Summary of the 2021 Business Plan (5-Year Plan)

Major Policies for Sewerage System in 23 Wards

Here is a summary of the main initiatives for the five-year planning period.

Reconstruction (Sewer Pipes)

We promoted reconstruction efforts aimed at addressing aging infrastructure while also enhancing stormwater drainage capacity and improving seismic resistance.

Reconstruction of sewer pipes 【Reconstruction of branch sewers】

Area where the branch sewers of the first stage reconstruction were rebuilt

3,243 ha over five years

5-Year Goal:
3,500 ha

Reconstruction of sewer pipes 【Reconstruction of trunk sewers】

Length of reconstructed trunk sewers

35 km over five years

5-Year Goal:
35 km

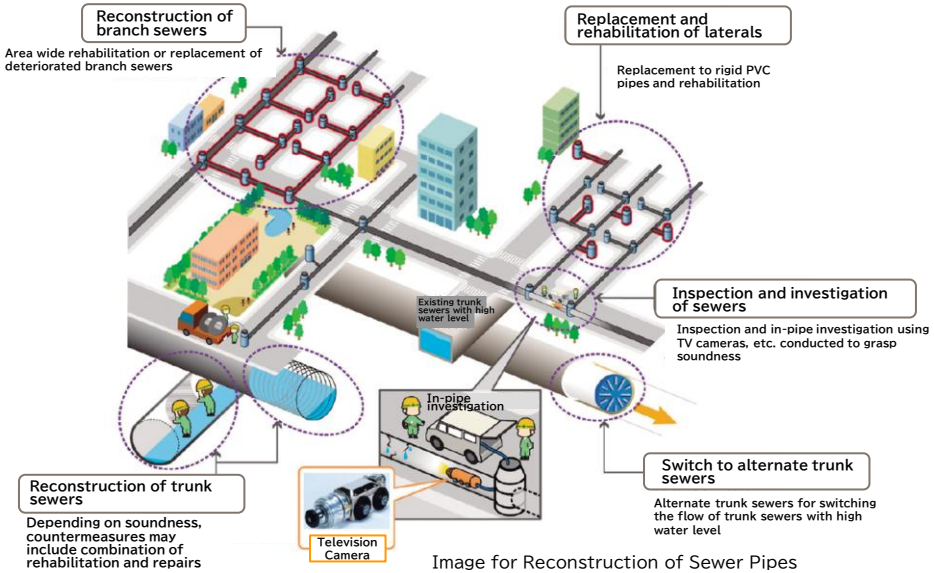


Image for Reconstruction of Sewer Pipes

Reconstruction (Water Reclamation Centers/Pumping Stations)

Reconstruction of Water Reclamation Centers / Pumping Stations

458 unit over five years

5-Year Goal:
450 units

In addition to addressing aging infrastructure, we promoted a reconstruction project aimed at enhancing rainwater drainage capacity, improving seismic resistance and maintainability, and promoting energy efficiency.



Reconstructed Pumping Facility
(Kosuge Water Reclamation Center)

Flood Control

Key Areas

6 districts completed over five years

5-Year Goals:
7 districts

In accordance with the Tokyo Metropolitan Government's Basic Policy on Countermeasures Against Heavy Rainfall, we are promoting the development of sewer facilities capable of handling 75 millimeters of rainfall per hour to mitigate damage caused by inland flooding.



https://www.toshiseibi.metro.tokyo.lg.jp/bosai/chisui/chisui/gouutaisaku

The Tokyo Metropolitan Government revised Tokyo Metropolitan Government Basic Policy for Heavy Rain Countermeasures in December 2023, taking into account the impacts of climate change.

Summary of the 2021 Business Plan (5-Year Plan)

Major Policies for Sewerage System in 23 Wards

Here is a summary of the main initiatives for the five-year planning period.

Countermeasures For Earthquake Disaster

To ensure the continued operation of sewer and transportation systems in the event of an earthquake, we implemented earthquake-preparedness measures for sewer pipes. We also implemented earthquake-preparedness measures, such as seismic retrofitting, at water reclamation centers and pumping stations.

Earthquake Disaster Countermeasures for Sewer Pipes

Number of facilities for which earthquake resistance for sewer pipes to accept wastewater has been provided

1,232 locations
over five years

5-Year Goal:
1,200 locations

Earthquake Disaster Countermeasures for Sewer Pipes

Length of roads for which manhole float prevention measures have been taken

287 km
over five years

5-Year Goal:
250 km

Earthquake Disaster Countermeasures for Sewer Pipes

Area within the district where earthquake disaster countermeasures were implemented

2,190 ha
over five years

5-Year Target:
2,500 ha

Earthquake Disaster Countermeasures for Water Reclamation Centers and Pumping Stations

Number of facilities in which seismic retrofitting has been completed across all lines

12 facilities
over five years

5-Year Goal:
12 facilities

In the event of Great East Japan Earthquake (2011)



In the event of Noto Peninsula Earthquake (2024)



Manhole Float Damage Cases

Improvement of Combined Sewer System

We promoted water quality improvement by, among other measures, constructing facilities to store particularly contaminated wastewater during the initial stages of rainfall.

Storage Volume of Storage Facilities etc.

250,000 ㎥
over five years

5-Year Goal:
250,000 ㎥



The completed storage facility inside the Senju Sekiya Pumping Station

Energy Management and Global Warming Countermeasures

Based on the action guidelines of “Earth Plan 2023,” the global warming prevention plan for the sewerage sector, we actively worked to reduce energy consumption and greenhouse gas emissions in an effort to realize a city with a low environmental impact.

Number of Energy-Saving Devices Introduced

54 units
over five years

5-Year Goal:
49 units

Upgrade to Energy Self-Sufficient Incinerator

3 units
over five years

5-Year Goal :
3 units



The Completed Energy-Self-Sufficient Incinerator (Nanbu Sludge Plant)

Summary of the 2021 Business Plan (5-Year Plan)

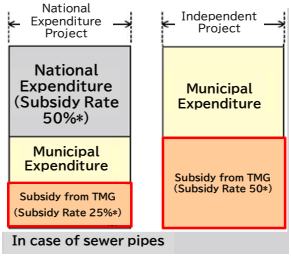
Major Policies for Sewerage System Tamagawa River Basin

Here is a summary of the main initiatives for the five-year planning period.



Strengthening Collaboration with Municipalities

Through the establishment of a resilience-building subsidy program, we supported municipalities' efforts to prevent flooding and mitigate earthquake damage in their public sewer systems, while also providing technical assistance—such as sharing expertise on maintenance and management—to ensure the sustainable operation of sewer systems. In addition, we completed the integration of Tachikawa City's independent sewer service area into the Tokyo Metropolitan Government's watershed sewer system.



Resilience Support Program



Scenes from a Technical Workshop on Sewer Pipe Reconstruction

Countermeasures For Earthquake Disaster

To ensure the sewer system remains functional during an earthquake, we have promoted seismic retrofitting of facilities such as inflow channels, conveyance channels, outflow channels, and sludge treatment facilities.

Earthquake Disaster Countermeasures for Water Reclamation Centers and Pumping Stations

Number of facilities in which seismic retrofitting has been completed across all lines

2 facilities

over five years

5-Year Goal: 2 facilities



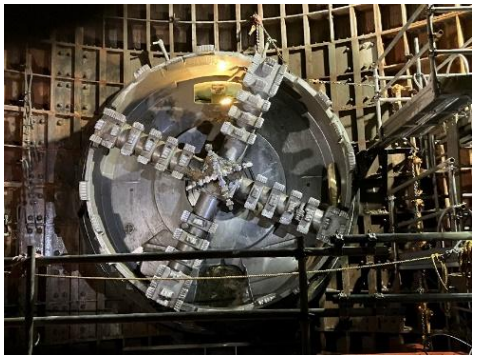
Seismically Reinforced Discharge Channel (Hachioji Water Reclamation Center)

Rainwater Countermeasures

In areas where it is difficult for a single city to manage stormwater drainage on its own—such as those lacking rivers into which stormwater can be discharged—we constructed regional stormwater trunk lines spanning multiple cities and worked in collaboration with those cities to mitigate flood damage.

Rainwater Countermeasures by Sewerage Trunk Sewers for Rainwater in Drainage Basis

Rainwater retention will begin in April 2026 on a section of the upstream stormwater trunk line of the Karahori River



Footage of the Shield Machine's Arrival (Uehori River Upstream Stormwater Trunk Line)

Energy Management and Global Warming Countermeasures

Based on the action guidelines of "Earth Plan 2023," we promoted measures to address energy issues and global warming and worked toward realizing a city with a low environmental footprint.

Introduction of an Energy Self-Sufficient Incinerator

3 Units

over five years

5-Year Goal: 3 Units



Energy-Efficient Sludge Incinerator Installed (Kita-Tama No. 1 Water Recycling Center)

Summary of the 2021 Business Plan (5-Year Plan)

Efforts to Enhance Reliability in Sewerage System of Tokyo

Here is a summary of the main initiatives for the five-year planning period.

Use of “Phosphorus” from Sewage as Fertilizer

We are implementing initiatives to recover “phosphorus”—one of the three major nutrients in fertilizer—from sewage sludge and put it to effective use as “reclaimed phosphorus from sewage.”

☛ **We have introduced a phosphorus recovery and fertilization facility and have begun producing recycled phosphorus from wastewater. Cultivation tests conducted at an agricultural experiment station confirmed that this fertilizer is as effective as existing fertilizers.**



phosphorus recovery and fertilization facility

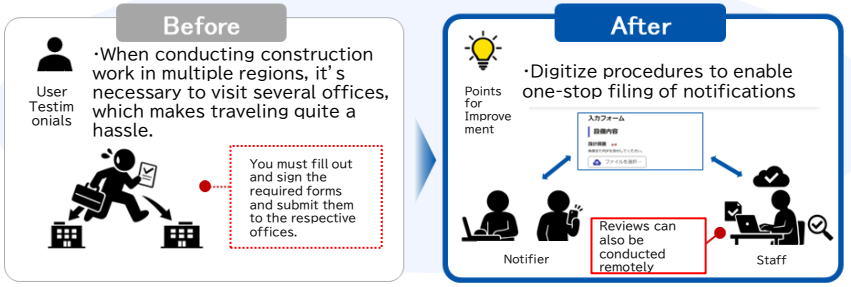


Cultivation trials at the agricultural experiment station

Promoting DX

We worked to improve customer service by developing technologies that integrate cutting-edge technology with our sewer services and by promoting the introduction of online application services.

☛ **We promoted the development of a next-generation pump operation support system and the transition to online filing of notifications.**



Strengthening Crisis Management Capabilities

Drawing on our experience from the Noto Peninsula Earthquake, we have worked to strengthen cooperation with relevant agencies to establish an integrated emergency restoration system for water and sewer services, with the aim of quickly restoring domestic water supplies in the event of a disaster.

☛ **In addition to working with city and town governments to install manhole toilets and conduct training on the collection of human waste, we also held joint training sessions with the Waterworks Bureau.**



Human Waste Collection Drill



Emergency Restoration Through Integrated Water and Sewer Services

Public Relations

We have been working on initiatives to clearly explain to our customers the inner workings of the sewer system—which they rarely have the opportunity to see—as well as the role it plays and the challenges it faces.

☛**In addition to conducting outreach activities such as educational presentations for children and events at the water reclamation center, we raised awareness of the sewerage system and promoted public understanding through initiatives such as the redesign of “Earth-kun,” who celebrated his 25th anniversary.**



Earth-kun Design Redesign Commemorative Event