

NDC Update and JCM Activities in Bangladesh

16 February 2021

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Presentation Outline

- Bangladesh INDC 2015
- NDC Implementation Roadmap
- NDC Update (interim), 2020
- NDC Update, 2021
- Clean Development Mechanism (CDM)
- Joint Crediting Mechanism (JCM)
- Institutional arrangements under Article 6 in Bangladesh

Bangladesh INDCs

- Bangladesh submitted the INDCs on 25 September 2015 to UNFCCC;
- Bangladesh considered 2012 as the Base Year;
- Bangladesh covered only Power, Industry and Transport sectors in our INDC.

Bangladesh INDC

Bangladesh prepared and submitted its INDC in September, 2015.

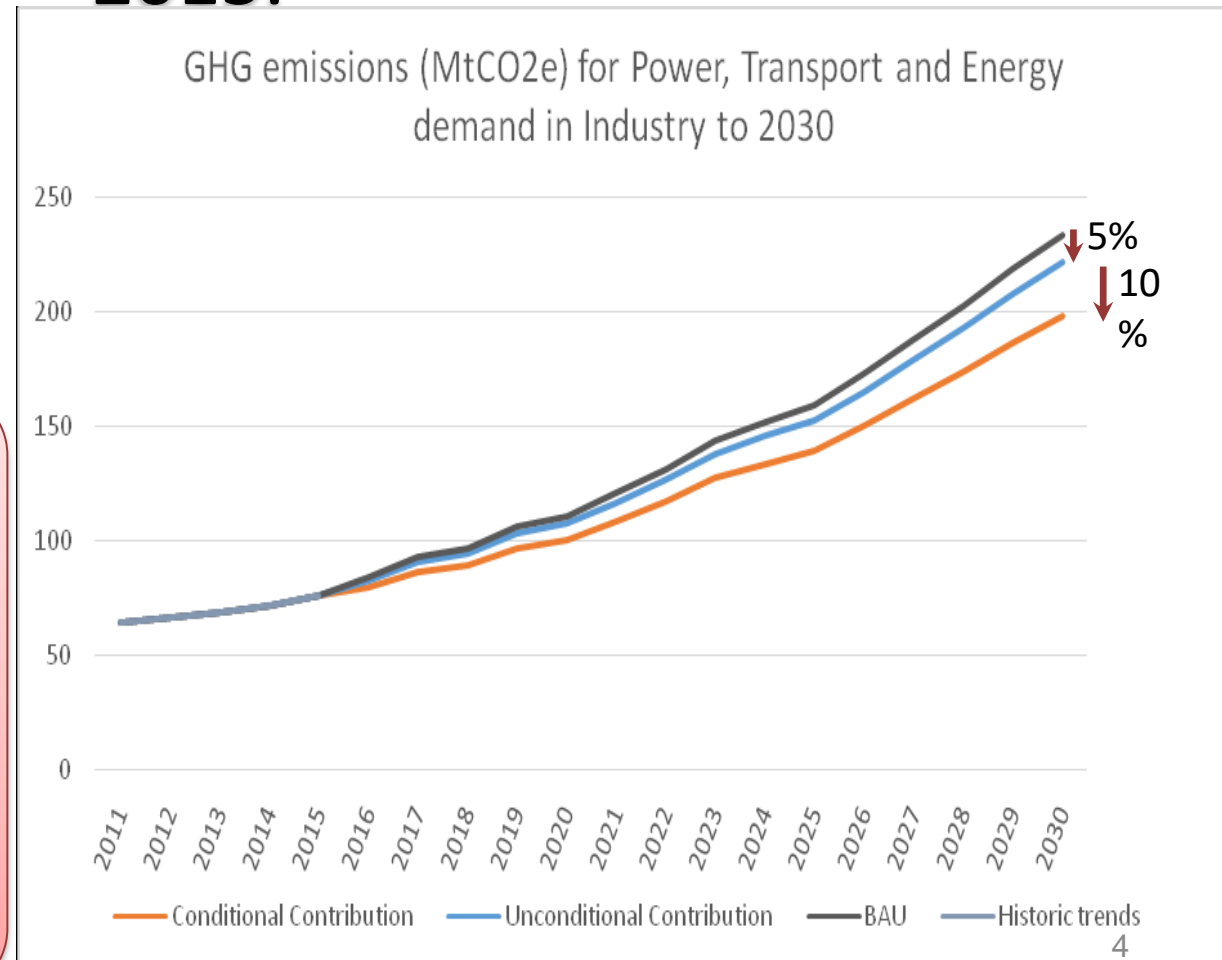
Unconditional Contribution
(assuming no additional international support)



Conditional Contribution
(assuming additional international support)

Bangladesh will reduce its GHG emissions in the power, transport, and industry sectors by 12 MtCO₂e or 5% for those sectors.

Bangladesh will reduce its GHG emissions in the power, transport, and industry sectors by additional 24 MtCO₂e or 10% for those sectors



NDC Implementation Roadmap, 2018

- Bangladesh has prepared NDC implementation roadmap
- The Roadmap also includes sectoral action plans for
 - Power;
 - Industry and
 - Transport

NDC (Interim) 2020: from vision to action

- Bangladesh submitted Updated NDC (Interim) on 31st December 2020 to UNFCCC;
- **Interim NDC of Bangladesh contains the following sections;**
 1. Introduction
 2. Recent Landmark Initiatives
 - Mujib Climate Prosperity Plan up to 2030
 - National Solar Energy Roadmap, 2021-2041
 - National Action Plan for Clean Cooking, 2020-2030 (being prepared)
 - Forest and Carbon Inventories

NDC (Interim) 2020 contd..

- Bangladesh National Action Plan (NAP) for Reducing Short Lived Climate Pollutants (SLCPs)
- Energy Efficiency and Conservation Master Plan up to 2030 (will promote energy savings)
- CDM/Carbon Trading
- Monitoring and Reducing Air Pollution
- Renewable Energy Initiatives
- Promoting Green Technology

NDC (Interim) 2020 contd..

3. Mitigation Action: Achievements

- Power Sector
- Transport Sector
- Industry Sector (Leed Certification for Green Building, switching to LED lamps, energy efficiency in industries)
- **Planned Action** (1700 MW from Large Scale Grid Connected Solar PV Projects and 250 MW from SHS by 2030)

NDC (Interim) 2020 contd..

4. Adaptation Action

- National Adaptation Plan (NAP)
- Bangladesh Climate Change Trust Fund (BCCTF)
- Delta Plan 2100
- Forest Investment Plan

5. An Enhanced NDC 2020

- Bangladesh is expected to submit an Updated NDC by June 2021 (with quantified emission reduction targets)

Status of Bangladesh NDC Update (2021)

- Stocktaking is on-going for the three sectors (Power, Industry and Transport)
- It is expected that Bangladesh will be able to submit an ambitious quantified emission reduction targets in our updated NDC by the middle of 2021.

Name	Sectors
Bangladesh INDC 2015	Power, Industry and Transport
Bangladesh Updated NDC 2021	AFOLU, Energy, IPPU and Waste

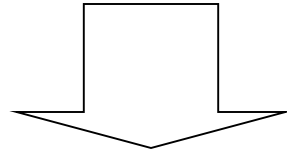
Clean Development Mechanism (CDM)

- Bangladesh established 2 tier Designated National Authority (DNA) in 2005
- So far 21 CDM Projects have been registered at CDM Executive Board
- CER issued 8.1 million till 2020
- Potential of CER generation by 2029-2030 from the existing registered projects are 118 million

Designated National Authority (DNA)

Structure of DNA

National CDM Board



National CDM Committee

DoE is the Secretariat of the DNA

Joint Crediting Mechanism (JCM)

- Ministry of Environment, Forest and climate change, Bangladesh and Ministry of the Environment, Japan signed the MoU to promote Joint Crediting Mechanism (JCM) on March 19, 2013.

Completed JCM Projects in Bangladesh

Project Names	Year	Project Participants		Energy Savings/ Carbon Credits
		Jap. side	Bangladesh side	
Energy Saving for Air Conditioning & Facility Cooling by High Efficiency Centrifugal Chiller in Sugar Mill	2015	Ebara Refrigeration Equipment & Systems	City Sugar Industries Ltd Rupganj, N.ganj	398.1 MWh/yr. 255 tCO2/yr.
Installation of High Efficiency Loom at Weaving Factory	2016	Toyota Tsusho Corp.	Hamid Fabrics Narshindi	2265 MWh/yr. 1518 tCO2/yr.

JCM Projects in Bangladesh

Project Names	Year	Project Participants		Energy Savings/ Carbon Credits
		Jap. side	Bangladesh side	
Introduction of PV-diesel Hybrid System at Fastening Manufacturing Plant	2016	YKK Corp.	YKK Bangladesh Ltd, Dhaka EPZ	498 MWh/yr. 265 tCO2/yr.
Installation of High Efficiency Centrifugal Chiller for Air Conditioning System in Clothing Tag Factory	2018	Ebara Refrigeration Equipment & Systems	Next Accessories Ltd., Vulta, Narayanganj	519 tCO2/yr.

First JCM Model Project: Energy Saving for Air Conditioning and Facility Cooling by High Efficiency Centrifugal Chiller – City Sugar Industries



Control Room



Cooling Tower



Installed Centrifugal Chiller

Ongoing JCM Projects in Bangladesh

Project Names	Year	Project Participants		Energy Savings/ Carbon Credits
		Jap. side	Bangladesh side	
Southwest Transmission Grid Expansion project	2018 - 2022	Tendering process in on-going	BPDB	23,053 tCO2/yr.

JCM Projects in the Pipeline

Serial	Project	Location	Executing Organization
1.	10 MW Floating Solar Power Plant	Mahamaya Lake, Mirsarai, Chattogram	Mission Asia Power Ltd.
2.	10 MW Solar Power Plant	Mymensingh	Australia Bangladesh Solar Power Ltd.
3.	25 MW Solar Power Plant	Ukhia, Cox's Bazaar	Australia Bangladesh Solar Power Ltd.
4.	1.5 MW Rooftop Solar Power Plant	Dhamrai	Odyssey Crafts Ltd.

Institutional Arrangement for Article 6 initiatives in Bangladesh

- Department of Environment, Ministry of Environment, Forest and Climate Change is working with World Bank to establish an institutional arrangement for Article 6 in Bangladesh.

THANK YOU.