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BIG MUDDY SOLAR

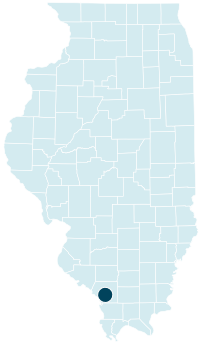


Big Muddy Solar Project

Affordable, locally built power

Overview[1]

Big Muddy is an American energy project located in Jackson County, Illinois. The facility is currently under construction and is anticipated to be fully operational in 2026. Once completed, Big Muddy will help meet our country's rapidly growing demand for electricity by delivering reliable, affordable, locally generated energy. It will strengthen the local economy and support public services through tax revenue, job creation, and long-term investment, while providing the electric system with the capacity needed to keep Illinois homes and businesses powered.



Responsible development that protects the land is central to Arevon's approach, as shown at Big Muddy Solar. There, Arevon is planting carefully selected vegetation, developed with plant and soil scientists, to stabilize soil, limit invasive species, and support lasting habitat for bees, butterflies, and other pollinators.

Technology
Solar

Status
Construction

Size
124 MWdc/95 MWac

Location
Jackson County, Illinois

Commercial Operation Date
Anticipated 2026

Annual Energy Production
24,000+ Illinois homes can be powered each year

Community Benefits

$12+ Million
Property Tax Payments[2]
Providing revenue for local schools, roads, and public services

250
Construction Jobs
Supporting competitive wages with a focus on local hiring

Protecting What Matters Most

Leased Land, Preserved
Avoiding permanent changes while protecting the land for future generations

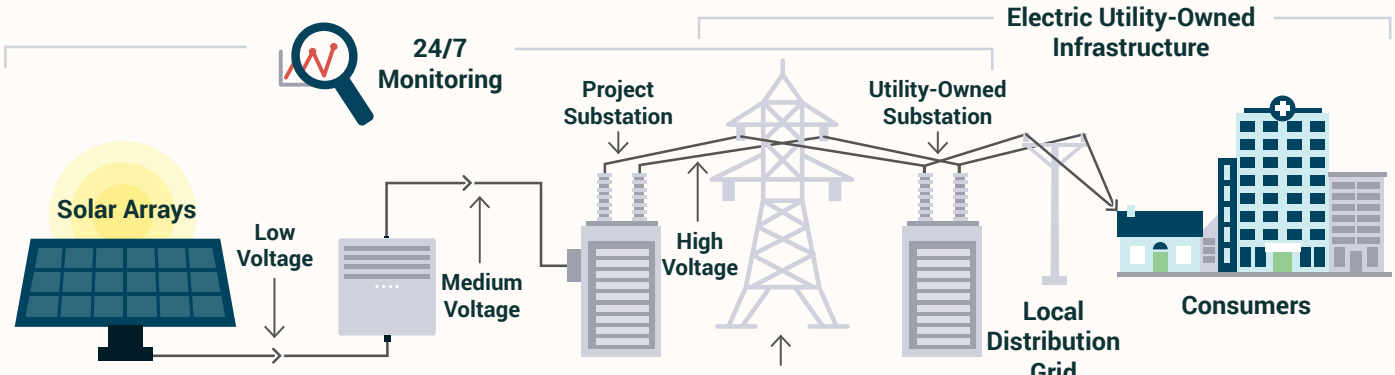
2.3+ Billion Gallons
Water Saved Annually
Conserving vital resources

168,000+ Metric Tons
CO_2 Emissions Avoided Annually
Improving public health

[1]Calculation information is available in Arevon's Disclosures and Methodologies. https://arevonenergy.com/wp-content/uploads/2026/05/Arevon-Disclosures-and-Methodologies.pdf
[2]Estimated cumulative payments over the life of the project when operational.

How a Solar Project Works

Utility-scale solar projects generate enough electricity to power tens of thousands of homes, and feed it into the electric grid — similar to traditional power plants except without burning fuels to create electricity. For decades, utility-scale solar has delivered reliable, cost-competitive power, offering businesses and consumers a stable and sustainable energy solution.



Photons from sunlight absorbed by **solar panels** is converted into direct current (DC) electricity, which is sent to a **power conversion system (PCS)**. Solar panels are organized into **arrays**, or rows, that consist of multiple panels working in unison.

PCS

The **PCS** includes **DC/AC Inverters** that convert the DC power to alternating current (AC) power. A **medium-voltage transformer** allows the AC power to be combined and travel to a **project substation.**

Electrical Transmission System

The **project substation** is where the AC power from the solar project is collected, increased by a high-voltage transformer for efficient transmission, and then **connected to the existing electrical utility grid transmission infrastructure.**

Commitment to Safety

Solar energy is one of the safest forms of power generation available, utilizing durable, weatherproof, and glare resistant panels. Arevon procures solar panels that pass strict testing protocols under the U.S. Environmental Protection Agency's Toxicity Characteristic Leaching Procedure to ensure that, even if damaged, the panels are nonhazardous to people and the environment.

Community-First Approach

At Arevon, we don't just develop energy projects — we show up, we listen, and we act as partners to the communities that make them possible. That means more than delivering electricity. It means supporting local priorities through volunteering, event sponsorships, and direct community investments.

As part of our long-term commitment, Arevon allocates a portion of each project's capital cost to community benefits. We focus our resources on three key pillars: alleviating food and housing insecurity, supporting education with a focus on science, technology, engineering, and mathematics (STEM), and promoting public health and safety.

Responsible Land Stewardship

Our projects utilize the land responsibly to provide a reliable source of domestic energy, while preserving it for future options such as farming and preventing more permanent and intensive development.

About Arevon

Arevon is a U.S. energy leader committed to powering America with affordable, reliable, and secure homegrown energy. Headquartered in Arizona, and with a regional office in New York, the company's experienced and dedicated team develops, finances, builds, owns, and operates renewable energy projects nationwide. With a strong track record in utility-scale solar and energy storage, Arevon is a trusted partner to utilities and businesses seeking cost-effective, sustainable energy solutions. By prioritizing American manufacturing and domestic energy production, the company invests in U.S. jobs, strengthens local economies, and advances the country's energy independence. For more information, visit arevonenergy.com.

Scan the QR code to learn more about the project.

Updated October 2026