

 Early Warning System

ADB-57003-001

Sri Lanka : Artificial Intelligence-Powered Microgrids to Enable a
Futuristic and Reliable Distributed Renewable Energy System



Quick Facts

Countries	Sri Lanka
Financial Institutions	Asian Development Bank (ADB)
Status	Approved
Bank Risk Rating	U
Voting Date	2023-11-23
Borrower	Government of Sri Lanka
Sectors	Energy
Investment Type(s)	Advisory Services, Grant
Investment Amount (USD)	\$ 1.00 million
Grant Amount (USD)	\$ 1.00 million
Project Cost (USD)	\$ 1.00 million



Project Description

As stated by the ADB, this knowledge and support technical assistance (TA) aim to develop an artificial intelligence (AI) framework for microgrids that will pave the way for seamless integration of distributed renewable energy (DRE) systems in the distribution network and implement a pilot project that will demonstrate the working model of an AI-enabled microgrid and its benefits to the consumers and power system. Integration of AI in power grid works by utilizing large amounts of data to identify correlations and patterns to devise conclusions which will assist in detecting anomalies and predict the occurrences of such events in advance. Thus, this proposal will provide a framework for application of AI which will enable the integration of more DREs in the grid without compromising grid stability, while improving social inclusiveness in the energy sector through direct consumer participation. This TA will showcase the impact of AI powered grid management systems in Sri Lankan power sector, which has the potential to attract possible private investments in the DRE and AI power management sector. The government of Sri Lanka requested TA support for capacity development and knowledge transfer from Asian Development Bank (ADB) on 27 June 2022.



Investment Description

- Asian Development Bank (ADB)

According to the ADB, the funds for the project will be provided by the Clean Energy Fund under the Clean Energy Financing Partnership Facility.



Contact Information

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Bank Documents

- [Technical Assistance Report](#)