Rural Project #4

Providing Fixed Wireless Access in the Township of Lake of Bays
CENGN Residential Broadband Program

**Goal**
Support and validate innovative technology solutions and new business models to expand broadband access to rural and remote communities.

**Program Elements**
- 12 projects across Northern and Rural Ontario over the last 2 years
- 3-6 months to full service to prove residential broadband technology solution
- High speed reliable 50/10 internet services to underserved residents
- 50% of expenses funded by CENGN to solution provider, up to $500K per project
- No cost to host community participating in residential broadband project
- Select solution providers with the drive, ability, experience, and technology to deploy a commercial service that meets the broadband needs of the community
- Technology solution could be extended to nearby communities easily

CENGN enables innovative tech solutions through its Rural & Northern Ontario Residential Broadband Program.

Project Overview for Township of Lake of Bays
Compile Collection of Blueprints for Broadband Innovation

Collection of Broadband Solutions Blueprints for Small Northern and Rural Communities

High on Innovation
Low on Cost

Project Overview for Township of Lake of Bays
Problem Statement for Rural Project #4

Utilizing one or more available access corridors, in whole or in part, to extend broadband access to underserved residences. Example of Access Corridors include, but not limited to abandoned rail beds, unused road allowances, recreation trails, municipal right of ways, municipal properties etc.
Township of Lake of Bays – Service Level Estimates

Project Overview for Township of Lake of Bays

- Waterfront properties
- Permanent population – 3167
  Seasonal population – 11,720
- Geography: Abundance of trees, lakes and rocks
- Widely underserved
Service Provider: Lakeland Energy

Lakeland Energy is an established regional ISP providing optical and wireless broadband to 6,300 customers across Parry Sound – Muskoka area.

Lakeland Networks is the retail brand of Lakeland Energy.

Over 500 km of fibre optic network and 118 towers for wireless infrastructure.

Coverage area of 4,000 square kilometers.

Service offerings include Internet, Phone and Digital TV services.
Lakeland will utilize existing fibre backhaul to Bigwin Island.

At the Fox point location, Lakeland has an existing abandoned tower site within a municipal road allowance.

A new 100’ Super Titan tower will be installed to provide a wireless solution to 225 underserviced homes, around the 10 Mile Bay, and into Emerald Bay.
Community Benefits of Project

- Very high backhaul capacity
- Optimal location for service coverage: Structure relocated closer to the waterfront
- Choice of new high performance 25/5 and 50/10 broadband internet access
- Quick deployment leading to faster time to service
- Easy expansion for potential future builds
THANK YOU!