

Our Ref: BCA ID 94.16.1
Date: 13 September 2013

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Circular to Professional Institutes / Associations

Dear Sir / Madam,

ENERGY INNOVATION RESEARCH PROGRAMME (EIRP) GRANT CALL FOR BUILDING ENERGY EFFICIENCY

Background

1 BCA in partnership with the Energy Innovation Programme Office (EIPO) co-led by the Economic Development Board (EDB) and Energy Market Authority (EMA) has officially launched the first Building Energy Efficiency Grant Call under the Energy Innovation Research Programme (EIRP) on 12 September 2013.

Objective

2 This grant call seeks innovative technologies and solutions in the areas of **Air-Conditioning & Mechanical Ventilation (ACMV) and Building Management & Information Systems (BMIS)** that would result in significant improvement in energy efficiency. The novel technologies and solutions should address industry-relevant challenges for building retrofits in the tropics.

3 As this grant call is an industry centric research, projects led by a Principal Investigator (PI) from the Institute of Higher Learning (IHLs), research institutes, public sector agencies and non-profit organisations are strongly encouraged to have at least one industry partner.

Scope of Grant Call

4 Submitted proposals should address the following challenges:-

i. Improving Efficiency

Air conditioning & Mechanical Ventilation systems consume a significant amount of energy in buildings (ranging 40-60% for a typical air-conditioned building). Improving efficiency of air-conditioning system will help to reduce energy consumption significantly. The research challenge could look into developing novel solutions that suit the tropics, like separating dehumidification and cooling functions; improving equipment efficiency for small capacity air-conditioning units; and developing high efficient alternative cooling systems.

ii. Reducing Cost

High cost is one of the main barriers to greater adoption of emerging technologies. The research challenge would thus be reducing the cost of these high performance technologies and solutions of current values for wider adoption.

iii. System Integration

Current buildings are largely controlled by simple set-point control schemes and deal only with one subsystem at a time. The lack of coordination and integration at a system level hinders opportunities to minimize energy consumption and maximize human comfort. The research challenges could explore developing and integrating adaptive occupancy-based control of building services to optimise system performance and improve indoor environmental quality.

Funding Support

5 IHLs, research institutes, public sector agencies and non-profit organisations will qualify for up to 100% funding support of approved direct qualifying costs of a project. Private sector companies will qualify up to 70% of funding support of the approved direct qualifying costs of a project.

Application

6 Interested applicants are invited to submit their proposals via EIRP's RITA website at <https://rita.nrf.gov.sg/ewi/BuildingEE/default.aspx>. Submission of white paper is open until **28 October 2013, 2355 hrs Singapore time (GMT +08:00)**.

7 The proposals will be evaluated in two stages (i) White Paper stage; and (ii) Full Proposal stage.

8 The full details of the scheme can be found on EIRP's RITA website at <https://rita.nrf.gov.sg/ewi/BuildingEE/default.aspx>.

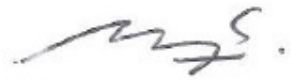
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Thank you.



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