



## **Africa Regional Workshop on the Building of Sustainable National Greenhouse Gas Inventory Management Systems, and the use of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories**

Organized by the UNFCCC Secretariat in collaboration with the Technical Support Unit of the IPCC Task Force on National Greenhouse Gas Inventories and the Consultative Group of Experts on National Communications from Parties not included in Annex I to the Convention

Swakopmund, Namibia  
24-28 April 2017

**Monday, 24 April 2017**

08:00 - 09:00     **Registration**

### **Session 1 – Opening**

09:00 - 10:00     **Opening session**

- Welcome remarks – Mr. William Agyemang-Bonsu, UNFCCC Secretariat
- Keynote address – Mr. Petrus Muteyauli, Ministry of Environment and Tourism, and National Focal Point of Namibia
- Self-introduction by participants

10:00 – 10:30     - Presentation of workshop objectives, expectations and agenda – Mr. Dominique Revet, UNFCCC Secretariat

10:30 - 10:45     **Coffee break**

### **Session 2 – The Key Role of the National GHG Inventory Management System**

10:45 - 11:15     - CGE Handbook on Building Sustainable National GHG Inventory Management Systems – Mr. William Agyemang-Bonsu, UNFCCC Secretariat

11:15 - 11:30     - Country Presentation: Namibia – National GHG Inventory Management System and use of the 2006 IPCC Guidelines

11:30 - 12:20     - US-EPA Template Workbook on Developing a National GHG Inventory System

- Institutional arrangements for national inventory systems – Mr. Dominique Revet, UNFCCC Secretariat

12:30 - 14:00     **Lunch break, DSA Payment**

### **Session 2 – The Key Role of the National GHG Inventory Management System (cont.)**

14:00 - 14:30     - US-EPA Template Workbook on Developing a National GHG Inventory System

- Practice of the Institutional Arrangements Template – Mr. Dominique Revet, UNFCCC Secretariat
- Exercise #1

14:30 - 15:30     - General discussion on the experience of countries in establishing their institutional arrangements for national GHG inventories

15:30 - 15:50     **Coffee break**

### **Session 2 – The Key Role of the National GHG Inventory Management System (cont.)**

15:50 - 16:10     - Country Presentation: Rwanda - National GHG Inventory Management System – Methods and Data Documentation



- 16:10 – 17:30 - US-EPA Template Workbook on Developing a National GHG Inventory System
- Methods and Data Documentation Presentation – Mr. William Agyemang-Bonsu, UNFCCC Secretariat
  - Practice of the Methods and Data Documentation Template

**Tuesday, 25 April 2017**

***Session 2 – The Key Role of the National GHG Inventory Management System (cont.)***

- 09:00 - 9:20 - Country Presentation: Tunisia - National GHG Inventory Management System – Quality Assurance and Quality Control (QA/QC)

- 9:20 - 10:45 - US-EPA Template Workbook on Developing a National GHG Inventory System
- Quality Assurance and Quality Control (QA/QC) Presentation – Mr. Dominique Revet, UNFCCC Secretariat
  - Practice of the QA/QC Template
  - Exercise #2

10:45 - 11:00 *Coffee break*

- 11:00 - 12:30 - Country Presentation: Benin - National GHG Inventory Management System – Archiving Documentation
- US-EPA Template Workbook on Developing a National GHG Inventory System
- Archiving Documentation Presentation – Mr. William Agyemang-Bonsu, UNFCCC Secretariat
  - Practice of the Archiving Template

12:30 - 14:00 *Lunch break*

- 14:00 - 14:20 - Country Presentation: Côte D'Ivoire - National GHG Inventory Management System – Key Category Analysis
- 14:20 - 15:30 - US-EPA Template Workbook on Developing a National GHG Inventory System
- Key Category Analysis Presentation – Mr. Dominique Revet, UNFCCC Secretariat
  - Practice of the Key Category Analysis Template
  - Exercise #3

15:30 - 15:45 *Coffee break*

- 15:45 - 16:45 - Country Presentation: Egypt - National GHG Inventory Management System – National Inventory Improvement Plan
- US-EPA Template Workbook on Developing a National GHG Inventory System
- National Inventory Improvement Plan Presentation – Mr. William Agyemang-Bonsu, UNFCCC Secretariat
  - Exercise #4

- 16:45 - 17:30 - Group Discussion:
- Experience of countries in using the proposed templates to support the establishment/refinement of their national GHG inventory management systems
  - Action plan for disseminating and utilizing proposed templates



**Wednesday, 26 April 2017**

**Session 3 – 2006 IPCC Guidelines - General guidance and reporting**

- 09:00 - 10:30
- Overview of 2006 IPCC Guidelines for national greenhouse gas inventory – including differences between Revised 1996 and the 2006 IPCC Guidelines – Mr. Andrej Kranjc, IPCC TFI TSU, and Mr. Kiyoto Tanabe, CGE Member
  - Uncertainty analysis – Ms. Baasansuren Jamsranjav, IPCC TFI TSU
  - Key category analysis – Mr. Pavel Shermanau, IPCC TFI TSU
  - Approaches to Data Collection – Ms. Sekai Ngarize, IPCC TFI TSU
  - Questions and answers

10:30 - 10:45 *Coffee break*

10:45 - 12:30 **2006 IPCC Guidelines - General guidance and reporting (cont.)**

- Introduction to the IPCC software and Emission Factor Database (EFDB) – Ms. Baasansuren Jamsranjav, IPCC TFI TSU
- Hands-on session on EFDB – Ms. Baasansuren Jamsranjav, IPCC TFI TSU
- Introduction to the IPCC Inventory software – Mr. Pavel Shermanau, IPCC TFI TSU
- Installation of the IPCC software – Mr. Pavel Shermanau, IPCC TFI TSU

12:30 - 14:00 *Lunch break*

**Session 4 – Methodology on each sector (two break-out Groups in parallel: Group A on Energy, IPPU and Waste, Group B on AFOLU)**

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|---------------|---|--|
| 14:00 - 15:45 | <b>Session 4A1: Energy Sector</b> – Mr. Pavel Shermanau, IPCC TFI TSU                   | <b>Session 4B1: Agriculture Sector</b> – Ms. Sekai Ngarize, IPCC TFI TSU                     |
|               | - Energy sector – source categories, methodology and improvement under 2006 methodology | - Agriculture sector – source categories, methodology and improvement under 2006 methodology |
|               | - Hands-on session on the IPCC software based on an exercise for the sector             | - Hands-on session on the IPCC software based on an exercise for the sector                  |

15:45 - 16:00 *Coffee break*

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|---------------|---|--|
| 16:00 - 16:20 | - Country Presentation: Ghana - National GHG Inventory - Energy Sector                  | - Country Presentation: Namibia - National GHG Inventory – Agriculture Sector                |
| 16:20 - 18:00 | <b>Session 4A1: Energy Sector</b> – Mr. Pavel Shermanau, IPCC TFI TSU                   | <b>Session 4B1: Agriculture Sector</b> – Ms. Sekai Ngarize, IPCC TFI TSU                     |
|               | - Energy sector – source categories, methodology and improvement under 2006 methodology | - Agriculture sector – source categories, methodology and improvement under 2006 methodology |
|               | - Hands-on session on the IPCC software based on an exercise for the sector             | - Hands-on session on the IPCC software based on an exercise for the sector                  |

**Thursday, 27 April 2017**

**Session 4 – Methodology on each sector (cont.)**

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|---------------|---|--|
| 08:00 - 10:00 | <b>Session 4A2: Industrial Processes and Product Use Sector</b> – Mr. Pavel Shermanau, IPCC TFI TSU | <b>Session 4B2: Forestry and Other Land Use Sector</b> – Ms. Sekai Ngarize, IPCC TFI TSU |
|               | - Country Presentation: South Africa -  | - Country Presentation: Togo - National  |



	National GHG Inventory – Industrial Processes and Product Use Sector	GHG Inventory – Forestry and Other Land Use Sector
	- Industrial Processes and Product Use sector – source categories, methodology and improvement under 2006 methodology	- Forestry and other land use sector – source categories, methodology and improvement under 2006 methodology
	- Hands-on session on the IPCC software based on an exercise for the sector	- Hands-on session on the IPCC software based on an exercise for the sector
10:00 - 10:15	<i>Coffee break</i>	
10:15 - 12:30	<b>Session 4A2: Industrial Processes and Product Use Sector (cont.)</b> – Mr. Pavel Shermanau, IPCC TFI TSU	<b>Session 4B2: Forestry and Other Land Use Sector (cont.)</b> – Ms. Sekai Ngarize, IPCC TFI TSU
	- Industrial Processes and Product Use sector – source categories, methodology and improvement under 2006 methodology	- Forestry and other land use sector – source categories, methodology and improvement under 2006 methodology
	- Hands-on session on the IPCC software based on an exercise for the sector	- Hands-on session on the IPCC software based on an exercise for the sector
12:30 - 14:00	<i>Lunch break</i>	
14:00 - 15:45	- <b>Session 4A3: Waste Sector</b> – Ms. Baasansuren Jamsranjav, IPCC TFI TSU	<b>Session 4B2: Forestry and Other Land Use Sector</b> – Ms. Sekai Ngarize, IPCC TFI TSU
	- Country Presentation: Morocco - National GHG Inventory – Waste Sector	- Country Presentation: Mauritius - National GHG Inventory – Forestry and Other Land Use Sector
	- Waste sector – source categories, methodology and improvement under 2006 methodology	- Hands-on session on the IPCC software based on an exercise for the sector – continued
	- Hands-on session on the IPCC software based on an exercise for the sector	
15:45 - 16:00	<i>Coffee break</i>	
16:00 - 18:00	- <b>Session 4A3: Waste Sector (cont.)</b> – Ms. Baasansuren Jamsranjav, IPCC TFI TSU	<b>Session 4B2: Forestry and Other Land Use Sector (cont.)</b> – Ms. Sekai Ngarize, IPCC TFI TSU
	- Waste sector – source categories, methodology and improvement under 2006 methodology	- Hands-on session on the IPCC software based on an exercise for the sector – continued
	- Hands-on session on the IPCC software based on an exercise for the sector	

### Friday, 28 April 2017

#### **Session 5 – Integration of work done for each sector** – Ms. Baasansuren Jamsranjav, IPCC TFI TSU

- 8:00 - 10:00
- Simulation exercise on inventory compilation using the IPCC Inventory Software
  - Key category analysis using the IPCC Inventory Software
  - Uncertainty analysis using the IPCC Inventory Software

#### 10:00 - 10:15 *Coffee break*

#### 10:15 - 12:30 **Integration of work done for each sector (cont.)** – Ms. Baasansuren Jamsranjav, IPCC TFI TSU

- Producing reporting tables using the IPCC Inventory Software
- Time series consistency



- Hands-on session on ensuring time-series consistency using an Excel file

12:30 - 14:00 *Lunch break*

***Session 5 – Integration of work done for each sector (Cont.)*** – Ms. Baasansuren Jamsranjav, IPCC TFI TSU

- 14:00 - 15:30
- Hands-on session on ensuring time-series consistency using an Excel file (Cont.)
  - Questions and answers (overall)

15:30 - 15:45 *Coffee break*

***Session 6 - Closing (Moderated by the UNFCCC Secretariat)***

- 15:45 - 16:15
- Discussion on lessons learnt throughout the workshop
  - Closing remarks
  - Workshop evaluation