Indicators Related to Air and Climate in the MDG, CSD and NEPAD list

United Nations Statistics Division

Workshop on Environment Statistics
(Addis Ababa, 16-20 July 2007)
• Goal 7 Target 9 Indicator 28:
  – Carbon dioxide emissions (per capita) and consumption of ozone depleting substances
    (Earlier: ozone depleting CFCs)

(Debate on moving from CO2 to total GHG emissions per capita)
Sources of data:

• National:
  emission inventories reporting to UNFCCC

• International:
  Carbon Dioxide Information Analysis Centre (CDIAC) based on UNSD energy statistics and the IPCC method (includes CO2 from energy, gas flaring and cement production)
  International Energy Agency (includes CO2 from energy)
CSD Indicators of Sustainable Development

- Theme: Atmosphere
  - Sub-theme: Climate change
    - Indicator: CARBON DIOXIDE EMISSIONS
      - Emission of greenhouse gases
  - Sub-theme: Ozone layer depletion
    - Indicator: CONSUMPTION OF OZONE LAYER DEPLETING SUBSTANCES
  - Sub-theme: Air quality
    - Indicator: Ambient concentration of air pollutants in urban areas
Data sources:

• National:
  Emission inventories
  Reporting to UNFCCC
  Production and trade statistics (ODS)
  Measurements from air quality monitoring stations

• International:
  CDIAC and IEA (only CO2)
NEPAD indicators

• Air (atmosphere)
  • Air quality
    • Annual mean concentration of SO2 in ambient air
    • Annual mean concentration of NO2 in ambient air
    • Annual mean concentration of SPM10 in ambient air
Data sources:

- National air quality monitoring network
NEPAD list (cont)

• Air (atmosphere)
  • Climate variability
    • Annual variability in temperature (at least 30 years)
    • Annual variability in rainfall (at least 30 years)
    • Frequency of extreme events (No. of people affected by droughts, floods)
Sources of data:

• Meteorological Institute
• Statistics on extreme events

International:
  WMO, IPCC
  CRED
NEPAD list (cont)

• **Air (atmosphere)**
  • **Climate change**
    • Emissions of greenhouse gases (SO2, NO2, CH4)
    • Emissions of greenhouse gases (CO2)
    • Annual mean emission of lead (Pb)
    • Frequency of extreme events (No. of people affected by droughts, floods)
Sources of data

- Emission inventories
- Reporting to UNFCCC
- Statistics on extreme events

International:
- CDIAC and IEA (only CO2)
- CRED