



GARROW RESIDENCE

Project Highlights

- **Project Name:** Garrow Residence
- **Project Type:** Residential Solar I Rooftop System
- **Project Location:** Texas, USA
- **Project Size:** 4.5 kW DC
- **Project Commissioning Date:** June 2019
- **PV Module Supplier:** Boviet Solar
- **Project Owner:** Garrow Family
- **Project Installer:** Advance Solar & Electric

Project Overview

The Garrow Residence solar system is a 4.5 kW rooftop solar installation located in Texas. Developed and installed by Advance Solar, owned by the Garrow Family, and powered by Boviet Solar's top-performing PV modules, the fully grid-tied system supplies renewable electricity directly to the household.

The project delivers a full spectrum of benefits. Economically, it offsets a significant share of the home's annual electricity consumption, reducing monthly utility expenses, stabilizing long-term budgeting, and providing protection against rising energy costs. Socially, it demonstrates the Garrow Family's leadership in adopting renewable energy, supports local clean-energy employment through Advance Solar, and inspires neighboring households to consider solar adoption. Environmentally, the system generates approximately 6,400 kWh of clean electricity annually, avoiding ~5.5 metric tons of CO₂ each year. This impact is equivalent to planting more than 90 trees, saving around 240,000 gallons of water, or eliminating nearly 6 short tons of coal. Over its 25+ year lifetime, the system will prevent more than 135 metric tons of CO₂ emissions, reducing the family's carbon footprint while improving local air quality.

Economic Benefits

The Garrow Residence solar system produces approximately 6,400 kWh of clean electricity annually, offsetting a substantial portion of the household's daytime energy use. This translates into consistent monthly savings, shielding the family from utility rate volatility and delivering long-term financial stability. At the time of installation, the federal Investment Tax Credit (ITC) and local incentives further improved affordability, making solar energy an attractive investment. Over its operational life, the system strengthens household financial resilience and adds long-term value to the property.

Social Benefits

The Garrow Residence solar system represents the family's proactive commitment to sustainability and community leadership in renewable energy adoption. Installed by Advance Solar, a Texas-based company, the project contributed to local employment while reinforcing the value of supporting regional clean-energy providers. The visible adoption of residential solar energy encourages other families in the community to explore renewable energy solutions, helping to accelerate the clean energy transition at the local level.

Environmental Benefits (Estimated)

By generating approximately 6,400 kWh of clean electricity annually, the Garrow Residence solar system avoids about 5.5 metric tons of CO₂ emissions each year. This reduction is equivalent to planting more than 90 trees annually, saving roughly 240,000 gallons of water, or eliminating nearly 6 short tons of coal. Over the course of its 25+ year lifespan, the system will prevent more than 135 metric tons of CO₂ emissions, equivalent to permanently removing over 28 gasoline-powered cars from the road. The project reduces the household's carbon footprint, supports climate change mitigation, and contributes to cleaner air and healthier communities across Texas.

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.