



Progress Report on WGIA Activities

Jamsranjav Baasansuren

Greenhouse Gas Inventory Office of Japan (GIO)
National Institute for Environmental Studies (NIES)

6th Workshop on Greenhouse Gas Inventories in Asia

Tsukuba, JAPAN
July 16-18, 2008

Workshop on Greenhouse Gas Inventories in Asia (WGIA)



- ▣ To assist the countries in the Asia region in developing and improving their GHG inventories by creating the opportunities to exchange information and share their experiences
- ▣ Since November 2003, five meetings have been held on an annual basis, through which the network of government officials and researchers in the Asia region has been enhanced
- WGIA meetings in the past
 - WGIA1 – Phuket, Thailand, 13-14 November 2003
 - WGIA2 – Shanghai, China, 7-8 February 2005
 - WGIA3 – Manila, Philippines, 23-24 February 2006
 - WGIA4 – Jakarta, Indonesia, 14-15 February 2007
 - WGIA5 – Kuala Lumpur, Malaysia, 6-8 September 2007

Major Activities

- ❑ Share countries efforts and practices
- ❑ Identify common issues and possible solutions
- ❑ WGIA activity report “Greenhouse Gas Inventory Development in Asia - Experiences from Workshops on Greenhouse Gas Inventories in Asia”
- ❑ WGIA online-network to promote further exchange of information and experiences in preparation of SNC
 - WGIA website: <http://www-gio.nies.go.jp/wwd/wgia/wgiaindex-j.html>
 - WGIA online-network (mailing list of WGIA experts)



WGIA Online-Network Activities



□ Discussion of WGIA topics

- To develop the contents of the workshop most relevant to its participants

□ Sharing of useful information on GHG inventory and climate change

□ Data collection and compilation

- To facilitate further exchange of experiences/information in the preparation of the SNC and promote information dissemination

- ✧ Country or region-specific emission factors that were used in GHG inventories in INC as well as newly developed EFs since the submission of INC

- ✧ List of experts' publication related with climate change issues and GHG inventory

- ✧ Information about awareness raising activities related to climate change and GHG inventory in WGIA-participating countries (one of the needs identified in WGIA5)



➤ Status of data collection/submission

- *Country or region-specific emission factors*
 - ✧ CAMBODIA, CHINA, INDIA, KOREA, LAO P.D.R., MALAYSIA
 - ✧ 119 (Energy: 34, Industrial Processes 7, Agriculture: 22, LULUCF: 35, Waste: 21)
- *Publication list*
 - ✧ India, Indonesia
- *Information about awareness raising activities on climate change and GHG inventory*

✧ Country or region-specific emission factors

Inventory Sector	Source Category	Gas	Description	Value	Unit	Source of Data
Energy	1A - Fuel Combustion Activities	CO ₂	Emission factor for combustion of Crude oil	20.0	tC/TJ	Measurements by Korea Institute of Petroleum Quality and Korea Polytechnic University
Energy	1A - Fuel Combustion Activities	CO ₂	Emission factor for combustion of Gasoline	19.7	tC/TJ	Measurements by Korea Institute of Petroleum Quality and Korea Polytechnic University
Energy	1A - Fuel Combustion Activities	CO ₂	Emission factor for combustion of Kerosene	19.5	tC/TJ	Measurements by Korea Institute of Petroleum Quality and Korea Polytechnic University
Energy	1A - Fuel Combustion Activities	CO ₂	Emission factor for combustion of Heating oil	19.5	tC/TJ	Measurements by Korea Institute of Petroleum Quality and Korea Polytechnic University
Energy	1A - Fuel Combustion Activities	CO ₂	Emission factor for combustion of Diesel	19.8	tC/TJ	Measurements by Korea Institute of Petroleum Quality and Korea Polytechnic University

✧ List of experts' publication related with climate change issues and GHG inventory

Singh, A, Gangopadhyaya, S., Nandaa, P. K., **Bhattacharya, S.**, Sharma, C., and Bhan, C. Trends of greenhouse gas emissions from road transport sector in India, *Science of the Total Environment*, 2008, 390, 124-131

<http://www.sciencedirect.com/science/journal/00489697>

Rizaldi Boer, and Elsa Surmaini. 2006. Economic Benefits of Using SOI Phase Information for Crop Management Decision in Rice-Base Farming System of West Java, Indonesia. International Conference on Living with Climate Variability and Change: Understanding the Uncertainties and Managing the Risks. Espoo, Finland, 17-21 July 2006. <http://www.livingwithclimate.fi>

Sharma, S., **Bhattacharya, S.**, and Garg, A. Greenhouse gas emissions from India: A Perspective, *Current Science*, 2006, 90, 326-333

<http://www.ias.ac.in/currsci/feb102006/326.pdf>

Rizaldi Boer, Delon Martinus, A. Faqih and Bambang D. Dasanto. 2004. Impact of Land Use and Climate Changes on Streamflow at Citarum Watershed. Proceeding of the 2nd AIACC Regional Workshop for Asia and the Pacific, 2-5 November 2004, Traders Hotel, 3001 Roxas Blvd., Pasay City, Manila, Philippines. <http://www.aiaccproject.org/meetings/Manila.html>

Swamy, M., and **Bhattacharya, S.** Budgeting anthropogenic greenhouse gas emission from Indian livestock using country-specific emission coefficients; *Current Science*, 2006, 91, 1340- 1353

<http://www.ias.ac.in/currsci/nov252006/1340.pdf>

Mitra A. P., Sharma, S., **Bhattacharya, S.**, Garg, S., Devotta, S., and Sen, K. Climate change and India: Uncertainty reduction in greenhouse gas inventory estimates, Universities Press, India, 2004, p.359

<https://www.vedamsbooks.com/no40583.htm>

Rizaldi Boer, Delon Martinus, A. Faqih and Bambang D. Dasanto. 2004. Impact of Land Use and Climate Changes on Streamflow at Citarum Watershed. Proceeding of the 2nd AIACC Regional Workshop for Asia and the Pacific, 2-5 November 2004, Traders Hotel, 3001 Roxas Blvd., Pasay City, Manila, Philippines. <http://www.aiaccproject.org/meetings/Manila.html>

Other activities of WGIA

- Collaboration with other projects in the region
 - Regional Capacity Building Project for Sustainable National GHG Inventory Management Systems in Southeast Asia (SEA Project)
 - Improvement of Solid Waste Management and Reduction of GHG Emission in Asia (SWGA)



Thank you

GIO website: <http://www-gio.nies.go.jp/index-j.html>

WGIA website: <http://www-gio.nies.go.jp/wwd/wgia/wgiaindex-j.html>