



Engineering  
工程



# 新能源新世代2026

場外卓越獎 (Off-Track Awards)

申請說明

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## New Energy Generation 2026 & EV Week

*The “New Energy Generation 2026” and “New Energy Vehicle Week” are organized by the Engineering Discipline of the Hong Kong Institute of Vocational Education (IVE). Since its launch in 2017, the event has been successfully held five times and has become an annual solar car competition for secondary school students in Hong Kong. The event aligns with the United Nations Sustainable Development Goals (SDGs), particularly Affordable and Clean Energy (SDG 7) and Climate Action (SDG 13). Thanks to the support of various sectors, last year’s competition attracted participation from 42 secondary schools. The New Energy Vehicle Week also received an enthusiastic response. In the coming year, the organizing team will continue to conduct interactive outreach activities across all 18 districts of Hong Kong, allowing more students and teachers to experience the importance of sustainable development and the practical applications of new energy technologies in daily life. This year’s event continues under the theme: “Following the Light, Driving Sustainability through Carbon Reduction”*

*Students will have opportunities to apply classroom theories to the design, assembly, and testing of solar-powered vehicles. Through hands-on experience, participants will create innovative, energy-efficient solar cars and demonstrate their technical achievements on the race track. A series of STEM-, technology-, innovation-, and engineering-themed activities will also be organized to encourage young people to explore renewable energy solutions and transform classroom knowledge into practical engineering applications.*



## Team notes

### Off-Track Awards

All participating teams are invited to apply for the Off-Track Awards. This year, the IVE Engineering Discipline and Shell Hong Kong will jointly organize workshops and related activities for the following awards:

- Safety Award
- AI Innovation Award
- Environmental-friendly Design Award

Teams may begin submitting all required documents from 21 September 2026.

Submission deadline is 17 October 2026. Applications should be sent to:

[shwong02@vtc.edu.hk](mailto:shwong02@vtc.edu.hk).

Please review the award requirements carefully. A separate application form must be completed and submitted for each award category. The organizer reserves the right of final decision on all applications and award selections.

### 安全獎 (Safety Award)

The Safety Award recognizes the top three teams that most effectively comply with the safety regulations and requirements specified by the competition. Teams must explain how safety considerations have been incorporated into the design and construction of their vehicles.

Each team must submit a Team Portfolio including:

- Completed Safety Award Questionnaire (Appendix 1)
- Supporting documentation for the questionnaire (Chinese or English; PowerPoint or PDF format accepted)
- A 2 to 3-minute video introducing vehicle features, innovation concepts, and implementation methods (MOV or MP4 format with downloadable link)

Submission document shall be renamed as “(Team ID) Safety\_item (x)”, For example: R01 Safety\_item(1).

### AI 創新獎 (AI Innovation Award)

This award is presented to teams demonstrating outstanding innovation and technical creativity. Entries may involve optimization and innovative application of: Powertrain systems , Vehicle frame/chassis , Instrumentation , Tires, New materials. For 2026, the award additionally emphasizes the application of Artificial Intelligence (AI) to improve solar vehicle performance or functionality.

Each team must submit:

- Completed AI Innovation Award Questionnaire (Appendix 2)
- Supporting documentation (Chinese or English; PowerPoint or PDF format accepted)
- A 2 to 3-minute video explaining vehicle features, innovation concepts, and implementation methods (MOV or MP4 format with downloadable link)

Submission document shall be rename as “(Team ID) Innovation\_item (x)”, For example: R01 Innovation\_item(1)。

### **環保設計獎 (Environmental-friendly Design Award)**

This award recognizes innovative design research in: Ergonomics, Aesthetics, Material selection, Technical feasibility, Originality, Overall design coherence

The term "design" includes: Vehicle structure, Driving position, Environmental protection ,Resource optimization , Manufacturing processes. Teams must clearly explain their design concepts, manufacturing methods, and research basis.

Each team must submit:

- Completed Environmental-friendly Design Award Questionnaire (Appendix 3)
- Supporting documentation (Chinese or English; PowerPoint or PDF format accepted)
- A 2 to 3-minute video introducing design features, manufacturing methods, and research background (MOV or MP4 format with downloadable link)

Submission document shall be rename as “(Team ID) Design\_item (x)”, For example: R01 Design\_item(1)。

## ***Appendix 1 – Safety Award Questionnaire***

|   |                                                                                                                                                                   |
|---|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | School Name                                                                                                                                                       |
| B | Team Name                                                                                                                                                         |
| C | Team Manager Name                                                                                                                                                 |
| D | Team Manager Email                                                                                                                                                |
| E | Team Manager Contact Number                                                                                                                                       |
| F | What are the key safety innovations of your vehicle (visibility, roll-over protection, fire protection, driver compartment, ventilation, overall design concept)? |
| G | What original active or passive safety features have been incorporated?                                                                                           |
| H | What measures have been taken to ensure driver comfort (driving position, cockpit ergonomics, ventilation)?                                                       |
| I | Does your team have a designated Safety Officer/Manager?                                                                                                          |
| J | How have safety considerations been integrated into the project?                                                                                                  |
| L | Following scrutineering and qualifying rounds, what major improvements have been made to ensure compliance with safety regulations?                               |

## ***Appendix 2 – AI Innovation Award Questionnaire***

|   |                                                                                                                                                                      |
|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | School Name                                                                                                                                                          |
| B | Team Name                                                                                                                                                            |
| C | Team Manager Name                                                                                                                                                    |
| D | Team Manager Email                                                                                                                                                   |
| E | Team Manager Contact Number                                                                                                                                          |
| F | Please describe your innovation project.                                                                                                                             |
| G | How did you develop the innovation concept(s)?                                                                                                                       |
| H | Which areas of the vehicle are involved in the innovation project?<br>a. New materials<br>b. Instrumentation / measurement methods<br>c. Original technical solution |
| I | How is AI technology applied in this project? Please provide details.                                                                                                |
| J | Does the innovation significantly improve energy efficiency?                                                                                                         |
| L | Did you collaborate with any external partners during development? Please provide details.                                                                           |

### ***Appendix 3 – Environmental-friendly Design Award Questionnaire***

|   |                                                                                                                                                                                                                                                                                                               |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A | School Name                                                                                                                                                                                                                                                                                                   |
| B | Team Name                                                                                                                                                                                                                                                                                                     |
| C | Team Manager Name                                                                                                                                                                                                                                                                                             |
| D | Team Manager Email                                                                                                                                                                                                                                                                                            |
| E | Team Manager Contact Number                                                                                                                                                                                                                                                                                   |
| F | What environmental factors were considered during the vehicle design process?                                                                                                                                                                                                                                 |
| G | What concepts were adopted in the design and manufacturing of the vehicle?                                                                                                                                                                                                                                    |
| H | How does your design reflect environmental sustainability principles?                                                                                                                                                                                                                                         |
| I | Does the vehicle structure include any green or environmentally friendly materials/resources?                                                                                                                                                                                                                 |
| J | How does the vehicle design and construction contribute to improved energy efficiency?                                                                                                                                                                                                                        |
| L | <p>What are the outstanding features of the vehicle in the following areas?</p> <ul style="list-style-type: none"><li>a. Body structure</li><li>b. Interior styling</li><li>c. Ergonomics</li><li>d. Overall exterior appearance</li><li>e. Use of colors and materials to enhance aesthetic appeal</li></ul> |