Plan for Replacement and Additional Installation of Processed Water Receiving Tanks

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Current Status of Storage Tank Installation

Storage amount of processed fresh water and waste-water is approx. 115,000 tons (as of Feb. 17)
Installed storage tanks: approx. 165,000 tons

■Under installation of additional storage tanks: 40,000 tons (scheduled to be completed at the beginning of April)



Issues for Additional Storage Tank Installation

■Almost no space in the current tank installation area except the space under power lines and the low bearing power area, where we already have a plan to store rubbles and cut down trees, or where it is inappropriate to install heavy tanks as close to the top of the slope.

■Square shape steel tanks (existing) are small (16-42 tons) and have low land utilization rate (Round shape steel tank: 1000 tons)

■As we need to use a large crane to install a round shape steel tank, there is a risk of getting an electric shock under the power line.



Measures to Install Additional Storage Tanks (1)

As square shape steel tanks (small size) for RO concentrated water storage doesn't have enough capacity in the E-area, expand and secure storage capacity by replacing them with large round shape steel tanks (increase by approx. 22,000 tons).

Existing tanks in E-area

Square shape steel tanks (16-42 tons) × 295 tanks Total capacity: 8,000 tons



After replacement (Image)

Large round shape steel tanks on the ground (1,000 tons) × 30 tanks
Total capacity: 30,000 tons





Measures to Install Additional Storage Tanks (2)

Install underground storage facility (no crane required) at the place where it is impossible to install large steel tanks on the ground because of power line / bad ground condition.

■Store water in the underground storage facility, which is waterproofed by triple sheet on the digging ground and is set by the plastic inside frames (many experiences as flood control reservoirs).

■It is possible to install underground storage facility according to the site condition (length × width) utilizing some plastic frames. It is possible to place vehicles and equipments, etc. on the filled facility.



Future Plan

1. Replacement of square shape steel tanks (E-area)

Transfer RO waste water (approx. 6,000 tons) stored in square shape steel tanks to the existing or newly installed round shape steel tanks.

Plan to sequentially install round shape steel tanks after site preparation in E-area.

2. Underground storage facility

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Sequentially make a plan on the basis of filling water test results.

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