

MEDIA RELEASE

Equator Renewables Asia brings solar in a box for businesses to tap renewable energy at lower cost

- *SolarBox's plug-and-play system in a 40-foot container can deliver up to 250 kWp of solar capacity*
- *Mobile and scalable, SolarBox can be deployed by two people in two hours*
- *PSA to showcase SolarBox at its port*

Singapore, 27 October 2026 – Businesses can now switch to solar power almost as easily as taking delivery of a shipping container. Equator Renewables Asia (ERA), the start-up founded by solar pioneer Frank Phuan, today launched SolarBox, a plug-and-play system housed in a 40-foot container that allows businesses to tap renewable energy quickly and affordably.

Launched at Singapore International Energy Week, ERA's patent-pending solar power platform can be deployed by two people in about two hours. Solar panels, linked to one another, are pulled out of the container like an accordion, stretching across the ground in minimal time. Being modular, the system is as scalable as the available ground allows.

Developed in Singapore, SolarBox is prefabricated and pre-tested in a factory before being transported to the site in the 40-foot container. Each unit provides up to 250 kWp of solar capacity and is designed to integrate with the grid, battery energy storage systems and diesel generators. ERA estimates that four units can provide up to 1 MWp of DC solar capacity, while larger configurations can be assembled for utility-scale deployment.

ERA estimates that SolarBox can achieve a levelised cost of energy of S\$0.03 to S\$0.04 per kilowatt-hour under favourable project conditions and system configurations, driven by lower on-site engineering, labour, civil works and balance-of-system requirements. By comparison, wholesale electricity prices in Singapore have risen to more than S\$0.30 per kilowatt-hour, averaging S\$0.41 per kilowatt-hour in September 2026 according to Energy Market Company data, more than 10 times SolarBox's estimated levelised cost of energy.

Frank Phuan, Chief Executive Officer of ERA, said: "We have spent years building solar solutions, and one thing that has always stuck with me is why we are still assembling solar systems piece by piece on site, taking weeks or even months, and many people to set up.

"Our SolarBox revolutionises the process. Two people, two hours of installation. Connect four boxes and you get one megawatt of solar power. At utility scale, if you need 100 megawatts, it can be deployed by a team of just 10 people in about two weeks. This is unprecedented. When paired with battery storage, it can provide round-the-clock power and be deployed almost anywhere, very quickly."

Mr Phuan co-founded the Sunseap Group and built it into one of Asia's leading clean energy companies, before selling the business to Portugal's EDP Renewables.

The first SolarBox in Singapore has been installed at the PSA terminal and ERA will demonstrate how it can be deployed and operated in a port environment. ERA sees opportunities for SolarBox in remote industrial operations, island communities and locations where access to reliable power remains constrained or dependent on diesel generation. Target sectors include mining, logistics, construction, data centres, agriculture and ports, as well as disaster-response and defence operations requiring rapid access to power.

Puah Kok Keong, Chief Executive of Singapore's Energy Market Authority (EMA), said: "To strengthen our energy security and decarbonise power generation, Singapore is constantly seeking innovative ways to maximise domestic solar deployment in a practical and scalable way. Solutions such as SolarBox demonstrate how modular and flexible approaches can unlock new opportunities for solar deployment, particularly at interim-use sites. We look forward to welcoming more innovative solutions that can contribute towards Singapore's solar ambitions."

Philbert Chua, Managing Director, PSA Singapore, said: "As part of PSA's ongoing efforts to support sustainability, we continually look for ways to advance port operations through innovation, resource optimisation, and the adoption of renewable energy. The deployment of mobile containerised solar PV systems at our City Terminals reflects this approach, transforming available land into renewable energy assets that support our decarbonisation efforts and make better use of our resources. We are encouraged by the progress made through this collaboration and look forward to supporting more innovative solutions that can further advance sustainability and contribute to Singapore's clean energy journey."

To accelerate commercial deployment, ERA has signed memorandums of understanding (MOUs) with partners across the solar and energy infrastructure value chain, including Trina Solar, Shenzhen CLOU Electronics, SUMEC Group Corporation and prospective end user Aster Power.

Aina Lim, Head of Aster Power, said: "This collaboration represents an exciting opportunity to explore innovative approaches to renewable energy deployment. Through SolarBox, we can assess new ways to optimise available space while supporting our sustainability ambitions. We look forward to working closely with ERA to evaluate the potential of this solution across our sites."

Mr Phuan added: "What excites us most is seeing SolarBox move beyond demonstration and into real-world use. By working with strong partners across the energy sector, we can focus on getting the technology into the hands of customers who need faster, more flexible access to clean energy. Singapore is the starting point, but our ambition is to bring SolarBox to the region."

ERA has engaged TÜV SÜD to conduct an independent technology bankability review of SolarBox. According to ERA, the review found the technology aligned with applicable international standards and technically feasible in meeting its intended functions, safety objectives and performance requirements.

ERA is exploring pilot deployments, project partnerships and distribution arrangements with energy developers, engineering, procurement and construction contractors, governments, utilities, customers and equipment distributors. More information is available at www.solarbox.ai.

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About Equator Renewables Asia (ERA)

Equator Renewables Asia (ERA) is a Singapore-headquartered renewable energy company developing utility-scale solar, energy storage and cross-border transmission projects across Southeast Asia. Its portfolio includes SolarBox, a rapid-deployment modular solar platform. ERA holds a conditional licence under the Energy Market Authority's electricity import framework to supply 400 MWac of renewable electricity from Indonesia to Singapore via subsea cable and is among the first companies developing commercial-scale clean-energy exports on this route.

ERA was founded in 2025 by renewable energy entrepreneur Frank Phuan, who co-founded Sunseap Group and built it into one of Asia's leading clean energy companies before its acquisition by Portugal's EDP Renewables. ERA's leadership team has developed more than 1 GW of renewable energy projects across 10 countries. More information is available at www.solarbox.ai.

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