



Renewable energy

Nungesser wind and solar power augment trial

The wind and solar technology trial installed in Nungesser Lake 2016 was considered a success. It performed without interruption for the full twelve-month trial period during 2017. Based on the remote access via satellite, 57% of the power requirements for the site was provided via renewable energy.

This year we are kicking off three projects in Northern Ontario designed around a Windular Research and Technology solution. Both Wabikon and Badesdawa will receive both wind turbines and solar arrays integrated with new generators under one common control platform. We are also going back to Nungesser to add new generators and controllers. We are expecting to see energy production in the 75%+ range for all locations. These solutions are being prebuilt as “total energy shelters” and being shipped to site to minimize remote installation efforts.



Zoar solar power project in Labrador

In Q4 2017, in partnership with Bell Real Estate team, the Network Infrastructure team successfully completed the first solar and DC power system upgrade in Zoar fly-in only radio site. As a result, the existing end of life 4.8KW solar was replaced with a new 12.6KW smart tracking solar system. The onsite DC power plant rectifier capacity was increased from 12KW to 24KW. Generator run time significantly reduced by 87%. In the next 2 years, the Network Infrastructure team will continue to upgrade the solar and DC power systems at three Bell remote microwave transport sites (Double Mer, Mulligan and Merrifield) in Labrador.

The solar modernization program above will significantly improve network reliability; reduce generator run time resulting in reduction in GHG footprint.

