



Onshore Wind Power

Onshore wind power is a proven technology, offering economical, reliable, and sustainable renewable energy worldwide.

We provide services across all stages of a wind farm's lifecycle, from project development to repowering and decommissioning.

Customer engagement across multiple sectors

- With over 40,000 MW of wind power projects globally, we have extensive wind industry experience. We know that a successful wind farm needs more than just good wind; it requires a skilled team with the right tools and systems to ensure economic efficiency and timely, on-budget delivery.
- Our wind energy clients range from power developers and independent power producers to utilities, mining and metals companies, heavy manufacturers, data centers, and large corporations seeking sustainable renewable energy.

Ensuring a cost effective, efficient delivery

- We can act as either the independent engineer, owner's engineer, and / or the detailed design engineer for your wind project. Whatever the role our teams are committed to the success of your project.
- We can help with project development activities including permitting, wind resource assessment, geotechnical studies, environmental surveys and community engagement.
- We have extensive experience in root cause analysis and forensic analysis. We can also help review and improve the performance of your existing wind farms.

Wide technical expertise

We have experience working with a wide variety of wind projects ranging from single turbines to large utility scale wind farms.

- **Turbine manufacturer experience:** GE, Vestas, Nordex Acciona, Siemens, Enercon, Goldwind
- **Resource assessment:** Lidar, Sodar, Met Masts
- **Construction support:** Construction management, commissioning, QA/QC support, and construction support
- **Hybrid power:** WTG Integration with hybrid systems (solar, battery energy storage systems, thermal, electrolyzers)

Services provided at all stages of projects, investments, operations, and transactions

- Owner's Engineer
- Independent Engineer/ Lender Advisor
- Wind Resource Assessment, Geotechnical Campaign
- Detailed Engineering
- Grid Interconnection / System Studies
- Permitting and Community Engagement
- Procurement and Construction Management
- Commissioning and Ramp Up
- Root Cause Analysis / Forensic Analysis
- Operations & Maintenance / Performance Optimization / End-of-Life Services

PROJECT EXPERIENCE

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Brighton Mountain Wind Farm

J.D. Irving, Canada



Hatch acted as owner's engineer in the development of the phased 350 MW wind farm that will supply green power to an industrial load in New Brunswick. Hatch completed the design of the turbine layout, access roads, turbine platforms, turbine foundations, collection network and substation. The feasibility study also included CAPEX/OPEX evaluations, detailed logistics and crane studies, wind resource assessment, turbine selection and environmental impact assessment. In the field, Hatch was responsible for the installation of the meteorological towers, LIDAR campaigns, geotechnical borehole surveys and environmental surveys.

Wind Resource Assessment, Lidar Campaign and Geotechnical Campaign

Hydromega, Canada



Hydromega engaged Hatch to support multiple wind energy projects in the 100MW to 200MW range through permitting, preliminary engineering, environmental studies, and wind resource assessments. Hatch's scope also included measurement campaigns, uncertainty studies, collector system and access road design, turbine foundation layouts, geotechnical assessments, constructability reviews, noise and shadow flicker assessments, environmental constraint mapping, permitting support, and technical input for regulatory submissions.

Silver Queen Wind Farm Owner's Engineering Services

Scout Clean Energy, USA



Hatch has been engaged by Scout Clean Energy to serve as Owner's Engineer for the 252 MW Silver Queen Wind Farm located in central Iowa. Hatch is supporting the project through all phases including technical due diligence, detailed design reviews, on-site construction monitoring, and commissioning support.

Buffalo Plains Wind

Copenhagen Infrastructure Partners, Canada



Independent wind resource assessment was completed for this 87-turbine 466 MW wind farm project, including detailed uncertainty, loss and back casting analyses. The assessment evaluated numerous layouts and scenarios.

Utshishkau Project – Wind Consultant

Hydro-Québec, Canada



Procurement, installation and commissioning of 16 met towers for the measurement of the wind resource in the Lac-Saint-Jean area, including satellite communication and reporting. Hatch performed a wind resource assessment including data quality control, long term adjustment, vertical extrapolation and uncertainty study. Development support also included CAPEX evaluations. In collaboration with H-Q's First Nation partner, Hatch completed the environmental specifications and the preliminary design of access roads, turbine pads, collector networks, substations and transmission lines for the 600 MW phase 1 of this larger 3,000 MW wind development taking place in Québec.

Prince Wind Repowering Technical and Environmental Assessment

Brookfield Power Corporation, Canada



Hatch is supporting Evolgen with Independent Engineer (IE) services and Environmental Assessment (EA) activities for the repowering of the Prince Wind Farm near Sault Ste. Marie. As Ontario's first wind repowering project, Hatch worked closely with the MECP to establish the appropriate regulatory framework for the EA process. The work followed the Renewable Energy Approval (REA) framework and includes public and Indigenous engagement, permitting, refinancing due diligence, end-of-PPA period maintenance planning and natural heritage field investigations.

Inuvik Hybrid Project Design and Commissioning

Northwest Territories Energy, Canada



We were the engineer of record and system commissioning manager for the integration of 3.5 MW of wind power, 1 MW of solar and 3.5 MW of battery storage to this arctic gas-fueled community grid. Hatch also supplied innovative and proprietary microgrid controller and SCADA solutions.

Looking for more information?

Contact us!



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