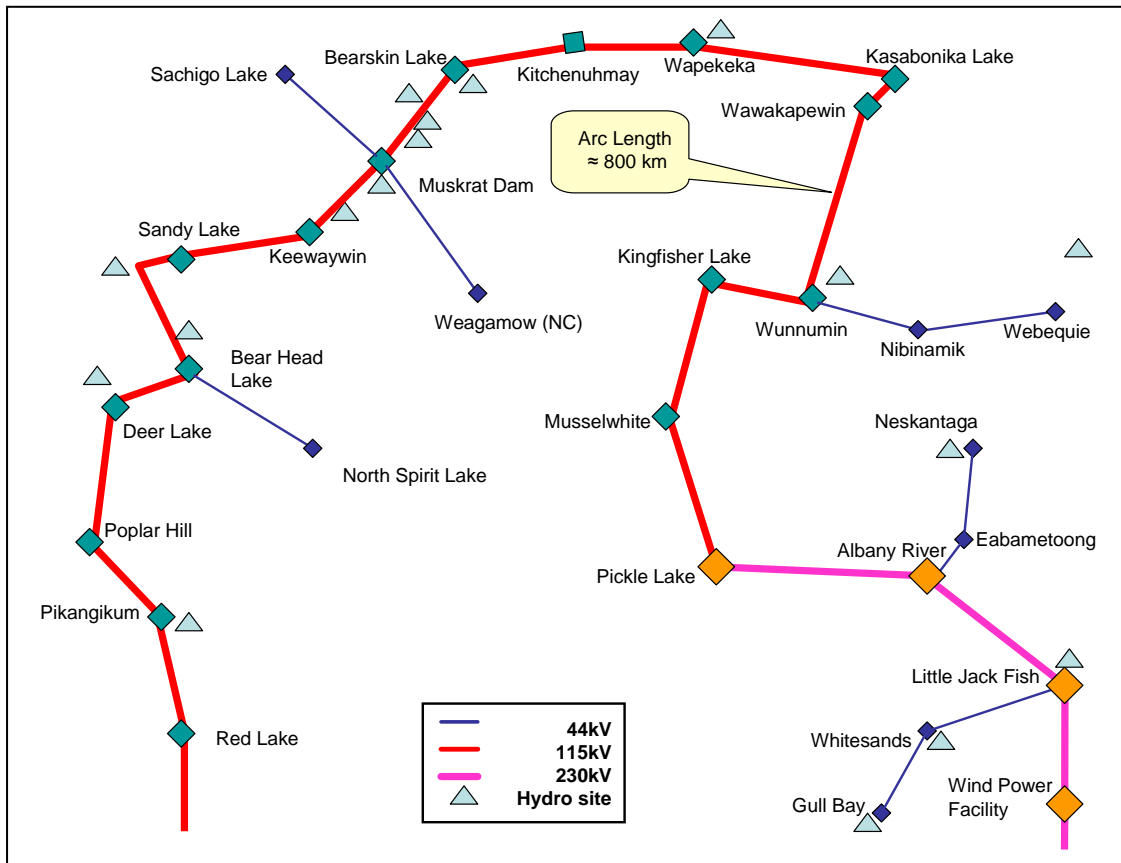


Proposed Concept for Electricity Supply to Remote NAN Communities



Features:

- Transmission line to be built between Ear Falls and Musselwhite Mine and will connect 22 off-grid communities to grid supply
- Transmission system consists of:
 - an 115-kV backbone, approximately 800 km in length
 - several 44-kV radial lines adding up to approximately 500 km
- Built-in redundancy to provide a reliable electricity supply
- Estimated construction cost: \$321 million
- Over 20 years this cost is about 40% of the cost of existing diesel system
- Serves forecasted loads of the connected communities to the year 2029 and beyond
- System performs acceptably with 0 MW to 50 MW of renewable generation projects connected to the backbone, requires further modeling to confirm ability to accommodate up to 200 MW of generation
- System can accommodate a wide range of mining & other industrial loads

Proposed Concept for Electricity Supply to Remote NAN Communities

Benefits:

Community Socio-Economic Development

The proposed project provides remote communities with:

- Reliable, safe electricity at a reasonable cost
- Broad band fiber optic telecommunications (*telehealth, distance education, high speed internet, cable TV, improved telephone service, etc.*)
- An electricity supply that is no longer an impediment for community growth, including building of:
 - Homes
 - Schools
 - Arenas
 - Community businesses
- Construction jobs and spin-off economic benefits created during the building of the network
- Long term employment opportunities in the local electricity systems:
 - skilled distribution tradesmen
 - power line trades staff
 - electricians
 - vegetation management
 - management & administrative staff
- Opportunity for First Nations to have equity to share in the project
- Lower environmental emissions



Skilled First Nations Trades Staff at Work in Attawapiskat (December 2008)

Regional Economic Development

The proposed project enables:

- Development of renewable generation projects– up to 200 MW of small hydro and wind projects identified in the area
- Potential mining projects that are not economically viable without availability of an affordable electricity supply

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