

## The study to establish the countermeasures to Prevent Global Warming in Sewage Works

Year of Research

2007

### (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.

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.

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

In addition, this research follows research service, "examination of measures utilizing new technology against global warming in the sewer field" among "deliberation about development, a trend, etc. of new technologies concerning resources-ization of the sewer sludge by cooperation of an industry-university official."

### (Results)

Formulation of an action plan is progressing in the big city. However, it is being late in the city of a minor scale. Moreover, in many plans, concrete measures are not shown.

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

#### (1) Arrangement of data about prevention of global warming

- A trend of the world (system, low)
- Technical know-how

#### (2) Arrangement of data about action plans to prevent global warming

- The example of action plan for prevention of global warming
- Information, such as a coefficient used when calculating for emission of greenhouse effect gas
- To show possible countermeasures to prevent emission of greenhouse effect gas
- Reference data and other information

#### (3) Revision of the guideline

A revised edition of the guideline for establishment of measures to prevent global warming in sewage works was proposed. Contents are as follows.

#### Chap 1. General statement

Measure, A terminological definition, Duty, Scope

#### Chap 2. The whole of action plan for global warming prevention in sewage works

Composition of a plan, Important matter

#### Chap 3. Present condition grasp of the emission of greenhouse effect gas

The calculation method of greenhouse gas

#### Chap 4. Consideration of the emission of greenhouse effect gas

Total, Evaluation, Future estimation

#### Chap 5. Formulation and promotion of action plan for global warming prevention in sewage works

The matter which should be indicated in plan

#### Chap 6. Enforcement and management of action plan for global warming prevention in sewage works

Important matter at the time of measure implementation

#### References

Circumstances of a problem, The example of measure, Related data

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, establishment of measures to prevent global warming