

Company: Sesame Solar, Jackson, MI
Company Description: Sesame Solar developed the world’s first Renewable Mobile Nanogrid to address our society’s need for an easy-to-use, sustainable way to quickly get reliable power and help to people after catastrophic events, while also providing an energy solution for expeditionary and off-grid power needs. Powered by solar + green hydrogen + battery storage, and easily set up by 1 person in <15 minutes.
Nomination Category: Company / Organization Categories
Nomination Sub Category: Company of the Year - Energy - Small
Nomination Title: Sesame Solar



1. Which will you submit for your nomination in this category, a video of up to five (5) minutes in length about the achievements of the nominated organization since 1 January 2023, OR written answers to the questions for this category? (Choose one):
- Written answers to the questions
2. If you are submitting a video of up to five (5) minutes in length, provide the URL of the nominated video here, OR attach it to your entry via the "Add Attachments, Videos, or Links to This Entry" link above, through which you may also upload a copy of your video.
3. If you are providing written answers for your submission, you must provide an answer to this first question: Briefly describe the nominated organization: its history and past performance (up to 200 words):

Total 179 words used.

After witnessing the devastation of Hurricane Katrina and the increasing frequency of extreme weather events, Lauren Flanagan was inspired to co-found Sesame Solar, makers of the world's first 100% Renewable Mobile Nanogrid—an easy-to-use, sustainable way to quickly get reliable power and help to people after catastrophic events, while also providing an energy solution for expeditionary and off-grid power needs. Powered by solar + green hydrogen + battery storage, and easily set up by 1 person in <15 minutes, Sesame Nanogrids provide a continuous loop of reliable, renewable energy, ensuring energy independence for a variety of off-grid power needs including medical centers, communication hubs, military operations, clean water stations, EV charging, entertainment productions and more.

Sesame Solar is the first to market with a mobile green hydrogen solution. With the addition of Atmospheric Water Generation, Sesame Nanogrids autonomously generate the water needed to make green hydrogen gas to power the fuel cell, creating complete energy independence, while also providing safe drinking water. The water is made from humidity in the air—no supply chain required—further enhancing sustainability, self-sufficiency and energy resilience.

4. If you are providing written answers for your submission, you must provide an answer to this second question: Outline the organization's achievements since the beginning of 2023 that you wish to bring to the judges' attention (up to 250 words):

Total 250 words used.

- 2025: Sesame expanded efforts in the U.S. military through an alliance with SupplyCore, allowing them to sell Nanogrids to military agencies for off-grid renewable power for mission critical activities.
- 2024: Sesame worked with the U.S. Army Corps of Engineers to deploy the world’s first hydrogen powered, unmanned perimeter security Nanogrid to the U.S. Army’s White Sands Missile Base. A second unit will launch this year at Fort Leonard Wood.
- 2023: Santa Barbara County Office of Emergency Management began using its Mobile Nanogrid Emergency Trailers for emergency response services.
- 2023: Sesame partnered with WaterGen to equip Nanogrids with Atmospheric Water Generation, allowing them to autonomously generate the water needed to make green hydrogen gas to power the fuel cell while also making clean drinking water. The water is made from humidity in the air, then deionized.
- 2023: Sesame partnered with One Commerce to expand its Indo-Pacific region presence.
- 2023: Sesame partnered with the Clean Mobile Power Initiative—a collaborative effort co-founded by Disney, Netflix and RMI, and managed by Third Derivative to help transition the entertainment industry to a zero-emission future.
- 2023 Google Climate Change Cohort graduate.
- 2023: Sesame joined the Clinton Foundation to develop partnerships for off-grid renewable energy and clean water to communities in need, such as Ukraine.
- 2023 Fast Company’s World’s 50 Most Innovative Companies, 2023 TIME Magazine's Best Inventions, 2023 Verizon Climate Resilience winner, 2024 Keeling Curve Prize finalist, 2024 Grist 50 Award, 2024 Inc. Female Founders List, 2024 National Hurricane Conference Outstanding Achievement Award.

5. If you are providing written answers for your submission, you must provide an answer to this third question: Explain why the achievements you have highlighted are unique or significant. If possible compare the achievements to the performance of other players in your industry and/or to the organization's past performance (up to 250 words):

Total 248 words used.

Commercially, demand for off-grid power continues to increase due to a fragile electric grid that is vulnerable to extreme weather. Over a 15 year timeframe (2005-2019), 156 separate billion-dollar weather disasters cost the U.S. \$1.16 trillion in damages. As weather disasters increase each year, the demand for off-grid power options will continue to increase. This also impacts security. The U.S. DoD states that energy is an essential enabler of military capability, and the Department depends on energy-resilient forces and weapon systems to achieve its mission. Complete reliance on fossil fuel supply chains for energy creates vulnerability and economic strain on countries.

Sesame offers a real-time solution to ensure energy resiliency and continuity for communities, government and businesses. By combining complementary forms of renewable energy generation/storage in a 100% closed-loop, carbon-free, reliable energy system, Sesame’s Nanogrids offer weeks of energy autonomy. Powered by solar + green hydrogen + battery storage, and easily set up by 1 person in <15 minutes, Sesame Nanogrids provide energy independence and continuity for a variety of off-grid power needs—anytime, anywhere.

Following through on our mission to provide energy resilience for off-grid power, Sesame integrates green hydrogen systems into our Nanogrids as backup power to the primary solar power, ensuring longer duration self-generating mobile power. Sesame is the first to market with mobile green hydrogen, an integration that addresses one of the key challenges in renewable energy systems: reliability and continuity of power supply, especially when conditions for solar power aren’t ideal.

6. You have the option to answer this final question: Reference any attachments of supporting materials throughout this nomination and how they provide evidence of the claims you have made in this nomination (up to 250 words):

Total 179 words used.

2024 Awards:

Grist 50 List:

<https://www.sesame.solar/blog/grist-50-award-her-companys-mobile-nanogrids-supply-clean-energy-after-disasters>

Women’s Inc Female Founders 250:

<https://www.sesame.solar/blog/lauren-flanagan-makes-inc-2024-female-founders-list-pioneering-change-in-clean-energy>

National Hurricane Conference Achievement Award

<https://www.sesame.solar/blog/lauren-flanagan-2024-outstanding-achievement-award-national-hurricane-conference>

Keeling Curve Prize Global Warming Mitigation Project Finalist

<https://www.sesame.solar/blog/finalist-in-the-2024-keeling-curve-prize>

2023 Awards:

Time’s Best Inventions of 2023: <https://www.sesame.solar/blog/sesame-solar-named-to-times-list-of-the-best-inventions-of-2023>

Fast Company’s World’s 50 Most Innovative Companies (#44/50 and #1 in Rapid Response):

<https://www.sesame.solar/blog/sesame-solar-named-to-fast-companys-annual-list-of-the-worlds-most-innovative-companies-for-2023>

Verizon Climate Resilience Prize:

<https://www.sesame.solar/blog/sesame-solar-named-verizon-climate-resilience-prize-winner>

News Articles:

SupplyCore:

<https://www.sesame.solar/blog/sesame-solar-teams-with-supplycore>

U.S. Army:

<https://www.sesame.solar/blog/engineer-research-and-development-center-celebrates-us-armys-first-hydrogen-powered-nanogrid>

White House Climate Capital Convening:

<https://www.sesame.solar/blog/sesame-solar-at-the-white-house-climate-capital-convening-paving-the-way-for-renewable-solutions>

Clean Mobile Power Initiative:

<https://www.sesame.solar/blog/sesame-solar-joins-third-derivatives-clean-mobile-power-initiative-for-zero-emissions-entertainment>

Clinton Global Initiative:

<https://www.sesame.solar/blog/lauren-flanagan-at-the-2023-clinton-global-initiative-press-briefing>

Forbes article about Atmospheric Water Generation with Sesame Solar:

<https://www.sesame.solar/blog/sesame-solar-and-watergen-partner-on-mobile-nanogrids-that-provide-power-and-drinking-water>

One Commerce Philippines:

<https://www.sesame.solar/blog/sesame-solar-enters-new-market-in-island-nations-through-partnership-with-one-commerce>

Santa Barbara:

<https://www.sesame.solar/blog/santa-barbara-county-unveils-new-nanogrid-emergency-response-trailer>

Videos:

https://www.youtube.com/watch?v=QBe8ksLGP_s4

<https://www.youtube.com/watch?v=t9IN3LDiCTY>

<https://www.youtube.com/watch?v=nfQNSDAQIJQ>

<https://www.youtube.com/watch?v=JNygXwuvubY&>

https://www.youtube.com/watch?v=bBvMH6KI_iw

https://www.youtube.com/watch?v=XjaO9J_oPMM

Podcasts:

<https://www.sesame.solar/blog/whos-saving-the-planet-podcast>

<https://www.sesame.solar/blog/empowering-women-in-tech-lauren-flanagans-journey-to-a-greener-future>

Attachments/Videos/Links:

[Sesame Solar](#)

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