

Singapore Energy Grand Challenge (Youth) 2022 - IHL

Frequently Asked Questions

Team Requirements

1) How do I participate in SEGC (Youth) – IHL?

Students have to form a team of two to four and register online at go.gov.sg/segc2022.

2) Can I join SEGC (Youth) – IHL by myself or form a team with more than four schoolmates?

No. Each team requires two to four participants from the same local institution (i.e. ITE, polytechnic, autonomous university) to participate in the challenge.

3) Can I form a team with schoolmates across different levels (e.g. a team consisting of Year 1 and 4 students) if we are all from the same institution?

Yes. Students in the same team can be formed with students across different levels if they are from the same institution.

4) How many teams can participate for each school?

There is no limit to the number of teams participating per school.

Phase 1: Virtual Mass Briefing

5) What will the virtual mass briefing consist of?

Participating teams should register their interest and must attend a virtual mass briefing on 3 Jun 2022. The briefing comprises (i) sharing on advancing Singapore's energy transition by EMA and (ii) details of the company-specific problem statements. Students may use this opportunity to seek clarifications on the problem statements.

6) What if my team is unable to attend the virtual mass briefing?

Clarifications will only be answered during the briefing session by EMA and industry partners. To ensure a level playing field, further questions will not be addressed thereafter. A recording of the briefing session will be uploaded on our Powering Lives website within one week from the virtual mass briefing. (Participating teams are required to watch this recording if they missed the virtual mass briefing on 3 Jun.)

Phase 2: Submission Requirements

7) What do I need to submit for SEGC (Youth) – IHL?

Teams will need to declare that all members have attended or watched the virtual mass briefing. Each team is required to fill in team's details and submit a PowerPoint deck (in .pdf format) showcasing the proposed solution(s) to address the selected company-specific problem statement by 30 June 2022, 5:00pm. The deck should include the following:

- a. The selected company-specific problem statement and overall approach;
- b. Description of team's proposed solution and relevance to the problem statement;
- c. Assessment of technical feasibility of proposed solution; and
- d. Potential benefits/impact of proposed solution to the company.

Please note that the PowerPoint deck (in .pdf format) should not exceed 7 slides. Submissions which deviate from the requirements will be disqualified. Teams are encouraged to submit separate accompanying supporting documents and references to support their proposal.

8) How do the company-specific problem statements differ from the Challenge Statement?

The company-specific problem statements are related to the overarching Challenge Statement on sustainability. Participating teams are required to provide solution(s) to the company-specific problem statements.

9) How many company-specific problem statements will there be?

There will be one company-specific problem statement per company.

10) Can my team address multiple company-specific problem statements?

No, participating teams can only address one company-specific problem statement.

11) Can my team choose not to address any company-specific problem statements?

No, it is mandatory for participating teams to address one company-specific problem statement.

12) What are the judging criteria for submission?

Submissions will be assessed based on the following criteria:

- Relevance (70%) – How the submission is relevant to Singapore's context and addresses the challenge statement
- Creativity (30%) – How the submission showcases innovative ideas and solutions for a more sustainable Singapore in 2050

Phase 3: Semi-Finals and Grand Final

13) How will students participating in SEGC (Youth) – IHL be supported?

Students participating in SEGC (Youth) – IHL will be mentored and provided training opportunities for their teams to improve their solutions for the Grand Final. Finalists will present their proposals to the judging panel at Youth@SIEW.

14) If my team is shortlisted for the Semi-Finals, what are the next steps?

Teams shortlisted for the Semi-Finals will be contacted by EMA by end August 2022. Teams will be required to present their solutions (7 minutes each for presentation, followed by a Q&A session) at a virtual judging session held on 2 September 2022.

Selected finalists for each company-specific problem statement will advance to the Grand Final and be mentored by participating companies in preparation for the final judging at Youth@SIEW on 28 October 2022.

15) What will the Grand Final consist of?

Finalists will present their proposed solutions based on their selected company-specific problem statement at Youth@SIEW 2022¹. Each team will be given 3 minutes for their presentation (max 5 slides), followed by a Q&A session.

Winning teams will be recognised at a dedicated SEGC (Youth) award ceremony at Youth@SIEW 2022 and be awarded a total of \$30,000 in cash prizes.

16) How will teams be judged for the Semi-Finals and Grand Final?

Teams will be assessed based on following criteria:

- Relevance (40%) – How the submission is relevant to Singapore's context and addresses the challenge statement
- Creativity (30%) – How the submission showcases innovative ideas and solutions for a more sustainable Singapore in 2050
- Presentation (30%) – How the submission presents ideas in a coherent manner and demonstrates students' understanding of resource constraints and trade-offs

References

Keppel Infrastructure

- <https://www.iea.org/reports/digitalisation-and-energy>
- <https://www.opml.co.uk/blog/making-energy-transition-possible-how-technology-can-help>
- <https://www.siew.gov.sg/articles/detail/2019/05/10/electricity-demand-expected-to-double-by-2050-driven-by-cost-parity-of-electric-vehicles-mckinsey>

Schneider Electric

- [eMobility solutions for a smart EV charging experience | Schneider Electric Singapore \(se.com\)](#)
- [Is Singapore's existing electricity network adequate to support Electric Vehicle \(EV\) charging infrastructure? - EMA FAQ - AskGov](#)
- [What will the world look like in 2050 \(And of course, global warming\)](#)
- [Smart EV Charging in Buildings: key for accelerating EV's adoption. \(se.com\)](#)
- [How to select electric vehicle chargers compliant to safety standards and regulations? - Schneider Electric Blog](#)

Sembcorp Industries

- <https://www.beyondthecurrent.gov.sg/4-switches-city#solar>

Contact Us

You may contact us if you have queries via EMA_HumanCapital@ema.gov.sg.

¹ Youth@SIEW is a key outreach platform to engage tertiary students and educators on the latest energy trends and career opportunities in the energy sector, held during the annual Singapore International Energy Week (SIEW).