




Crooked Lake Solar Park

Mississippi County, Arkansas

 Installed capacity: **175 MW**

 Online since: **2023**

 Generation will be equivalent to the average consumption of more than **28,700 Arkansas homes**.¹

Crooked Lake Solar Park is a 175 MW utility-scale solar facility located in the northeast corner of Mississippi County, approximately three and a half miles east of downtown Blytheville. The solar park is sited on land primarily used for agricultural production and provides economic benefits to the surrounding community.



Economic benefits



\$1.3 million
TOTAL PROJECT IMPACT²



Millions of dollars
PAID TO LOCAL GOVERNMENTS⁴



\$1.3 million
PAID TO LANDOWNERS³



\$30,400
SPENT LOCALLY⁵



PERMANENT JOBS⁶
4 jobs created



CONSTRUCTION JOBS⁶
244 jobs created

Energy security

Power generated at Crooked Lake supports the state of Arkansas' electric grid. The solar park also contributes to the **national energy security for the United States**, helping diversify domestic supply.

Solar as a neighbor

Solar projects are essentially silent neighbors designed to capture light while not producing glare, and the vegetation maintained beneath the panels helps keep temperatures cool for the surrounding environment.⁷

Solar panel technology

EDPR NA's solar panels are made up of a thin layer of solar PV cells sealed on both sides. **Panels contain no liquids and do not pose a risk to the environment or human health.**



Crooked Lake's environmental impact

The solar park saves more than **222 million gallons** of water each year and prevents the air pollution that causes smog and acid rain.⁸

EDPR NA's impact in North America from solar energy⁹



\$41.8 million
PAID TO
LANDOWNERS



\$16 million
PAID TO LOCAL
GOVERNMENTS



4,400
CONSTRUCTION
JOBS CREATED



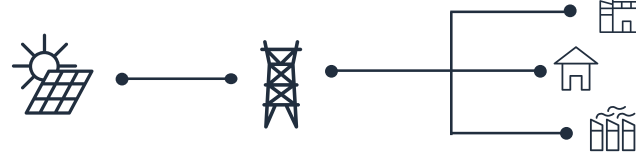
100
PERMANENT
JOBS CREATED



How solar energy works

EDPR NA uses photovoltaic (PV) solar cells. Photovoltaic solar cells have no moving parts and convert sunlight directly into electricity via the photoelectric effect. This direct-current electricity is then collected, transformed into alternating current, and finally put on the electrical grid through a substation after being converted to the proper voltage.

Power grid



Solar is one of the cheapest forms of energy.¹⁰

The cost of solar has fallen 71% in 10 years.¹¹

Local experience with EDPR NA

“In terms of what you can do with your land, I think clean power is a very attractive option. It's really neat to put something like food on the table for the American people, as well as power in the homes of people in these local communities.”



Joe R. Jr., Business Owner, Ohio

Scan the QR Code to explore educational resources on renewables and how we are empowering local economies, as well as meeting today's rising energy demands.

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¹ Power generation calculated using a 25% capacity factor. Household consumption based on the 2023 EIA Household Data monthly average consumption by state.

² Includes vendor spending, property taxes, and landowner payments through 2024.

³ Cumulative landowner payments through 2024.

⁴ Estimated local government payments through 2024.

⁵ Cumulative local vendor spending including payments to contractors, suppliers, and service companies, as well as donations within 50-miles of the project area through 2024.

⁶ Full-time equivalent jobs calculated by dividing number of contractor hours worked during construction by 2080.

⁷ American Clean Power Association, Solar as a neighbor, 2021.

⁸ Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016.

⁹ Based on EDP Renewables North America's operational solar parks through 2024.

¹⁰ Lazard's Levelized Cost of Energy 2024 (version 17.0)

¹¹ American Clean Power Associations Annual Market Report, 2023

About us

EDP Renewables North America LLC (EDPR NA), its affiliates, and its subsidiaries develop, construct, own, and operate wind farms and solar parks throughout North America. Headquartered in Houston, Texas, with 61 wind farms, 26 solar parks, and eight regional offices across North America, EDPR NA has developed more than 12,000 megawatts (MW) and operates more than 11,400 MW of onshore utility-scale renewable energy projects. With more than 1,000 employees, EDPR NA's highly qualified team has a proven capacity to execute projects across the continent.

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