

CONTRIBUTION TO THE ADB RESULTS FRAMEWORK

No.	Results Framework Indicators	Targets	Methods Used
1	Installed energy generation capacity (MW equiv.)	0 MW	The project does not include construction of power generation plants.
2	Transmission lines installed or upgraded (km)	1,365 km	Measured on construction of 800 kV HVDC transmission system installed.
3	Distribution lines installed or upgraded (km)	0 km	The project does not include construction of distribution lines.
4	New households connected to electricity (number)	0 households	While the project support additional bulk supply to the urban and rural areas, the project will not directly contribute to household electrification.
5	Greenhouse Gas Emission Reduction (tCO ₂ -equiv/yr)	536,000 ton CO ₂ -equiv/yr ^a	Counted from transmission loss saving of 3% due to the project which is more energy efficient than alternative approaches.

^a The carbon dioxide (CO₂) emission reduction was calculated as loss reduction resulting from comparison between the proposed high voltage direct current (HVDC) transmission and the conventional alternating current (AC) transmission lines. Reduction of CO₂ emission was calculated on products of the following factors: (i) 3% loss reduction, (ii) 3,000 MW capacity of the HVDC transmission system, (iii) 8,760 hours, (iv) 92% availability factor of HVDC, (v) 739.73 ton CO₂/GWh baseline of CO₂ reduction on the Northern grid of India.

AC = alternating current, HVDC = high voltage current direct, km = kilometer, kV = kilovolt, MW = megawatt, ton CO₂-equiv/yr = tons of carbon dioxide equivalent per year.

Source: Asian Development Bank.