



RUFF SOLAR POWER PLANT

Project Highlights

- **Project Name:** Ruff Solar Power Plant
- **Project Type:** Utility-Scale Solar
- **Project Location:** Ellenboro, Rutherford County, North Carolina, USA
- **Project Size:** 32 MW DC
- **Project Operation Date:** July 27, 2020
- **PV Module Supplier:** Bovie Solar
- **Project Developer:** Cypress Creek Renewables (CCR)
- **Project Owner:** Helios Infrastructure (Nationwide + Sol Systems JV)

Project Overview

Ruff Solar is a 32 MWdc utility-scale PV facility in Ellenboro, North Carolina. Developed by Cypress Creek Renewables with Bovie Solar's top-performing PV modules and placed into service on July 27, 2020, the project delivers power into the Duke Energy Carolinas network. At COD, ownership transferred to Helios Infrastructure (the Nationwide + Sol Systems JV), with CCR continuing in an O&M role.

The Ruff solar power plant offers many economic, social and environmental benefits. Economically, Ruff Solar creates local skilled-trade jobs and stable property-tax revenue; the plant generates about ~48 GWh of electricity per year, enough to power ~3,700 North Carolina homes, providing cost-stable, in-state energy. Socially, the project advanced through transparent county and utility coordination, supports workforce pipelines (apprenticeships and O&M upskilling), and serves as a visible platform for community energy-literacy and STEM engagement. Environmentally (estimated), annual output avoids roughly ~23,000 metric tons of CO₂, comparable to removing ~5,000 cars or planting ~820,000 trees each year; it also saves ~24 million gallons of water annually versus thermoelectric generation and displaces ~24,000 tons of coal per year on an energy-equivalent basis.

Economic Benefits

Ruff Solar stimulated local construction employment across civil, electrical, and mechanical trades, with additional spending on regional suppliers, transport, lodging, and services. In operation, the facility contributes predictable property tax revenues and cost-stable energy to the region. Metered history compiled by Sol Systems indicates ~48 GWh/year of generation, which equates to powering ~3,700 homes using standard household-consumption assumptions.

Social Benefits

The project followed county siting review and utility interconnection processes typical for North Carolina's utility-scale fleet, enabling a community-friendly deployment. Ruff Solar supports workforce development, from electrician apprenticeships to solar O&M careers, and provides a practical venue for education and outreach on renewable energy, grid reliability, and land stewardship in the Ellenboro area.

Environmental Benefits (Estimated)

Based on ~48 GWh of zero-emission generation annually, Ruff Solar is estimated to avoid ~23,000 metric tons of CO₂ each year, roughly equivalent to removing ~5,000 gasoline cars from the road or planting ~820,000 trees, while saving ~24 million gallons of water per year compared with thermoelectric generation and displacing ~24,000 tons of coal annually on an energy-equivalent basis; vegetation management with native/pollinator-friendly species further supports soil health, habitat value, and overall biodiversity.

BOVIET SOLAR

Bovie Solar, an Inox Solar Americas company, is a solar energy technology and manufacturing company focused on delivering high-performance photovoltaic (PV) modules for the U.S. market. Its portfolio includes Gamma Series™ monofacial and Vega Series™ bifacial PV modules, designed for utility-scale,

community solar, commercial, and industrial (C&I), and residential applications, with a focus on reliability, efficiency, and long-term performance.

The company operates a state-of-the-art manufacturing facility in Greenville, North Carolina, with approximately 3.0 GW of annual production capacity. This U.S.-based production supports localized supply, efficient logistics, and alignment with project timelines and market requirements.

As part of Inox Solar Americas, Boviet Solar benefits from enhanced financial backing and integration within a broader renewable energy platform under Inox Clean Energy and the INOXGFL Group. This strengthens its ability to support compliant, financeable, and scalable solar projects while maintaining consistent execution and product performance.

Boviet Solar works closely with developers, EPCs, and asset owners to deliver projects on time and support long-term performance. The company remains committed to advancing clean energy by providing dependable solutions that enable customers to build and operate projects with confidence.

To learn more, please visit www.bovietsolar.com, www.inoxclean.com, www.inoxgfl.com