



NOKIAN TYRES FACTORY

Project Highlights

- **Project Name:** Nokian Tyres Manufacturing Facility
- **Project Type:** Carport Solar System
- **Project Location:** Nashville, Tennessee, USA
- **Project Size:** 3.0 MW DC
- **Project Commissioning Date:** March 2023
- **PV Module Supplier:** Bovie Solar
- **Project Developer / Installer:** LightWave Solar
- **Project Owner:** Nokian Tire Company

Nokian Tyres

Nokian Tyres is a global tire manufacturer headquartered in Nokia, Finland, renowned for its high-quality, durable, and sustainable tire solutions. The company designs and produces tires for passenger cars, trucks, and heavy machinery, with a strong focus on safety, innovation, and environmental stewardship. Nokian Tyres' North American manufacturing facility in Dayton, Tennessee, serves as a flagship for its commitment to sustainability and responsible production. The plant integrates advanced manufacturing technologies with renewable-energy solutions, showcasing the company's global strategy to reduce carbon emissions and achieve carbon neutrality across its operations.

Project Overview

This 3.0 MW DC solar carport system was installed at Nokian Tire's advanced manufacturing facility in Nashville, Tennessee. Developed and constructed by LightWave Solar and powered by Boviet Solar's top-performing PV modules, the grid-tied system provides on-site renewable energy to support the facility's production and administrative operations. In addition to generating clean electricity, the solar canopies offer shaded parking for employees and visitors, integrating sustainability with functional design.

The project delivers broad economic, social, and environmental benefits. Economically, it offsets a major portion of the facility's annual power consumption, stabilizing long-term energy costs and strengthening operational resilience. Socially, it underscores Nokian Tire's leadership in sustainable manufacturing and supports local clean-energy employment through LightWave Solar's deployment team. Environmentally, the system generates an estimated 3.9 GWh of renewable electricity annually, avoiding roughly 1,640 metric tons of CO₂ emissions per year—equivalent to planting over 26,000 trees, saving nearly 66 million gallons of water, or eliminating around 1,750 short tons of coal. Over its 25-year lifetime, the project will prevent more than 41,000 metric tons of CO₂, advancing both corporate and regional climate-action goals.

Economic Benefits

The 3.0 MW DC solar array produces approximately 3.9 GWh of clean electricity annually, directly offsetting on-site manufacturing energy use. By lowering utility expenses and providing predictable long-term energy pricing, the project enhances the facility's financial performance and competitiveness. The installation also created numerous local construction and electrical jobs, and ongoing maintenance continues to support Tennessee's clean-energy workforce.

Social Benefits

Nokian Tire's solar initiative demonstrates strong corporate commitment to sustainability and environmental responsibility within the U.S. manufacturing sector. Through its collaboration with LightWave Solar, the project supported local tradespeople, engineers, and installers while inspiring regional businesses to adopt renewable-energy solutions. The solar carport also improves on-site amenities by providing shaded, weather-protected parking, enhancing employee comfort and wellbeing.

Environmental Benefits (Estimated)

By generating roughly 3.9 GWh of renewable energy each year, the system avoids about 1,640 metric tons of CO₂ emissions annually, equivalent to planting more than 26,000 trees, saving 66 million gallons of water, or eliminating approximately 1,750 short tons of coal. Over its operational lifetime, it will prevent

over 41,000 metric tons of CO₂, equal to removing more than 8,600 gasoline-powered cars from the road. The project plays a vital role in reducing Nokian Tire's carbon footprint and supporting Tennessee's transition to clean, renewable energy.

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