

BANGLADESH
First Biennial Update Report
to the UNFCCC

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### **National Circumstance**

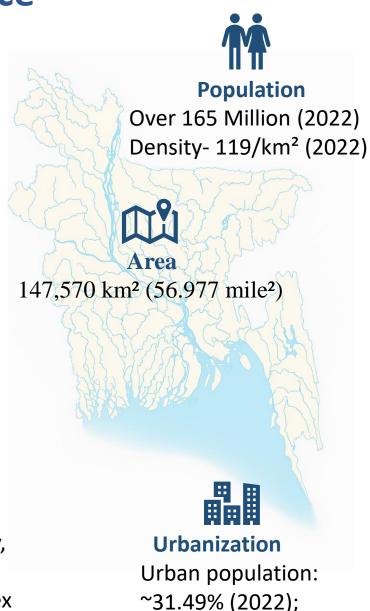


- Dominated by the Ganges— Brahmaputra—Meghna delta, the world's largest.
- The country has three main physiographic regions:
  - 1) Floodplains (80%);
  - 2) Uplifted regions;
  - 3) Hill regions



### **Key Climate Vulnerabilities**

- Floods, cyclones, sea level rise, salinity, drought, and others
- Ranked 7th in Global Climate Risk Index (CRI) 2021



# Climate

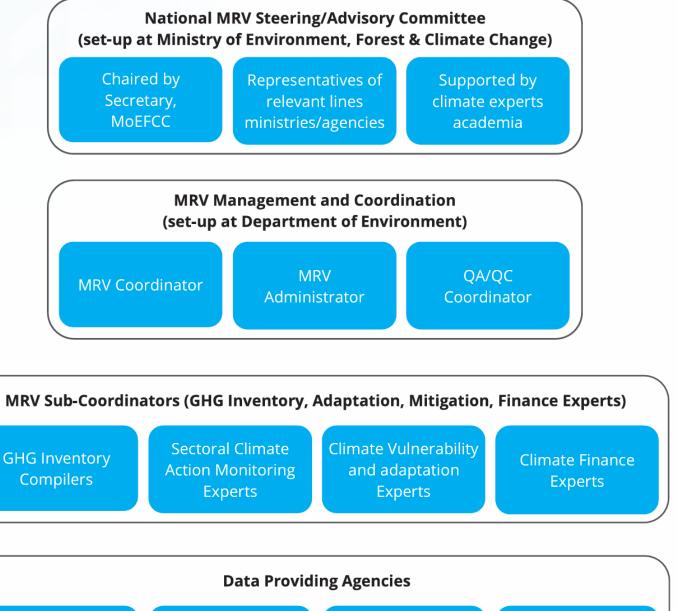
- Average temperature ranges between 15°C and 34°C, with a rising trend—0.53 °C from 2001–2010 and 1.06°C from 2011–2019
- Mean annual rainfall is ~2,243.91 mm, with 70% falling during monsoon.



- Developing market economy; 37th largest globally (nominal)
- Per capita GDP growth: 6.64% (2018–19),
  2.29% (2019–20), 5.88% (2020–21)

## **Institutional Arrangement**

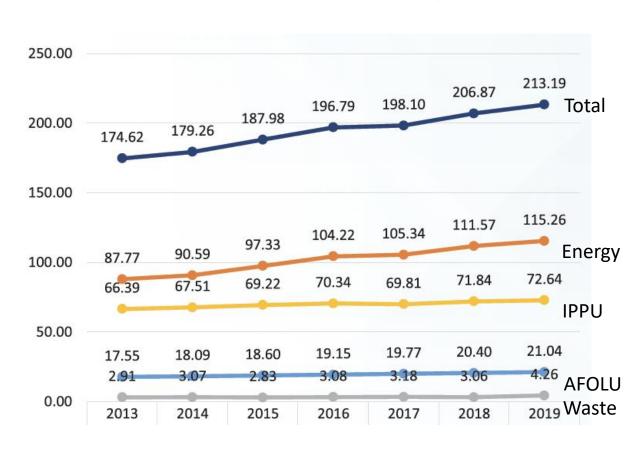
- National Focal
  Ministry: Ministry of
  Environment, Forest
  and Climate Change
  (MoEFCC)
- Technical Focal Agency: Department of Environment (DoE)





## National GHG Inventory (2013-2019)

- Sectors Covered: Energy, IPPU, AFOLU, Waste.
- Total Emissions (2019): 213.19 Mt CO₂eq 40% increase from 2012.
- Per Capita Emissions (2019): 1.29 tCO<sub>2</sub>eq
- Sectoral Emissions (2019):
  - Energy: 115.26 Mt CO₂eq (54.06%)
  - IPPU: 4.26 Mt CO₂eq (1.998%)
  - AFOLU: 72.64 Mt CO₂eq (34.07%)
  - Waste: 21.04 Mt CO₂eq (9.86%)
- Notable Improvements:
  - Inclusion of new sub-sectors: fugitive emissions, F-gases, steel, glass, lubricants.
  - Use of IPCC 2006 Guidelines
  - Country-specific emission factors for forestry.



## **Mitigation Actions**

### NDC Mitigation Targets (By 2030)

- Unconditional Target: 6.73% reduction (27.56 Mt CO₂eq)
- Conditional Target: Additional 15.12% (61.91 Mt CO₂eq)
- Total Reduction Target: 21.85% (89.47 Mt CO₂eq) from BAU scenario
- More than 95% of the emission reduction targets is from energy sectors.

### Energy Sector Actions

- Installed over 6 million solar home systems
- Established 10 solar parks, 28 solar mini-grids,
- 2829 solar irrigation pumps, 1885 net metering rooftop solar, 28 solar drinking water systems and 14 solar charging stations.
- Improved energy efficiency in industries (LEDs, motors)
- Introduced electric vehicles and efficient public transport
- Disseminated Improved Cookstoves (ICS)

### CDM Projects

- 21 CDM projects, achieved 18.99 MtCO2eq certified emission reductions in total
- 5 JCM projects, 0.024 MtCO2eq per year.

## **FTC Support Needs and Received**

Su	Support Needs (NDC)				
Mitigation Sector	Unconditional (Billion USD)	Conditional (Billion USD)			
Energy (RE, EE, Industry, Transport	30.88	137.49			
AFOLU	0.77	2.51			
Waste	0.61	3.76			
Total	32.26	143.73			

Support Needs (NAP)						
Sector	Billion USD					
Water Resources	120					
Urban Areas	39					
DRR	28					
Agriculture, Fisheries and Biodiversity	39					
Others	4					
Total	230					

## Support Received

	Name of the Fund	No. of Project	Amount of Fund (million USD)		
			Grant	Loan	Co-finance
	Green Climate Fund (GCF)	05	101.14	250.00	156.66
	Least Developed Countries Fund (LDCF)	07	34.41	-	187.94
	Adaptation Fund (AF)	01	9.99	-	-
	Global Environment Facility (GEF)	08	24.66	-	402.62

# Barriers, Challenges, and Needs Challenges

- Data & Institutional Gaps
  - Fragmented and inconsistent data across agencies, and data unavailability at the sub-sector level
  - Absence of official agreement between DoE and external data providers
- Financial Limitations
  - High investment costs for low-carbon tech
  - Limited access to international climate finance due to complex procedures and capacity constraints

### **Sector-Wise Needs**

- □ Energy
  - Scale up of REs and deployment of EVs
  - Industrial energy efficiency improvements
  - Investment in modern clean cooking solutions
- IPPU
  - Technology for Clinker substitution
  - Refrigerant management system

- ☐ AFOLU
  - Enhanced Forest monitoring
  - Climate-smart agriculture, organic fertilizers
  - Regular Carbon accounting for soil/LULC
- ☐ Waste
  - Integrated waste management resource recover
  - Waste-to-energy, biogas, composting

## **Transition to Enhanced Transparency Framework**

### Development of National MRV System

• A centralized MRV system has ben developed. It will support: (a) GHG inventory reporting; (b) Tracking NDC implementation; (c) Monitoring climate finance flows; (d) Institutional coordination and stakeholder engagement.

#### Institutional Mechanisms

- Hosted by the Department of Environment, Ministry of Environment, Forest and Climate Change
- Core Sectoral Working Groups (CSWG) to ensure technical accuracy and sectoral ownership.
- Coordination between ministries, divisions, and agencies has improved.

### Use of IPCC 2006 Guidelines and its Refinements 2019

GHG inventory preparation following updated international guidelines, compatibility with ETF standards.

### Capacity Building Initiatives

- Capacity-building Initiative for Transparency (CBIT) for institutional and technical capacity building to meet ETF requirements.
- Ongoing training and technical support for sectoral experts.
- Use of IPCC software and emissions factor guidance for accurate reporting.

### Integration of Finance and Adaptation Tracking

 Initiatives to capture adaptation progress and financial inputs from national budgets, development partners, and climate funds.

