

Research on Singular Use of Disposer in Kitakyushu City

Whole term

2004.12 ~ 2007.3

(Purpose)

Given rising living standards, the pursuit of convenience in living environments, the growing number of high-rises in urban areas, the arrival of the aging society, recycling of kitchen garbage, and a proven track record overseas, there is growing demand for garbage disposers that simplify disposal of kitchen garbage produced in the home. However, the installation of disposers for the purpose of disposing kitchen garbage places a heavier burden on sewage facilities and, further, has an impact on water environments. Consequently, with the exception of disposers with disposal tanks, most local governments place limitations on disposal use or ask their residents to refrain from using them.

This research project seeks to study the sewage system within the context of singular use of disposer in Kitakyushu City (which is aiming to become an “international environment capital”), countermeasures against their impact on the waste treatment system, and basic philosophies surrounding cost burden, etc. In this research, a proposal required for a technical measure, a system design, etc, is due to establish the “Kitakyushu disposer examination committee” which consists of a man of learning and experience, a related governmental agency, a citizen, and to be adjusted by the 2006 fiscal year.

Item	FY2004	FY2005	FY2006
Basic study(basic values, plans, etc.)	██████████	██████████	██████████
Arrangement of study conditions		██████████	██████████
Influence by the disposer, and examination of countermeasures			██████████
Overall evaluation(conclusion)			██████████

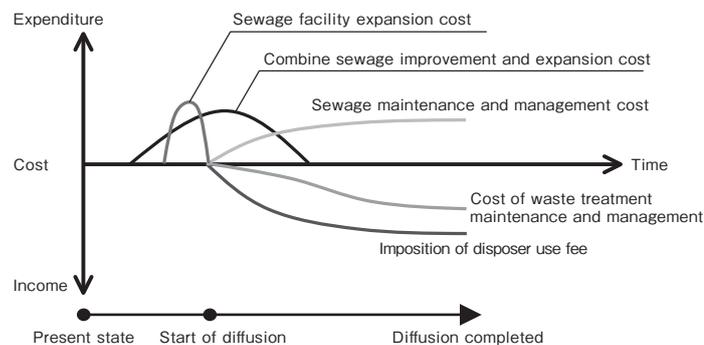
(Results)

1. Basic study

- (1) In the monitor investigation that was aimed at the single-family house and the apartment for three months, the amount of injection kitchen garbage into disposer averaged 101 to 108 g / person / day, and there was no major difference between both.
- (2) The amount of injection kitchen garbage to a disposer was about 60% of the total amount of kitchen garbage produced in the household.

2. Arrangement of study conditions

- (1) It was decided that the possibility of disposer use would be what is examined by quantitative evaluation of the income and expenditure balance of a sewer system and a refuse disposal system with time.
- (2) It was also decided that, in addition to an economical evaluation, the overall evaluation of disposer use would make an impact assessment combined with an evaluation of environmental items (e.g., energy investment and amount of greenhouse gasses emitted).



Cost income and expenditure balance (conceptual image)

(Study schedule)

The project will study the disposer diffusion speed and maximum diffusion rate while continuing its study of the impact of disposer use (in terms of both economic and environmental aspects). And it is due to adjust about the technical measure and system design.

Research commissioned by Kitakyushu City

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key words

Disposer, Cost income and expenditure balance, Environmental assessment