

Powering the future: MOSH-1 bringing mobile solar power solutions

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(SHAWN BRYAN | CONTRIBUTED PHOTO) The MOSH-1 was developed in Graham and serves as an off-grid solar container system which can be used for a number of applications. The idea came from three local Graham residents who spent the last year meeting with interested parties across the nation.

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The vision of three individuals in Graham has spawned national interest as the MOSH-1 off-grid solar container system looks to provide versatile solutions for the future of power.

The company's mission is to provide sustainable clean energy meeting electrical needs in remote areas where no electrical infrastructure exists, or in a disaster situation. MOSH-1 utilizes a minimum of 22,000 watts of off-grid solar power that is stored in internal batteries.

"We've made XCaliber (Containers) a manufacturing partner, so they're going to be doing some of the outfitting on the insides. (MOSH is) ...a 22,000-watt, remote control hydraulic system on a container that can be outfitted for anything from a mobile medical center to a mobile command center to triage to law enforcement (and) military," Shawn Bryan, one of the MOSH-1 founders, said. "...Mosh is 100% power all the time. It runs 24/7 (and) it never turns off and it never touches diesel order generators."

The container system is outfitted with Starlink satellites so they can bring communication and power to areas. Not only do the units provide power, but they can arrive at a location ready and charged.

"As it's going down the road, it's charging itself. So once it gets on scene, it's already at a full charge," Bryan said. "But it has the ability to distribute power out. ...It's sunlight, so it just keeps (harvesting) and then at night time the batteries will take over. Then come morning, the sun recharges the batteries as it's distributing power evenly to whatever MOSH is being needed for. But simultaneously, you're able to work inside."

MOSH-1 was staged in New Smyrna Beach, Florida, but as tornadoes hit St. Lucie, the group headed there to help with the relief efforts. While stopped in Daytona Beach, Florida the company was able to use MOSH-1 to power a restaurant that served food to those in need.

"They were able to serve food to people and they weren't even charging. They were giving away the food for free," Bryan said. "So while we were waiting on our orders as to what department was taking Mosh, we decided to plug them in and help them serve food and that was a really, really cool deal."

The concept for the project came around a year ago when Skidmore and Bryan were discussing providing a power solution for the oil industry that blew up once they hit the research and development phase.

"We realized ...this isn't just for the oil industry. ...We were able to come up with some designs. We designed a trailer that stays lower to the ground than the conventional semi truck trailer, and the rest was history," Bryan said. "It was really just a brainstorming idea of how to integrate back into Graham because I'm in the solar business and we had to move back here. ...It was just one of those thoughts that God gave us, and we started playing with it and next thing you know, Roger, Erika and I flew to D.C. to sit with a board of Navy admirals and captains and explain to them what we have done."

The company has spent the last six to eight months traveling for meetings from Washington D.C. to Los Angeles. The units are built in Graham and keeping production local was something important to those in the company, having deep roots in Graham.

"It's been very important for me and Roger to keep it anchored here because it's something that can help the landscape of Graham. It can help our economy. It can create jobs here," Bryan said. "That's a big pride for both of us, because... (Roger's) family's been here forever and my family's been here forever."