

**RESEARCH GRANT OPPORTUNITY
FOR
ENERGY STORAGE APPLIED
RESEARCH PROJECTS**

Program Solicitation: EPRC/58-2023-013

<http://researchgrant.eprc.gov.bd/>

Bangladesh Energy and Power Research Council

Power Division

June 2023

PROGRAM REQUIREMENTS

Program Title:

Research Grant Opportunity for Energy Storage Applied Research Projects

Synopsis of Program:

The purpose of this solicitation is to fund applied research projects that develop technologies, tools, and strategies to reduce technological and economic barriers for upgrading, repowering, and expanding energy storage devices for contribution to the national electricity mix. Specifically, funded projects under this grant solicitation will develop and upgrade technologies, strategies, and tools to maximize the use of renewable energy resources in Bangladesh through efficient use of energy storage devices. Renewable energy is intermittent in nature. Energy storage devices can play a vital role in stabilizing the grid in the case of fluctuation of voltage and frequency. Energy storage is an important tool to help integrate increasing amounts of solar and wind electricity generation into the grid. It can interconnect at the transmission system, the distribution system, or behind the customer meter. In short, it can help improve reliability and flexibility of power systems with large-scale integration of renewable energy.

Funded projects will help reduce emissions of greenhouse gases, reduce demand for peak electrical generation, defer or substitute for an investment in generation, transmission, or distribution, improve the reliable operation of the electrical transmission or distribution grid. These projects will develop technologies which can be replicated at different locations in Bangladesh and will increase economic competitiveness of energy storage and cost-effectiveness of investments.

Research Focus Areas:

Proposers submitting applied research proposals should address one of the following key research topics of interest, but are not limited to:

- Pumped storage
- Thermal energy storage
- Electrochemical energy storage
- Flywheel energy storage
- Compressed air energy storage
- Cross-border Storage
- Positive use of off-peak power

Award Information:

The maximum funding amount and maximum duration for each project are listed below:

Program Solicitation	Maximum Project Duration	Maximum award amount Per Research Project
Energy Storage	3 Years	BDT 4,00,00,000

BEPRC reserves the right to:

- Increase or decrease the duration and maximum award amount mentioned above.

Key Activities Schedule:

Key activities, dates and times for this solicitation and agreements resulting from this solicitation are presented below. An addendum will be released for any kind of amendment:

ACTIVITY	DATE
Solicitation Release	June 7, 2023
Deadline to Submit Applications	No hard deadline
Anticipated Notice of Award (NOA) Posting Date	One month after Govt. approval
Anticipated Grant Agreement Start Date	15 days after receiving NOA

Eligibility Information:

Who May Submit Proposals:

The categories of proposers eligible to submit proposals to BEPRC are described in the *BEPRC Grants Proposal Innovation Guideline*.

Limit on Number of Proposals per Organization:

There are no restrictions or limits.

Limit on Number of Proposals per PI or Co-PI: 1

An individual may be listed as PI, co-PI, and/or senior personnel in a single proposal under this solicitation area. Listing of an individual in multiple proposals under the same solicitation area and/or ongoing BEPRC funded projects will result in rejection of the proposal.

Proposal Preparation and Submission Instruction:

Full Proposal:

- Proposer must submit full proposal via BEPRC's online portal: (<http://researchgrant.eprc.gov.bd>)
- *BEPRC Grants Proposal Innovation Guideline* will be applicable. The complete text of the mentioned guideline is available at: (<http://researchgrant.eprc.gov.bd>)

Collaborative Proposal:

- Proposers from two or more organizations may collaborate on a unified research project and submit the applied research projects under this solicitation. The PI must be a residential Bangladeshi.

Engaging Industry:

- Industrial engagement in cash or kind is highly encouraged for applied research projects submitted under this solicitation.

Proposal Evaluation and Award Information:

BEPRC Grants Proposal Innovation Guideline applies. The complete text of the mentioned guideline is available at: (<http://researchgrant.eprc.gov.bd>)

Inquiries:

Following officials may be contacted in case of any query:

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