



OSTERLE RESIDENCE

Project Highlights

- **Project Name:** Oesterle Residence
- **Project Type:** Residential Solar | Rooftop System
- **Project Location:** Texas, USA
- **Project Size:** 18.19 kW DC
- **Project Commissioning date:** May 2015
- **PV Module Supplier:** Boviet Solar
- **Project Installer:** Advance Solar & Electric
- **Project Owner:** Osterle Family

Project Overview

The Oesterle Residence solar system is an 18.19 kW rooftop installation located in Texas. Installed by Advance Solar, owned by the Oesterle 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 provides comprehensive benefits across economic, social, and environmental dimensions. Economically, it offsets a substantial portion of household energy consumption, lowering utility bills, protecting the family from utility rate increases, and adding long-term property value. Socially, it demonstrates the Oesterle Family's commitment to sustainability, supports local clean-energy jobs through Advance Solar, and sets a visible example for residential solar adoption in the community. Environmentally, the system generates approximately 25,900 kWh of clean electricity annually, avoiding about 22 metric tons of CO₂ emissions per year. This is equivalent to planting more than 360 trees, saving roughly 970,000 gallons of water, or eliminating the combustion of nearly 24 short tons of coal. Over its 25+ year lifespan, the system will prevent more than 550 metric tons of CO₂ emissions, contributing directly to Texas's renewable energy transition and long-term climate goals.

Economic Benefits

The Oesterle Residence solar system produces approximately 25,900 kWh of clean electricity each year, offsetting a major portion of the home's annual energy needs. This translates into meaningful reductions in monthly electricity bills and improved household financial security. At the time of installation, the federal Investment Tax Credit (ITC) and potential local incentives improved the system's affordability and accelerated return on investment. Over its lifetime, the project shields the family from rising electricity costs, stabilizes long-term budgeting, and adds value to the property through energy-efficient upgrades.

Social Benefits

The Oesterle Residence solar installation highlights the family's leadership in renewable energy adoption at the residential level. By choosing solar power, the Oesterle Family supports local clean-energy jobs created through Advance Solar, while contributing to the broader culture of sustainability in Texas communities. The system also provides a visible, replicable example of how homeowners can embrace clean energy to enhance resilience, energy independence, and environmental responsibility.

Environmental Benefits (Estimated)

By generating approximately 25,900 kWh of clean electricity annually, the Oesterle Residence solar system avoids about 22 metric tons of CO₂ emissions each year. This reduction is comparable to planting over 360 trees annually, saving about 970,000 gallons of water, or preventing the burning of nearly 24 short tons of coal. Over a 25+ year lifespan, the system will avoid more than 550 metric tons of CO₂ emissions, equivalent to permanently removing more than 115 gasoline-powered cars from the road. The project reduces the household's carbon footprint, improves local air quality, and contributes to healthier communities while supporting long-term climate change mitigation.

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.