

**MEDIA RELEASE**

**BCA PARTNERS SCHOOLS AND INDUSTRY FIRMS TO NURTURE YOUNG ADVOCATES OF A GREEN BUILT ENVIRONMENT**

*– Strong support for green building initiatives by schools and industry*

**Singapore, 24 June 2016** – The younger generation and industry players have an important role to play in our fight against climate change. The Building and Construction Authority (BCA) sealed two new partnerships today with schools and industry firms to provide new platforms for more ground-up initiatives to take flight. Senior Minister of State for Home Affairs and National Development, Desmond Lee, witnessed the signing of the two partnership agreements at the launch of Build-it-Green (BiG) Day Out 2016 held at Toa Payoh Hub Atrium today.

2 Jointly organised by BCA and Singapore Green Building Council (SGBC), BiG Day Out is a three-day public outreach event aimed to raise awareness and interest on green buildings and sustainable living habits among families with children. For more details on BiG Day Out 2016, please visit <https://www.bca.gov.sg/bigdayout/>.

**BCA-Keppel Land Partnership**

3 The partnership between BCA and Keppel Land will pave the way for more self-initiated outreach projects by schools and the corporate sector in promoting sustainability in the built environment.

4 Mr Ang Wee Gee, CEO of Keppel Land, said, “Keppel Land believes in actively engaging our stakeholders in our sustainability journey. We are delighted to partner BCA to engage educational institutions and corporate organisations to promote greater awareness of the importance of a green built environment. With the adoption of thoughtful innovations and green building technologies, we strive to build a more sustainable future for generations to come.”

5 It will be a three-year campaign to facilitate the collaboration between schools and corporate organisations and provide funding support for the projects initiated by these school-corporate entities. Each project can receive funding of up to S\$30,000. More details about the BCA-Keppel Land Partnership can be found in Annex A.

### **Greenovate Programme**

6 BCA also signed a partnership agreement for the Greenovate Programme together with SGBC, Johnson Controls and Republic Polytechnic.

7 The Greenovate Programme empowers secondary school students to take charge of greening their schools. The programme has been further enhanced to include industry collaborations, test-bedding opportunities and involvement from polytechnic students to have a hand in energy audits.

8 “Through our collaboration with BCA, SGBC and Johnson Controls in the Greenovate Programme, students from the Diploma in Green Building Energy Management **can benefit from authentic, out-of-classroom learning that will complement the curriculum.** As part of their final-year project, they will work with secondary schools on energy efficiency audits as they prepare for Green Mark certification in the future. The invaluable experience will put them in good stead when they join the green building energy sector upon graduation,” said Dr Wang Jianguo, Director for School of Engineering, Republic Polytechnic.

9 "Marsiling Secondary School places strong emphasis on Environment Education. We believe that this programme will be beneficial to both the students and the school. The students will gain exposure to expert knowledge on green buildings in Singapore. This will also **give students greater ownership in auditing and recommending measures to promote sustainability in the school building. The school will also be able to benchmark our green efforts against recognised best practices,**" said a spokesperson from Marsiling Secondary School, one of the nine participating schools in the Greenovate Programme.

10 Under the Greenovate Programme, students will be guided closely by industry experts and there will also be opportunities for collaborations to test-bed innovative

green solutions. The entire programme will last over the course of one year. More details about the Greenovate Programme can be found in Annex B.

11 “We are glad to receive strong support from schools and private firms in our green building initiatives. It is also encouraging to see more industry partners like Keppel Land, Johnson Controls, and Singapore Green Building Council coming forward to partner us in our public outreach and student engagement programmes. The new partnership is a stepping stone for exciting and innovative ground-up initiatives from the community and we hope that it will spur more building users to take the lead in greening the built environment,” said Dr John Keung, CEO of BCA.

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Enclosed:

Annex A – Factsheet on BCA-Keppel Land Partnership

Annex B – Factsheet on Greenovate Programme

**About Building and Construction Authority**

The Building and Construction Authority (BCA) of Singapore champions the development of an excellent built environment for Singapore. BCA’s mission is to shape a safe, high quality, sustainable and friendly built environment, as these are four key elements where BCA has a significant influence. In doing so, it aims to differentiate Singapore’s built environment from those of other cities and contribute to a better quality of life for everyone in Singapore. Hence, its vision is to have "a future-ready built environment for Singapore". Together with its education arm, the BCA Academy, BCA works closely with its industry partners to develop skills and expertise that help shape a future-ready built environment for Singapore. For more information, visit [www.bca.gov.sg](http://www.bca.gov.sg).

## **ANNEX A - Factsheet on BCA-Keppel Land Partnership**

### **About the BCA-Keppel Land Partnership**

In June 2016, the Building and Construction Authority (BCA) signed a 3-year partnership agreement with Keppel Land for a joint effort to encourage ***schools and corporate organisations*** to work together and take the lead in championing the green building movement.

To this end, BCA and Keppel Land will embark on a public outreach campaign to facilitate school-corporate collaborations on outreach projects to promote environmental sustainability in the built environment.

### **Brief description of the campaign**

Through this campaign, BCA and Keppel Land will provide a platform for schools and corporate organisations to come together and collaborate on outreach projects for the future green built environment of Singapore.

A project sponsorship fund will be set up to allow partnership entities to tap on the fund to organise and spearhead outreach initiatives or projects. The disbursement of the funds will be governed by a set of pre-requisites and guidelines set out by the working committee, consisting of representatives from BCA and Keppel Land. BCA and Keppel Land have each committed \$225,000 to this fund.

Participation requirements:

- Any Singapore registered organisation or company can take part but they have to involve at least one other partner from the education sector
- The project must support the promotion of sustainability in the built environment for the benefit of Singapore (i.e. nation-wide benefit)
- The objective of the outreach projects must be to promote the demand and awareness of green efficient living spaces in Singapore.
- Although the partnership entity is free to propose outreach projects of any suitable nature, they should focus on the following 2 broad categories:
  - a. **Innovation Projects**

These are projects where the school corporate entity undertakes a project that showcases green innovations relating to the built environment. This can include exhibitions or roadshows.
  - b. **Lifestyle Projects**

These are projects where the partnership entity organises that directly promote or celebrate the benefits of an improved built environment made possible through sustainable-decisions and building technologies.

## **Examples of Innovation and Lifestyle Projects and Themes**

### Suitable Themes for Innovation and Lifestyle Projects

1. Smart and Green Homes / Towns
2. Energy Efficiencies
3. New Technologies
4. Green and Sustainability

### Examples of Innovation and Lifestyle Projects

#### **1. Projects → Competitions → Showcase → Outreach**

Projects involve challenges provided to Institutes of Higher Learning (IHLs) to carry out experiments leading to competitions. The objective of such projects is to showcase the process, results and impacts by the participants through collective efforts. Such showcase can be done through roving exhibitions, carnivals or pop-up stores to reach out to the target audience.

Examples of such projects include:

- Creating a smart home / town through various technologies and innovations – the objective is to provide a glimpse of the possibilities for future homes. A mock-up of the projects can be created and be showcased through an exhibition, educating the general public of the technology and innovations used.
- Energy-saving methods for homes and offices not commonly practiced by the general public – to educate and promote wider range of energy-saving methods so as to create a greener home and office.

#### **2. Partnership → Workshops → Action Days**

Partnerships can be forged through corporate organisations to reach out to the target market through workshops or seminars to impart valuable knowledge and information essential to a green built environment. Action days would then be created to emphasize the efforts and instil the concept to the end-users.

Examples of such workshops include:

- Partnership with Energy Services Company (ESCO) in promotion of energy efficiencies for homes and offices
- Partnership with NGOs
  - Energy Carta, to promote sustainable development and environment, targeting at the youth and industry
  - Environmental Challenge Organisation (ECO Singapore), with the focus on reaching the community and schools on an environmental issue
  - Singapore Environment Council, to develop awareness, knowledge, skills and tools in order to protect and improve our environment for a sustainable future
  - Singapore Green Building Council, to raise awareness of green buildings in Singapore to non-industry users

### **3. Test-bedding → Showcase → Documentary/Journalistic Platforms/ Exhibitions**

Test-bedding can be carried out through partnership with IHLs and corporate organisations which could provide essential prototypes. Processes will be recorded for future showcasing purposes. Upon completion, the records can be used to showcase in a documentary or journalistic form whereby the target market will get to understand the processes.

A mock-up of the test bedding prototype can also be created to be displayed for the target market so that they can view and experience the innovation project.

Examples of such test-bedding include:

- New technologies for schools or offices, such as the latest generation of photovoltaics
- Zero energy classrooms or offices
- Experimental green technologies

## **ANNEX B - Factsheet on Greenovate Programme**

### **Background**

The Building and Construction Authority (BCA) organised the Greenovate Challenge competition back in 2013 with the aim of engaging secondary school students in greening their schools. The objectives were to generate students' interest and nurture them to become green building advocates, as well as help schools embark on their green building journeys.

### Enhancement to the Programme

Since 2016, the competition has been enhanced into an educational programme to better engage the schools as well as enable more sustained partnerships. The emphasis is on the industry collaborations and test bedding opportunities, but the ultimate objective is for students to play a part in greening their schools.

### **About the Greenovate Programme**

Details:

- Secondary schools undergo an energy audit by the ESCO, but with involvement of tertiary students.
- The resulting energy audit report will be provided to the secondary schools for them to identify their gaps, where the secondary school students are to propose an action plan to green their schools.
- BCA is providing capacity building for the secondary school students through a set of educational materials as well as explore opportunities for secondary schools to receive industry sponsorship and collaborations on test-bedding projects.
- As both secondary school and tertiary students would be involved in the process and learning about green buildings, it will also interest them in aspiring to become green building professionals in future.

### **Participation**

BCA will be managing the Greenovate Programme together with the following partners:

- Johnson Controls (JC)  
They are the Energy Service Company (ESCO) on board to lead the energy audits as well as train and mentor the Republic Polytechnic students who are assisting in the audit. They would also be assisting the participating schools in the Green Mark certification.
- Republic Polytechnic (RP)  
The Republic Polytechnic's School of Engineering has students under their Green Building Energy Management Diploma who will assist in the energy audits of the secondary schools as part of their Final Year Project (FYP).
- Singapore Green Building Council (SGBC)  
BCA will be able to make use of the educational materials under the Green Schools Initiative (ie. slides and videos) for Greenovate's capacity building component and SGBC will also help link BCA up with various industry partners to explore collaborations / test-bedding opportunities with the secondary schools.

There are nine secondary schools on board this year's Greenovate Programme:

1. Anderson Secondary School
2. Anglican High School
3. Bukit View Secondary School
4. CHIJ St Nicholas Girls' School
5. Commonwealth Secondary School
6. Marsiling Secondary School
7. Nanyang Girls' High School
8. Tanjong Katong Secondary School
9. Woodgrove Secondary School

Registration for this year's programme has closed. Interested parties can write to Mr Immanuel Lim, Senior Manager, 3P Partnership Department ([Immanuel.Lim@bca.gov.sg](mailto:Immanuel.Lim@bca.gov.sg)) to participate in next year's cycle.

### **Quotes from industry partners for Greenovate Programme**

“It is important for the young of today to appreciate the very concept of green building as they will be inheriting the world of tomorrow. We hope that in partnership with the Greenovate platform, the cache of educational resources SGBC has developed in collaboration with our industry partners will be put to greater use, instilling greater awareness of green building in our young citizens who will be the nation's future leaders.”

- Mr Chia Ngiang Hong, President, Singapore Green Building Council

“Sustainability is an integral part of Johnson Controls' values. We are excited by BCA's vision for the built environment and see a lot of potential for Singapore to lead in new ways of living sustainably in an urban, high-density city. We believe through the Greenovate Programme, we can lend our expertise in optimizing buildings to inspire the next generation to not just be good stewards of our environment but also innovative problem-solvers,”

- Mr Michael Anderton, General Manager and Managing Director of Johnson  
Controls Building Efficiency Singapore