# People's Republic of Bangladesh

A Glance At: Emissions, Energy, Climate





## Introduction to Bangladesh

- Formally known as East Pakistan until 1971, Bangladesh is small country, comparable to the size of Iowa, located in Southern Asia (24 oo N, 90 oo E).
- With India as its primary border, Bangladesh also borders the Bay of Bengal and a small section of Burma to the southeast.



<u>CIA- The World Factbook</u>

# Geography

- General
  - Most of the country is positioned on deltas of large rivers flowing from the Himalayas
- Climate
  - tropical with mild winters, hot and humid summers, and warm and humid monsoon seasons (June-October)
- Terrain
  - generally flat plains with some hills in the Southeast
- Natural Resources
  - natural gas, arable land, timber, coal
- Land Use
  - arable land: 55.39%, permanent crops: 3.08%, other: 41.53% (2005)
- Total Renewable Water Resources: 1,210.6 cu km (1999)
- Natural Hazards
  - droughts; cyclones; most of the country is usually flooded during the summer monsoon season

# Land Area and Population

- Bangladesh's total area comprises nearly 143,998 square kilometers, with 130,168 consisting of land and 13,830 covering water.
- It is home to about 156,050,883 people according to a July 2009 estimate by the CIA World Factbook.





Shafigul Islam/WPN

# **Population Statistics**

Bangladesh's population growth rate in 2009 is 1.292%.
Within the growing population, roughly 35% encompasses ages 15 and under and 61% encompasses ages 15-64.

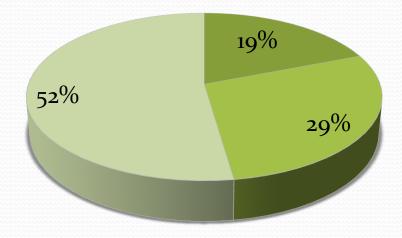
•The population is unevenly distributed between urban and rural areas within the country. Nearly 73% of the population is located in non-urban regions, as defined by the country.

•As a result of various reasons including climate change, the net migration rate for Bangladesh in 2009 is -2.53 migrants/1,000 population.

# Gross Domestic Product (GDP)

- Bangladesh's 2008 GDP was \$224 billion (in 2008 US dollars), up from \$201 billion in 2006.
- Its 2008 GDP Real Growth Rate was 4.9%, down 1.5% from 2006.
- The graph to the right illustrates a breakdown in GDP composition by sector.





# Industries Breakdown

### **Main Industries**

- Cotton textiles
- Jute
- Garments
- Tea processing
- Paper newsprint
- Cement
- Chemical fertilizer
- Light engineering
- Sugar

# Exports and Imports (2008 Estimates)

- Exports- \$13.97 billion
  - Commodities- garments, jute and jute goods, leather, frozen fish and seafood
  - Partners- US 21%, Germany 13.2%, UK 8.6%, France 6.3%, Netherlands 4.7%
- Imports- \$19.59 billion
  - Commodities-machinery and equipment, chemicals, iron and steel, textiles, foodstuffs, petroleum products, cement
  - Partners-China 14.7%, India 14.7%, Kuwait 7.5%, Singapore 7.1%, Japan 4.1%

# **Fossil Fuel Usage**

## Electricity, Natural Gas, and Oil (2007 estimates)

- Electricity
  - Production- 22.78 billion kWh
  - Consumption- 21.37 billion kWh (2006 esimate)
  - Import/Exports- o kWh
- Natural Gas
  - Production- 15.7 billion cu m
  - Consumption- 15.7 billion cu m
  - Import/Export- o cu m
  - Proved Reserves- 141.6 billion cu m (1 January 2008 estimate)
- Oil
  - Production- 6,746 bbl/day
  - Consumption- 89,940 bbl/day (2006 estimate)
  - Import- 83,220 bbl/day (2005) Export- 1,351 bbl/day (2005)
  - Proved Reserves- 28 million bbl (1 January 2008 estimate)

## Income, Education, and Technology

- Labor Force: 70.86 million
- Labor Force by Occupation: agriculture: 63%, industry: 11%, services: 26% (FY95/96)
- Household Income or Consumption By Percentage Share
  - lowest 10%: 4.3%
  - highest 10%: 26.6% (2005)
- Population below Poverty Line: 45% (2004 estimate)

- Literacy (defined by being of age 15 and over can read and write):
  - total population: 47.9%
  - male: 54%
  - female: 41.4% (2001 Census)
- School Life Expectancy:
  - 8 years (2004)
- Education Expenditures:
  - 2.7% of GDP (2005)
- Internet Users: 500,000 (2007)
- Cell Phone Users: 34.37 million (2007)

# **Current Environmental Issues**

- Loss of land is forcing many people to live on and cultivate flood-prone land
- Waterborne diseases in surface water
- Surface water run-off increases from melting ice flowing down rivers from the Himalayas
- Water pollution in general, especially of fishing areas, as a result of using commercial pesticides
- Ground water contaminated by naturally occurring arsenic
- Intermittent water shortages due to falling water tables in the northern and central parts of the country
- Soil degradation and erosion
- Deforestation
- Severe overpopulation

#### Bangladesh's Carbon Footprint Environmental Concerns for Bangladesh

9.8 global hectares per capita US 8.8 NZ 8.4 Finland 7.8 Canada 7.8 Australia 6.6 Denmark 6.5 Sweden 5.5 UK 5.2 Germany 5.1 France 4.3 Japan 2 Thailand 1.6 Egypt 1.6 China The Ecological Footprint is: 1.3 Philippines "The area of land needed to 1.1 Indonesia sustain the lifestyle of 0.8 India individuals in a country" 0.8 Ethiopia Bangladesh 0.5 WORLD 2.4

#### Figure 5

Ecological Footprint Of Bangladesh Compared to Other Countries Of the World and the World Average

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# Environmental Agreements and Kyoto Protocol Involvement

### **Agreements Party To:**

- Biodiversity
- Climate Change
- Kyoto Protocol
- Desertification
- Endangered Species
- Environmental Modification
- Hazardous Wastes
- Law of the Sea
- Ozone Layer Protection
- Ship Pollution
- Wetlands

### **Protocol Status:**

- Bangladesh signed and ratified the Kyoto Protocol in 2001.
- As a non-Annex I party, Bangladesh is not bound by specific targets for GHG emissions.
- At a recent conference entitled, "International Climate Change Architecture," held by Australia and supported by the US in Bangladesh during August 2008, Bangladesh expressed her wishes for a legally binding Copenhagen Protocol and the allocation of 1 trillion US dollars per annum to support climate change adaptation actions in least developed countries.