

# MANUFACTURING

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## SENVION CELEBRATES THE COMMERCIAL OPERATION OF ITS LARGEST ONSHORE PROJECT



Rivière-du-Moulin Wind Project in Quebec

Senvion, one of the world's largest manufacturers of wind turbines, recently marked the commercial operation of the Rivière-du-Moulin wind project in Quebec, Canada. With 175 2-MW turbines totaling 350 MW, the wind project consists of Senvion MM92 and MM82 cold climate version (CCV) turbines. Several of the turbines are equipped with Senvion de-icing technology, adapted

for cold Canadian climate conditions. The Rivière-du-Moulin wind farm is the largest onshore contract in the history of Senvion and comes as part of the 1-GW framework agreement Senvion signed with EDF EN Canada Inc. in 2009.

"Rivière-du-Moulin is yet another achievement for us in 2015," said Andreas Nauen, CEO at Senvion. "As

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the largest onshore wind project in our history, Rivière-du-Moulin represents more than a third of our installed capacity in Quebec. This very large wind farm represents a major milestone for Senvion across the globe.”

The project is located in the unorganized territory (UT) Lac Pikauba in the MRC de Charlevoix and the UT of Lac Ministuk in the MRC du Fjord du Saguenay. Rivière-du-Moulin is expected to produce enough electricity to power approximately 77,000 households with clean, renewable energy and will generate a significant amount of economic benefits for the surrounding communities.

“Rivière-du-Moulin is a great example of our regional expertise in action as Senvion managed to complete and deliver the project to commercial operation two weeks ahead of schedule,” said Helmut Herold, CEO of Senvion in North America. “That is no small feat, considering the

territory’s complex terrain and often adverse weather conditions. Its completion is a result of the outstanding efforts by our exceptional workforce on-site as well as in our office, not to mention our local partners. Rivière-du-Moulin illustrates how cooperation between industry partners, governments, and communities drives change for cheaper and cleaner energy in Quebec.”

As part of its growing achievements in 2015, Senvion has become the second largest onshore wind turbine manufacturer in Germany with an installed capacity of 285 MW in the first half of 2015. Globally, Senvion has installed over 6,100 turbines, providing an output of over 12 GW. ↘

— Source: Senvion

For more information, go to [www.senvion.com](http://www.senvion.com).

## ENBRIDGE ACQUIRES 103-MW WEST VIRGINIA WIND PROJECT

Enbridge Inc. recently announced the acquisition of a 100-percent interest in the 103-MW New Creek Wind Project from EverPower Wind Holdings, LLC, an independent U.S. renewable energy developer. Enbridge’s total investment is approximately \$0.2 billion.

Located in Grant County, West Virginia, New Creek Wind will

comprise 49 Gamesa G97/G90 turbines and is targeted to be in service in December 2016. The project was developed by EverPower Wind Holdings.

“With strong fundamentals and commercial underpinnings, the New Creek Wind Project is a strong fit within our low-risk value proposition

and advances a key corporate priority of growing our renewable generation platform,” said Vern Yu, senior vice president, corporate planning and chief development officer at Enbridge Inc. “We welcome the relationship with EverPower, a safe and community-focused developer, owner, and operator of U.S. wind projects.”



The project is backed by renewable energy credit (REC) sales and off-take agreements with fixed pricing through mid- and long-term contracts.

New Creek will be constructed under a fixed-price engineering, procurement, and construction (EPC) agreement with White Construction Inc. Gamesa will provide turbine O&M services under a five-year fixed price contract, following which Enbridge will operate.

Including this acquisition, Enbridge has invested approximately \$5 billion in renewable power generation and transmission since 2002. Enterprise-wide, the company now has interests in nearly 2,000 MW of net renewable generating capacity operating, secured, or under construction. ↴

— Source: Enbridge

For more information, go to [www.enbridge.com](http://www.enbridge.com).



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GE Energy



## WIND ENERGY TO POWER GM'S TEXAS ASSEMBLY PLANT

General Motors' Arlington Assembly plant will soon be able to build up to 125,000 trucks a year using wind power from turbines whose blades span the length of a football field in diameter.

Arlington Assembly produces more than 1,200 vehicles daily, including the Chevrolet Suburban and Tahoe; GMC Yukon and Yukon XL; and Cadillac Escalade and Escalade ESV. The 115-million kwh of renewable energy will be enough to manufacture more than half of the plant's annual vehicle output.

GM recently signed a power purchase agreement with EDP Renewables North America, a fully owned subsidiary of EDP Renováveis, for 30 MW of renewable energy from the planned 250 MW Hidalgo Wind Farm in Edinburg, Texas. Fifteen of the wind farm's 261-foot-tall turbines will generate the energy GM will use.

Arlington Assembly expects to start using the clean power during the fourth quarter of 2016, avoiding approximately \$2.8 million in energy costs annually. Over the course of the 14-year deal, GM will avoid more than 1 million metric tons of carbon dioxide emissions, which is equivalent to the emissions of 112-million gallons of gasoline consumed.

"Our investment is helping accelerate the proliferation of clean energy in Texas and the use of wind as a reliable, renewable source of energy," said Jim DeLuca, GM executive vice president of global manufacturing. "Our sustainable manufacturing mindset benefits the communities in which we operate across the globe."

"We are pleased to enter into this agreement with General Motors and



look forward to providing clean and more economical energy for GM's Arlington Assembly plant in the coming years," said EDP Renewables North America CEO Gabriel Alonso.

Renewable energy complements a robust energy efficiency program at the plant. Arlington Assembly recently met the U.S. Environmental Protection Agency's Energy Star® Challenge for Industry by reducing the energy intensity of its operations by 10 percent in five years, marking the second time it has met the challenge. Arlington

Assembly is also investing in a new paint shop that will use half the energy of the system it will replace.

Beginning in the first quarter of 2016, wind energy will help power three GM Mexico facilities. Once online, the company will exceed its commitment to use 125 MW of renewable energy by 2020. GM's investments in renewable energy to date have yielded nearly \$80 million in savings. ↴

— Source: GM

For more information, go to [www.gm.com](http://www.gm.com).