Junction 51 Solar

Bollinger County, Missouri

Installed capacity: **180 MW**

Estimated commercial operation: **2028**

Generation will be equivalent to the average consumption of more than **32,750 Missouri homes**.[1]

Junction 51 Solar would be located in Bollinger County, Missouri— near Patton and Cape Girardeau. The solar site is currently in development with preliminary plans to commence onsite work in the second half of 2027 and reach operations by the end of 2028.

Economic benefits

Millions of dollars
CAPITAL INVESTMENT[2]

Approximately $26 million
WOULD BE PAID TO LOCAL GOVERNMENTS

$45+ million
WOULD BE PAID TO LANDOWNERS

Millions of dollars
WOULD BE SPENT LOCALLY

PERMANENT JOBS[3]
Multiple jobs would be created

CONSTRUCTION JOBS[3]
Hundreds of jobs would be created

Energy security

Power generated at Junction 51 Solar would support the state of Missouri's electric grid. The solar park would also contribute to the **national energy security for the United States**, helping diversify domestic supply.

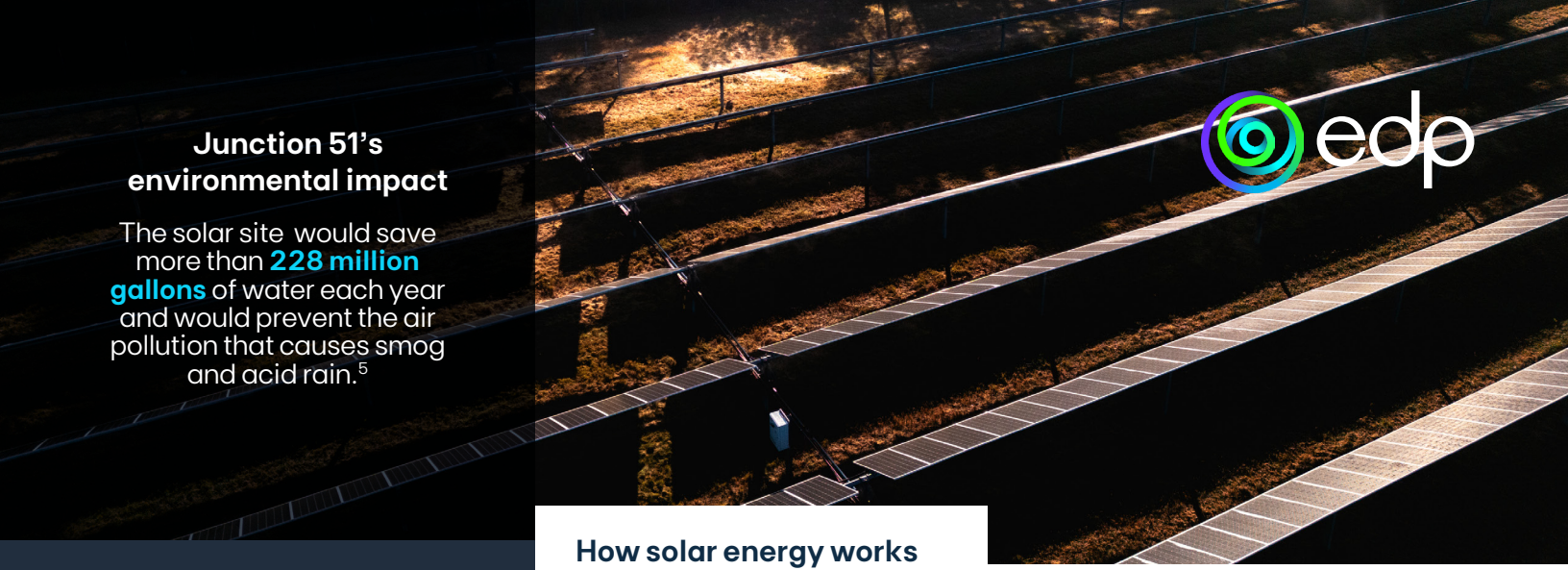
Solar as a neighbor

Solar projects are **essentially silent neighbors designed to capture light** while not producing glare, and the vegetation maintained beneath the panels helps mitigate the possibility of heat increases.[4]

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 or materials that pose a risk to the environment or human health.**

All economic data reflects the estimated amount throughout the life of the project.



Junction 51's environmental impact

The solar site would save more than **228 million gallons** of water each year and would prevent the air pollution that causes smog and acid rain.[5]

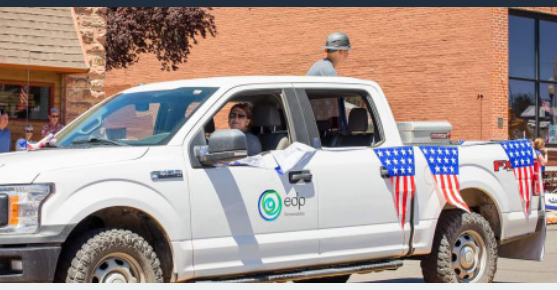
EDPR NA's impact in North America from solar energy[6]

$41.8 million
PAID TO LANDOWNERS

$16 million
PAID TO LOCAL GOVERNMENTS

4,400
CONSTRUCTION JOBS CREATED

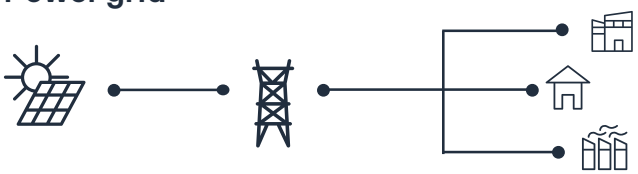
100
PERMANENT JOBS CREATED



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.[7]

The cost of solar has fallen 71% in 10 years.[8]

Local experience with EDPR NA

"EDPR is a very trustworthy company. Over the 10 years our project has been operating, everything they've said has been true."

Tim E., Business Owner and Tenant Farmer, Illinois

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.

Scan the QR Code using the camera on your mobile device.

[1] Power generation calculated using a 25% capacity factor. Household consumption based on the 2023 EIA Household Data monthly average consumption by state.
[2] Assumes utility fixed-tilt projects are $1.02/Wdc, and single-axis tracking projects are $1.11/Wdc. Based on Q3 2023 SEIA U.S. Solar Market Insight.
[3] Full-time equivalent jobs calculated by dividing number of contractor hours worked during construction by 2080.
[4] American Clean Power Association, Solar as a neighbor, 2021.
[5] Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016.
[6] Based on EDP Renewables North America's Operational Solar Parks through 2024.
[7] Lazard's Levelized Cost of Energy 2024 (version 17.0)
[8] Based on 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.

For more information, visit **www.edprnorthamerica.com.**

EDP Renewables North America Corporate Headquarters

1501 McKinney Street, Suite 1300
Houston, TX 77010

325.721.2977
jeremy.zavala@edp.com