

SunnyRich Group & FIMER: Pioneering sustainable aquaculture with advanced solar solutions

FIMER PVS-120-TL installation in Chiayi, Taiwan for 1100 units



SunnyRich Group, leading company in Taiwan focused on the symbiosis between fishing and solar energy (fishery-electricity symbiosis), is committed to transforming the aquaculture industry, driven by a vision to enhance production efficiency, sustainability, and product quality.

Leveraging its proprietary technologies and extensive experience in integrating large-scale photovoltaic systems with ultra-high voltage facilities, SunnyRich Group has pioneered **the world's largest single-area greenhouse SPF non-toxic aquaculture park**.

This innovative park combines advanced greenhouse technical aquaculture with SPF (Specific Pathogen-Free) non-toxic shrimp farming, ensuring a pollution-free, antibiotic-free, and environmentally friendly production environment.

SunnyRich Group's initiatives not only improve yield and efficiency for local fishermen but also modernize traditional aquaculture methods, addressing the long-standing development challenges of fishing communities. Their approach emphasizes symbiotic fishery-electricity integration, creating sustainable energy and aquaculture ecosystems.



Project overview



Located in **Chiayi City, Taiwan**, the project represents a major milestone in large-scale renewable energy deployment within aquaculture environments.

With a total installed capacity of **132 MW**, the plant is designed according to the innovative **fishery–electricity symbiosis model**, where photovoltaic generation and aquaculture activities coexist in a mutually beneficial ecosystem.

1,100 FIMER PVS-120-TL string inverters have been specifically selected to ensure high efficiency, operational stability, and long-term reliability in this unique operating environment.

The PVS-120-TL architecture enables optimized energy conversion and flexible system design, supporting the large-scale photovoltaic infrastructure integrated within the aquaculture facilities.

The system configuration allows the solar installation to generate substantial clean energy while simultaneously preserving the functionality of the aquaculture operations below the PV structures. This approach maximizes land-use efficiency and contributes to the creation of a sustainable production model that integrates renewable energy generation with modern shrimp farming practices.

FIMER **PVS-120-TL** plays a crucial role in these demanding environments, maintaining stable performance under high humidity and harsh symbiotic aquaculture conditions.

Its robustness and reliability perfectly support Sunnyrich Group's mission to deliver premium, non-toxic shrimp and advance greenhouse technical aquaculture on a global scale.

FIMER is proud to be a long-term partner of Sunnyrich Group.

Together, Sunnyrich Group and FIMER are redefining sustainable aquaculture—where cutting-edge solar technology meets innovative, eco-friendly seafood production.

Product overview



PVS-100/120-TL is FIMER's cloud connected three-phase string solution for cost efficient decentralized photovoltaic systems. This platform, for extreme high power string inverters with **power ratings up to 120 kW**, maximizes the ROI for decentralized ground mounted and large rooftop applications. With up to **six MPPT**, energy harvesting is optimized even in shading situations.

The extreme high power module saves installation resources as less units are required. Due to its compact size further savings are generated in logistics and in maintenance.

Thanks to the integrated DC/AC disconnection, 24 string connections, fuses and surge protection no additional boxes are required. Standard wireless access from any mobile device makes the configuration of inverter and plant easier and faster.

Improved user experience thanks to a build in User Interface (UI) enables access to advanced inverter configuration settings. The installer mobile APP, available for Android/iOS devices, further simplifies multi-inverter installations.



About FIMER

FIMER is a brand owned by MA Solar Italy and a leading manufacturer of renewable energy solutions. The Company, specializing in the production of solar inverters, offers a wide range of solutions designed for any application. With local training centers, 2 production sites, one in Italy and one in India, FIMER is close to its customers in the evolving dynamics of the energy sector.

For further information visit www.fimer.com and follow us on our social channels:



About Sunnyrich Group

SunnyRich Group promotes local revitalization, rebuild fishing villages, and attract young farmers to return to their hometowns. They fully support and lead the development of Taiwan's composite fishery-electricity symbiosis industry. The Company wants to create a brand-new ecosystem for the aquaculture industry of next generation through greenhouse anti-disease technical aquaculture.