



Sounding Creek Solar & Energy Storage

Special Areas Board 4, Alberta

Installed capacity: **200 MW + 50 MW Storage**

Estimated commercial operation: **2029**

Generation will be equivalent to the average consumption of more than **55,000 Alberta homes**.¹



Sounding Creek Solar & Energy Storage will be located north of Sedalia, and will connect to the Alberta Interconnected Electric System. Sounding Creek will also complement the area’s landscape while harnessing the region’s abundant sun.

Economic benefits



\$370 million
CAPITAL INVESTMENT²



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 JOBS³
3–5 jobs will be created



CONSTRUCTION JOBS³
300–400 jobs will be created

Energy security

Power generated at Sounding Creek 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.

Environment and solar energy storage projects

Energy storage facilities are designed to not release pollutants into the air, soil, or waterways. Additionally, **solar panels contain no liquids or materials that pose a risk to the environment or human health**.⁷

Energy storage safety

Between cell phones, laptops, and power tools, many people have a lithium-ion battery in their pockets or hands at all times. Additionally, energy storage fires are very rare and their rate of frequency is decreasing. **Energy storage sites are also highly regulated to ensure safety for neighbors, communities, and technicians.**



Sounding Creek's environmental impact

The solar will save more than **961 million litres** of water each year and will prevent the air pollution that causes smog and acid rain.⁵



EDPR NA's impact in North America from solar energy⁶



\$41.8 million

PAID TO LANDOWNERS



\$16 million

PAID TO LOCAL GOVERNMENTS



4,400

CONSTRUCTION JOBS CREATED



100

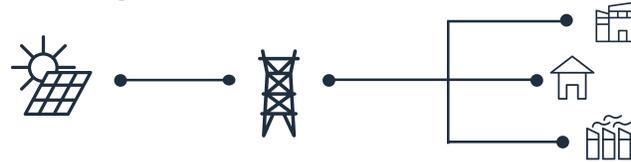
PERMANENT JOBS CREATED



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

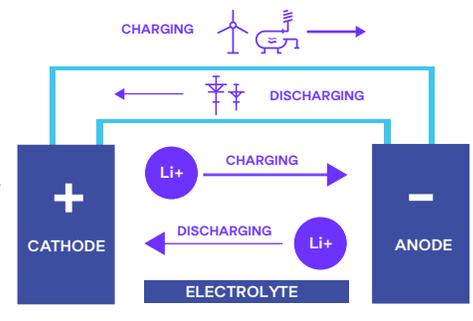


Solar is one of the **cheapest forms of energy.**⁷

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

How energy storage works

The most common electrochemical storage method is the lithium-ion battery. These are similar to the batteries that power your cell phones, or laptops. Energy storage systems are fuel-neutral. **This means that they can capture and dispense electricity** from oil, gas, coal, nuclear, geothermal, and EDP Renewables North America's wind and solar energy projects.



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 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, 29 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.

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