



SCHELL BROTHERS SOLAR HOMES

Project Highlights

- **Project Name:** Schell Brothers Solar Homes
- **Project Type:** Residential Solar | Rooftop System
- **Project Location:** Delaware, USA
- **Project Size:** 4.5 kW DC per home × 200 homes (estimated 900 KW)
- **Project Commissioning Date:** June 2018
- **PV Module Supplier:** Boviet Solar
- **Project Installer:** CE USA
- **Project Owner:** Homeowners

Project Overview

The Schell Brothers Solar Homes project is a community-scale deployment of 200 rooftop solar systems across a new residential neighborhood in Delaware. Each home is equipped with a 4.5 kW solar array installed by CE USA and powered by Boviet Solar's high-performance PV modules, delivering a combined system capacity of nearly 900 kW DC.

The project delivers broad benefits. Economically, it enables hundreds of families to lower their monthly electricity bills, protects them from rising utility costs, and enhances long-term property values while leveraging federal and state incentives. Socially, it demonstrates the power of collective residential adoption, supports local clean-energy jobs, and creates a visible example of how planned communities can embrace sustainability. Environmentally, the 200-home project generates approximately 1.28 million kWh of clean electricity annually, avoiding ~1,100 metric tons of CO₂ emissions each year. This is equivalent to planting more than 18,000 trees, saving nearly 48 million gallons of water, or preventing the burning of over 1,200 short tons of coal. Over its 25+ year lifetime, the community-wide solar deployment will prevent more than 27,500 metric tons of CO₂ emissions, significantly reducing the neighborhood's collective carbon footprint while advancing Delaware's clean energy goals.

Economic Benefits

Each 4.5 kW system generates approximately 6,400 kWh annually, resulting in a combined output of 1.28 million kWh per year across all 200 homes. This offsets a substantial portion of household electricity demand, lowering utility expenses, stabilizing energy costs, and creating long-term financial security for participating families. Incentives such as the federal Investment Tax Credit (ITC) and Delaware's state programs made the project more affordable, ensuring rapid adoption across the development. Collectively, the systems will deliver decades of predictable savings and strengthen the financial resiliency of the entire community.

Social Benefits

The Schell Brothers Solar Homes project highlights the positive impact of renewable energy at the community level. Installed by CE USA, the deployment supported local employment opportunities while proving that residential solar can be delivered at scale in planned housing developments. The initiative showcases homeowner leadership in sustainability, encourages neighboring communities to replicate the model, and strengthens Delaware's reputation as a forward-thinking state in renewable energy adoption.

Environmental Benefits

By generating approximately 1.28 million kWh of clean electricity annually, the Schell Brothers Solar Homes project avoids about 1,100 metric tons of CO₂ emissions each year. This reduction is comparable to planting more than 18,000 trees annually, saving nearly 48 million gallons of water, or eliminating over 1,200 short tons of coal. Over its 25+ year lifespan, the project will prevent more than 27,500 metric tons of CO₂ emissions, equivalent to permanently removing over 5,800 passenger cars from the road. The collective deployment reduces the community's environmental footprint, supports climate change mitigation, and contributes to healthier, more sustainable neighborhoods across Delaware.

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.