

À votre service

Serving Québec, and Canada more broadly, requires more than products; it demands a long-term commitment, local expertise and a strategic presence. With Canada's wind energy sector expanding rapidly, Dellner Wind has established Dellner Wind Solutions Canada, positioning itself to support aging turbines, new projects and specialized components with timely service, skilled technicians and proven global experience.



Canada's wind energy sector is gaining momentum, with a strong pipeline of projects pushing growth through the 2030s. Onshore projects dominate, while offshore development, most notably off Nova Scotia, is emerging as a new frontier.

Policy support at both federal and provincial levels, including long-term power purchase agreements and incentives, keeps the industry moving forward, even as logistics and permitting challenges test project timelines.

While the country's wind energy sector continues to expand, much of the installed onshore capacity consists of older farms dating back a decade or more. These turbines, often smaller and less efficient than modern models,

require increased maintenance, parts replacement and operational oversight to maintain performance.

The aging infrastructure presents both a challenge and an opportunity: operators must carefully manage maintenance schedules, component availability and reliability, while the sector as a whole benefits from repowering projects that upgrade turbines, increase capacity and extend the operational life of existing sites.

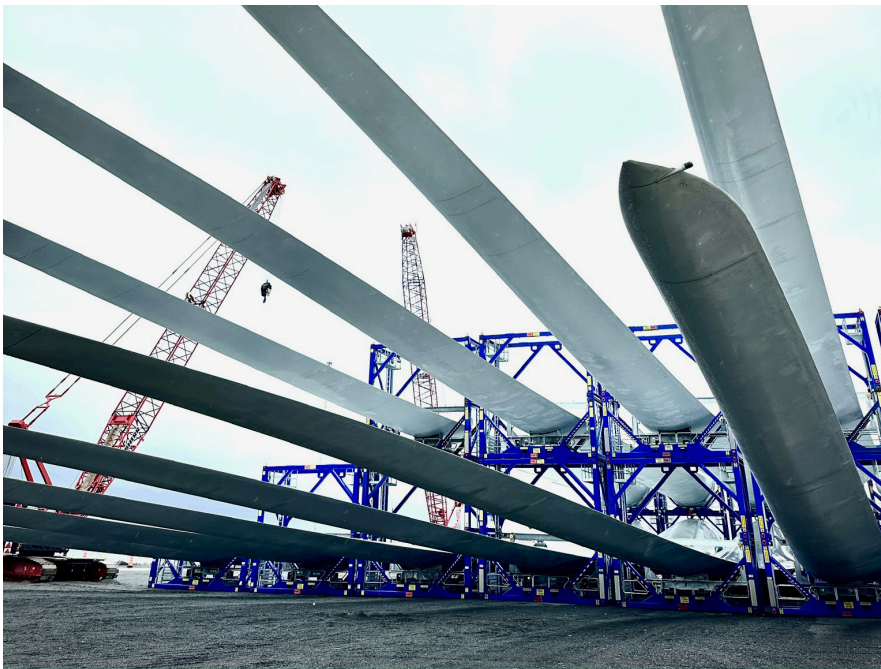
This combination of ongoing maintenance and strategic modernization makes Canada's wind industry not only a growing source of renewable energy but also a dynamic market for manufacturing, engineering and service providers.

Windswept terrain

It has created a favorable landscape for a global component manufacturer, like Dellner Wind, to place a footprint in the region on a scale not seen before. While original equipment manufacturers (OEMs) have already given companies like us a doorway into the region, it isn't possible to service a marketplace that is maturing and expanding in equal measure, without being firmly established there.

In other words, in Canada's booming wind market, distance is costly. Suppliers far from the action risk delays, higher costs and missed opportunities, while a local presence delivers speed, reliability, and long-term growth.





Dellner Wind Solutions Canada was recently inaugurated at its strategic base in Gaspé, Québec. Gaspé is much more than a windy corner of Canada; it's a hub for renewables and industry. The region forms a true wind energy cluster, while ongoing projects and partnerships point to even more growth ahead, making Gaspé a prime spot for suppliers and investors looking to tap into eastern Canada's renewable energy boom.

Of course, in Québec, French is the language of industry, so operating effectively in the province requires French fluency, even if English dominates the rest of the country. Further, given that a focus for Dellner in Gaspé and wider Québec is the hydraulics and braking side of the business, it was not sustainable to service it from the US, which was the *modus operandi* when OEMs first enticed us north of the border.

Brakes are a vital component of any wind turbine, and among the most important are yaw brakes, active or passive, which align the nacelle with the wind. Sliding bearings and special brakes control the same turbine motion, twisting or oscillating about the vertical axis.

Dellner Group is a renowned multi-brand manufacturer of these systems, as well as heavy duty rotor and pitch brakes used in various wind energy applications. Rotor brakes, meanwhile, are typically caliper-style, again, active or passive, while rotor lock style pins, hydraulic or manual, are used for safety locking and maintenance purposes.

Dellner also makes high-end coolers, hydraulic systems, cylinders and accumulators. In simple terms, active yaw utilizes hydraulic brake systems to rotate the wind turbine into the wind, while passive yaw is based on wind force to adjust the orientation of the wind turbine rotor into the wind.

An active yaw system has four main purposes: alignment of the nacelle to the prevailing wind direction; avoiding power losses during wind direction changes; reducing loads resulting from yaw misalignment; and cable unwinding.

Canada's wind energy stakeholders now expect this product line and the service behind it to be positioned close to the point of use.

In the loop

As Canada's wind fleet matures, operators are increasingly focused on managing both the maintenance cycle and the repair loop to sustain performance and control costs. While routine inspections and preventative servicing

remain essential to maximize uptime, aging components such as gearboxes, pitch systems, and hydraulics are entering more frequent repair intervals.

This places greater emphasis on efficient repair loops, removing, refurbishing and redeploying parts with minimal delay, to avoid extended downtime and escalating operational expenditure.

In a market where older assets sit alongside new installations, the ability to balance proactive maintenance with responsive, well-managed repair processes is becoming a defining factor in long-term asset reliability and project economics.

Another benefit of establishing a presence in a market as a global provider is the advantage of experience. While Dellner Wind Solutions Canada continues to gather momentum, the Dellner brand is already associated with the successful execution of maintenance cycle and repair loop programs.

The Danish market serves as a good case study. There is a clear and compelling synergy between the Danish and Canadian wind energy markets. Denmark represents maturity, while Canada offers scale, growth, and a rapidly expanding project pipeline.

As Canada builds out its capacity and begins to contend with the same lifecycle and logistical challenges Denmark has already navigated, the opportunity for knowledge transfer becomes obvious.

From offshore development to best practices, Danish expertise is well-positioned to support Canada's next phase of growth. We have also used our service centers in southern areas of the US as examples of what can be achieved from a maintenance perspective.





People behind products

Even in the most advanced wind farms, skilled field personnel remain as critical as high-tech components. Sensors and control systems provide data, but experienced technicians interpret it, diagnose faults, perform repairs and ensure turbines operate safely and efficiently.

From executing maintenance and repair loops to optimising performance and managing safety risks, their expertise turns raw technology into reliable energy output. The combination of human insight and advanced equipment is what keeps projects running smoothly and maximizes long-term value.

It is important, therefore, that component suppliers and service companies meet this expertise with their own local specialists. Although speaking the local language is an essential requirement for operating in a local market, as Dellner knows from experience, it is only part of the equation.

Even within the same wind energy sector, technical standards and best practices are rarely universal. Local regulations, climate, turbine models and operational culture all shape how turbines are maintained, repaired, and optimized. What works in Denmark may need adjustment in Québec or Atlantic Canada, from inspection schedules to component selection.

For suppliers and operators, understanding regional differences and combining global knowledge with local expertise is essential for reliable, safe and efficient operations.

Recruitment in such specialized markets is thus far from straightforward. It requires a scale and structure capable of sourcing the right talent, delivering comprehensive training, and retaining personnel over the long term, particularly when local expertise is scarce and the operational environment is demanding.

We recently dedicated several months to a single hire alone. It was worth it in the end, but a business needs to ask itself if it is in a position to sustain such a hiring model before navigating uncharted waters.

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Whirlwind tour

Wind energy stakeholders will have the opportunity to learn about our products and related services and ask questions at several upcoming trade shows and events.

We will begin by exhibiting at WindEurope, taking place from April 21st to 23rd in Madrid, Spain, followed by a presentation to a North American delegation at CleanPower, scheduled for June 1st to 4th in Houston, Texas.

In line with the focus of this article, we have also recently confirmed plans to participate in a number of regional shows targeting niche audiences in Canada.

Edge of the storm

Geopolitical volatility in the Middle East continues to act as a systemic shock to global energy and logistics networks.

Disruptions to critical shipping corridors and energy flows introduce price instability, freight risk, and supply uncertainty that extend far beyond the region itself.

For the wind energy sector, this creates a paradox: while generation is renewable, the supply chain remains exposed to fossil-fuel-driven transport and globalized manufacturing inputs.

The result is indirect but tangible, including rising costs, delayed projects and increased risk across North American wind developments.