



BEDRA ALLOY MATERIALS FACTORY

Project Highlights

- **Project Name:** Bedra Alloy Materials Factory
- **Project Type:** Industrial Solar I Rooftop System
- **Project Location:** Bac Giang, Vietnam
- **Project Size:** 6.0 MW DC
- **Project Commissioning Date:** March 2025
- **PV Module Supplier:** Boviet Solar
- **Project Developer/Installer:** Boviet Solar
- **Project Owner:** Bedra Alloy Materials

Bedra Alloy Materials

Bedra Alloy Materials is a global leader in non-ferrous metals and advanced alloy solutions, and a core subsidiary of the Boway Group, an international enterprise with diversified operations across materials engineering, precision manufacturing, and industrial innovation. Bedra specializes in the production of high-performance copper, alloy wires, rods, and specialty materials that are essential to industries such as electronics, automotive, telecommunications, renewable energy, and advanced manufacturing.

Project Overview

The Bedra Alloy Materials Factory solar system is a 6.0 MW DC ground-mounted installation located in Bac Giang, Vietnam. Developed, installed, and powered by Boviet Solar, the system supplies clean renewable electricity directly to Bedra Alloy's energy-intensive industrial facility. The Bedra Alloy Materials Factory solar system is a 6.0 MW DC rooftop and ground-mounted installation, powered by Boviet Solar modules and fully grid-tied to supply renewable electricity directly to the facility.

Economically, the system offsets a significant portion of the factory's electricity demand, lowering operating expenses, stabilizing long-term energy costs, and improving financial resilience in a competitive global market. Socially, it demonstrates Bedra Alloy's leadership in corporate sustainability, supports Vietnam's clean energy workforce, and highlights the role of private industry in advancing renewable energy adoption. Environmentally, the system generates approximately 8.76 GWh of clean electricity annually, avoiding about 6,900 metric tons of CO₂ emissions per year. This is equivalent to removing roughly 1,500 cars from the road, planting about 115,000 trees, saving nearly 305 million gallons of water, or eliminating around 7,400 short tons of coal. Over its 25+ year lifespan, the system will prevent more than 172,500 metric tons of CO₂ emissions, significantly reducing the factory's carbon footprint and contributing to Vietnam's long-term climate and renewable energy goals.

Economic Benefits

The Bedra Alloy Materials Factory solar system produces approximately 8.7 GWh of electricity annually, offsetting a large portion of the facility's energy needs. This lowers utility expenses, reduces exposure to volatile energy markets, and provides long-term financial stability. Over its lifetime, the project strengthens fiscal resilience, freeing up capital that can be reinvested into innovation, operations, and workforce development.

Social Benefits

The Bedra Alloy Materials Factory project underscores the company's commitment to sustainability and responsible corporate practices. Developed and installed by Boviet Solar, the project supported local clean-energy employment and advanced technical expertise in Vietnam's solar sector. The initiative sets a benchmark for industrial players in the region, inspiring peer companies to integrate renewable energy into their operations and reinforcing Vietnam's clean energy leadership.

Environmental Benefits (Estimated)

By generating approximately 8.76 GWh of clean electricity annually, the Bedra Alloy Materials Factory solar system avoids about 6,900 metric tons of CO₂ emissions each year. This is comparable to removing roughly 1,500 cars from the road, planting over 115,000 trees annually, saving nearly 305 million gallons

of water, or eliminating around 7,400 short tons of coal. Over its 25+ year lifespan, the project will prevent more than 172,500 metric tons of CO₂ emissions, significantly reducing the factory's carbon footprint, improving local air quality, and contributing to Vietnam's renewable energy transition and climate action goals.

BOVIET SOLAR

Boviet 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