ASHLAND COMMUNITY SOLAR

Project Highlights

- Project Name: Ashland Community Solar
- Project Type: Community Solar I Capped Landfill
  Nyanza Chemical Waste Dump Superfund Site
- Project Location: Ashland, Middlesex County, Massachusetts, USA
- Project Size: ~4.6 MWac | ~5.8 MWdc (2 systems)
- Project Operation Date: December 2019
- PV Module Supplier: Boviet Solar
- Project Developer: Ameresco
- Project Owner: Citizen Enterprises Corp.
- Project Offtake: ~600 low-income households via JOE-4-SUN LICSS community solar

Project Overview

Ashland Solar is a community-owned ~5.8 MWdc solar system on the capped Nyanza Chemical Waste Dump Superfund landfill in Ashland, Massachusetts. Developed by Ameresco with Boviet Solar's top-performing PV modules and built by CS Energy, the project is owned by Citizens Energy (Ashland Solar, LLC) and achieved commercial operation in December 2019.

The project delivers clear economic, social, and environmental benefits. Economically, Ashland Solar provides predictable bill credits to income-eligible subscribers, reuses brownfield land, and supports local construction and ongoing O&M jobs. Socially, it expands access to affordable solar for households that can't host rooftop systems, strengthening energy equity in Eversource territory. Environmentally, the array generates ~7.1 GWh/year—enough to power ~1,000 homes, avoids ~2,600 metric tons of CO_2e annually, saves ~3.3 million gallons of water, and displaces roughly 940 short tons of coal each year, roughly taking ~560 cars off the road or planting ~43,000 trees (seedlings grown 10 years) annually.

Economic Benefits

Subscribers receive net-metered bill credits through the JOE-4-SUN low-income community solar structure, and more than a hundred local jobs were supported during development, construction, and ongoing O&M. Repurposing a capped Superfund landfill minimizes land-acquisition cost and turns a remediated parcel into a long-lived community asset. With ~7.1 GWh/year, the project offsets electricity equivalent to ~1,000 homes per year, delivering substantial lifetime savings for participating households.

Social Benefits

The project broadens access to clean energy for income-eligible residents who face rooftop constraints, advancing energy affordability and resilience. Community-visible reuse of a Superfund site builds energy literacy and trust, showing how cooperative public–private action can remediate legacy pollution while delivering everyday savings.

Environmental Benefits (Estimated)

By reusing a capped Superfund landfill, Ashland Solar avoids greenfield conversion. Estimated ~7.1 GWh/year results in ~2,600 metric tons of CO_2e avoided, ~560 cars eliminated (equivalent), ~43,000 trees planted (equivalent), ~3.3 million gallons of water saved, and ~940 short tons of coal eliminated each year.

BOVIET SOLAR

Boviet Solar 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. The company also maintains regional operations in the United States, Germany, and other key international markets. To learn more, visit www.bovietsolar.com.