



METRO WATER SERVICES

Project Highlights

- **Project Name:** Metro Water Services
- **Project Type:** Municipal Solar I Ground Mount System
- **Project Location:** Nashville, Tennessee, USA
- **Project Size:** 4.2 MW DC (Multi Projects)
- **Project Operation Date:** 2021-2022
- **PV Module Supplier:** Boviet Solar
- **Project Developer:** Lightwave Solar

Metro Water Services (MWS)

Metro Water Services (MWS) is a department of the Metropolitan Government of Nashville and Davidson County, providing safe, reliable drinking water, wastewater, and stormwater management to more than 250,000 customers across the region. MWS is recognized for its innovation in resource conservation and sustainability. By investing in solar energy, the utility has demonstrated its commitment to lowering operational costs, reducing carbon emissions, and building a more resilient and sustainable municipal water infrastructure.

Project Overview

The Metro Water Services Solar Program consists of a portfolio of distributed solar projects totaling 4.2 MW DC, designed and constructed by LightWave Solar and powered by Boviet Solar's top-performing PV modules. The installations include rooftop and ground-mounted solar arrays distributed across multiple MWS facilities in the Nashville area. Together, these systems provide on-site renewable electricity to power energy-intensive water and wastewater treatment operations.

Collectively, the installations generate approximately 6.2 GWh (6,200,000 kWh) of clean electricity annually, offsetting a substantial share of MWS's total power consumption. Economically, the systems reduce long-term energy costs, hedge against rising utility rates, and deliver predictable savings for municipal budgets. Socially, they strengthen Nashville's leadership in sustainability and support Tennessee's growing clean-energy workforce. Environmentally, the portfolio avoids around 2,350 metric tons of CO₂ emissions per year, equivalent to planting 110,000 trees, saving 780,000 gallons of water, or eliminating 2,500 short tons of coal annually.

Economic Benefits

The 4.2 MW DC multi-site solar portfolio produces roughly 6.2 GWh of renewable power each year, significantly reducing electricity costs across MWS's operational facilities. On-site generation enhances financial stability, lowers exposure to energy-price volatility, and supports long-term planning for public infrastructure. Construction of the projects created local engineering, construction, and electrical jobs while ongoing operations continue to sustain maintenance and monitoring roles, contributing to Nashville's clean-energy economy.

Social Benefits

The Metro Water Services solar initiative highlights Nashville's leadership in renewable-energy adoption and sustainable municipal operations. Implemented by LightWave Solar, the program supported local workforce development, created skilled clean-energy jobs, and enhanced community pride in the city's environmental progress. The highly visible installations on public facilities demonstrate how municipalities can lead by example in integrating renewable energy into essential public infrastructure.

Environmental Benefits (Estimated)

Generating approximately 6.2 GWh of clean energy annually, the systems avoid about 2,350 metric tons of CO₂ emissions each year, equivalent to planting 110,000 trees, saving 780,000 gallons of water, or displacing 2,500 short tons of coal. Over their combined 25-year operational life, the projects will prevent

more than 58,000 metric tons of CO₂ emissions, advancing Nashville's citywide climate-action and sustainability 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