Working group 2

Waste Sector

Members

- **Chair**
  - Tomonori ISHIGAKI   Japan
- **Rapporteur**
  - Sirintornthep TOWPRAYOON   Thailand
- **Members**
  - Cheon-Hee BANG   Korea
  - Qingxian GAO   China
  - Normadiah HUISEN   Malaysia
  - Baasansuren JAMSRANJAV   Japan
  - Joo Hwa SONG   Korea
  - Bulgan TUMENDEMBEREL   Mongolia
  - Hiyuki UEDA   Japan

Presentation in Waste sector

- **Report on SWGA and presentation on 'Property and Reliability of Waste Data'**
    - By Tomonori ISHIGAKI

- **Follow by Three presentations**

- **1 Use of surrogate data in waste sector estimation (China's Case)**
    - By Gao Qingxian
    - Chinese Research Academy of Environmental Science (CRAES)
- **2 . Development of Waste Sector GHG Inventory in Japan**
    - By Hiroyuki Ueda
    - Suuri-keikaku (SUR) , Japan
- **3. Malaysia: Report For Greenhouse Gas Inventories for**
- **Second National Communication (NC2),   (Waste Sector)**
    - By Normadiah Haji Husien
    - Department of Environment Ministry of natural resource and Environment

Property and Reliability of Waste Data

- Difficulty to apply IPCC waste model in Asian country

- GHG emission and waste management

- Problem and difficulty of data collection

- How to get precise data in Japan in term of waste generation rate, waste steam and waste composition

- Substance flow before and after treatment is also important.

Use of surrogate data in waste sector estimation (China's Case)

- ## Why surrogate data is need
- ## Proposed   levels of data acquisition
  - No data   - expert judgment
  - No enough data   - survey and expert judgment
  - Poor data quality   - expert judgment

Development of Waste Sector GHG Inventory in Japan

- Experience on Japan waste sector inventory
- Inventory improvement system and three time revision of inventory (7 year)
- Establishment of statistics that covers all waste material flow
- Some source categories are difficult to estimate emissions without 2006 IPCC Guidelines

Malaysia: Report For Greenhouse Gas Inventories for Second National Communication : Waste Sector

- Experience of Malaysia in estimate GHG
- Barrier and gap identification
- Comparison of methodologies

Discuss sector specific issues
and seek possible solution

Issue : data collection system

Issue

- Not complete in some country

- Improvement : mandatory report, statistical report in the yearbook, though industrial association

- Change the collection system may need time to improve and need support from policy maker, plan, financial and mechanism

Solution/recommendation

- Regulation and authorize by government

- Quality of collection data, suggestion for format of collection

Issue : waste composition change due to policy of waste reduction.

- New policy on waste management such as forbidden plastic . In some country supermarket will not provide the plastic bag .
- Change behavior will effect on the waste composition as well as recycling policy and activity of informal recycle

Issue : Waste stream

- Agree that clear waste stream   is important but difficult to apply in some country.

- Solution is to enhance policy maker understanding and public awareness which is depend on country by country

Potential output

- Establishment of data collection format
- Identification of country specific waste stream
- GL of four levels data collection systems namely : no data, no enough data, poor data quality and good quality data .

Other issue

- **Members notice that issue of GHG emission of wastewater has not been concentrate in WGIA while solid waste treatment is indicated in the forum of SWGA.**

- **Next WGIA should focus more on wastewater emission as well as discussion on the result obtained from SWGA session.**