# Recent Progress in PRTR in Japan

the 13th PRTR Task Force Meeting

## 20 May 2010

Masayoshi KURISU, Ministry of the Environment Noritaka MIYASAKA, National Institute of Technology and Evaluation

# **Topics**

- 1. Recent PRTR data
- 2. Revision of PRTR in Japan
  - 2-1. Revision of target substances
  - 2-2. Revision of target business categories
  - 2-3. Revision of reporting format
  - 2-4. Expansion of diffuse source estimation

# 1. Recent PRTR data

## PRTR Data for FY 2008

■PRTR data was released on 26 Feb. 2010 (same time as last year)

17,953 facilities

- ■The Number of Facilities Reported: 39,472 (Reports by Paper: 52.5%, by FD: 2.0%, by Online: 45.5%)
- ■Total Releases: 490kt (kt= 1,000 tons) (Reported: 41%, Estimated: 59%)

Top three chemicals of Releases:

- 1. Toluene: 140 kt, 2. Xylene: 93 kt, 3. Ethylbenzene: 29 kt
- ■Total Transfers: 201 kt

  Top three chemicals of Transfers:
  - 1. Toluene: 46 kt, 2. Manganese and its Compounds: 22 kt,
  - 3. Chromium and Chromium(III) Compounds: 13 kt

## Spread of Electronic Reporting

- FY 2001: 1.3% ( 466 facilities)
- FY 2002: 3.6% (1,255 facilities)
- FY 2003: 8.7% (3,560 facilities)
- FY 2004: 28.8% (11,646 facilities) ==
- FY 2005: 36.3% (14,836 facilities)
- FY 2006: 40.0% (16,420 facilities)
- FY 2007: 43.2% (17,663 facilities)
- FY 2008: 45.5% (17,953 facilities)
  - Improvements of the convenience of reporting system
  - Distributions of brochures to businesses

increasing

# 2-1. Revision of target substances

## Implementation of the Law for PRTR

- 1996 : Recommendation on implementing PRTR (OECD)
- 1999: Enactment of the Law for PRTR

## [Purposes of the Law]

- to promote voluntary improvement of the management of chemical substances by business operators
- to prevent any impediments to the preservation of the environment

## [System]

- Reporting of releases and transfers from stationary sources (Initially 354 chemicals from certain business categories; e.g. manufacturing industries)
- Estimation of releases from diffuse sources
- Publication of aggregated data (Annually since 2003 for 2001 data)

## Implementation of the Law for PRTR

 2007: Review Report for the revision of the PRTR system

- 2008: Expansion of target substances and business categories
  - Target chemicals were reviewed and added (from 354 to 462 since 2010 data)
  - Medical service was added to business categories subject to PRTR reporting (since 2010 data)
- 2009 : PRTR data from individual facilities are available on the web in addition to aggregated data.

## Target substances of the PRTR System in Japan

- 462 substances as Class 1 Designated Substances
- 15 substances as Specific Class 1 Designated Substances
- The revised list of target substances will be effective from FY2010 data (FY2011 reporting)

The new list of PRTR target substances is available in English on the following website <a href="http://www.env.go.jp/chemi/prtr/archive/target\_chemi/chemicals\_list\_en.xls">http://www.env.go.jp/chemi/prtr/archive/target\_chemi/chemicals\_list\_en.xls</a><a href="http://www.meti.go.jp/policy/chemical\_management/law/pdf/090109\_eng\_1shinki.pdf">http://www.meti.go.jp/policy/chemical\_management/law/pdf/090109\_eng\_1shinki.pdf</a>

#### \*reference

#### Class 1 Designated substances

Selected based on the toxicity, and the likelihood of its exposure (harmful to human health, effect on the habitat or growth of animals and plants, or harmful to the ozone layer)

#### Specific Class 1 Designated substances

- Those of the 462 substances identified as carcinogenic
- Asbestos, ethylene oxides, cadmium etc.



## Business Categories (23 to 24 types)

# Medical service was added to the designated type of business from FY2011 reporting(from 23 to 24 business categories)

- (1)Metal mining
- (2)Crude oil and natural gas mining
- (3) Manufacturing
- (4) Electricity industry
- (5) Gas
- (6) Heat supply
- (7) Sewage
- (8) Railway
- (9) Warehouse
- (10) Petroleum wholesale
- (11) Scrap iron wholesale
- (12) Automobile wholesale industry
- (13) Fuel retail

- (14) Laundry
- (15) Photography
- (16) Automobile maintenance
- (17) Machinery and equipment repair
- (18) Product testing
- (19) Measurement certification
- (20) Household waste disposal
- (21) Industrial waste disposal

#### (22) Medical service

- (23) Higher educational institutions
- (24) Research institutes for natural science.

# 2-3. Revision of reporting Format

# **Revision of Reporting Format**

On April 1 of 2010, the reporting format for PRTR in Japan was revised. The new format is used from the notification of 2010 data

### **OThe addition of Report Item**

To estimate the chemical release to the environment from the sewage plant and waste treatment plant, three report items were added

- The name of the connecting sewage plant
- waste disposal methodkinds of waste

## O The addition of Two Dimensional Symbol



To enhance the efficiency for registering data, Attachment of two dimensional symbol got to be acceptable



Two dimensional

symbol

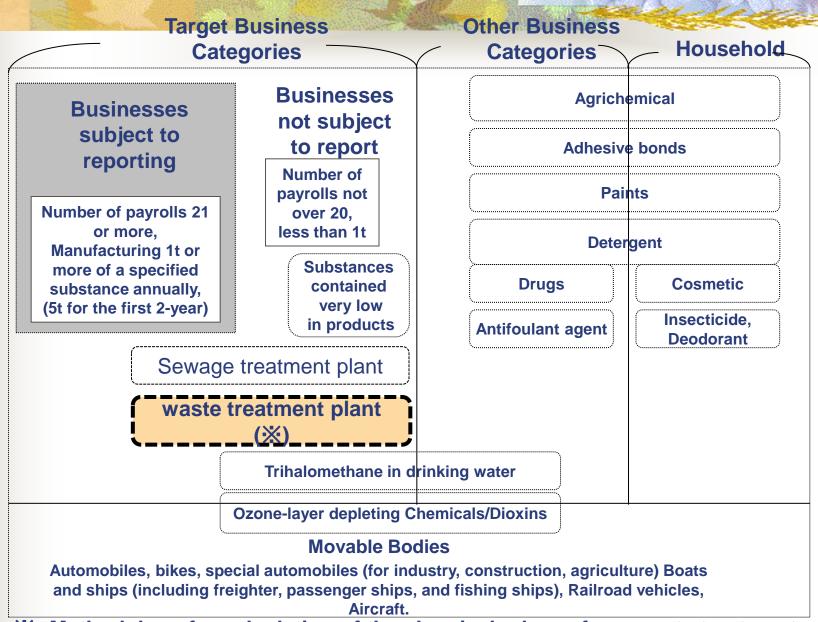


## Calculation of Releases

Government calculates the quantity of Class 1
 Designated Chemical Substances assumed to have been released to the environment, which is not included in the reports by businesses.

Agricultural pesticides adhesives paint detergents medical supplies

cosmetics
antifouling agent
insecticides
deodorants



**Methodology for calculation of the chemical release from waste treatment plant is under consideration.** 

Thank you for your attention!!