



# Sesame solar mobile nanogrids Thailand

What are sesame solar nanogrids?

Sesame Solar's Nanogrids have retractable solar walls that increase the size of the solar array, while also being easy to transport and deploy. We like to say "Open Sesame" to access the treasure of Clean Mobile Power and Turnkey Solutions Inside serving a variety of industries.

How do Sesame nanogrids work?

The nanogrids consist of a retractable solar array that charges a battery system to produce green hydrogen via electrolyzers. The hydrogen system needs deionized water to run, which Sesame keeps on hand during deployments.

What is a mobile nanogrid?

As Co-Founder and CEO Lauren Flanagan describes the Nanogrids, "The Mobile Nanogrid is powered by solar and battery, and many of them also have green hydrogen as backup power. And the Solution Inside can be a variety of things, from a mobile office to an emergency response center for first responders to a medical clinic.

Does Sesame solar have an off-grid system?

By combining their technologies, they've come up with a system that ensures a steady supply of deionized water for green hydrogen production, advancing Sesame Solar's off-grid system, says Lauren Flanagan, Sesame Solar cofounder and CEO.

Do Sesame solar nanogrids qualify for tax credits?

As part of the Inflation Reduction Act, Sesame Solar Nanogrids qualify for 30% tax credits and/or direct payments. If deployed in disadvantaged communities or tribal nations, tax credits and/or direct payments may increase up to 50%.

Is Sesame solar a green alternative to a diesel generator?

The solution is a green alternative to diesel-powered generators that emit harmful particulate matter. The only byproduct is oxygen, the CEO says. The Sesame Solar units can produce 3-20 kilowatts of solar power, with total battery storage of 15-150 kilowatt hours, according to the company.

Unlike diesel generators, clean mobile power solutions like Sesame Solar's Renewable Mobile Nanogrids aren't dependent on fuel deliveries, which are often disrupted during disasters. ... To become a Trust & Pride of the nation, as well as a source of energy learning in Thailand and the world from the past, present and future. More info.

Sesame Solar's award-winning and patented Turnkey Mobile Nanogrids consist of a retractable solar array, battery storage, green hydrogen production and storage, a fuel cell for backup power, an optional wind turbine,



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and atmospheric water generation.

These units, which are the first of their kind, combine solar power, green hydrogen, and battery storage to provide resilient and sustainable energy solutions. Sesame Solar's Renewable Mobile Nanogrids are portable, solar-powered energy stations designed to operate independently of compromised traditional energy sources during disasters.

US-based Sesame Solar has created a mobile unit of solar nanogrids to power communities for weeks after a disaster. The nanogrids come in shipping containers or mobile trailers, making them extremely easy to transport. Once ...

Interview of Sesame Solar co-founder Lauren Flanagan on what is a mobile nanogrid, its applications and the technology behind this innovation that integrates solar power and hydrogen to provide renewable energy. ... The article "Sesame Solar's Portable Solar Nanogrids Provide Renewable Electricity On The Go" was written by Jake Richardson and ...

Explore some of the Solutions that can be pre-configured Inside our Mobile Nanogrids. Jump to All Solutions. ... Sesame Solar Nanogrids are shipped ready-to-use for Emergency Response and Pop-up Shelter Solutions including transitional housing, community centers, mobile medical clinics, device charging, showers, toilets, laundry and more. ...

Article published by Urgent Communications on how Sesame Solar is leveraging mobile solar and hydrogen to deliver electric power and published on July 1, 2022. TIME's Best Inventions for 2023 ... Sesame Solar has been ...

Sesame Solar is decarbonizing disaster response and off-grid power with 100% Renewable Mobile Nanogrids--powered by solar + green hydrogen + battery storage--easily set up by 1 person in <15 minutes. A sustainable, reliable ...

There currently are 55 Nanogrids deployed across the U.S., including one the Air Force uses as a mobile medical clinic. Four are soon bound for war-torn Ukraine. More Must-Reads from TIME

Sesame Solar reports that the US Air Force, major telecommunication companies, and emergency response organizations are using its nanogrids, which have helped to keep critical communications online at the ...

Utilizing retractable solar arrays and green hydrogen from Enapter's AEM Electrolysers, these nanogrids deliver critical services during emergencies, including: Satellite-linked 5G mesh network; Mobile power for essential ...

" Flanagan said, saying that earlier versions made use of solar power and battery. The solar panels are retractable and are exposed by unfolding. A typical unit holds about 50 gallons of water. The solar energy



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powers electrolyzers in the nanogrids to produce hydrogen gas by decomposing water.

**Key Takeaways:** ? **Innovation in Renewable Energy:** Sesame Solar's Mobile Nanogrids are a groundbreaking step towards decarbonizing disaster response and off-grid power, illustrating Flanagan's innovative approach to clean energy solutions. **Women in Leadership:** Flanagan's journey showcases the significant impact women can have in ...

The company's nanogrids use solar and green hydrogen power, to provide clean mobile power and come pre-configured to meet essential services and emergency response needs across a variety of industry verticals, enabling clients to have easy access to a renewable source of energy for use anytime, anywhere.

Sesame Solar specializes in creating Mobile Nanogrids, which are compact, self-contained, mobile energy systems designed for use in critical services and emergency scenarios, as well as any off-grid power scenario.

Sesame Solar isn't alone in providing renewables-based nanogrids and microgrids to help out during emergencies. More and more, electric vehicles are being used as mobile microgrids to support the grid when ...

Sesame Solar Mobile, Renewable Nanogrids are customizable with medical solutions for charging medical equipment, clean water filtration, and medical and emergency services. Utilizing patented, retractable solar arrays + green hydrogen, Sesame's Mobile Nanogrids can serve entire communities with power within 15 minutes or less. ...

However, with the help of innovative solutions like Sesame Solar's Renewable Mobile Nanogrids, we have the tools to make a significant shift towards a fossil fuel-free future. By reducing our reliance on fossil fuels and embracing renewable energy, we can protect our oceans, preserve marine ecosystems, and build a more sustainable world for ...

Specifically designed, built, and pre-configured for multi-use case scenarios, Sesame Solar's Nanogrids can double as facilities for mobile clinics, offices, emergency response centers, ...

Sesame Solar's Co-founder and CEO Lauren Flanagan spoke at one of the press briefings at the 2023 Clinton Global Initiative in New York City in September 2023 about the company's commitment to sending its Mobile Nanogrids to Ukraine. [TIME's Best Inventions for 2023. Read More.](#)

At Michigan-based start-up Sesame Solar, the potential to use mobile "nanogrids" in a crisis serves as the foundation of a business - one that's been steadily expanding. Founded in 2017, the nanogrid manufacturer has picked up a diverse ...

The "open sesame" part occurs by electronically unfolding a retractable solar array. In an emergency, the nanogrids can provide services like medical response, water purification, Wi-Fi and electric vehicle charging.

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