



OPTIMIST SOLAR + STORAGE POWER PLANT

Project Highlights

- **Project Name:** Optimist Solar + Storage Power Plant
- **Project Type:** Utility Scale Solar + Battery Energy Storage System (BESS)
- **Project Location:** Clay County, Mississippi, USA
- **Project Size:** 200 MW AC | 255 MW DC Estimated Solar + 50 MW BESS
- **Project Operation Date:** Late-2025 (Expected)
- **PV Module Supplier:** Boviet Solar
- **Project Developer:** Origis Energy
- **Project Owner:** Tennessee Valley Authority (TVA), via the Green Invest program

Project Overview

The Optimist Solar + Storage Power Plant is a 200 MW AC (~255 MW DC) utility-scale solar facility paired with a 50 MW battery energy storage system (BESS), strategically located in Clay County, Mississippi. Developed by Origis Energy and powered by Boviet Solar's top-performing PV modules, the project will be owned and operated by the Tennessee Valley Authority (TVA) under its Green Invest program.

Once operational in late-2025, Optimist Solar will generate enough clean energy to power ~40,000 homes annually, while the integrated BESS enhances grid reliability by storing and dispatching electricity during peak demand. The project delivers wide-ranging benefits: economically, it brings jobs, tax revenues, and community investment; socially, it supports TVA's sustainability goals, workforce development, and community pride; and environmentally, it offsets 285,000 metric tons of CO₂ annually, conserves 260 million gallons of water, and eliminates over 315 million pounds of coal burned each year.

Economic Benefits

The Optimist Solar + Storage project delivers a multimillion-dollar investment to Clay County and Mississippi. It will create hundreds of construction jobs, support long-term O&M employment, and generate millions in local tax revenues that will strengthen schools, healthcare, and infrastructure. Once operational, the plant is expected to produce ~455,000 MWh of clean electricity annually, enough to power ~40,000 homes. Landowners will also benefit from stable lease payments, while local businesses gain opportunities through procurement and service contracts, ensuring that the project's economic value is distributed widely.

Social Benefits

The Optimist Solar + Storage project enhances grid reliability for TVA's 10 million customers by combining solar generation with battery storage, allowing renewable energy to be dispatched during periods of peak demand. The project will also support workforce training programs, providing residents with valuable skills in renewable energy and advanced storage technologies. As one of Mississippi's largest clean energy investments, Optimist Solar builds community pride, positions Clay County as a renewable energy leader, and highlights the success of public-private partnerships under TVA's Green Invest program.

Environmental Benefits (Estimated)

Optimist Solar will offset approximately 285,000 metric tons of CO₂ annually, equal to removing 62,000 gasoline-powered cars from the road or planting 4.7 million trees. The facility will also eliminate the burning of more than 315 million pounds of coal annually, improving regional air quality and reducing harmful emissions. In addition, the project will conserve ~260 million gallons of water each year, avoiding the water-intensive cooling processes associated with fossil-fuel generation. With its integrated 50 MW BESS, Optimist enhances the flexibility and resilience of TVA's clean energy grid, amplifying its environmental and climate benefits.

BOVIET SOLAR

Boviet Solar is a leading solar technology company founded in 2013 in Vietnam, specializing in the manufacturing of high-performance monocrystalline PV cells and premium Gamma Series™ monofacial and Vega Series™ bifacial PV modules. Our top-performing modules are engineered for a wide range of applications, including residential, commercial, industrial, community, and utility-scale solar projects.

Boviet Solar combines business acumen, financial strength, technological expertise, and manufacturing excellence to deliver reliable, high-efficiency solar solutions to industry clients worldwide. The company is deeply committed to sustainability, supply chain traceability, and compliance with international trade standards, while fostering long-term, trust-based partnerships across the global energy sector. Boviet Solar has earned industry-wide recognition for quality and reliability. The company has maintained a Tier 1 PV Module Manufacturer ranking by Bloomberg New Energy Finance (BNEF) since 2017, has been recognized as one of the Top 10 Most Bankable Global PV Module Manufacturers by Wood Mackenzie, and is ranked among the Top 10 Most Financially Reliable PV Module Manufacturers by Sinovoltaics. Boviet Solar's modules have also been consistently rated as Top Performers in Kiwa PVEL's PV Module Reliability Scorecard since 2019.

Headquartered in Vietnam, Boviet Solar operates manufacturing facilities in both Vietnam and the United States. The company also maintains regional operations in the United States, Germany, and other key international markets. To learn more, visit www.bovietsolar.com.