

# Environmental Programs

## Renewable energy

Bell Canada and Windular Research and Technologies have partnered on a North America-first pilot initiative installing Windular's state-of-the-art hybrid wind and solar systems on Bell's Nungesser Lake tower site in Ontario. This site connects northern communities such as Pikangikum, North Spirit Lake, Sachigo Lake and Muskrat Dam to our network. It also provides Bell Mobility Radio trunk service for public safety initiatives of the Government of Ontario.

The Nungesser site is the first installation of Windular's technology in North America and only the second of its kind in the world, reinforcing Bell's leadership in the deployment of innovative renewable energy technology in the telecom sector.

Bell's Nungesser site has historically been powered by dual-cycling diesel generators. Windular's hybrid renewable energy system replaces those generators, using the wind and sun as the primary power sources to charge the site's batteries. This initiative will reduce the time diesel generators run, thus cutting fuel consumption and carbon emissions. In fact, we estimate the system could save more than 10,000 litres of fuel a year while providing enough power to cover the 17,500 kWh site load.

The results of the pilot project will enable us to evaluate the potential of this new technology to provide long-term, cost-effective, renewable energy for our off-grid tower locations that serve remote communities.



Windular's state-of-the-art hybrid wind and solar systems on Bell's Nungesser Lake tower site in Ontario.