Tigo Energy Customer to Deploy Brazil’s Largest Floating Solar Plant With 97,200 Optimizers

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With eighteen solar islands, Brazil's largest floating solar installation will use Tigo TS4-X-O MLPE devices for optimization, module-level monitoring, and safety.

TOCANTINS, Brazil--(BUSINESS WIRE)--Oct. 30, 2024-- Tigo Energy, Inc. (NASDAQ: TYGO) ("Tigo"), a leading provider of intelligent solar and energy software solutions, announced today that solar development company, Apollo Flutuantes, will deploy 97,200 Tigo optimizers, including the Tigo TS4-X-O MLPE line, in Brazil's largest floating solar plant. The project, scheduled for completion in December 2025, will be located on the Lajeado Hydroelectric Power Plant reservoir in Tocantins, Brazil. The floating solar project marks a milestone in Brazil’s renewable energy landscape, which ranks eighth globally for solar electricity generation, with projections for continued growth.

This press release features multimedia. View the full release here: https://www.businesswire.com/news/home/20241030137337/en/



Apollo Flutuantes recently demonstrated a model of the future floating solar project site, which will feature Tigo Energy TS4-X-O devices for optimization, monitoring, and safety. (Graphic: Business Wire)

The project, designed and installed by Apollo Flutuantes, includes innovations like novel, high-albedo platforms that optimize light reflection to maximize backside energy output of the system’s bifacial modules. The project will feature the recently released Tigo TS4-X-O MLPE devices, with plug-and-play support for solar modules up to 800W at 25A. This allows the eighteen solar islands to demonstrate the potential of floating solar to leverage Brazil's vast rivers and water resources for solar energy generation while minimizing land use and maximizing energy production. As AE Power, Apollo Flutuantes, and Tigo Energy come together to bring this ambitious vision to life, the Lajeado floating solar plant sets a new standard in innovation for clean energy projects, paving the way for the growth of solar energy in Brazil.

“The optimization technology from Tigo is crucial to this project because we need electrical safety on the water because it allows us to get the absolute most energy production out of the bifacial modules and because we can see exactly what is happening on each of the modules,” said José Alves Teixeira Filho, CEO at Apollo Flutuantes. “With rapid shutdown through optimizer technology, we can isolate specific portions of the system to safely address issues without having to shut the entire operation down. This project serves as an important example to replicate across Brazil as our solar installations and ambitions get bigger and bigger.”

The Tigo TS4-X line empowers installers with the flexibility to deploy high-power modules up to 800W. Designed for commercial, industrial, and utility-scale projects, these solutions feature Tigo patented technology with wireless and PLC communications and pair with a wide range of third-party inverters. With safety, monitoring, and optimization features, the TS4-X series provides both versatility and efficiency, ensuring optimal performance for energy-critical sectors.

“This project brings yet another large-scale Tigo system into our portfolio, joining hundreds of monitored systems between 500kW and 5MW for which customers get the highest resolution insights,” said Jing Tian, chief growth officer at Tigo Energy. “As both the size and number of solar systems increase, the amount of data they produce requires advanced monitoring and analysis software from Tigo. We are honored to serve AE Power, Apollo Flutuantes, and the entire Brazilian market in this capacity.”

The Apollo Flutuantes project joins hundreds of MW-plus Tigo module-level monitoring customers. To learn more about Apollo Flutuantes and the Lajeado reservoir project, please read the case study here, and watch this video. To learn more about the Tigo TS4-X family of high-power MLPE devices, please visit www.tigoenergy.com/ts4-x.

About Tigo Energy

Founded in 2007, Tigo Energy, Inc. (Nasdaq: TYGO) is a worldwide leader in the development and manufacture of smart hardware and software solutions that enhance safety, increase energy yield, and lower operating costs of residential, commercial, and utility-scale solar systems. Tigo combines its Flex MLPE (Module Level Power Electronics) and solar optimizer technology with intelligent, cloud-based software capabilities for advanced energy monitoring and control. Tigo MLPE products maximize performance, enable real-time energy monitoring, and provide code-required rapid shutdown at the module level. The company also develops and manufactures products such as inverters and battery storage systems for the residential solar-plus-storage market. For more information, please visit www.tigoenergy.com.

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