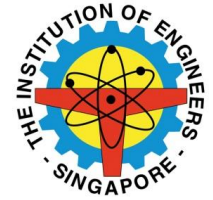


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[For Immediate Release](#)



Celebrating 50 Years of Engineering Excellence

Media Release

Four Student Teams Crowned Alternative Energy Champions at Energy Innovation Challenge 2016

Guest-of-Honour Ms. Indranee Rajah presented winning teams with awards and prizes at National Engineers Day 2016 Closing Ceremony

The National Engineers Day (NED) 2016 culminated with four student teams named as the winners of the second Energy Innovation Challenge (EIC) yesterday, for displaying exceptional brilliance in applying their engineering knowledge and skills to design and invent alternative energy solutions. Senior Minister of State for Law and Finance, Ms. Indranee Rajah, presented the coveted awards to the winning teams at the NED 2016 Closing Ceremony at the HDB Hub Atrium yesterday.

In the final round, the team from Raffles Girls' School beat 17 other teams with their project on 'Light Sensitive Circuit' to claim the champion title for Category 1 (Secondary Schools). The team from Anglo-Chinese Junior College saw off 11 other teams to rise to first position in Category 2 (Junior Colleges) with their project on 'An Innovative Way of Restoring and Utilising Kinetic Energy of Moving Vehicles during Acceleration And Deceleration'. The team from ITE College West (Mechanical Engineering) competed with 26 other teams before clinching the top prize in Category 3 (Polytechnics and ITEs) for their project on 'Charge While You Bathe'. The top prize for Category 4 (Local and Foreign Universities) in Category 4 went to Polytechnic University Of The Philippines for their project on 'Celhar: Optimising the Use of Lahar to Provide an Alternative Source of Electrical Energy in Rural Areas', setting themselves apart from 19 other teams.

In addition, the inaugural Standards Award supported by SPRING Singapore was also presented to the team J-14 from Anglo-Chinese Junior College, for developing the best

journal log demonstrating how standards support and improve energy efficiency. The award aims to cultivate an awareness and appreciation of the importance of standards in realising a cleaner sustainable future for humankind.

Jointly organised by The Institution of Engineers, Singapore (IES) and Science Centre Singapore (SCS), the EIC is a four-month long challenge whereby student teams from across Singapore and the Asian region had to research and design solutions to demonstrate the use of alternative sources of energy under the guidance of professional engineering and business mentors. A total of 77 student teams displayed their projects at the NED fair from 23–24 July at Toa Payoh HDB Hub Atrium. The most outstanding teams from each category were shortlisted for the final round based on their creativity, technical feasibility, quality, relevance and cost-effectiveness of their projects. They then had 90 seconds to present their projects on stage to the guests of the Closing Ceremony of NED 2016 and the teams with the highest number of accumulative votes from the guest-of-honour, the Chief Judge, the panel of judges and the audience were then crowned champions.

Each champion team from Categories 1 to 3 has won an educational trip to the BMW Welt, BMW Museum and BMW Group Plant in Munich, Germany, while the first runner-up, second runner-up and merit winners walked away with cash prizes of SGD1,000, SGD700 and SGD300 respectively. For Category 4, the champion team received a cash prize of SGD8,000, while the first runner-up, second runner-up and the merit winner took home cash prizes of SGD5,000, SGD3,000 and SGD1,000 respectively. The winning team of the Standards Award has won a cash prize of \$1,000.

The second EIC is supported by the Ministry of Education and the National Research Foundation (NRF).

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Notes to media:

- i. Annex – List of winning teams of EIC 2016
- ii. Glossary of Chinese terms

<i>English Terms</i>	<i>Chinese Terms</i>
The Institution of Engineers, Singapore (IES)	新加坡工程师学会

National Engineers Day	全国工程师日
Er. Edwin Khew, IES President	邱德福, 新加坡工程师学会会长
Energy Innovation Challenge	能源创新挑战

About The Institution of Engineers, Singapore (IES)

The Institution of Engineers, Singapore (IES) was formally established in July 1966 as the national society of engineers in Singapore. IES is the premier engineering institution in Singapore and is called upon by the Government to provide feedback on professional engineering matters.

IES is well represented among the faculty members of the major engineering institutions of higher learning in Singapore. Through close collaboration with the local universities and polytechnics, IES organises courses, seminars and talks for engineers and IES members to advance the continuous development of engineers.

The Institution maintains close links with professional organisations of engineers regionally and throughout the world. These include organisations in Australia, China, Japan, United Kingdom and the United States. The Institution also represents Singapore in the ASEAN Federation of Engineering Organizations (AFEO) and the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) in promoting goodwill, fellowship and exchange of knowledge among all engineers in ASEAN and the Asia-Pacific region.

Through its Engineering Accreditation Board (EAB), IES obtained full signatory status in the Washington Accord (WA) in June 2006. The entry grants IES the authority to represent Singapore, the first country within the ASEAN region which has obtained full signatory status in the WA, to vet education systems under the WA mutual recognition framework.

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Annex A – Energy Innovation Challenge 2016 Winners

Category 1 – Secondary Schools

- Champion: Team S-12 – Raffles Girls’ School, Light Sensitive Circuit
- First Runner-up: Team S-10 – Tanjong Katong Girls’ School, Harvesting Kinetic Energy from Waves to Generate Electricity
- Second Runner-up: Team S-01 – School of Science and Technology, Singapore, Development of Efficient Wind Turbine Design

Category 2 – Junior Colleges

- Champion: Team J-15 – Anglo-Chinese Junior College, Kinetic Energy Saver – An Innovative Way of Restoring and Utilising Kinetic Energy of Moving Vehicles during Acceleration and Deceleration
- First Runner-up: Team J-08 – Temasek Junior College, Piezoelectric Escalator
- Second Runner-up: Team J-09 – Temasek Junior College, Harnessing Friction to Produce Electricity

Category 3 – Polytechnics and Institutes of Technical Education

- Champion: Team I-12 – ITE College West (Mechanical Engineering), Charge While You Bathe
- First Runner-up: Team I-08 – ITE College East (Electrical Engineering), Energy Extension + App
- Second Runner-up: Team P-05 – Republic Polytechnic (Diploma of Renewable Energy Engineering), Breathing House

Category 4 – Local and Overseas Universities

- Champion: U-12 – Polytechnic University Of the Philippines, Celhar: Optimising the Use of Lahar to Provide an Alternative Source of Electrical Energy in Rural Areas
- First Runner-up: U-17 – Technological Institute of the Philippines, Quezon City; Sustainable Energy from Brine Flow Electrodynamics
- Second Runner-up: U-20 – University of New Castle, Australia (Singapore), An Improved Biomass Cookstove for Developing Countries

Standards Award by SPRING Singapore

- Champion: J-14 – Anglo-Chinese Junior College, Kinetic Waving Goodbye to Fossil Fuels