



Sharp Hills Wind Farm

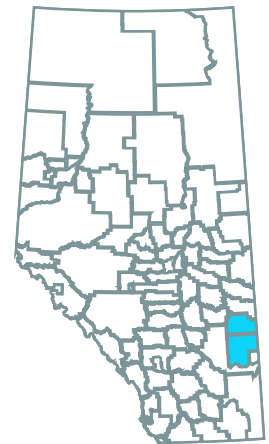
Special Areas 3 & 4, Alberta

⚡ Installed capacity: **297 MW**

🏠 Online since: **2023**

🏠 Generation is equivalent to the average consumption of more than **160,000 Alberta homes**.¹

Sharp Hills Wind Farm is located in Special Area 3 and 4 near the Sedalia and New Bridgen hamlets. The Sharp Hills were named by early surveyors who used them as a reference point for the surrounding area. The project area is primarily used for grain farming and cattle grazing, consisting of flat plains and rolling hills.



Economic benefits



\$190,800+
TOTAL PROJECT IMPACT²



\$64,600+
PAID TO LOCAL GOVERNMENTS⁴



\$98,000+
PAID TO LANDOWNERS³



\$28,100+
SPENT LOCALLY⁵



PERMANENT JOBS⁶
8 jobs created



CONSTRUCTION JOBS⁶
375 jobs created

Energy security

Power generated at Sharp Hills supports Alberta's electric grid. The wind farm also contributes to the **energy security for Canada**, helping diversify domestic supply.

Wind energy and land use

Wind turbines have a limited footprint, **leaving 98 percent of the project's leased land undisturbed** and available for farming, wildlife habitat, ranching, or recreation.⁷

Wind energy in Canada

With **341 wind energy projects producing power** across the country, Canada's wind energy capacity grew 35% in the past 5 years (2019-2024).⁸

Sharp Hill's environmental impact

The wind farm saves more than **2 billion liters** of water each year and prevents the air pollution that causes smog and acid rain.⁹

EDPR NA's impact in North America from wind energy¹⁰



\$575+ million
PAID TO
LANDOWNERS



\$558+ million
PAID TO LOCAL
GOVERNMENTS



7,400+
CONSTRUCTION
JOBS CREATED



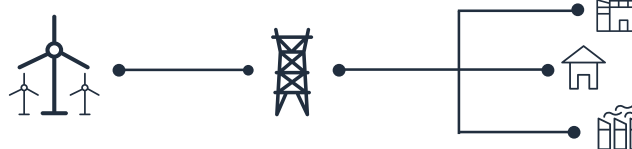
610+
PERMANENT
JOBS CREATED



How wind energy works

EDPR NA uses wind turbines to harness the natural resource of wind to generate mechanical energy. This energy is transformed into electricity via a generator and is sent to the electrical grid after being converted to the proper voltage.

Power grid



Wind is one of the cheapest forms of energy.¹¹

Canada ranks 9th in the world for installed wind energy capacity.¹²

Local experience with EDPR NA

“The wind project has helped the township lower its taxbase, which helps everyone in the community.”

Arnie H., Landowner and Farmer, Ontario, Canada



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 35% 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 Cumulative 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, Wildlife and Wind Power Facts, 2021.

⁸ Canadian Renewable Energy Association, January 2025; most recent data.

⁹ Assumes 0.58 gallons of water consumed per kWh of conventional electricity from Lee, Han, & Elgowainy, 2016.

¹⁰ Based on EDP Renewables North America's operational wind farms through 2024.

¹¹ Lazard's Levelized Cost of Energy 2024 (version 17.0)

¹² IRENA Renewable Electricity Capacity and Generation Statistics, 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.

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