











2 Introduction of GEF/UNDP Project-Enabling China to Prepare Its Initial National Communication (ECPINC)

Project brief

Project No.: <u>CPR/00/G31/A/1G/99</u> Project Title: Enabling China to Prepare Its Initial National Communication (ECPINC) Duration: 2 Year and 4 Months Management Arrangement: National Execution Designated Institution: State Development Planning Commission (National Development and Reform Commission:) Project Sites: Beijing and Provinces











Preparation of 1994 <u>agricultural sector</u> inventory

Output 1:

• Estimate of 1994 methane emissions from wetland rice fields Output 2:

- Estimate of 1994 nitrous oxide emission from croplands
 Output 3:
- Estimate of 1994 methane emissions from enteric fermentation
 Output 4:
- Estimate of 1994 methane and nitrous oxide emission from animal waste management systems

Output 5:

 Workshop held for the agricultural section of the emissions inventory





<u>Increased public and political awareness</u> and action related to climate change

Output 1:

Awareness raising program

Output 2:

 Documentation, media, and workshop to promote awareness and understanding of climate change to a targeted audience through initial awareness raising program

Output 3:

 Report on national long-term strategies for improving public awareness of climate change issues **3** Introduction of Preparing for Inventory of Greenhouse Gas Emission from Municipal Waste Sector

The Reviews of the Previous Studies on CH₄ Emission Inventory The Uncertainty Analysis The Problems Encountered

The Estimates of Global CH₄ Emissions from Different Waste Sources and Its Percentages

Sources	Emission Amount (Tg/yr)	Percentage of Total Emissions from Anthropogenic sources globally (%)	(Tg/yr)
SWDSs	20~70	5~20	
WWHs	30~40	8~11	Industrial: 26~40 Domestic: 2

IPCC, 1996



- 1. The problems and choices of Chinese greenhouse gases control: the sources and sinks of Chinese greenhouse gases in 1990 (WB & GEF)
- 2. National Research on Chinese Climatic Change (USA)
- **3.** China's national Response Strategy for Global Climate Change (ADB)
- 4. Research on greenhouse gas emission and countermeasure in Beijing (Canada)
- 5. ALGAS (ADB)

	The U	ncertainty A	Analysis		
Project	The Problems and Choices Chinese GHGs Control	National Research on Chinese Climate Change	China's National Response Strategy for Global Climate Change	ALGAS	
Foundation	GEF/WB	US Department of Energy	ADB	ADB	
Base Year	1990	1990	1990	1990	
Recommended Values (Mt CH ₄)	0.792	2.5 (2.3 to 2.7)	1.3 (0.6 to 2.0)	0.899	
Uncertainty (Mt CH ₄)	0.6 to 2.7				

The Problems encountered during prepare inventory of GHGs Emission

- **1.** Population Statistics Data
- 2. Data on MSW Generation Rates in China
- 3. The Disposed Rate of MSW to SWDSs in China
- 4. Analysis Composition of MSW in China
- 5. The Degradable Organic Carbon (DOC) Content of Waste
- 6. Categories of Waste Disposal Sites
- 7. Other Default Values Recommended by IPCC

Population Statistics data:

In revised 1996 IPCC Guidelines for National Greenhouse Gas Inventory:

For developed countries the population data is likely to be the total country population;

For developing countries and countries with economies in transition, the population data may be the total urban population only, because the rural population is assumed to dispose of waste in such a way that CH_4 emissions are extremely low.

But In China today there are more and more people lived in rural region go into urban areas to seek opportunities to work and live there. From our survey there are about 70 million people from rural worked in urban areas in recent 10 years.

Report by participanting experts on technical issues : China Dr. Gao Qingxian

Data on MSW Generation Rates in China:

In revised 1996 IPCC Guidelines for National Greenhouse Gas Inventory:

Total MSW can be calculated from Population (thousand persons) x <u>Annual MSW generation rate</u> (Gg/thousand persons/yr).

But In China, we have a <u>Municipal Construction Statistic Year Book</u> which have record of the carrying amount and disposal percentage of municipal waste. With the developing of urbanization, the number of cities increase.

Due to the shortage of manage method, the carrying amount should be modified, through vast investigation on the carrying amount and disposal percentage, the experts group of China concluded that the carrying amount of municipal waste should be multiply a coefficient 0.76.

Considering the real situation of municipal waste collection, there are only 75% municipal waste are carried and **treated into** disposal sites.

During calculation, the different disposal rate in different region a considered.















