



Proudly hosted by Bangkok Patana School

Overview

The Bangkok Eco-Innovators: The Sustainable Solutions Challenge is an exciting, hands-on **science and design** competition for school aged students, inspiring them to create **real-world solutions** to environmental challenges. Participants will explore **science, engineering, and design thinking** to develop innovative ideas that support the **United Nations Sustainable Development Goals (SDGs)**.

This year's **special guest judge** is **Sri Hollema**, BPS Alumni, **Founder of Mat Zero**, and **2025 UK Women in Innovation Awardee**, who will provide expert feedback and inspire the next generation of changemakers.

Focus SDGs




Participants will design a solution addressing one of the following sustainability challenges:

- **SDG 7: Affordable & Clean Energy** – How can we develop innovative solutions that promote renewable energy, improve energy efficiency, or provide clean energy access for all?
- **SDG 11: Sustainable Cities and Communities** – How can we ensure our cities and communities can live together in harmony over the long term and be resilient?
- **SDG 12: Responsible Consumption & Production** – How can we reduce waste and create sustainable products?
- **SDG 13: Climate Action** – How can we design a solution to lower carbon emissions or help communities adapt to climate change?
- **SDG 14: Life Below Water** – How can we protect marine life or reduce ocean pollution?
- **SDG 15: Life on Land** – How can we safeguard biodiversity and restore natural ecosystems?

Challenge Statement

"How can we design a product, system, or solution that protects our planet and makes a real impact in our community?"

Who Can Participate?

- Open to **individual students in Years 5 – 13 (Grades 4 – 12)**
 - Students will work independently but can receive **guidance from teachers and mentors.**
 - **The age categories will be:**
 -  **Eco Sprouts** (Year 5 & 6/Grade 4 & 5) – Budding innovators taking their first steps in sustainability.
 -  **Green Pioneers** (Year 7,8 and 9/Grade 6,7 and 8) – Bold thinkers exploring creative solutions for the planet.
 -  **Future Guardians** (Year 10+/Grade 9+) – Young changemakers leading the way toward a sustainable future.
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Competition Structure

1. **Research & Exploration**
 - Learn about sustainability challenges related to **SDG 7, 11, 12, 13, 14, or 15.**
 - Explore **real-world eco-innovations** for inspiration.
 2. **Design & Prototype**
 - Develop a **creative solution** to an SDG challenge.
 - Use **recycled, repurposed, reusable or sustainable materials** to build a prototype
 - Document the process through sketches, journals, or photos.
 3. **Showcase at the Eco-Innovators Expo**
 - Present prototypes to a **panel of teachers, peers, and our guest judge, Sri Hollema.**
 - Explain how their innovation promotes a **sustainable future.**
 - Each participant will be provided with one table to display their creation which is 1.8m x 0.6m and one display board which is 2m x 1m. All other materials must be supplied by the student.
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Judging Criteria

A panel of **expert judges**, including Sri Hollema, will evaluate entries based on:

- ✓ **Innovation & Creativity** – How original and inventive is the idea?
 - ✓ **Sustainability Impact** – How effectively does it address an SDG?
 - ✓ **Functionality & Feasibility** – Could it work in real life?
 - ✓ **Presentation & Communication** – How well does the student explain their idea?
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Prizes 🏆

In each age group we will award:

- 🏆 **Eco-Innovator of the Year** – Grand Prize Winner
- 🥇 **Best Innovation** – Most creative and unique idea
- 🥈 **Best Sustainability Impact** – Solution with the biggest potential to help the planet
- 🥉 **Best Engineering & Design** – Most well-built and functional prototype
- 🥉 **Best Communicator** – Best presentation and ability to explain the idea

All participants will receive a participation medal

The Big Finale: Eco-Innovators Expo 🌟

All students will showcase their projects at the **Eco-Innovators Expo**, where they will present their solutions and receive **expert feedback from Sri Hollema**.