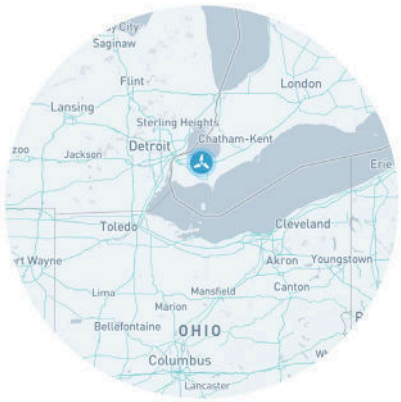
Belle River Wind

Belle River Wind, located in the Municipality of Lakeshore, is a partnership between Pattern Canada, Samsung Renewable Energy, and Bkejwanong First Nation (Walpole Island). The 100 MW wind power facility commenced commercial operations in 2017 and sells 100% of its electrical output and environmental attributes to the Independent Electricity System Operator (IESO).



Meaningful Partnerships

We believe in acting as a good neighbour through long-term engagement and giving. Belle River Wind equally commits to listening and respecting the landowners and communities that host our facilities through relationship building, open communication, and the reception of feedback. We encourage you to call or email our team to start a conversation.

Giving Back

Belle River Wind's Community Benefits Program includes $6 million donated over the first 20 years of operations for municipality to use on local initiatives, including community infrastructure and services, education programs, workforce training, energy sustainability, land stewardship, and public recreation.

Long-Term Benefits

The facility expects to produce an estimated $4 million in taxes over 20 years, benefitting Essex County, the Municipality of Lakeshore, and local schools.

Local Jobs

Project construction was completed in 2017 and entailed more than 200 workers on-site during peak activity, with over 95% of the workforce from Ontario. With the help of local contractors, 10 team members operate and maintain the site.

Local Manufacturing

Belle River Wind features 40 Ontario-made Siemens Gamesa 3.2 MW turbines with towers built in Windsor and blades manufactured in Tillsonburg.



About Bkejwanong First Nation



Bkejwanong First Nation (Walpole Island) is located near Wallaceburg, Ontario at the mouth of the St. Clair River. It encompasses six islands that have been occupied by the Ojibwe, Potawatomi and Odawa peoples for thousands of years. Walpole Island has never been set apart as a reserve, giving it the distinction of being unceded territory. The First Nation is committed to a sustainable future within its Traditional Territory, which includes being heavily involved in the renewable energy sector over the past decade. This has culminated in equity participation in four wind energy projects totaling 350 MW.

About Pattern Energy

Pattern Energy is a leading developer, operator and owner of renewable energy infrastructure projects and facilities across North America. Our mission is to transition the world to renewable energy through the sustainable development and responsible operation of facilities with respect for the environment, communities, and cultures where we have a presence.

Our approach begins and ends with establishing trust, accountability, and transparency. Our company values of creative spirit, pride of ownership, follow-through, and a team-first attitude drive us to pursue our mission every day. Our culture supports our values by fostering innovative and critical thinking and a deep belief in living up to our promises.

Headquartered in San Francisco, Pattern has a portfolio of power facilities and transmission assets producing and transporting nearly 6,000 MW of power across North America, serving various customers that provide low-cost clean energy to millions of consumers.

About Samsung Renewable Energy

Samsung Renewable Energy is creating clean, renewable energy for generations to come. Together with our partners, Samsung made a $5 billion investment in Ontario to create the world's largest cluster of wind and solar power. Our investments have created 900 direct renewable energy manufacturing jobs and 9,000 highly skilled jobs in Ontario. We have been developing renewable projects in Ontario since 2010, and combined our projects amount to ~800MW in capacity.

Samsung and its partners provided much-needed jobs in communities throughout Ontario, including manufacturing facilities in Windsor, Tillsonburg, Toronto and London. Built on Samsung C&T's commercial and technical expertise and the success of its renewable energy projects in several countries—including the United States and Europe—Samsung is creating real jobs through real investment, benefiting real people.

Our sister company, Samsung C&T America, Inc., has 15 GW of renewable projects and is currently developing 9.2 GW of Solar and 5.6 GW of BESS projects within the United States.