

CASE STUDY: GIVEPOWER FOUNDATION

Supporting Access to Sustainable Clean Water with Quality Solar Resource Data

How SolarAnywhere® helps GivePower efficiently design affordable, right-sized solar-powered desalinization plants for water-scarce regions

Challenge

GivePower® designs and installs solar PV and battery storage systems to sustainably create access to clean water where it's needed around the world. A single Max Solar Water Farm—a solar-powered desalinization system—can produce up to 75,000 liters of safe water per day, and each system is designed to last for 20 years. GivePower's Solar Water Farms fit within a shipping container, making transport to remote locations easier.

When using publicly-available weather data during the design phase, solar energy yields were difficult to assess given the level of uncertainty. As a result, early Solar Water Farms were sometimes oversized, making them more expensive to fund and harder to build in remote locations.

Solution

To reduce the time spent analyzing public weather data and improve the design process, the GivePower team needed reliable, high-quality solar data. GivePower approached Clean Power Research about using SolarAnywhere® due to its reputation for accuracy and coverage across remote regions where ground-based measurements are unavailable.

Today, GivePower's engineering team uses SolarAnywhere solar resource data to determine project viability and optimize Solar Water Farm designs for specific locations. With SolarAnywhere, GivePower can rely on easy-to-access, accurate, localized data—no matter where the project is located.

Results

With the trust the GivePower engineering team has in SolarAnywhere data, GivePower is able to more confidently design high-production Solar Water Farms that are sized appropriately for the unique requirements of each project. This helps reduce costs while ensuring each Solar Water Farm produces clean water for the community year round. As GivePower expands their reach into new, water-scarce regions, they can rely on SolarAnywhere having the quality, localized data needed to support their life-changing clean-water projects.

SolarAnywhere supports the entire solar lifecycle—from prospecting and development, to asset management and production forecasting. To learn more about industry-leading data and intelligence services from Clean Power Research, [contact us](#).



GivePower is a 501(c)(3) non-profit organization committed to extending the environmental and social benefits of clean, renewable energy around the globe. GivePower uses solar and battery storage technologies to deliver essential services to the developing world, including sustainable access to clean water produced by the organization's award-winning Solar Water Farms.

"I'm proud of GivePower's work in water-scarce regions where we're creating access to sustainably created clean water and empowering people to change their lives. With SolarAnywhere, we have the localized, accurate solar resource data we need to design, transport and build cost-effective Solar Water Farms in remote locations around the world. SolarAnywhere gives us peace of mind, and helps ensure our Solar Water Farms will be operable for years to come."

– Theresa Sweeney, Senior Engineering Manager, GivePower

GivePower has helped bring clean power and clean water to underserved communities in more than 26 countries across Africa, Asia, North America, and Latin America. Visit GivePower at www.givepower.org. Follow GivePower on [Facebook](#), [Instagram](#), and [Twitter](#).