

Arranging the Data for Adopting Asset Management to the Kyoto Municipal Sewerage Service

Year of Research

2008

(Study Objectives)

This study aims to consider how to adopt the “asset management” to the Kyoto municipal sewerage service. The asset management is the way to reconstruct the service itself and to secure accountability. It carries out the master plan of the future Kyoto municipal sewerage service by the appropriate asset management, and formulates strategic running plan.

(Study Results)

This study has been developed the conditional simulation system for long-term management and considered how to improve the accuracy of the system to achieve overall evaluation for several years.

For this year’s study, it aims to improve the simulation system for long-term management more and to examine the measure for utilizing it. Also, this study considers the future image of the asset management to reconstruct the service and to secure accountability.

(1) Commanding the actual condition of the Kyoto municipal sewerage service

From the account and facility data for Kyoto municipal sewerage service, the study investigates the transition of financial balance, the schedule for the repayment, present administration plan, and infrastructure stocks of the sewerage services.

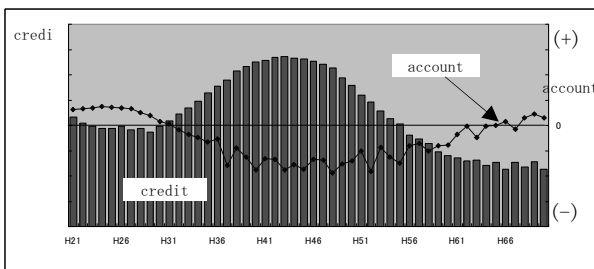
(2) Preparing for Adopting Asset Management

The study considers how to calculate the O&M cost for sewage plant and durable years for each facility, and estimates long-term investment for them.

(3) Improving the conditional simulation system for long-term management and implementing the simulation

The conditional simulation system for long-term management which has developed in 2006 is improved by replacing data to the latest one and by reflecting new study results. Also, the study tries to implement the simulation by the improved system, and analyzes the results.(cf.Figure1)

■ Calculation of the credit and the account



■ Calculation of the repayment

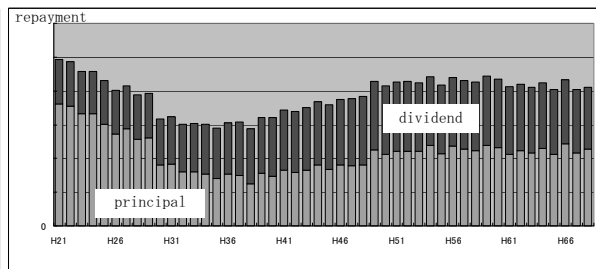


Figure 1 Examples for the simulation

(Ulterior Study)

It is necessary to study the method of tied in Macro Management (the master plan of municipal sewerage service) with Micro Management (the management of each other plants for sewerage,for example, life extension of plants for sewerage etc.).

For realization of the NPM (new public management) model asset management that Kyoto Municipal aims at, it is necessary to be able to go ahead through the examination about macro and the policy to perform mutual reflection effectively of the micro-management result.

Commissioned Study from the Ctiy of Kyoto

Cooperative researcher:Liaison conference for sewerage technological development

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Key words

Asset Management, Sewerage Service, Maintenance, Project Master Plan