

15 July 2024

Environmental Sustainability Group

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CIRCULAR TO PROFESSIONAL INSTITUTES/ASSOCIATIONS

Dear Sir/Madam

GBIC 2.0 RESEARCH & INNOVATION CHALLENGE CALL FOR DECARBONISATION

Background

The Green Buildings Innovation Cluster (GBIC) Programme ([Green Buildings Innovation Cluster \(GBIC\) Programme | Building and Construction Authority \(BCA\)](#)), is an integrated research, development and demonstration (RD&D) hub set up under the Urban Solutions and Sustainability domain administered by the Building and Construction Authority (BCA). To further push the boundaries of energy efficiency in buildings, the National Research Foundation, Singapore (NRF) has allocated an additional \$45 million to BCA to enhance the GBIC programme (GBIC 2.0) in 2022 to support the research, prototyping and demonstration of green building technologies.

Objective

2. Under the Singapore Green Building Masterplan (SGBMP), BCA will work with stakeholders to deliver three outcomes; (a) green 80% of Singapore's buildings (by gross floor area) by 2030, (b) 80% of new developments to be Super Low Energy (SLE) buildings from 2030 and (c) for best-in-class buildings to achieve 80% improvement in energy efficiency over 2005 levels by 2030. This will require building owners and project teams to look at innovations and various ways to push the boundaries and improve the buildings' energy efficiency.

Scope of Challenge Call

3. This call aims to reach out to local and global technology firms, Singapore-based Institutes of Higher Learning (IHLs) and local research institutes (RIs) with the relevant

technology or innovative solutions to accelerate SGBMP's 80% energy efficiency improvement target and beyond.

4. This call provides opportunities for the technology providers/researchers to collaborate with building owners/developers to co-create innovative solutions to push energy efficiency boundary and achieve cost savings in the long run. Technology providers/researchers are encouraged to approach building owners/developers to better understand their challenges when preparing for the proposals. The solutions must be testbedded in buildings located in Singapore.

5. This Research & Innovation (R&I) Challenge Call covers two schemes (i.e. Research and Development (R&D) and Product Prototyping), depending on the Technology Readiness Level (TRL) of the proposed solutions and scope of the proposals.

6. For more information on the R&I Challenge Call, please refer to the following link: [Green Buildings Innovation Cluster \(GBIC\) Programme | Building and Construction Authority \(BCA\)](#).

Application

7. Interested applicants are required to submit proposals through the Integrated Grant Management System (IGMS) at <https://www.researchgrant.gov.sg> with the supporting documents by **13 September 2024, 2355 hour** (Singapore time).

Briefing

8. Interested parties are encouraged to attend the post-launch virtual briefing on 24 July 2024 (Wed), 2pm. Please register your attendance by 22 July 2024 via the link: <https://go.gov.sg/gbic-rni-challenge-call>. The meeting link will be sent to you once we have received your registration.

9. Should you have any enquiries, please email to the GBIC Secretariat at BCA_Challenge_Call@bca.gov.sg.

Yours faithfully



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