

## Energy storage research and development dhaka

To evaluate potential uncertainties and risks intrinsic to the integration of renewable energy in Dhaka, while delineating strategies to mitigate these challenges.

In elucidating these dimensions, this research aspires to illuminate a path toward sustainable, resilient, and accessible energy provisioning for Dhaka and beyond.

This study employed a rigorous qualitative research design to dissect the potential of renewable energy as a feasible alternative power solution for Dhaka city. By engaging a diverse range of stakeholders and meticulously abiding by ethical guidelines, the study endeavors to furnish a comprehensive understanding of the opportunities and challenges presented by renewable energy integration in this urban landscape.

The aim of this study was to explore the potential of renewable energy as an alternative source of power in Dhaka city, identify the challenges and opportunities associated with the adoption of renewable energy, and propose strategies for risk management and mitigation. A total of 40 participants from various backgrounds participated in the study, providing qualitative responses to a questionnaire.

**4.7 Importance of diversifying energy mix and shifting towards renewable energy sources:** The majority of participants believed that it was important for Bangladesh to diversify its energy mix and shift towards renewable energy sources. The main reasons cited were environmental benefits, reduced dependence on fossil fuels, and energy security. One participant stated, “We need to reduce our dependence on fossil fuels, which are not only harmful to the environment but also contribute to the power crisis.”

**4.8 Role of government in promoting the adoption of renewable energy sources:** Participants believed that the government could play a significant role in promoting the adoption of renewable energy sources in Dhaka city. The most commonly suggested measures were the establishment of favorable policies and regulations, incentives for renewable energy adoption, and the allocation of funds for renewable energy projects. Participants also emphasized the need for the government to prioritize renewable energy in its energy policy.

**4.9 Contribution of private sector and civil society organizations:** Participants believed that the private sector and civil society organizations could play a significant role in promoting the adoption of renewable energy sources in Dhaka city. The most commonly suggested measures were the establishment of partnerships between the private sector and government, public awareness campaigns, and the provision of financing for renewable energy projects.

“All participants, or their legal guardians in the case of minors or incapacitated individuals, provided informed consent to participate in the study and/or have their data published. The study adheres to all relevant

ethical considerations, ensuring the privacy, rights, and well-being of the participants.&quot;

Building on past and ongoing work in Bangladesh, USAID and NREL launched a project titled Reinforcing Advanced Energy Systems in May 2021 to provide unique, world-class technical support for scaling up and deploying advanced energy systems and support Bangladesh's transition to a sustainable, secure, and market-driven energy future.

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