

## Energy Innovation Challenge 2018 (Category 4 – Universities)

The Institution of Engineers Singapore (IES) is calling for participation in the Energy Innovation Challenge 2018 (University category). IES invites your University to participate in the Challenge that is jointly organised by IES and Science Centre Singapore (SCS). The Challenge provides an opportunity for students to design or invent a product to provide SMART engineering solutions focusing on four areas: Health, Living, Mobility and Services. Projects must clearly present the engineering principle and take a further slant to factor in “green energy” solutions. Universities can field teams of individual or several students in a team to take part in the challenge. Teams will be measured on the final product, team strategy and team collaboration.

The Challenge will culminate in a Project Display, Final Judging and Awards Presentation at the **National Engineers Day 2018 in Suntec Singapore from 26 to 28 July 2018**. The Challenge will also be open to the categories as listed below:

- Category 1: Secondary Schools (teams from Singapore)
- Category 2: Junior Colleges (teams from Singapore)
- Category 3: Institutes of Education and Polytechnics (teams from Singapore)
- Category 4: Universities – International (teams from Singapore and Overseas)

### Why Participate

This Challenge is an excellent opportunity to exchange innovation and compete on an international level across different countries. The Challenge also provides students to build self-confidence, maturity, team spirit and professional ethics. Students can have fun whilst building a network of international friends.

### Submission of Initial Project Proposal

Universities are invited to submit the initial project proposal by **23 April 2018**. The proposal must include the following:

- Background
- Project Description
- Prototype proposal
- Cost-benefits analysis

Submissions of abstract and proposal are accepted in PDF format (not exceeding 800 words). Supplementary materials such as a video (max file size - 4MB and less than 5 minutes playtime) or PowerPoint slides (Max 15 slides) are accepted as Appendices accompanying the proposal. For submission of both video and Power Point slides a maximum file size of 5 MB is allowed.

Entries submitted must be team(s) own project work or invention; any form of plagiarism will be rejected. By entering the Challenge, entrant acknowledges and warrants that the submitted entry is an original work solely by the entrant, that the entry does not infringe any copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry.

**To register and participate, please complete the enclosed Registration Form. The Initial Proposal must be submitted in a separate file and follow the above mentioned format.**

### Judging Format

The first round of judging will be conducted after closing date and shortlisted teams will be notified by **11 May 2018 to submit a full proposal**. In addition, the shortlisted teams will receive a **prototype fund of SGD500** at the NED 2018 for their participation and development of a prototype. The full proposal must reach IES by **13 July 2018**. IES will not be responsible for any travelling expenses to Singapore for the final judging, therefore the shortlisted teams should seek their own funds to be present for the Challenge in Singapore.

Final Judging Format will take the form of engineering and business pitch. The 1<sup>st</sup> placed team will be given 2 minutes to present their project on stage. The final score will be determined by the Chief Judge and a panel of judges during the end of NED 2018. There will also be a popularity award for each category to be won.

**Prizes** (All shortlisted participants will be given Certificate of Participation)

1 <sup>st</sup> Team	SGD 8,000 cash + Trophy + Prototype Fund
2 <sup>nd</sup> Team	SGD 5,000 cash + Trophy + Prototype Fund
3 <sup>rd</sup> Team	SGD 3,000 cash + Trophy + Prototype Fund
4 <sup>th</sup> – 10 <sup>th</sup> Team	SGD 1,000 cash + Prototype Fund
Shortlisted Teams	Prototype Fund
Popularity Award	SGD 300 cash

For enquiry or registration, please contact Tan Bai Fong at [tan.baifong@iesnet.org.sg](mailto:tan.baifong@iesnet.org.sg)



## **Rules and Regulations**

### **1. Acceptable Inventions**

- Submissions in the form of prototypes, mock-ups, PowerPoint decks and posters are accepted.
- Entries submitted must be the team's own project work or invention; any form of plagiarism will be rejected. By entering the Challenge, the team acknowledges and warrants that the submitted entry is an original work solely by the team, that the entry does not infringe on the copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry. This declaration is available in the registration form.
- Entries that do not fulfil the above criteria will be deemed ineligible and will be disqualified.

### **2. Team Requirements**

- The Energy Innovation Challenge 2018 – University Category is open to all students currently studying in University (undergraduates only).
- Shortlisted teams from Overseas Universities must seek their own funding to be present at the final round of Challenge in Singapore.
- Each team must submit the name of a professor/staff advisor on the registration form.
- Teams are allowed to submit more than one project, but will be required to submit a separate Registration Form for each project.

### **3. Judges**

- Judges are made up from the industry, academia and government organizations in Singapore and/or Overseas.
- The decisions of the judges are final and binding. No questions regarding the judges' decisions will be entertained.
- No team may under any circumstances attempt to contact a judge regarding this Challenge during or before the Challenge. Any such behaviour will result in the disqualification of the team.
- Teams who have any questions regarding potential conflicts of interest for any judges at any stage of the Challenge should address them immediately to [tan.baifong@iesnet.org.sg](mailto:tan.baifong@iesnet.org.sg).

### **4. Liability**

- IES will exercise care in handling the entries submitted. However, they will not be liable for any loss of entries or any unauthorized use of the entries displayed during the Challenge.
- The team accepts all risks of personal injury or property damage of any nature whatsoever that may arise from their making or creation of the entry or participation in this Challenge and will not in any way hold the IES responsible for any liability, loss, damage, expense and cost which they may sustain or incur as a result of their participation, except for liability which cannot be excluded by law.
- The team hereby agrees to be fully liable to IES and its officer, employees and agents for any violation of confidentiality, patent, copyright or any other intellectual property rights in the entries submitted.



## 5. Organiser's Rights

- IES reserves the right to disqualify and withhold prizes for any team(s) violating any of these rules and regulations.
- If for any reason the Challenge is not capable of running as planned, due to causes beyond the control of IES that affect the administration, security, fairness and proper conduct of this Challenge, IES reserves the right, as its sole discretion, to modify and cancel the Challenge. In the event the Challenge is cancelled, IES will not retain any rights in the submitted entries.

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## DECLARATION

We have read the Rules & Regulations for the Challenge and acknowledge the following terms:

- ☐ Entries submitted must be the team's own project work or invention; any form of plagiarism will be rejected. By entering the Challenge, entrant acknowledges and warrants that the submitted entry is an original work solely by the entrant, that the entry does not infringe on the copyrights, trademarks, moral rights, rights of privacy / publicity or intellectual property rights of any person or entity, and that no other party has any right, title, claim or interest in the entry.
- ☐ Team member(s) is/are aware that IES honours the confidentiality of all teams' inventions and ideas that are submitted. Any materials submitted will not be copied or used for any purposes other than in this Challenge. However, the IES reserves the right to reproduce, display and distribute information and/or photographs for publication regarding the project team or project idea, on website, and/or display in any media without obtaining further prior permission. Hence, all teams shall take necessary steps to obtain the respective patents or other forms of Intellectual Property protection prior to this date, if they wish, and at their own cost.

Name of Professor/Staff-in-charge: \_\_\_\_\_

Signature:

Date: