

Labrador West Transmission Expansion Project

May 2026 Update



Lab West Transmission Expansion Study

- To support future industrial developments in the region, NL Hydro undertook a feasibility study to assess expansion of the electrical transmission system to Labrador West.
- A single 735 kV transmission line was identified as the preferred solution; enabling strategic economic development and meeting clean-energy objectives.

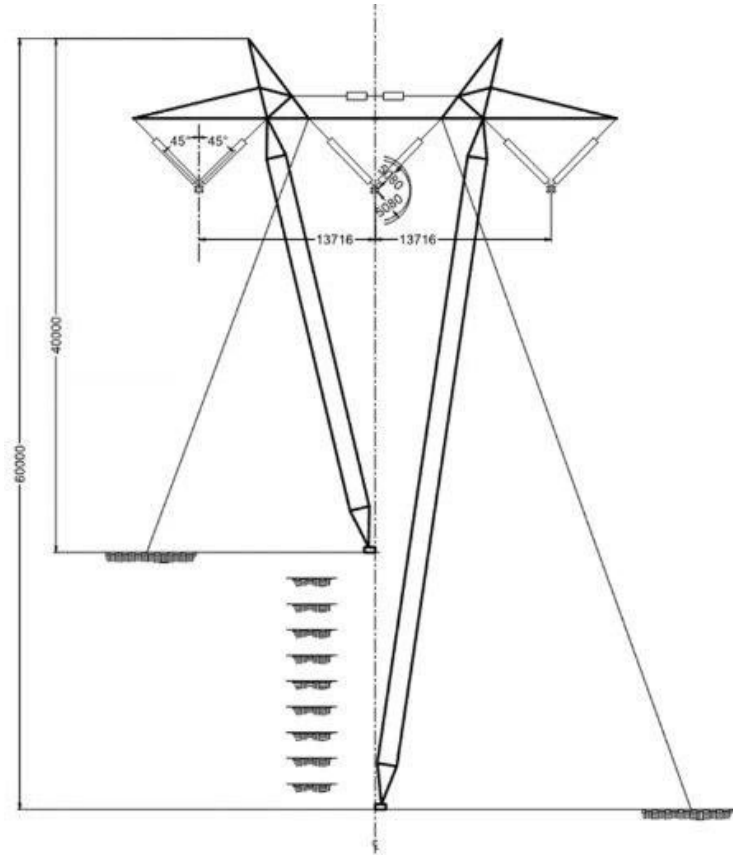


Figure 2-5: 735 kV Guyed V Tower - Indicative Design Sketch



735kV Transmission Expansion

Capacity & Performance Benefits:

- Maximum power transfer limit: ~1500 MW (roughly 4x current supply to Labrador West)
- Enhanced reliability
- Better support for future industrial development

Project Structure (two components):

1. Labrador West 735 kV Transmission Line (80–100-year design life)
2. Flora Lake Regional Terminal Station (built in stages as industrial load grows)

The system would operate at a lower voltage initially, transitioning to higher operating voltages as industrial demand grows.

NL Hydro's Focus for 2026

Front End Engineering



- FEED-level Engineering
- 2026 Geotechnical Field Investigations (summer/fall)
- Cost Estimating (AACE Class 3)
- Determination of Contingency & Management Reserve
- Environmental Permits
- Independent Project Review planning

Commercial Planning



- Asset Ownership Structure
- Project Financing plan
- Legislation and policy considerations
- Labrador Industrial Rate mitigation recommendations
- Opportunities for power supply
- Independent Financing Review planning

Engagement & Consultation



- Engage with potential Industrial customers
- Conduct meaningful Indigenous Consultation
- Engage with municipalities and interest groups
- Engage with potential suppliers and Chambers of Commerce