



# Blue Bridge Solar & Energy Storage

Cypress County, Alberta

- Installed capacity: **150 MW**
- Estimated commercial operation: **2028**
- Generation will be equivalent to the average consumption of more than **45,000 Alberta homes**.<sup>1</sup>



Blue Bridge Solar & Energy Storage will be located in Cypress County, Alberta, south of where the South Saskatchewan River crosses from Alberta into Saskatchewan. Cypress County is one of Canada’s sunniest counties with an average of 300 sunny days per year. Blue Bridge will complement the area’s landscape while harnessing the region’s abundant sun.

## Economic benefits



**\$300 million**  
CAPITAL INVESTMENT<sup>2</sup>



**Millions of dollars**  
WILL BE PAID TO LOCAL GOVERNMENTS



**\$32.2 million**  
WILL BE PAID TO LANDOWNERS



**Millions of dollars**  
WILL BE SPENT LOCALLY



PERMANENT JOBS<sup>3</sup>  
**5 jobs will be created**



CONSTRUCTION JOBS<sup>3</sup>  
**350 jobs will be created**

### Energy security

Power generated at Blue Bridge will support the state of Alberta’s electric grid. The solar park will also contribute to the **national energy security for Canada**, 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.<sup>4</sup>

### 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.**



## Blue Bridge's environmental impact

The solar site will save more than **721 million litres** of water each year and will prevent the air pollution that causes smog and acid rain.<sup>5</sup>

## EDPR NA's impact in North America from solar energy<sup>6</sup>



**\$41.8 million**  
PAID TO  
LANDOWNERS



**\$16 million**  
PAID TO LOCAL  
GOVERNMENTS



**4,400**  
CONSTRUCTION  
JOBS CREATED



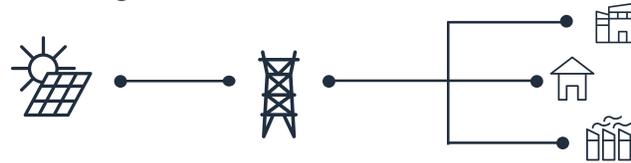
**100**  
PERMANENT  
JOBS CREATED



## 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.<sup>7</sup>**

The cost of solar has fallen 71% in 10 years.<sup>8</sup>

## Local experience with EDPR NA

“ EDPR has been very good to work with. Overall it's been very positive. We've had nothing but good rapport.

*Arnie H., Landowner and Farmer, Ontario, Canada*



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

<sup>2</sup> 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.

<sup>3</sup> Full-time equivalent jobs calculated by dividing number of contractor hours worked during construction by 2080.

<sup>4</sup> American Clean Power Association, Solar as a neighbor, 2021.

<sup>5</sup> Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016.

<sup>6</sup> Based on EDP Renewables North America's Operational Solar Parks through 2024.

<sup>7</sup> Lazard's Levelized Cost of Energy 2024 (version 17.0)

<sup>8</sup> 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 12,800 megawatts (MW) and operates more than 12,100 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](http://www.edprnorthamerica.com).

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