

CGE Hands-on Training Workshop on Vulnerability and Adaptation  
Assessments for the Asia and Pacific Region  
Jakarta, Indonesia, 20 to 24 March 2006

**Day 1: Monday, 20 March**

**Opening** 9:00 - 9:30

Chairperson: Mr. Salman Al Farisi, Director, Ministry of Foreign Affairs

Welcome remarks

Mr. Salman Al Farisi, Director, Ministry of Foreign Affairs

Opening remarks

Mr. M. Asaduzzaman, Chairperson, CGE

Mr. Janos Pasztor, Coordinator, UNFCCC secretariat

Hon. Masnellyarti Hilman, Deputy Minister, Ministry of Environment

**Coffee/tea break** 9:30 - 9:45

**Overview of programme** 9:45 - 10:15

Chairperson: Mr. M. Asaduzzaman, CGE Chairperson

*Presentation of workshop objectives and expectations*

Ms. June Budhooram, UNFCCC secretariat

*Introduction of presenters and review of agenda*

Mr. Dominique Revet, UNFCCC secretariat

**Country experiences in vulnerability and adaptation assessments** 10:15 - 11:30

The objective of this session is to draw out the problems and difficulties encountered by countries with regard to vulnerability and adaptation assessments and reporting of the different sectors (coastal resources, water resources, agriculture and human health) or across sectors in the initial national communications. The country presentations will also include lessons learned and other best practices in V and A assessments.

Coastal resources

*Ms. Pasha Carruthers (Cook Islands)*

Water resources

*Ms. Tatyana Spektorman (Uzbekistan)*

Agriculture

*Mr. Xiong Wei (China)*

**UNFCCC Guidelines in reporting vulnerability and adaptation** 11:30 - 12:30

Presenter: Mr. Vute Wangwacharakul, CGE

The objective of this session is provide the participants with the requirements for reporting and presenting information on V&A in accordance the UNFCCC guidelines for the preparation of their national communications.

**Lunch break** 12:30 - 13:30

**Overview of frameworks for vulne rability and adaptation assessments and its integration into sustainable development** 13.30 - 15:30

Presenters: Ms. Xianfu Lu, NCSP/UNDP  
Mr. Youssef Nassef, UNFCCC secretariat

The objective of this session is to provide the participants with an overview of the various frameworks that may be used for examining the potential impacts of climate change and adaptation. In particular, this session will cover approaches to V and A assessments and different frameworks such as the UNDP's adaptation policy framework, the national adaptation programme of action and frameworks used by the Intergovernmental Panel on Climate Change and the U.S. Country Studies Programme and the United Nations Environment Programme. It will also cover an important aspect of the integration of such assessments into sustainable development and planning at a national level.

**Coffee/tea break** 15:30 - 15:45

**Integration of vulnerability and adaptation analysis** 15:45 - 17:00

Presenter: Mr. Arthur Rolle, CGE

The objective of this session is to introduce to the participants practical examples of reporting on the results of integrated V and A assessments, including, examples of overall coordination, integration and reporting of information for all sectors of (general introduction and methodological framework, water resources, human health, coastal zones and infrastructure, etc.) consistent with the revised guidelines appended to decision 17/CP.8. This session will also involve:

- a) Training on models for integrated reporting of V&A including a general discussion on the key aspects of integrated assessment (e.g., temporal and spatial scales, etc.);
- b) Exercises in methods and tools and their possible applications, for performing vertical (e.g., from global, regional, to local) and/or horizontal (e.g., cross-sector) integrated V&A assessment;

**Exercise in integration of vulnerability and adaptation analysis** 17:00 - 18:00

## **Day 2: Tuesday, 21 March**

**Summary of day 1** 9:00 - 9:15

Chairperson: Mr. George Manful, CGE/UNEP

**Overview of climate change scenarios** 9:15 - 10:30

Presenter: Ms. Xianfu Lu, NCSP/UNDP

This session will provide the participants with an overview on how to develop climate change scenarios and the resources available. This session will also discuss the types of climate change scenarios and their strengths and limitations.

Coffee/tea break 10:30 - 10:45

**Climate change scenarios exercise** 10:45 - 12:30

Lunch break 12:30 - 13:30

**Climate change scenarios exercise (cont.)** 13:30 - 14:15

**Overview of socio-economic scenarios** 14:15 - 15:15

Presenter: Ms. Xianfu Lu, NCSP/UNDP

The objective of this session is to provide a comprehensive overview of the baseline socio-economic scenarios used in V and A assessments. This session summarizes the design, development and application of baseline scenarios in order to understand how future development paths affect the vulnerability to climate change.

**Socio-economic scenarios exercise** 15:15 - 16:15

Coffee/tea break 16:15 - 16:45

**Impact, vulnerability and adaptation assessment for coastal zones** 16:30 - 18:00

Presenter: Mr. Robert Kay

The objective of this session is to provide the participants with information on impact, vulnerability and adaptation assessment for coastal zones including:

- a) A general discussion on the impacts of climate variability and climate change, and sea level rise on coastal zones (e.g. coastal erosion, inundation, flooding) and human settlement;

b) Methods and tools to assess impacts, V&A relating to coastal zones and human settlement: for example; OPCOM (Operational Modelling for Coastal Management); COSMO (Coastal zone Simulation Model); RamCo (an Excel-based prototype decision support tool); GIS mapping.

### **Day 3: Wednesday, 22 March**

**Summary of day 2** 9:00 - 9:15

Chairperson: Ms. Martha Perdomo, CGE/NCSP/UNDP

**Exercise in vulnerability and adaptation assessment for the coastal zones** 9:15 - 12:30

Lunch break 12:30 - 13:30

**Impact, vulnerability and adaptation assessment for the water sector** 13:30 - 15:00

Presenter: Mr. Chris Swartz

The objective of this session is to provide information on Impact, vulnerability and adaptation assessment for the water resources sector including :

a) A general discussion on the impacts of climate variability and climate change on the various aspects (e.g. availability, temporal and spatial distribution, floods, droughts, water quality, etc.) of water resources;

b) Methods and tools to assess V&A on water resources: for example, Soil & Water Assessment Tool (SWAT); PODIUM (Policy Dialogue Model); Water Accounting for Integrated Water Management.

Coffee/tea break 5:30 - 15:45

**Exercise in vulnerability and adaptation assessment for the water sector** 15:45 - 18:00

### **Day 4: Thursday, 23 March**

**Summary of day 3** 9:00 - 9:15

Chairperson: Mr. Arthur Rolle, CGE

**Impact, vulnerability and adaptation assessment for the agriculture sector** 9:15 - 10:45

Presenter: Ms. Ana Iglesias

The objective of this session is to provide the participants with information on impact, vulnerability and adaptation assessment for the agriculture sector:

- a) A general discussion on the impacts of climate variability and change on agricultural productivity and food security;
- b) Methods, tools and issues to assess V&A in the agricultural sector: for example, Decision Support System for Agro-technology Transfer (DSSAT); Agriculture Production Systems Simulator (APSIM); Erosion Productivity Impact Calculator (EPIC); WOFOST (for estimating crop production; indicate yield variability; evaluate effects of climate changes or soil fertility changes; and determine limiting biophysical factors) and any other methods, tools or models that may be relevant given the makeup of the agricultural sector in the relevant world regions.

Coffee/tea break	10:45 - 11:00
<b>Exercise in vulnerability and adaptation as sessment for the agriculture sector</b>	11:00 - 12:30
Lunch break	12:30 - 13:30
<b>Exercise in vulnerability and adaptation assessment for the agriculture sector (cont)</b>	13:30 - 15:00
Coffee/tea break	15:00 - 15:15
<b>Impact, vulnerability and adaptation assessment for human health</b>	15:15 - 16:45

Presenter: Ms. Kristie Ebi

The objective of this session is to provide information on impact, vulnerability and adaptation assessment for human health.

- a) A general discussion on the direct and indirect impacts of climate variability and climate change on human health (e.g. heat stress, epidemics of various diseases,) and well being;
- b) Methods and tools to assess impacts, V&A options in human health: for example; MIASMA (Modelling Framework for the Health Impact Assessment of Man-Induced Atmospheric Changes); DENSiM (Dengue Simulation Model).

<b>Exercise in vulnerability and adaptation assessment for Human health</b>	16:45 - 18:00
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## **Day 5: Friday, 24 March (Revised)**

### **Exchange of views on technical support needs** 9:00 - 9:30

Chairperson: Ms. June Budhoom, UNFCCC secretariat

Facilitators: Mr. Yolando Velasco and Mr. Youssef Nassef, UNFCCC secretariat

The secretariat will present the results of the questionnaire on technical support identified by participants in preparing the V and A section of the national communications to facilitate discussions relating to additional training needs and arrangements for networking and cooperation among the participants and with the support of the implementing agencies and other organizations.

### **Addressing technical support needs for the preparation of national communications** 9:30 - 10:30

Presenters:

Ms. Martha Perdomo, NCSP/UNDP

Mr. George Manful, UNEP/DGEF

In response to the outcomes of the exchange of views, the National Communications Support Programme (NCSP), jointly implemented by United Nations Development Programme and the United Nations Environment Programme, will be invited to address the concerns raised by participants at the workshop.

### **Workshop assessment** 10:30 - 11:00

Mr. Dominique Revet, UNFCCC secretariat

### **Closing session** 11:00 - 11:30

Closing remarks

Mr. M. Asaduzzaman, CGE Chairperson

Ms. June Budhoom, UNFCCC secretariat

Mr. Salman Al Farisi, Ministry of Foreign Affairs, Republic of Indonesia

### **Lunch** 11:30 - 12:00

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