



Opportunities in South Asia

9 December 2020

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Bangladesh

Ongoing Projects

- Covers all three subsectors**
 - Generation,
 - transmission and
 - Distribution
- Covers renewable energy sector**
 - Solar water pumping

Future Interventions

- Bangladesh Renewable Energy Project: \$100-\$150 million (2021)**
 - Support pilot floating solar PV projects of 20-30 MW at multiple locations in total
 - Upgrading power evacuation infrastructure
 - Support implementing the Roadmap
- Energy Efficiency Project \$150 million (2021)**
 - Financial intermediation project
 - Industrial energy efficiency improvements

Bhutan – Energy Sector

Key Areas:

- Hydropower and other renewable power generation
- Enhanced energy efficiency, transmission, and distribution
- Increased cross-border power trade and domestic electricity access

Pipeline for 2021 -2023:

- Renewable Energy for Climate Resilience Project US \$55 million (2021)
- Hydropower Rehabilitation Project US \$12 million (2023)

Several Large Hydro feasibility studies are being prepared by Bhutan's government (e.g. Nyeri Amari HPP 442 MW)

India

Ongoing Projects

Covers

- Generation
 - Conventional and renewable energy
- transmission and Distribution
- Energy Efficiency
 - Smart meters
 - LED lighting etc

Future Interventions (\$500m-\$1b annually)

Mostly focused on

- Distribution rehabilitation/improvement
- Transmission
 - State level and RE evacuation in particular
- Energy Efficiency
- Distributed solar
- Electric vehicles

Maldives

Ongoing Projects

❑ Preparing Outer Islands for Sustainable Energy Development (POISED)

- Solar Photovoltaic – Battery – EE Diesel hybrid systems
 - energy management system ,
 - grid upgrades and SCADA systems
 - cover 160 Outer islands
- Completed installation in 70 Islands and achieved Diesel savings up to 30%
- Prepared a Roadmap for Maldives energy sector

❑ POISED – Additional financing

- Expanding POISED interventions
- Solar powered ferries and solar ice making plants

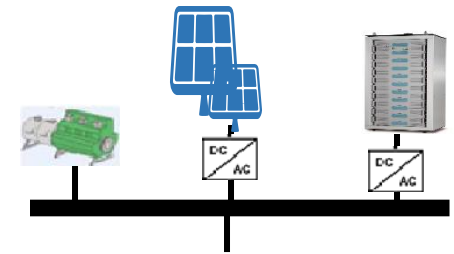
Future Interventions

❑ Accelerating Renewable Penetration through Private Sector (2021 or 2022)

- Supporting Battery Energy Storage and providing transaction advisory

❑ Small scale LNG for Greater Male Region(2022 or 23)

- Supporting fuel diversification and introducing cleaner source in Male region (large scale deployment of low-cost renewables is constrained by space)



POISED - Investment

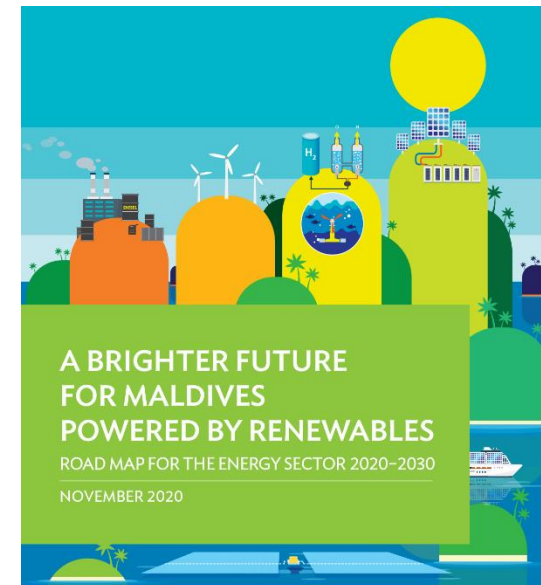
ADB GRANT : USD 50 m

JFJCM GRANT : USD 5 m

EIB Loan : USD 50 m

Government : USD 14 m

Total : USD 119 million



NEPAL

□ Main Focus

- Developing Storage type hydropower
- Expansion and augmentation of transmission and distribution infrastructure
- Support in up taking smart grid technologies
 - smart metering, advance control & monitoring system,
 - electric charging station etc.
- Energy Sector Reform and Capacity Development of Executing Agencies

Years	Major Projects
2021	<p>Electricity Grid Modernization Project</p> <ul style="list-style-type: none"> • Expansion and augmentation of transmission line and associated substation (\$50 Million) • Distribution system expansion and augmentation (\$20 million) <p>SASEC Power Transmission and Distribution System Strengthening Project</p> <ul style="list-style-type: none"> • Expansion and augmentation of transmission line and associated substation (\$44 Million) • Smart Metering Project (\$35.7 Million)
2022	<p>Dudh-Koshi Hydropower Project (\$2.2 Billion)</p> <ul style="list-style-type: none"> • Headworks Construction, Electromechanical & Hydromechanical Supply and Installation, Transmission Line Construction
2023	<p>Butwal- Lamahi 400 kV Transmission line (\$200 Million)</p> <ul style="list-style-type: none"> • Transmission line expansion and associated substation construction

Sri Lanka

Ongoing Projects

Green Power
Development and Energy
Efficiency Improvement
Investment Program -
Tranche 1 and Tranche-2



- Hydro generation
- Transmission and Distribution

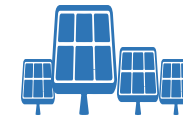


Mannar Wind Power
Generation Project
(100MW)



- Development of large-scale wind farm

Rooftop Solar
Generation Project



- Supporting Distributed Generation

Supporting Electricity
Supply Reliability
Improvement Project

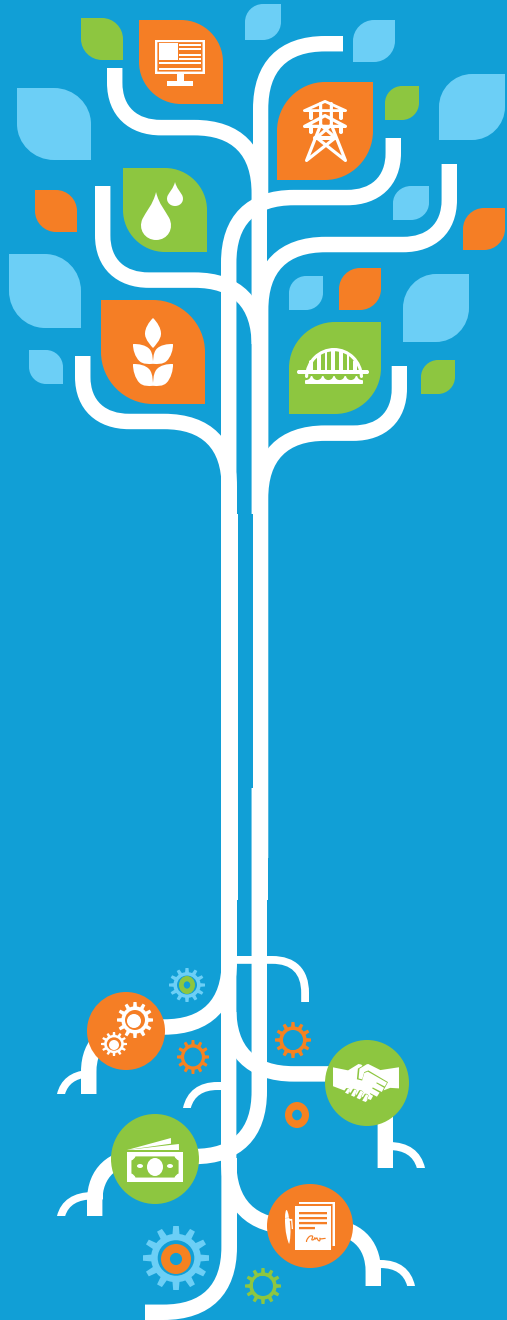


- Distribution Strengthening
- Renewable Microgrid pilots in islands

Future Interventions

- ❑ **Power System Reliability Strengthening Project (2021)**
(Protection improvement , expanding transmission and climate resilient distribution)
- ❑ **Wind Power Generation Capacity Expansion (2021)**
(Additional 20MW using loan savings) and support in second phase for private sector
- ❑ **Power System Reliability Strengthening Project (2022) – Phase 2**
- ❑ **Other Ongoing supports to facilitate Renewable Penetration & Private Sector**
 - Feasibility study for Simbalanduwa renewable park
 - Environment and social impact assessment for Pooneryn renewable park
 - Pump Hydro-storage feasibility studies
 - Utility Scale Battery storage

* There are other transmission & distribution projects being identified, yet to be included in pipeline



THANK YOU!

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