



SHALLOW BASKET SOLAR AND STORAGE POWER PLANT

Project Highlight

- **Project Name:** Shallow Basket Solar + Storage Power Plant
- **Project Type:** Utility-Scale Solar + Battery Energy Storage System (BESS)
- **Project Location:** Rio Arriba County, New Mexico, USA
- **Project Size:** 140 MW AC Solar + 50 MW BESS (grid-scale)
- **Project Operation Date:** August 2025
- **PV Module Supplier:** Boviet Solar
- **Project Developer:** National Renewable Solutions (NRS), with land leased from the Jicarilla Apache Nation
- **Project Owner:** National Renewable Solutions (NRS)

Project Overview

The Shallow Basket Solar + Storage Project is a landmark 140 MW AC utility-scale solar facility paired with a 50 MW battery energy storage system, located in Rio Arriba County, New Mexico, on land leased from the Jicarilla Apache Nation. Developed and owned by National Renewable Solutions (NRS) and powered by Boviet Solar's top-performing PV modules, the project entered commercial operation in August 2025. Electricity is delivered through Guzman Energy under long-term wholesale agreements, serving customers.

The project delivers wide-ranging benefits. Economically, it represents a \$145 million investment, created over 250 construction jobs, and provides long-term lease revenues for the Jicarilla Apache Nation while generating enough clean electricity to power more than 38,000 homes annually. Socially, it strengthens energy sovereignty for the Jicarilla Apache Nation, supports workforce development in renewable energy, and enhances energy reliability for communities across northern New Mexico. Environmentally, it offsets approximately 142,200 metric tons of CO₂ emissions annually, eliminates thousands of tons of coal use, and conserves nearly 177.5 million gallons of water while integrating a 50 MW battery system to reduce reliance on fossil peaker plants.

Economic Benefits

The Shallow Basket Solar + Storage Project brought \$145 million in private investment to New Mexico, supported by a financing package closed in late 2024. Construction created approximately 250 local jobs, boosting demand for housing, food services, and equipment suppliers, while ongoing operations will continue to support skilled employment and service contracts. The project provides long-term lease and royalty revenues to the Jicarilla Apache Nation, strengthening tribal infrastructure and community development initiatives. Economically, the facility also delivers significant energy value by producing 355,000 MWh of renewable electricity annually, enough to power more than 38,000 homes each year. By reducing exposure to volatile fossil fuel markets, the project provides energy cost stability for cooperative members and tribal communities while reinforcing New Mexico's clean energy economy.

Social Benefits

The Shallow Basket strengthens the energy independence and economic empowerment of the Jicarilla Apache Nation, whose sovereign lands host the facility. The project provides affordable, reliable clean energy through Guzman Energy to tens of thousands of homes, schools, and businesses across northern New Mexico. It enhances local workforce capabilities by creating jobs in solar and storage technology and fosters long-term sustainability by positioning the Jicarilla Apache Nation as a pioneer in tribal-led renewable development.

Environmental Benefits (Estimated)

The Shallow Basket Solar + Storage Project produces approximately 355,000 MWh of clean electricity annually, offsetting an estimated 142,200 metric tons of CO₂ emissions each year. This reduction is equivalent to removing more than 30,000 gasoline-powered cars from the road or planting approximately 2.3 million trees. By displacing fossil-fuel-based electricity, the project also eliminates thousands of tons of coal consumption annually while conserving nearly 177.5 million gallons of water (672 million liters) that would otherwise be consumed by thermal power plants. The integration of a 50 MW battery energy storage system further strengthens environmental performance by maximizing solar utilization, reducing

reliance on fossil peaker plants, and ensuring renewable energy availability during peak demand periods and evening hours.

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.