Sharp Hills Wind

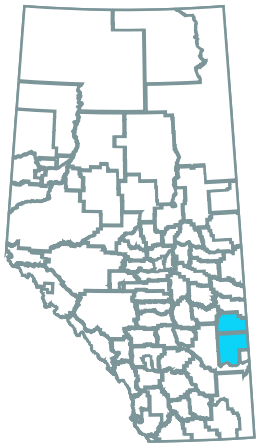
Special Areas 3 & 4, Alberta

Installed capacity: **297 MW**

Commercial operation: **2023**

Homes powered: **160,000 Alberta homes**.[1]

Sharp Hills Wind 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.



$3 million
Total project impact

$3 million
Revenue for public services

$98,000
Revenue for landowners

$28,100
Local spending

8
Permanent jobs

375
Construction jobs

Energy security

Power generated at this site **will strengthen Alberta's electric grid while contributing to broader Canadian energy security** by diversifying domestic power supply.

Wind energy and land use

Wind turbines have a minimal land footprint, leaving approximately **98% of leased land available** for continued farming, wildlife habitat, ranching, or recreation.[2]

Wind energy supports American manufacturing

With **341 wind energy projects producing power** across the country, Canada's wind energy capacity grew 35% in the past 5 years (2019–2024).[3]

Economic benefit figures shown are through 2025.

Sharp Hill's environmental impact

This project will conserve **2 billion liters** of water annually and reduce air pollution linked to smog and acid rain.[4]

EDPR NA: Powering North America with wind energy[5]

2.5 million
Homes powered

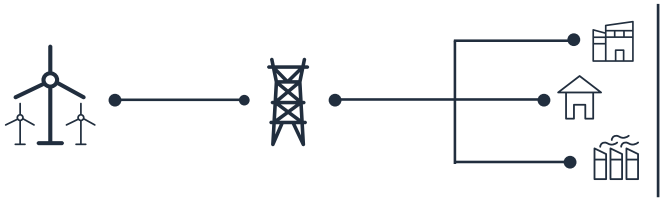
$582 million
Revenue for landowners

$614 million
Revenue for public services

8,000 jobs
Permanent & construction

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.



Wind is one of the cheapest forms of energy.[6]

In 2025, renewable energy met 9.7% of Canada's total electricity demand.[7]

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 2024 EIA Household Data monthly average consumption by state.

[2] American Clean Power Association, Wildlife and Wind Power Facts, 2021.

[3] Canadian Renewable Energy Association, January 2025.

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

[5] Based on EDP Renewables North America's operational wind sites through 2025.

[6] Lazard's Levelized Cost of Energy 2024 (version 17.0)

[7] Canadian Renewable Energy Association, Energy Transition, 2025.

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, four energy storage sites, and eight regional offices across North America, EDPR NA has developed more than 12,900 megawatts (MW) and operates more than 12,300 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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