An Inox Solar Americas Company

BOVIET SOLAR I PV MANUFACTURING I OVERVIEW

POWERING A SUSTAINABLE FUTURE

Advanced Manufacturing. Precision Engineering. Dependable Quality

Boviet Solar, an Inox Solar Americas company, manufacturing excellence is the cornerstone of the company's commitment to delivering dependable, high-performance photovoltaic (PV) solutions. As a U.S.-headquartered manufacturer of photovoltaic (PV) cells and PV modules, Boviet Solar combines advanced manufacturing technologies, precision engineering, continuous innovation, and operational excellence to produce bankable solar products that consistently exceed industry standards for quality, performance, reliability, and long-term value.

The company's manufacturing philosophy is built on precision, consistency, and continuous improvement. Every PV cell and PV module is produced using standardized manufacturing processes, intelligent automation, digital manufacturing systems, and rigorous quality management to ensure manufacturing consistency, product traceability, and exceptional field

performance. This disciplined approach enables Boviet Solar to deliver dependable photovoltaic solutions that help customers reduce project risk, maximize energy production, and achieve superior long-term investment returns.

Boviet Solar manufactures high-efficiency N-Type monocrystalline PV cells and premium Gamma Series™ Monofacial and Vega Series™ Bifacial PV modules utilizing advanced half-cut cell architecture, multi-busbar technology, and bifacial glass-glass construction. These advanced technologies improve module efficiency, increase energy yield, enhance durability, and deliver outstanding long-term performance across residential, commercial, industrial, community solar, and utility-scale applications.

As a manufacturer of both PV cells and PV modules, Boviet Solar maintains greater control over technology integration, manufacturing quality, product consistency, and supply chain reliability. Advanced manufacturing automation, Manufacturing Execution Systems (MES), digital production monitoring, automated inspection technologies, and complete product traceability ensure every module is manufactured with precision while maintaining the highest standards of quality and operational efficiency.

Quality is embedded throughout every stage of the manufacturing process. Comprehensive quality assurance procedures—including incoming material inspection, electroluminescence (EL) imaging, IV curve testing, flash testing, Hi-Pot electrical safety testing, mechanical load testing, environmental stress testing, visual inspection, and final product verification ensure every module meets rigorous performance, safety, and reliability standards before shipment.

Boviet Solar's manufacturing operations are certified to internationally recognized standards, including ISO 9001 (Quality Management), ISO 14001 (Environmental Management), and ISO 45001 (Occupational Health and Safety). The company also adheres to the SEIA Supply Chain Traceability Protocol and supports the principles of the United Nations Global Compact, reinforcing its commitment to responsible manufacturing, ethical business practices, environmental stewardship, and supply chain transparency.

Independent third-party validation further demonstrates Boviet Solar's manufacturing excellence. The company's manufacturing facilities, products, and quality systems have been independently assessed by globally recognized organizations including Black & Veatch, Kiwa PVEL, and TÜV SÜD, consistently earning recognition for manufacturing quality, product reliability, long-term durability, and bankability. These independent validations provide developers, EPC contractors, utilities, project owners, financiers, and investors with additional confidence in Boviet Solar's products and manufacturing capabilities.

U.S. MANUFACTURING PLATFORM

Boviet Solar continues to strengthen America's clean energy manufacturing ecosystem through strategic investment in domestic production, advanced manufacturing technologies, workforce development, and supply chain resilience. Located in Greenville, North Carolina, the company's manufacturing campus represents one of the largest recent investments in U.S. photovoltaic manufacturing and reinforces its long-term commitment to expanding domestic clean energy production.

Phase I | PV Module Manufacturing

Phase I consists of a 500,000+ square-foot state-of-the-art PV module manufacturing facility that officially began commercial production on April 24, 2025, representing an investment of approximately $294 million. Designed with advanced automation, intelligent manufacturing systems, precision quality control, and digital production technologies, the facility is capable of producing up to 3.0 GW of premium PV modules annually, including the company's Gamma Series™ Monofacial and Vega Series™ Bifacial product families.

The facility supports residential, commercial, industrial, community solar, and utility-scale markets while improving domestic manufacturing capacity, strengthening supply chain resilience, reducing delivery times, and supporting domestic content requirements throughout North America.

Phase II | PV Cell Manufacturing

Phase II expands Boviet Solar's domestic manufacturing capabilities through the development of a 600,000-square-foot PV cell manufacturing facility located adjacent to the PV module plant in Greenville. Scheduled to begin production in Q4 2027, the facility will manufacture advanced N-Type monocrystalline PV cells with an initial annual production capacity of 3.0 GW.

Upon completion, the Greenville campus will provide a vertically integrated U.S. manufacturing platform that strengthens domestic supply chains, enhances manufacturing flexibility, supports domestic content initiatives, and delivers greater value to developers, EPC contractors, utilities, distributors, and investors.

Boviet Solar's manufacturing platform incorporates advanced automation, digital manufacturing systems, Manufacturing Execution Systems (MES), real-time production monitoring, automated material handling, AI-assisted quality inspection, and comprehensive production analytics. These Industry 4.0 technologies improve manufacturing efficiency, increase production consistency, optimize quality control, and enable continuous process improvement throughout the manufacturing lifecycle.

Lean manufacturing principles standardized operating procedures, statistical process control, predictive maintenance, and continuous improvement initiatives further enhance manufacturing performance while ensuring exceptional product quality and operational efficiency.

A resilient and diversified supply chain enables Boviet Solar to provide dependable product availability, manufacturing flexibility, reduced supply risk, and responsive customer support. Comprehensive supplier qualification, responsible sourcing, raw material verification, supply chain traceability, and strategic logistics management ensure reliable product delivery while supporting domestic manufacturing initiatives and evolving market requirements.

By manufacturing both PV cells and PV modules, Boviet Solar enhances vertical integration, improves production coordination, increases supply chain resilience, and provides customers with greater confidence in product availability and long-term project execution.

Continuous investment in research and development, manufacturing innovation, process engineering, and product validation drives Boviet Solar's technology leadership. The company continuously advances N-Type monocrystalline photovoltaic technologies, manufacturing processes, materials engineering, and product reliability to improve efficiency, increase energy yield, enhance durability, and maximize long-term system performance.

These innovations enable customers to benefit from cutting-edge photovoltaic technology while improving project economics, lowering the Levelized Cost of Electricity (LCOE), and maximizing lifetime Return on Investment (ROI).

Advanced manufacturing is more than production capacity it is the foundation of dependable product quality, long-term reliability, bankability, and customer confidence. Through precision engineering, intelligent automation, rigorous quality management, and continuous innovation, Boviet Solar delivers photovoltaic solutions that reduce project risk, improve asset performance, and maximize long-term investment value.

Supported by experienced engineering, technical, commercial, and customer service teams, Boviet Solar provides comprehensive support throughout every phase of the project lifecycle—

from product selection and engineering consultation to logistics, commissioning, warranty services, and long-term operational support.

As part of Inox Solar Americas and the INOXGFL Group, Boviet Solar combines advanced manufacturing, financial strength, operational excellence, and responsible business practices to deliver dependable, bankable photovoltaic solutions that strengthen America's clean energy supply chain and accelerate the transition toward a more resilient and sustainable energy future.

REGIONAL IMPACT | Driving Economic Growth & Sustainable Development

Boviet Solar's Greenville manufacturing campus creates lasting economic, social, and environmental value by strengthening domestic manufacturing, creating skilled employment opportunities, supporting regional businesses, and advancing America's clean energy economy.

Economic Impact

- More than $394 million in total investment across Phase I and Phase II.
- Up to 6.0 GW of annual U.S. manufacturing capacity (PV modules and PV cells).
- Approximately 1,300 direct high-quality jobs across manufacturing, engineering, quality, logistics, maintenance, and administration.
- Hundreds of additional indirect and induced jobs supported through suppliers, contractors, transportation providers, and regional service industries.
- Increased local procurement, manufacturing investment, infrastructure development, and long-term regional economic growth.

Workforce & Community

- Creation of high-skilled manufacturing and engineering careers.
- Partnerships with regional universities, technical colleges, and workforce development organizations.
- Investment in technical training, apprenticeships, STEM education, and clean energy workforce development.
- A workplace culture centered on safety, inclusion, continuous learning, and operational excellence.

Environmental Leadership

- Expanded production of American-manufactured photovoltaic technology supporting domestic clean energy deployment.
- Strengthened domestic supply chains and improved U.S. energy security.
- Responsible manufacturing practices focused on energy efficiency, waste reduction, resource conservation, and environmental stewardship.
- Long-term commitment to sustainable manufacturing, responsible sourcing, recycling initiatives, and continuous environmental improvement.

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Boviet Solar, an Inox Solar Americas company founded in 2013, is a leading solar technology company specializing in the manufacturing of advanced monocrystalline Galaxion N-Type™ PV cells and premium Gamma Series™ monofacial and Vega Series™ bifacial PV modules. Boviet Solar's top-performing PV modules are engineered for a wide range of applications, including residential, commercial, industrial, community solar, 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 customers across the renewable energy industry. The company is strongly committed to sustainability, supply chain traceability, and compliance with U.S. and international trade standards while fostering long-term, trust-based partnerships throughout the energy sector. Boviet Solar has earned broad industry recognition for quality, reliability, and operational performance.

Boviet Solar has received multiple global bankability recognitions from leading independent research and analytics organizations. The company has been consistently ranked as a Tier 1 PV Module Manufacturer by Bloomberg New Energy Finance (BNEF) since 2017, recognized among Wood Mackenzie's A-Class Bankable Global PV Module Manufacturers since 2024, and listed among Sinovoltaics' Top 10 Most Financially Stable PV Module Manufacturers since 2024. In addition, TeraWatt PV has ranked Boviet Solar as Global Silver plus PV Module manufacturer, while Kiwa PVEL has recognized the company's products as Top Performers in its PV Module Reliability Scorecard since 2019. Collectively, these distinctions reinforce Boviet Solar's strong bankability, financial resilience, manufacturing credibility, and long-term reliability.

Boviet Solar operates its U.S. PV module and PV cell manufacturing facility in Greenville, North Carolina, supporting domestic solar deployment through localized production, supply chain stability, and efficient logistics. As an Inox Solar Americas company, Boviet Solar operates within a broader renewable energy platform under Inox Clean Energy and the INOXGFL Group, strengthening the company's long-term positioning, operational stability, and alignment with evolving U.S. market, policy, and regulatory requirements.

For more information, please visit www.bovietsolar.com, www.inoxclean.com, www.inoxgfl.com