

## The study to planning technique for the greenhouse-gas curtailment in Sewage Works

Year of Research

2008

### (Purpose)

“Law Concerning the Promotion of Countermeasures to Cope with Global Warming” was proclaimed in October 1998. In response to this, the guideline for establishment of an action plan to prevent global warming in sewage works was proposed to promote measures of sewage works (1999).

In February 2006, the Kyoto Protocol went into effect. Japan is supposed to reduce the emission of greenhouse gases to a level 6% below the level at 1990 by 2010. However, it is expected to be difficult to achieve the target. In addition, the situation of society and the law about global warming changed a lot. Furthermore, various energy saving and new energy were performed in the sewer field.

This research aimed at conducting revision of the guideline and further promotes greenhouse-gas curtailment in sewage works.

### (Results)

In this research, a new trend and new technical know-how were added.

A revised edition of the new guideline. Contents are as follows.

“Guideline for establishment of an promotion plan to prevent global warming in sewage works”

Chap 1. General statement

Chap 2. Contents of promotion plan to prevent global warming

Chap 3. Identification of the emission source and emission of greenhouse effect gas

Chap 4. Calculation of total emission of greenhouse effect gas

Chap 5. Countermeasure for greenhouse effect prevention

Chap 6. Formulation and promotion of action plan for greenhouse effect prevention

Chap 7. Case studies of establishment of action plan for greenhouse effect prevention are shown.

### References

The point of revision is as follows.

(1) Change of a plan name

action plan to prevent global warming → promotion plan to prevent global warming

(2) The target of an inside long period of time

In principle, the foundations of a plan term are for five years. If needed, the directivity of a long measure (10-20years) is shown inside

(3) The target by the amount of discharge per unit

In principle, a target is set up with the total amount of discharge. If needed, the method by the comparison with a discharge par unit or the numerical value without measure is sufficient as a target.

(4) The measure with the entrepreneur of varieties which cooperated

A measure example and the example of calculation while cooperating with other parts other than a sewer enterprise or a civilian enterprise company are indicated. If needed, the measure is positioned in a plan.

(5) Others

Change to the newest data, Printing of a concrete calculation example

This research was commissioned by the Sewerage Division, City and Regional Development Bureau, Ministry of Land, Infrastructure and Transport.

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Key words

Global warming, Greenhouse gas, Establishment of measures to prevent global warming