



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 Technology Co., Ltd. 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, with an annual production capacity of 3.0 GW for PV cells and modules. The company also maintains regional operations in the United States, Germany, and other key international markets. To learn more, visit www.bovietsolar.com.