



# Second National Communication of Sri Lanka

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# Sri Lanka



# Sri Lanka



- 65,610km<sup>2</sup>
- Coast Line – 1585 km
- Population – 20.45 million (2009)
- Economy - US\$ 42 Billion (2009)
  - service sector – 59%
  - Industry – 29%
  - Agriculture – 12%

# Climate of Sri Lanka

- Monsoon weather pattern
- 3 climatic zone
  - Wet- 2500-5000 mm
  - Intermediate – 1750-2500 mm
  - Dry – below 1750 mm
- Annual mean surface temperature
  - Lowlands – 27° C
  - Highlands – 15° C

# National Communication in Sri Lanka

- Ratified UNFCCC – 1993
- Acceded KP – 2002
- Initial National Communication was submitted on 6<sup>th</sup> November 2000
- Second National Communication was submitted on 16<sup>th</sup> March 2012

# Institutional arrangements

- Project management unit
  - Thematic consultants – key themes
  - Thematic working groups
  - Separate consultant for compilation
- No permanent team

# Impacts, Vulnerability and Adaptation

- **Temperature variation**

- Maximum temperature – 0.46 C per decades
- Minimum temperature – 0.27 C Per decade
- Projection – 1.1- 2.4 C 2100

- **Rainfall variation**

- Decreasing trend ranging from 1.5 mm/year to 19 mm/year



# Key Adaptation Options

- **Agriculture**

- Varietal development
- Changes in Cropping calendar
- Soil and water conservation methods

- **Water**

- Transport water from wet zone – dry zone

# Key Adaptation Options Cont.

- **Health**

- Policy measures on improving public health system
- Educating the people

- **Coastal zone**

- Relocation of coastal communities/infrastructure

# Greenhouse gas inventory

Base year -2000

Revised 1996 guidelines

Tier 1 methodology

Total net emission – 12,588 GgCO<sub>2eq</sub>

Per capita emission – around 600 kg

# Mitigation Measures

- **Transport (44%)**
  - Fright transport- roads to railways
- **Power Sector ( 27%)**
  - 10% NCRE by 2015

# Outcome of the SNC

- **Awareness Creation**
  - school children, teachers, government officers, general public
  - awareness materials, video documentary on climate change
  - website for Climate Change Division as [www.climate change.lk](http://www.climatechange.lk)
- **Capacity Building**
  - Developed the skill on GHG inventory preparation for relevant sectors government officers through local training programmes
- **Identified future research needs**
  - New crop varietal development programmes

# Challenges

- Inadequate data for GHG Inventory, Mitigation Analysis, vulnerability assessments
- Inadequate technical capacity on GHG inventory preparation, mitigation analysis, vulnerability assessment

# Future steps

Preparation of TNC

Capacity building for national communication team

Implementation of identified research needs to fill the data gap

Establishment of Data Base Management System

Establishment of proper mechanism for mainstreaming the national communication outcome into the national development agenda

## Specific needs

- Technical and financial support to overcome the existing gaps
- Institutional strengthening



THANK YOU