

JOINT MEDIA RELEASE

Five new climate tech startups join Breakthrough Energy Fellows – Southeast Asia in latest cohort

Startups from Singapore and Malaysia offer novel solutions including to reduce urban heat build-up and cut carbon emissions from agricultural waste, expanding the range of innovations supported by the programme

MR No.: 046/25

Singapore, Wednesday, 29 October 2025

1. Five climate technology startups from Singapore and Malaysia have joined the latest cohort of the Breakthrough Energy Fellows – Southeast Asia (BE Fellows – SEA¹), a joint programme by Breakthrough Energy, Temasek and Enterprise Singapore (EnterpriseSG). **Deputy Prime Minister and Minister of Trade and Industry Gan Kim Yong highlighted these fellows at the Singapore Week of Innovation and Technology (SWITCH)**, who are developing solutions tackling some of the region's most urgent climate challenges across agriculture, urban infrastructure, and sustainable manufacturing:
2. These startups include:
 - **DeepCycle Eco**, which is developing a technology that recycles waste plastics (PET) back into its original building blocks, or monomers. This aims to enable a closed-loop recycling process that eliminates plastic pollution and reduces greenhouse gas emissions.
 - **Entropy Labs**, which is developing a novel coating solution that can reflect light and reject heat. When used in paints and coatings for buildings, the solution can reduce urban heat build-up and consequently, the energy demand for cooling.
 - **Green COP Pte Ltd**, which is enabling the transformation of agricultural waste to biofuel through their patented treatments. This helps to advance the circular

¹ BE Fellows – SEA is jointly established by Breakthrough Energy, a global platform focused on accelerating clean energy innovation and building industries of the future; Temasek, a global investment company headquartered in Singapore; and Enterprise Singapore (EnterpriseSG), the government agency championing enterprise growth.

JOINT MEDIA RELEASE

economy and supports the global transition to renewable energy.

- **Qarbotech**, which is converting agricultural waste to carbon nanomaterials that can boost plant growth and yield. Its technology has the potential to revolutionise agriculture and advance sustainable food production, while cutting chemical inputs and carbon emissions.
 - **Terra Oleo**, which is pioneering microbial technology to create the next generation of fat and oil products. Their solution eliminates the energy-intensive refining steps and toxic byproducts typically associated with conventional lipid-producing processes and can help to reduce greenhouse gas emissions.
3. The BE Fellows – SEA was first introduced in 2024 and marks the first regional hub of Breakthrough Energy’s global Fellows program. The initiative provides researchers, scientists, and technology innovators in the region with catalytic funding, technical mentorship, and access to a global network to help turn promising climate technologies into scalable solutions.
 4. The new cohort will join existing SEA Fellows **CRecTech**, which is working to decarbonise the maritime industry by converting biogas into low-carbon methanol, and **Lincore**, which is developing refining technology to recover critical materials from used batteries and create circular, low-emission supply chains. Through the SEA Fellows programme, both climate tech startups have gone on to scale their technologies as well as secure strategic partnerships to pilot and commercialise their solutions.
 5. The SEA Fellows will take the stage at a dedicated startup showcase at SWITCH on 29 October, to share more on their groundbreaking solutions and explore new collaborations. Dr. Brenda Haendler, Director of Technology Management at Breakthrough Energy Fellows will also share insights on the latest developments in climate and energy innovation.
 6. “Southeast Asia’s scientists and founders are tackling some of the hardest problems in climate and proving what’s possible when innovation is matched with collaboration,” said **Ms. Ashley Grosh, Vice President of Discovery at Breakthrough Energy**. “This growing cohort is strengthening the region’s capacity to lead on climate solutions that reach far beyond its borders.”
 7. **Mr. Russell Tham, Head, Emerging Technologies, Temasek**, said, “The next wave of Fellows in Southeast Asia reflects the region’s growing capacity to step up on climate innovation across different sectors. These innovators are tackling some of the toughest

JOINT MEDIA RELEASE

decarbonisation challenges with bold ideas and deep technical ambition. Our partnership with Breakthrough Energy and Enterprise Singapore is testament to our collective commitment, to bring together strategic capital, global networks, and regional insights to support innovators in their efforts to scale solutions that matter for Asia and beyond.”

8. “Tackling climate change challenges requires not only a sustained effort to innovate new solutions, but also a concerted effort by the ecosystem to support its development and adoption at scale. We are heartened to see even more climate tech innovators step up to join the Breakthrough Energy Fellows – SEA programme to address pressing climate issues in the region, and are committed to helping them accelerate their growth to create a positive impact,” said **Ms. Cindy Khoo, Managing Director, Enterprise Singapore.**
9. Through its Fellows programme, Breakthrough Energy has backed more than 160 Fellows across 19 countries, providing non-dilutive funding and hands-on technical and business support to help early founders move from the lab to the market.
10. Applications for the next cohort of the Breakthrough Energy Fellows programme are now open [here](#).

– End –



TEMASEK



JOINT MEDIA RELEASE

For media enquiries, please contact:

Shahaley Bornstein

Breakthrough Energy

shahaley.bornstein@gatesventures.com

Celine Koh

Temasek

+65 6828 6000

celinekoh@temasek.com.sg

Lydia Lee

Enterprise Singapore

+65 9139 9470

lydia_lee@enterprisesg.gov.sg

About Breakthrough Energy

Breakthrough Energy is committed to accelerating the world's journey to a clean energy future. The organization funds breakthrough technologies, advocates for climate-smart policies, and mobilizes partners around the world to take effective action, accelerating progress at every stage.

The Breakthrough Energy Fellows Southeast Asia hub is part of Breakthrough Energy's broader Discovery platform, the pre-venture innovation arm of Breakthrough Energy that advances emerging climate technologies at their earliest stages. Through its Fellows program, Breakthrough Energy has backed more than 160 Fellows across 19 countries, providing non-dilutive funding and hands-on technical and business support to help early founders move from the lab to the market.

For more information on Breakthrough Energy's Fellow program, please visit www.breakthroughenergy.org/our-work/fellows/

About Temasek

Temasek is a global investment company headquartered in Singapore, with a net portfolio value of S\$434 billion (US\$324b) as at 31 March 2025. Its Purpose "*So Every Generation Prospers*" guides it to make a difference for today's and future generations. Temasek seeks to build a resilient and forward-looking portfolio that will deliver sustainable returns over the long term.

It has 13 offices in 9 countries around the world: Beijing, Hanoi, Mumbai, Shanghai, Shenzhen, and Singapore in Asia; and Brussels, London, Mexico City, New York, Paris, San Francisco, and Washington, DC outside Asia.

For more information on Temasek, please visit www.temasek.com.sg



TEMASEK



JOINT MEDIA RELEASE

About Enterprise Singapore

Enterprise Singapore is the government agency championing enterprise development.

We partner committed companies to build capabilities, innovate, and go global. We drive growth – empowering local businesses and shaping industries, anchoring Singapore as a trade and startup hub, and establishing trust in products through quality and standards.

We're here, for wherever you're growing. Visit www.enterprisesg.gov.sg for more information.