

Science and Engineering Research Board (SERB)

Intensification of Research in High Priority Areas: Call for proposals

SERB Centre for Energy Transformation and Storage

Introduction : Intensification of Research in High Priority Areas (IRPHA) has contributed significantly to augment general R&D capabilities in academic institutions and national laboratories by setting up of Core Groups, Centres of Excellence and National Facilities in frontline and emerging fields of science & engineering. It has been very effective in order to support proposals with disruptive scientific ideas to establish strong S&T foundations for our country and at the international scientific landscape.

Clean energy is the bedrock of any society hoping to offer healthier, resilient and sustainable environment to its citizens. Desired reduction in the use of fossil fuels and emissions requires us to unlock research and innovation in various segments of energy transformation to upscale economic transitions and propel national growth. Thus, we must explore long-term solutions for sourcing sustainable energy by developing indigenous technologies in this area. We must strive to integrate new opportunities in smart energy transformation, storage and management to offset our dependence on conventional energy, provide stable power to off-grid areas, and support the EV revolution. In this context, SERB solicits proposals for:

SERB Centre for Energy Transformation and Storage

Three specific areas of interest for the proposed Centres are listed as under:

- Electrochemical energy storage systems for micro-grid installations
- Technologies for utility-scale high-capacity batteries
- Transparent photovoltaics for devices and surface integration

Eligibility conditions :

- Application for such centres should also ensure (added) funding from non-SERB sources such as industry, institution, etc.

- In addition to the proposal in required format, the following should be provided as supporting documents:
 - How is the proposal aligned with the energy road map of the country? A one-page brief to be provided.
 - One-page action plan should be enclosed describing sustainability of the proposed Centre beyond the tenure of the project (5 years).
- Proposals should be submitted in the prescribed IRPHA format through SERB online portal: www.serbonline.in.
- Other eligibility conditions as applicable to CRG projects are to be followed.
- PI should not have any ongoing IRPHA/SUPRA project from SERB.
- Last date of submission is June 9, 2021.

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