



NINGBO BOWAY ALLOY MATERIALS FACILITY

Project Highlights

- **Project Name:** Ningbo Boway Alloy Materials
- **Project Type:** Industrial Solar | Rooftop System
- **Project Location:** Ningbo, China
- **Project Size:** 4.0 MW DC
- **Project Commissioning Date:** January 2022
- **PV Module Supplier:** Boviet Solar
- **Project Developer/Installer:** Boviet Solar
- **Project Owner:** Ningbo Boway Alloy Materials

Ningbo Boway Alloy Materials

Ningbo Boway Alloy Materials is a leading Chinese manufacturer of advanced copper and alloy materials, serving global industries including electronics, automotive, telecommunications, renewable energy, and construction. Headquartered in Ningbo, China, the company is a core subsidiary of the Boway Group, an international enterprise specializing in materials engineering and advanced manufacturing. With decades of expertise, Ningbo Boway Alloy Materials integrates state-of-the-art production technologies, precision engineering, and stringent quality systems to deliver high-performance products that meet the evolving needs of international supply chains. Its alloys and specialty materials are widely used in critical applications that power modern infrastructure and technological innovation.

Project Overview

The Ningbo Boway Alloy Materials solar system is a 4.0 MW rooftop and ground-mounted solar installation located in Ningbo, China. Developed and installed by Boviet Solar for Ningbo Boway Alloy Materials, the system delivers renewable electricity directly to the company's advanced alloy manufacturing facilities.

By generating approximately 5.8 GWh of clean electricity annually, the Ningbo Boway Alloy Materials solar system avoids about 5,000 metric tons of CO₂ emissions each year. This reduction is comparable to planting over 83,000 trees annually, saving around 220 million gallons of water, or preventing the burning of approximately 1,370 short tons of coal. Over its 25+ year lifespan, the project will prevent more than 125,000 metric tons of CO₂ emissions, equivalent to permanently removing thousands of gasoline-powered cars from the road. By producing zero emissions during operation, the system reduces the factory's carbon footprint, improves local air quality, and supports China's renewable energy and climate action goals.

Economic Benefits

The Ningbo Boway Alloy Materials solar system produces approximately 5.8 GWh of electricity annually, directly offsetting a major share of the facility's energy-intensive operations. This results in significant reductions in utility expenses, predictable long-term budgeting, and improved financial resilience. Over its operational life, the system strengthens competitiveness and frees up resources that can be reinvested into R&D, workforce development, and new industrial innovations.

Social Benefits

The project reflects Ningbo Boway Alloy Materials' commitment to sustainability and corporate responsibility. Installed by Boviet Solar, the system supported local clean-energy expertise and reinforced the role of industrial companies in advancing China's renewable energy adoption. By leading in clean energy integration, the company sets an example for peers in the alloy and manufacturing sectors, strengthening community and industry engagement around sustainability.

Environmental Benefits (Estimated)

By generating approximately 5.8 GWh of clean electricity annually, the Ningbo Boway Alloy Materials solar system avoids about 5,000 metric tons of CO₂ emissions each year. This is equivalent to planting more

than 83,000 trees annually, saving around 220 million gallons of water, or eliminating the burning of nearly 1,370 short tons of coal. Over a 25+ year lifespan, the project will prevent more than 125,000 metric tons of CO₂ emissions, equivalent to permanently removing over 26,000 passenger cars from the road. The project reduces the factory's environmental footprint, improves local air quality, and supports China's long-term decarbonization 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.