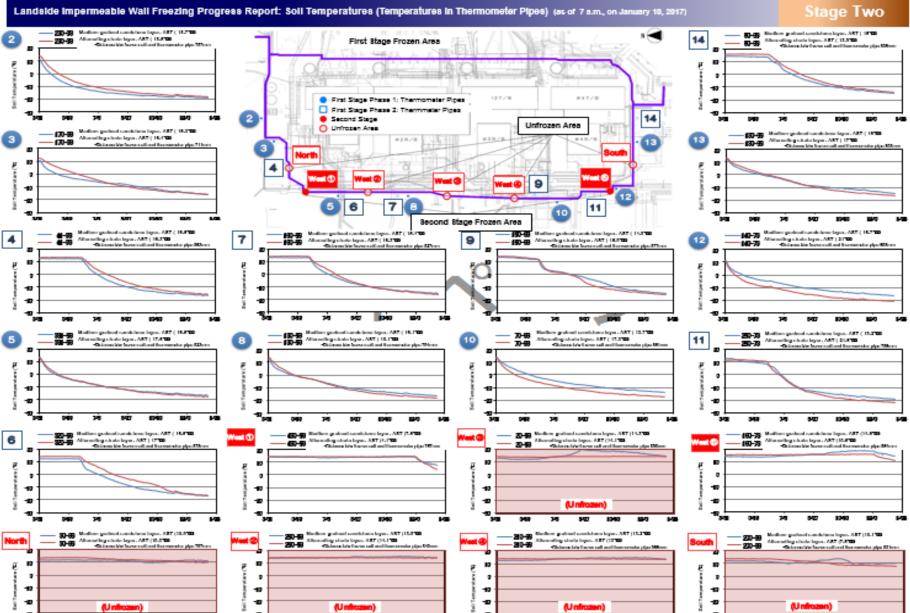
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12-7

Note

 Average Soil Temperature (AST) of medium-grained sandstone layer (blue line): average value of thermometer temperatures measured at 1m intervals except for the areas

between ground surface and Ground Level 2m and the areas around the first muddy layer boarder. Average Soil Temperature (AST) of alternating strata layer (red line): Average value of thermometer temperatures measured at 1m intervals except for the areas around the upper and lower parts of the alternating layer boarder.

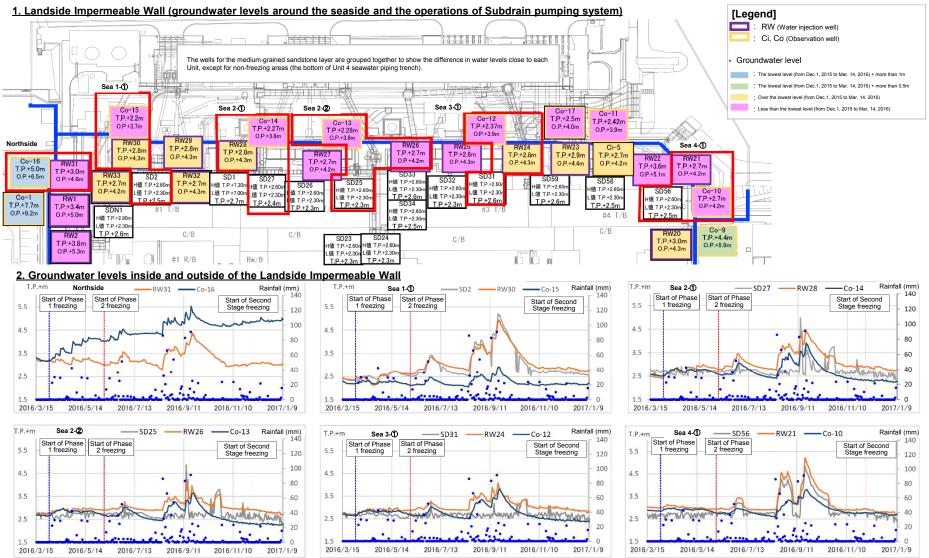


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(in the medium-grained sandstone layer 1 on the seaside)

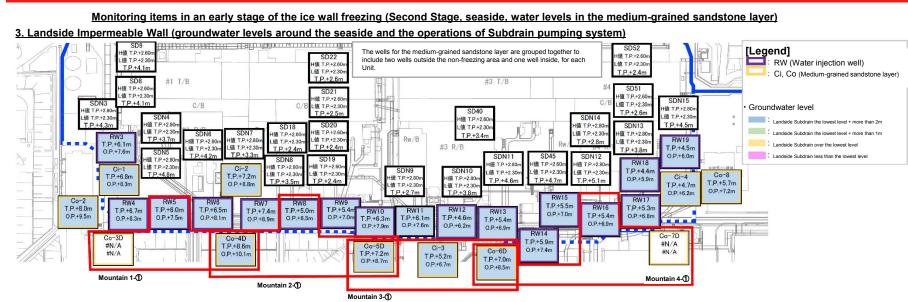


Monitoring items in an early stage of the ice wall freezing (Second Stage, seaside, water levels in the medium-grained sandstone layer)



The data of groundwater levels as of 12 p.m. on January 10. 2

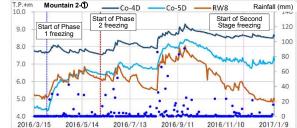
(in the medium-grained sandstone layer 2 on the landside)



4. Groundwater levels inside and outside of the Landside Impermeable Wall





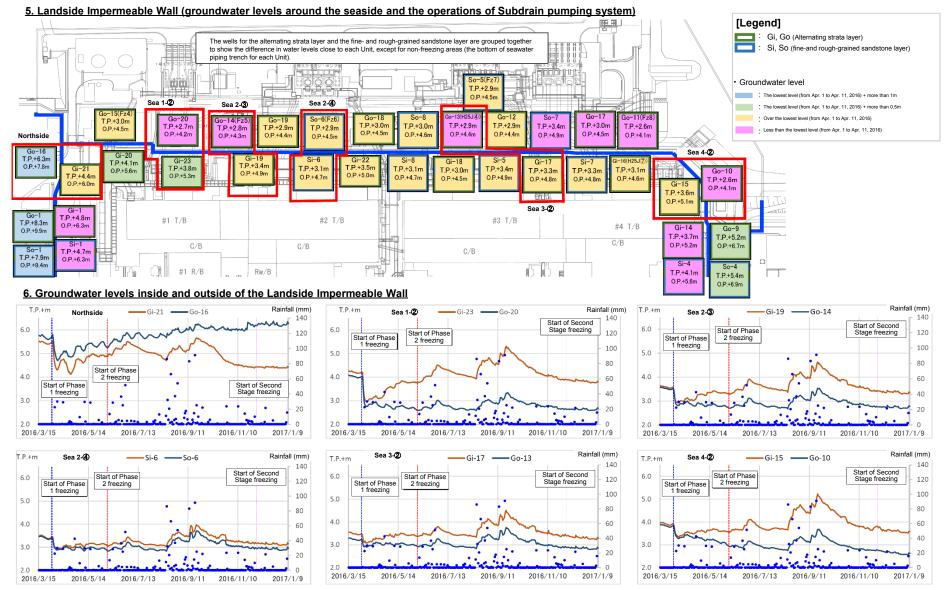




TEPCO

(in the alternating strata layer and the fine- and rough-grained sandstone layer 1 on the seaside TEPCO

Monitoring items in an early stage of the ice wall freezing (Phase 1 Stage 1, seaside, water levels in the middle-grained sandstone layer)

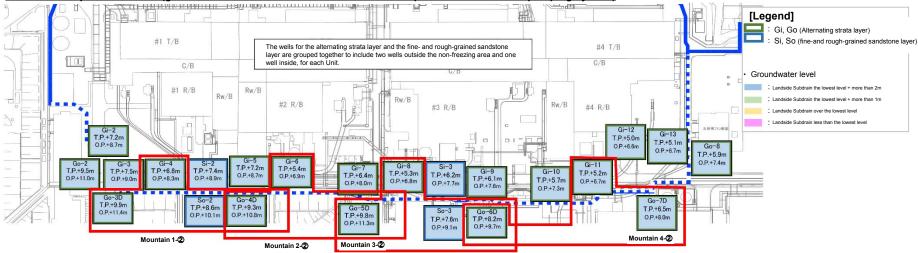


The data of groundwater levels as of 12 p.m. on January 10.

4

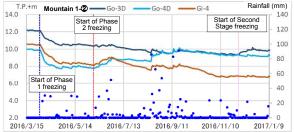
(in the alternating strata layer and the fine- and rough-grained sandstone layer 2 on the landside EPCO

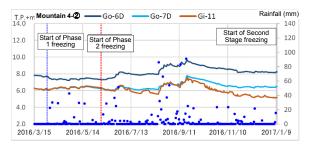
Monitoring items in an early stage of the ice wall freezing (Phase 1 Stage 1, seaside, water levels in the middle-grained sandstone layer)

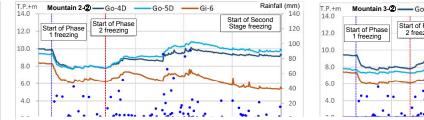


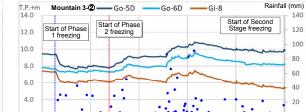
7. Landside Impermeable Wall (groundwater levels around the seaside and the operations of Subdrain pumping system)

8. Groundwater levels inside and outside of the Landside Impermeable Wall



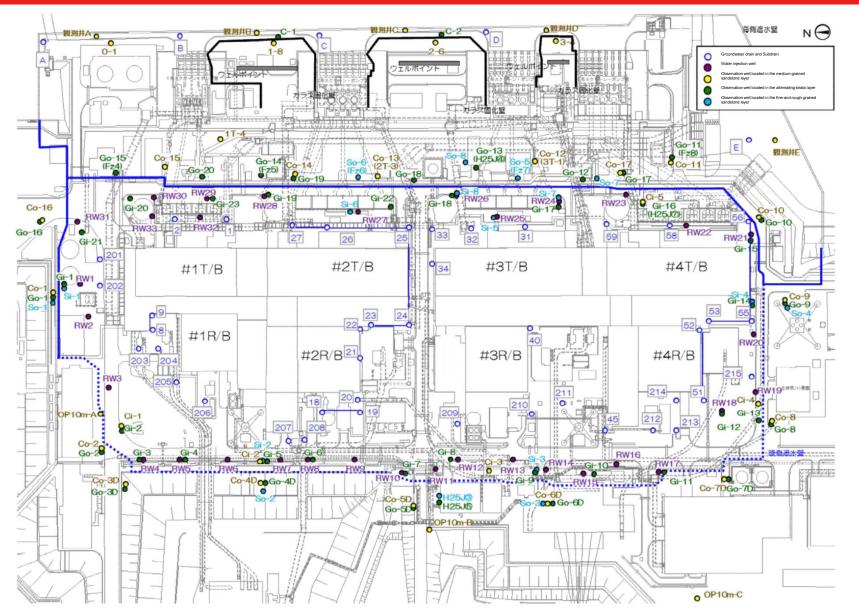




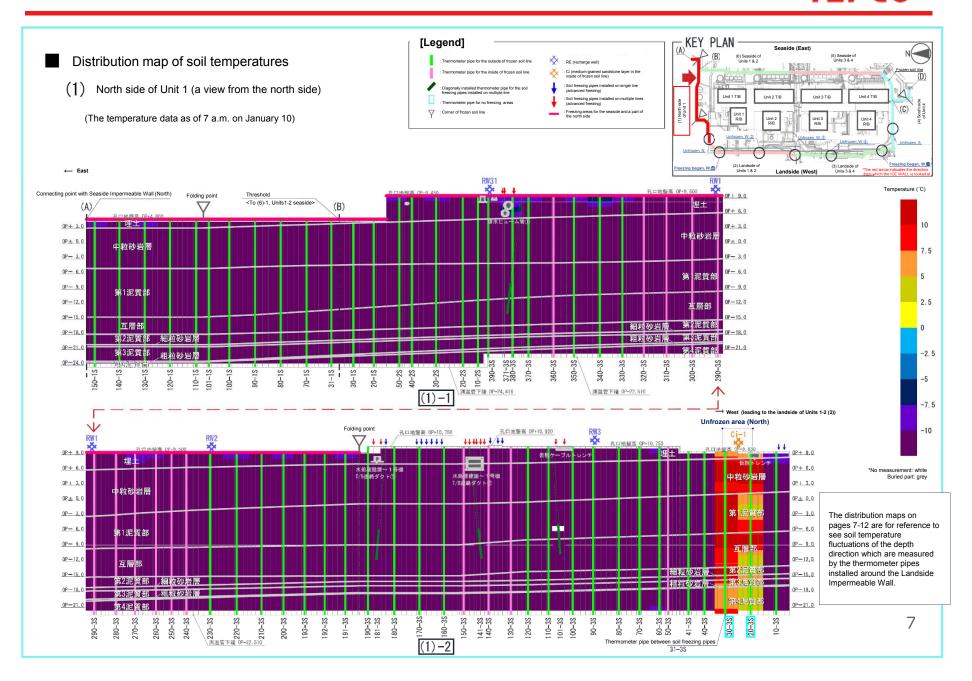


[Reference] Location map of groundwater level observation wells **TEPCO**

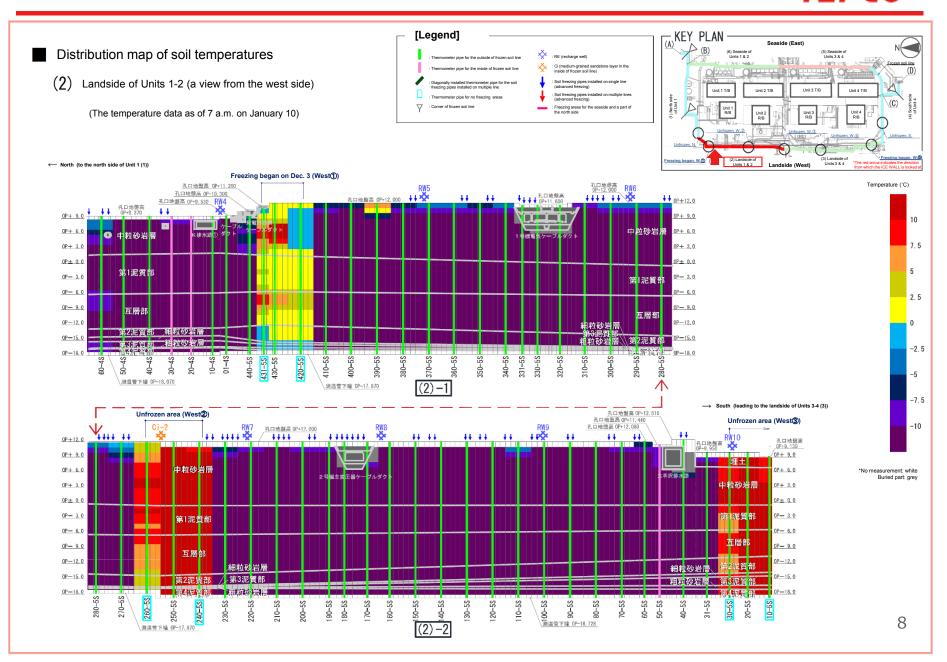




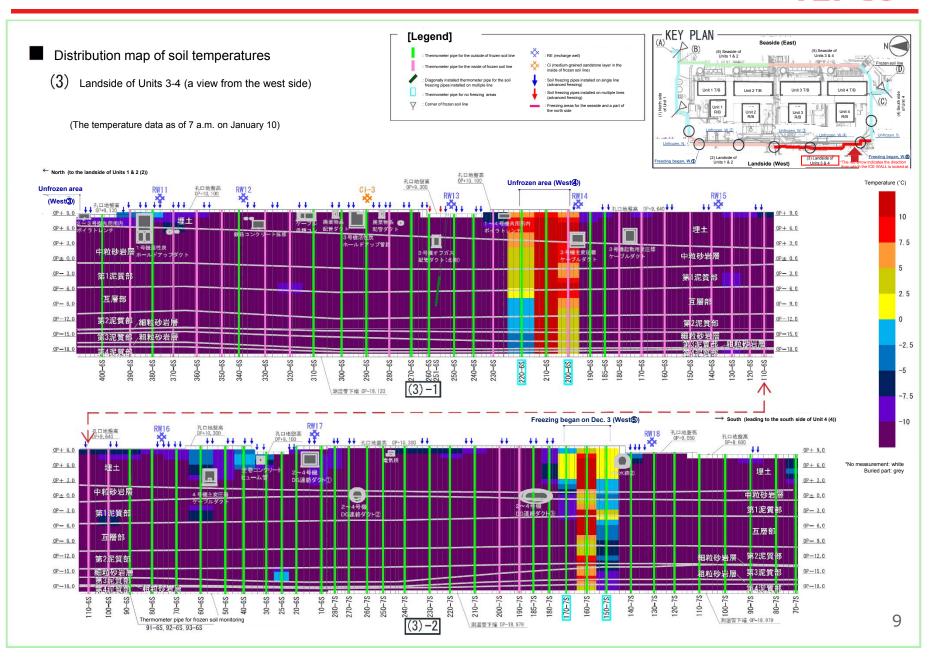
[Reference] Distribution map of soil temperatures (north side of Unit 1)



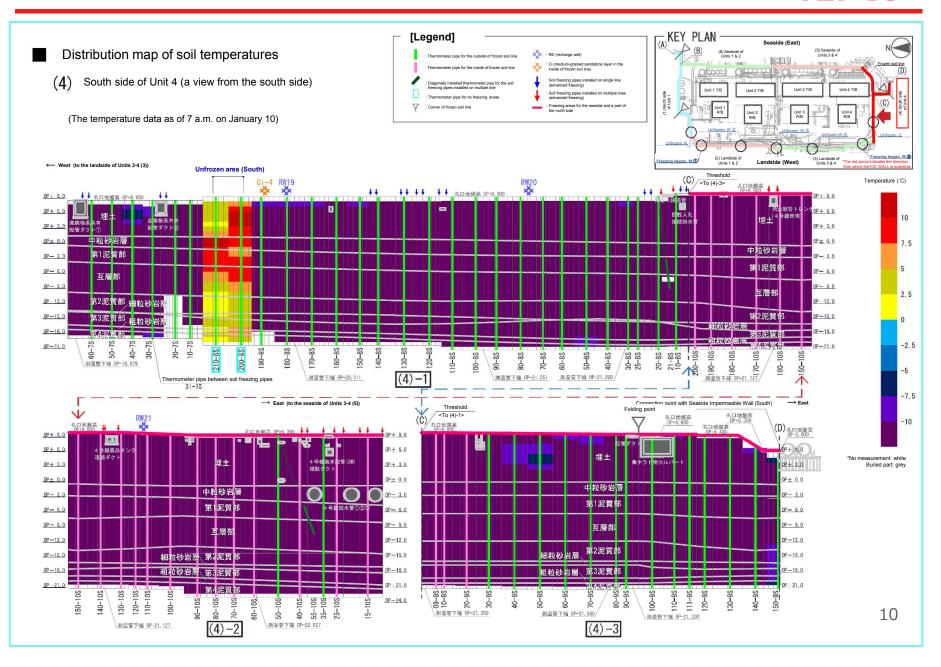
[Reference] Distribution map of soil temperatures (west side of Units 1-2)=PCO



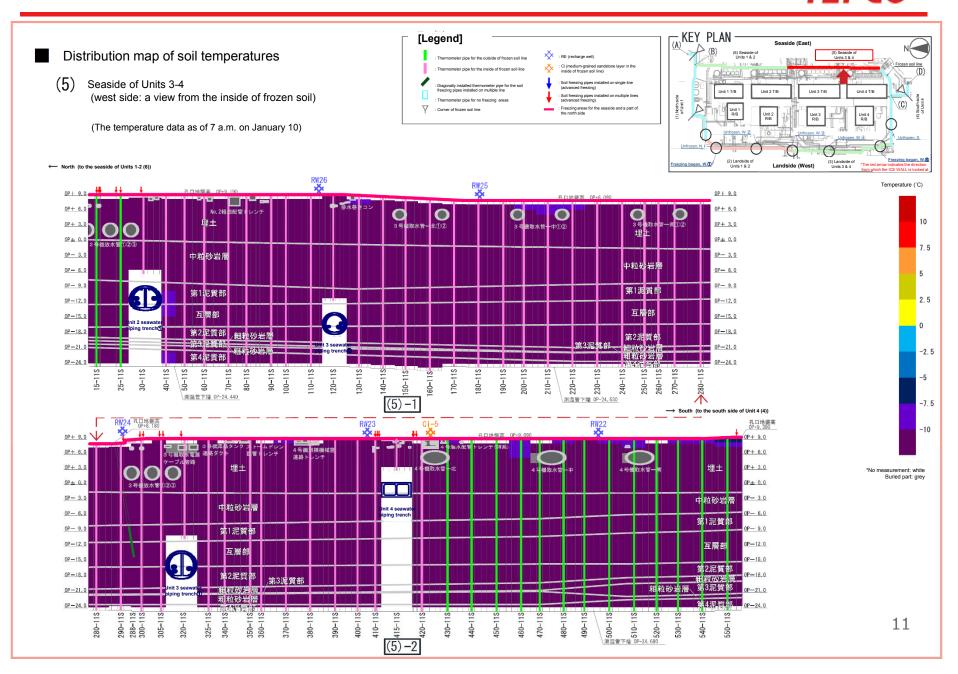
[Reference] Distribution map of soil temperatures (west side of Units 3-



[Reference] Distribution map of soil temperatures (south side of Unit 4)



[Reference] Distribution map of soil temperatures (east side of Units 3-



[Reference] Distribution map of soil temperature (east side of Units 1-2)

