GREEN BUILDINGS INNOVATION CLUSTER

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Green Buildings Innovation Cluster (GBIC) is supported by National Research Foundation (NRF) fund as a one-stop integrated Research, Development and Demonstration hub to **experiment**, **exhibit**, and **exchange** knowledge of promising building energy efficient solutions

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Launch of GBIC Repository Prototype

By 2017, the Building and Construction Authority (BCA) will introduce a Repository for technology companies in Singapore to share and promote their latest green building products. Named the National Green Building Energy Efficiency Repository ("Repository"), it will enable building owners, professionals, researchers and policy makers to browse, access, and even submit as well as share the available data of these products so that informed decisions and assessments can be made about them.

A web-based prototype is currently under development and will be available by the first half of 2017 for testing.

The Repository prototype URL is http://bca-web-uat.azurewebsites.net/Home/Index.

GBIC Competitive Research Programme Grant Call (CRP)

The Building and Construction Authority (BCA) has awarded S$8.4 million in grants to eight research projects that test sustainable building technology for the future that are designed for the tropics. Introduced in 2015, the Competitive Research Programme Grant Call (CRP) will foster closer collaborations between the research community, scientists and the industry that will support the BCA's efforts in achieving a greener, smarter and healthier built environment in Singapore.

Research teams of these projects will work with collaborators from the public and private sector including small and medium enterprises (SMEs). Under the BCA's Green Buildings Innovation Cluster, the Grant Call was introduced to encourage public private collaborations to develop smart, innovative and sustainable technologies for the built environment. It complements Singapore's

environment. It complements Singapore's Smart Nation initiatives and support the BCA's 3rd Green Building Masterplan.

More detail information about the eight awarded projects will be shared in the next issue of the e-Newsletter.

Opening of BCA SkyLab

The BCA SkyLab was official opened by Prime Minister Lee Hsien Loong on 20 July 2016. The BCA SkyLab is developed by BCA in collaboration with the Lawrence Berkeley National Laboratory in California, a world leader in science and engineering and building energy performance research. The facility boasts a 360-degree rotatable capability, full plug-and-play configurability and is fitted with extensive instrumentation and sensor networks scalable in future.

The 132 m^2 facility is equipped with a network of more than 200 sensors with high accuracy and granularity, across two identical cells for comparison testing. These sensors measure performance metrics such as energy performance, indoor environmental quality, outdoor environmental parameters and building automation system indicators.

Workshop on Positive Energy School (PES)

The workshop was held at the BCAA Academic Tower on the 31st August 2016. It was jointly organised by BCA, MOE and the Energy Research Institute at NTU (ERI@N). More than 50 participants from schools, industry, government agencies and academia were gathered to review and strategize technologies and solutions to achieve Positive Energy Schools.

The workshop forms part of the initiative to develop Positive Energy Schools through the generation of renewable energy while reducing energy consumption through implementing passive design, increasing energy efficiency and cultivating behavioural change without compromising the conducive environment for learning and teaching. The initiative aims to investigate technology barriers and to explore possible cost effective solutions to develop blueprints for the next generation of schools.