

Technical Challenges for Residential Broadband in Northern Ontario

CENGN has done a comprehensive analysis of the technical challenges which severely impact the possibility that ISPs or larger service providers will invest in small northern communities in Ontario and across Canada to provide broadband residential services, as well as the business cases different technology solutions will support.

This presentation will first identify some of the leading technical problem statements for these communities, then will discuss a CENGN funded Northern Community technology project. In this project a Northern Community was offered the chance to test a new approach offered by a local ISP to improve broadband services. The project used a 10 km broadband POP extension to an underserved community.

CENGN is the Centre of Excellence in Next Generation Networks. Our mission is to drive technology advancement, talent development, solution integration, and advisory services, through our test bed, expertise, and partner eco-system, to accelerate innovation and commercialization in the ICT industry. CENGN also has a mandate to define and drive technology projects that promote business case and technology innovation in residential broadband to make a difference for small Northern and Rural Communities in Ontario. My role is to define, fund, and execute up to 6 projects over the next 3 years for rural and northern residential broadband improvement working with communities, ISPs, WISPs, technology vendors, and system integrators.