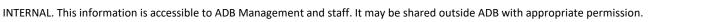


ASIA CLEAN ENERGY FORUM 2023 Navigating toward a Carbon-Neutral Future through Clean Energy Solutions

13–16 June









ASIA CLEAN ENERGY FORUM 2023

Deep Dive Workshop No Transmission – No Transition! 21st Century T&D Systems for Net Zero 15 June

ADB's Climate Financing on HTLS – Bangladesh and Nepal

ADB

Lei Zhang

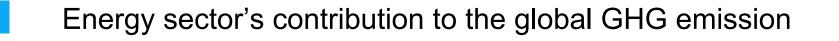
Head of PAU, EASI

Asian Development Bank

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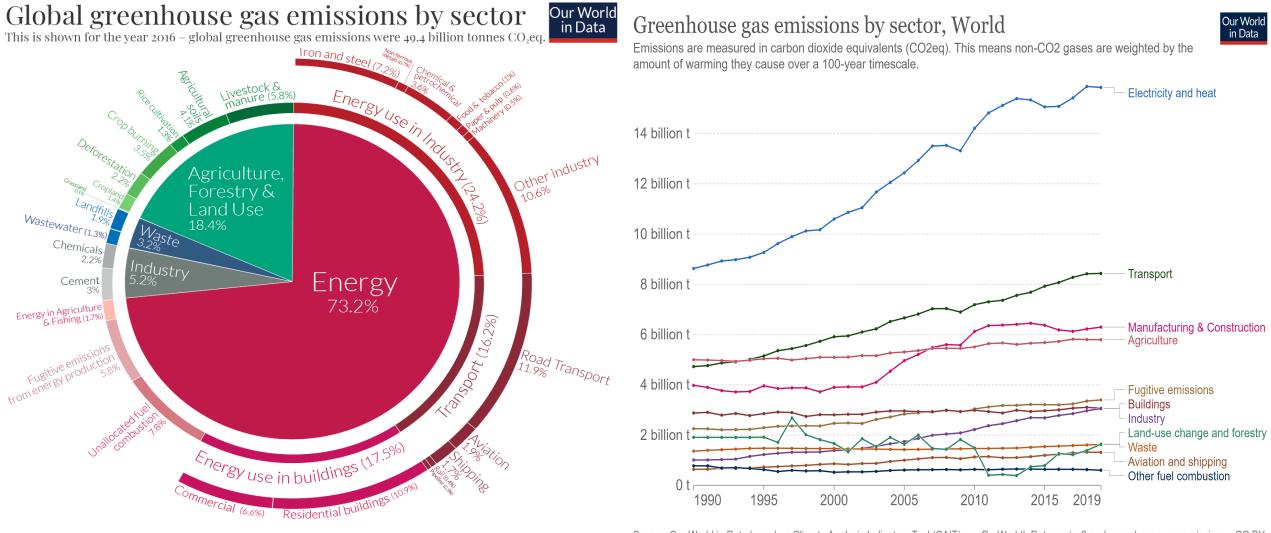
ADB's climate financing in energy sector





Video of Boosting Transmission Grid Efficiency with Advanced Conductors and Drones

Energy Sector- Major Contributor of Global GHG Emissions



OurWorldinData.org – Research and data to make progress against the world's largest problems. Source: Climate Watch, the World Resources Institute (2020). Licensed

Licensed under CC-BY by the author Hannah Ritchie (2020).

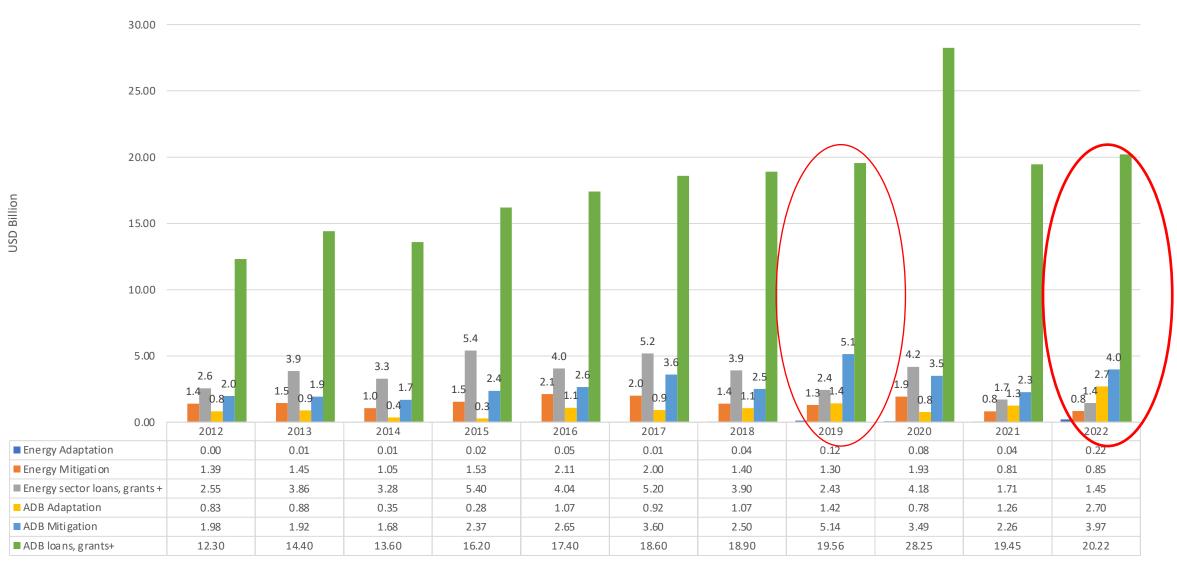
Source: Our World in Data based on Climate Analysis Indicators Tool (CAIT). OurWorldInData.org/co2-and-greenhouse-gas-emissions • CC BY

Key Energy Opportunities in Asia and the Pacific

Energy Landscape	Global Commitments	ADB's Commitment
Profound changes in Asia and the Pacific:	Global commitments to universal access and climate action:	ADB is the Asia and the Pacific Climate Bank:
 Falling cost of renewable energy vs. conventional energy Emerging new and innovative 	 Sustainable Development Goal 7: Universal Energy Access by 2030 	 \$100 billion of cumulative climate finance from 2019 to 2030 from our own resources
low-carbon energy technologies	 Paris Agreement: Nationally Determined Contributions (NDCs) 	 At least 75% of our operations support climate action for the period 2019 to 2030

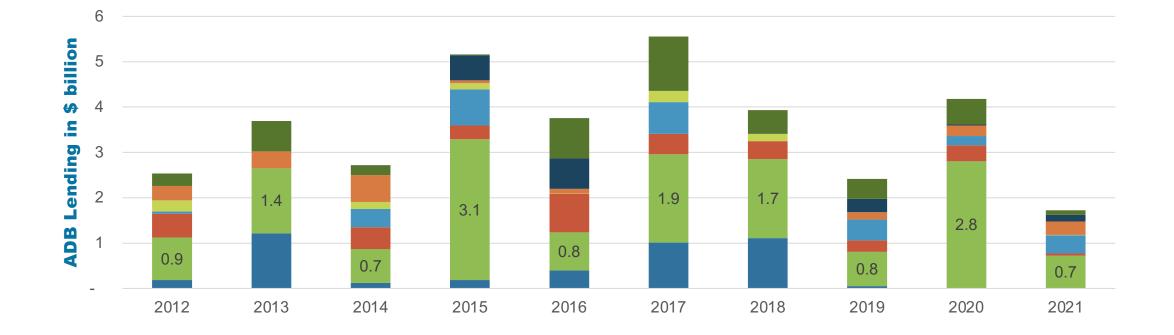
- Prioritizes energy efficiency, renewable energy, energy storage, decarbonization and electricity transmission and distribution expansion and upgrade
- Promotes use of smart, digital, innovative and best available technologies

ADB Climate Financing- Energy Sector Lending- Energy Sector Climate Financing (2012-2022)



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ADB Energy Sector Lending by Subsector (2012-2021)



Conventional Energy Generation

- Energy Sector Development and Institutional Reform
- Oil and Gas Transmission and Distribution

Electricity Transmission and Distribution

- Energy Utility Services
- Renewable Energy

- Energy Efficiency and Conservation
- Large Hydropower Generation

Climate finance on T&D system

Eligible mitigation activities in T&D systems



Installing RE dedicated T & D System



Installing smart grid system



Installing advanced metering infrastructure (AMI)

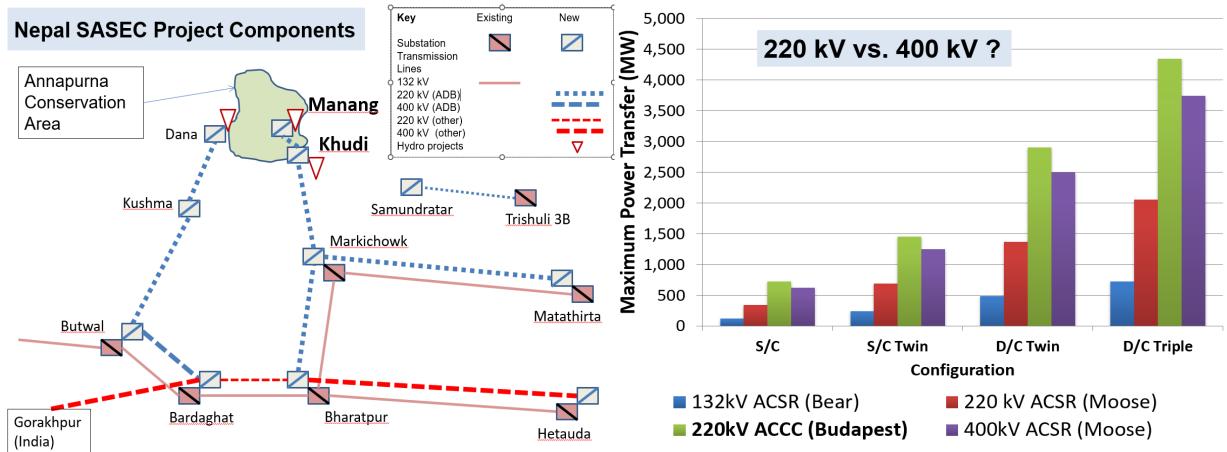


Installing flexible AC transmission system (FACTS) devices as static VAR compensator, capacitor banks



Installing high voltage direct current (HVDC), and HTLS systems

Loan 3139 (SF) / Grant 0397/0398 - NEP: South Asia Subregional Economic Cooperation Power System Expansion Project

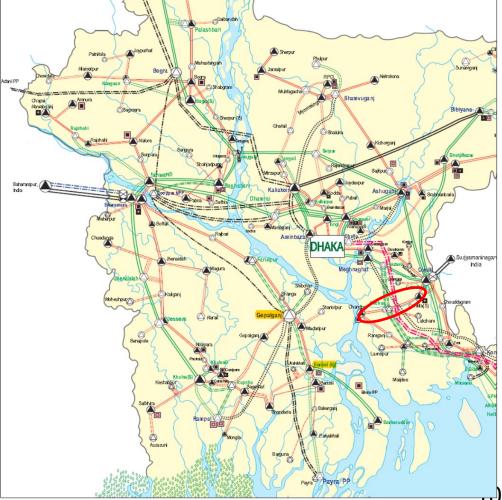


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Loan 3350-Bangladesh: Power System Expansion and Efficiency Improvement Investment Program - Tranche 3

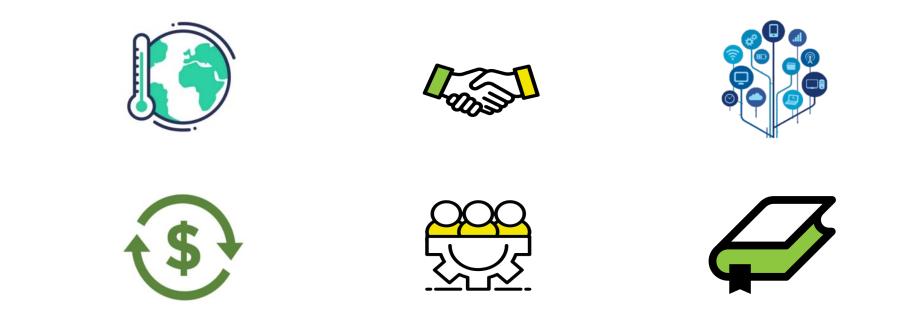
Approved in 2015.

HTLS Component Loan 3350: 65km Reconducting 132 kV double circuits transmission line between Comilla (South)-Chandpur substations



ADB's Value Addition





Video of Boosting Transmission Grid Efficiency with Advanced Conductors and Drones



Bangladesh: Dhaka and Western Zone Transmission Grid Expansion Project <u>https://youtu.be/asf912mcCcA</u>



