



NORTHWEST TERRITORIES
LEGISLATIVE ASSEMBLY
TERRITOIRES DU NORD-OUEST
ASSEMBLÉE LÉGISLATIVE

MEETING GO 88-20-26

STANDING COMMITTEE ON GOVERNMENT OPERATIONS

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THURSDAY, MAY 7, 2026
EAGLE ROOM, LEGISLATIVE ASSEMBLY
9 AM

AGENDA

1. Call to Order
2. Prayer/Reflection
3. Review and Adoption of Agenda
4. Declarations of Conflict of Interest
5. Public Matters
 - a) Public briefing on North Slave power grid modernization with the Honourable Caroline Wawzonek, Minister Responsible for the Northwest Territories Power Corporation (NTPC), Judy Goucher, Chair of the NTPC Board of Directors, Cory Strang, Chief Executive Officer of the NTPC, and Belinda Whitford, Chief Operating Officer of the NTPC
6. In Camera Matters
 - a) Debrief
 - b) Correspondence review
 - i. 2026-05-06 – Confidential
 - ii. 2026-05-06 – Confidential
 - iii. 2026-03-06 – Minister of Finance – Working Group on the Implementation and Monitoring of GNWT Recruitment and Retention Initiatives
7. Date and Time of Next Meeting: At the Call of the Chair
8. Adjournment

North Slave Power Grid Modernization

Presentation to Standing Committee on Government Operations

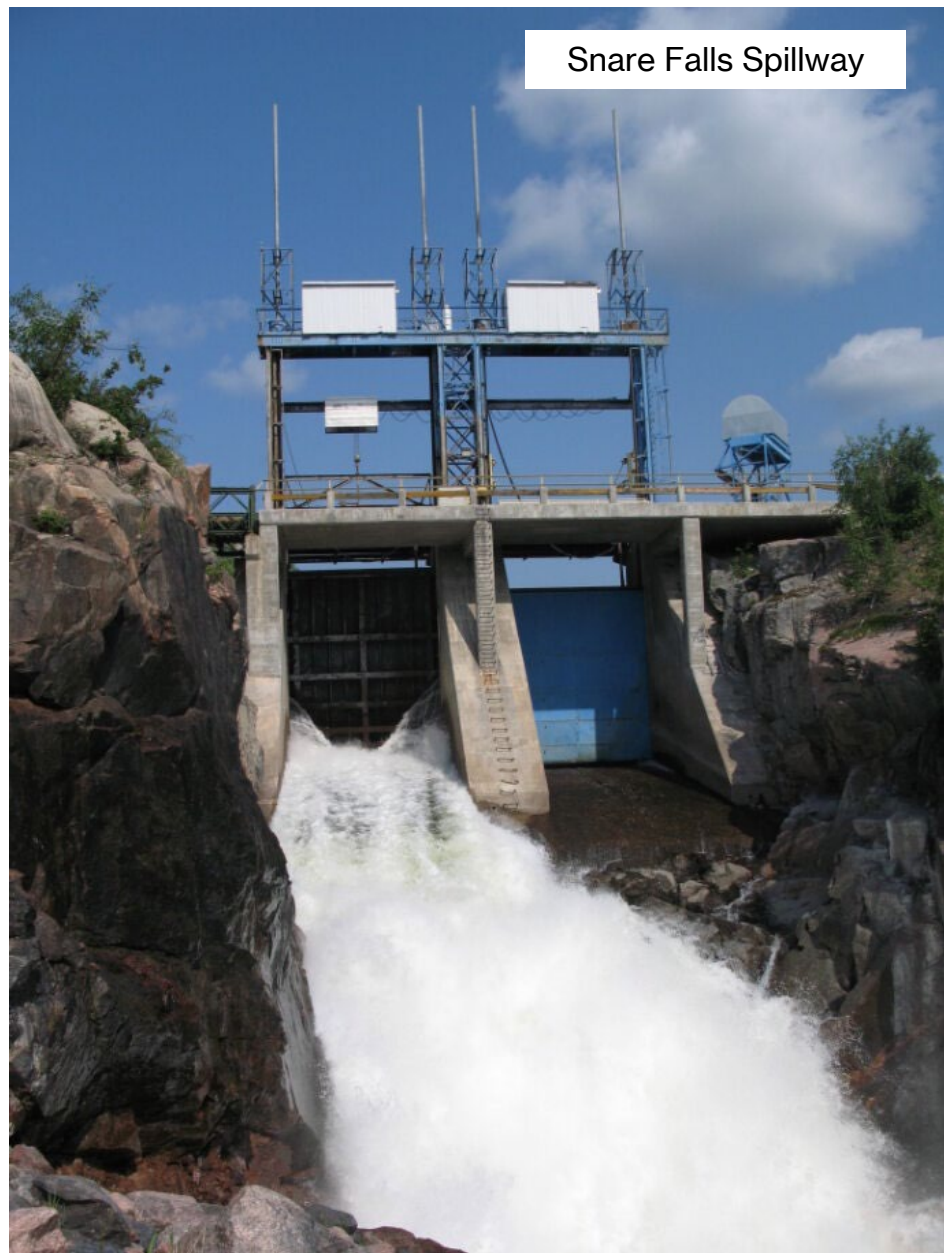


Snare Rapids Main Dam and Powerhouse

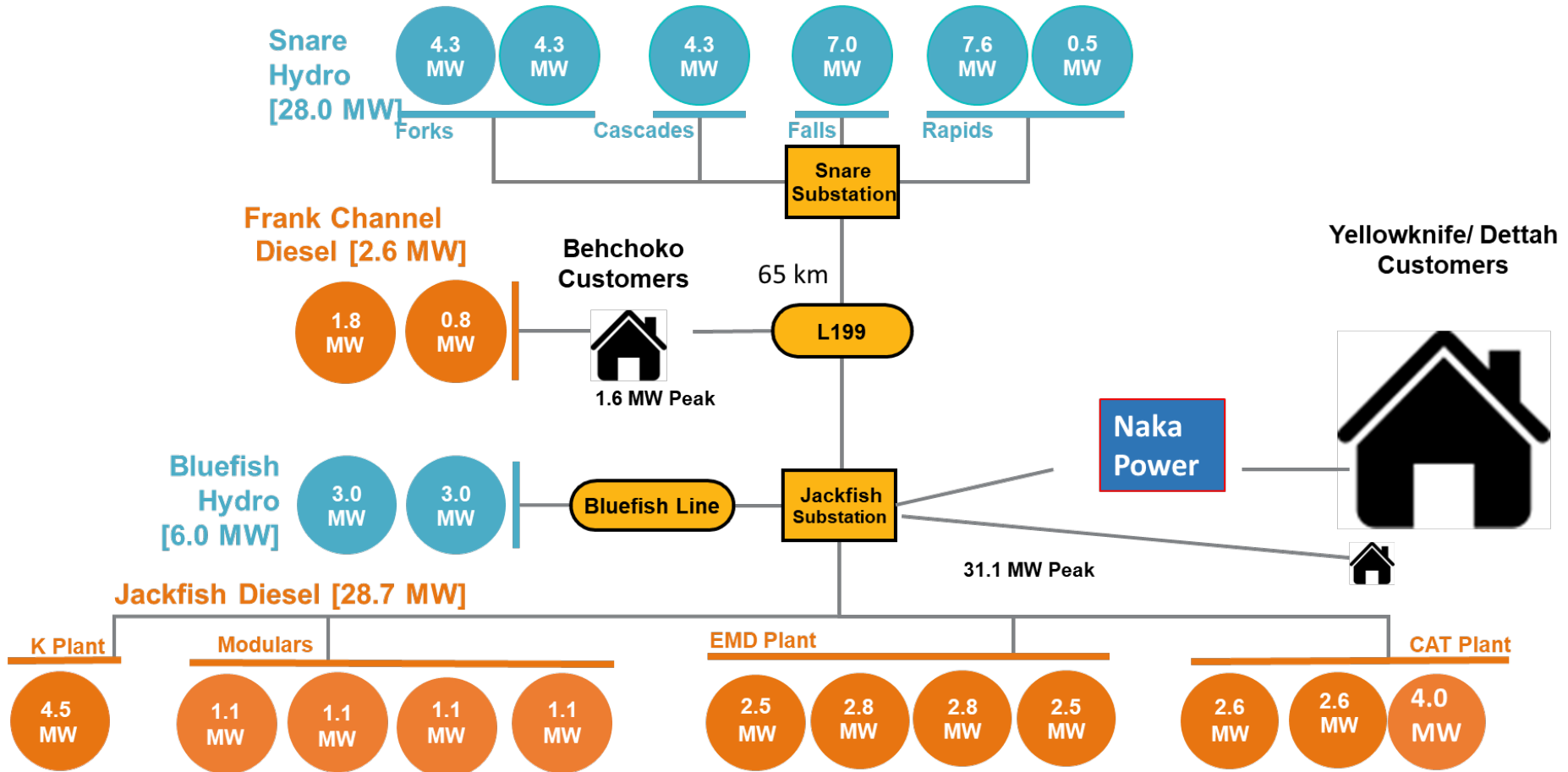
May 7, 2026

Agenda

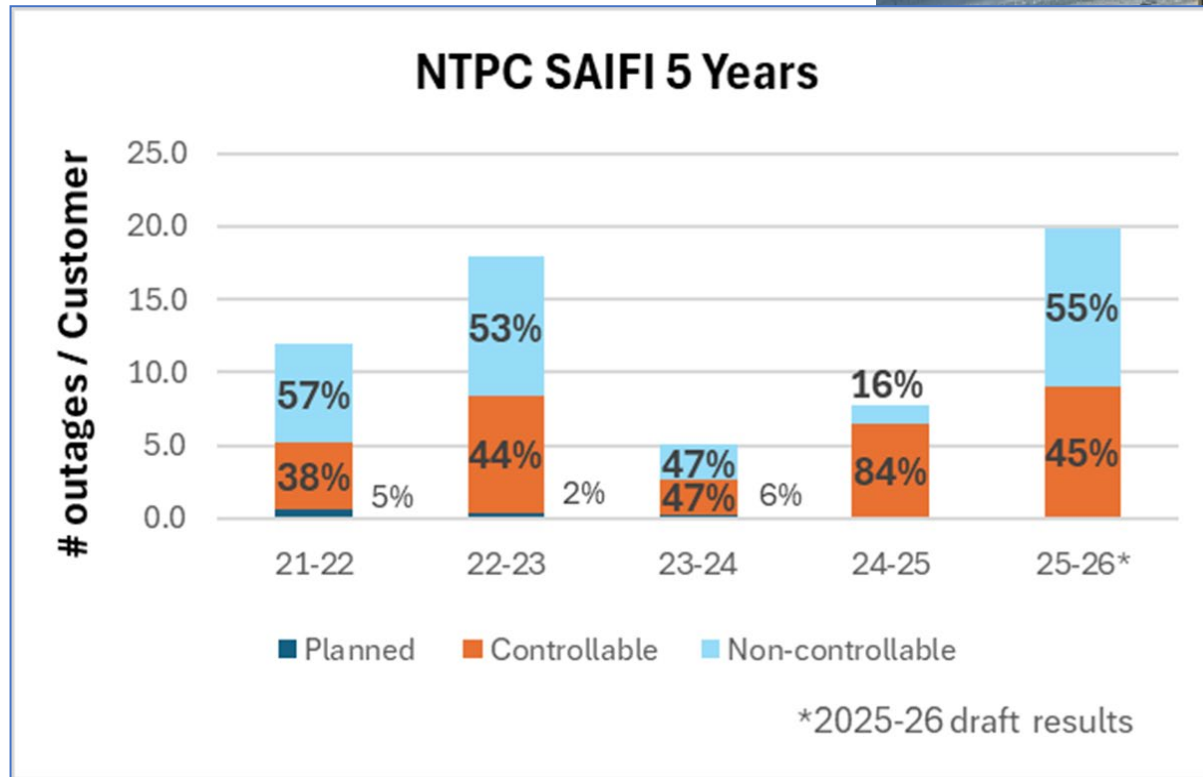
1. System Background
2. Outages
3. Current State
4. Grid Modernization



System Background



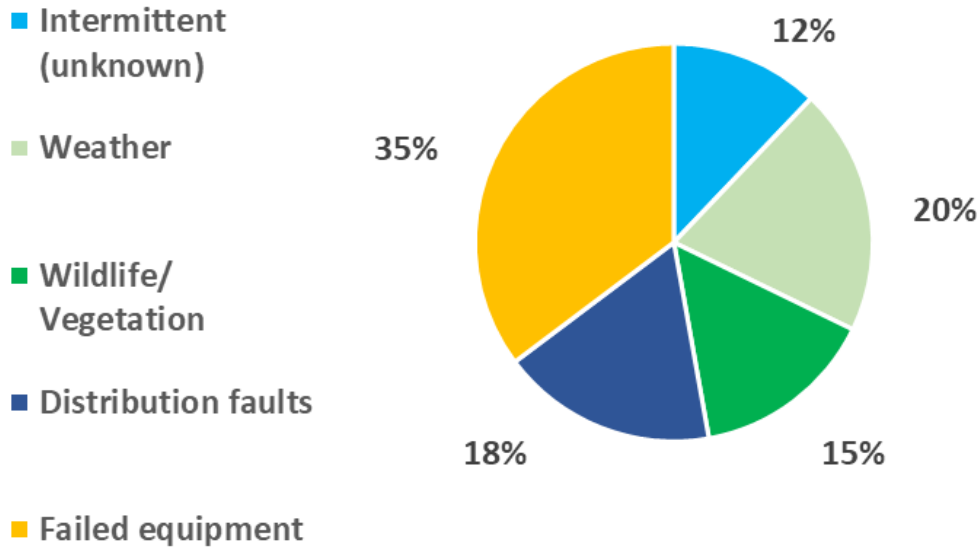
System Background



SAIFI: the number of customer interruptions in a year weighted by the number of customers impacted.

Outages

SAIFI Causes 2025-26 Outages*



Current State Reliability Improvements

2025-26	2026-27	2027-28	2028-2032
Improve communications Strengthen Coordination			
North Slave Protection Study			
Vegetation management			
Address known issues			
Asset management refocus			
Snare Grid Modernization			

Future State - Grid Modernization

Problem Statement:

Develop a Modernization Plan for the Snare system that addresses **future low water, reliability and load growth**.

The plan will consider the following inputs/constraints:

- Snare Resiliency study, Jackfish backup study, North Slave Protection study, GNWT Hydropower Assessment study
- Medium & Long-term load forecast scenarios (Department of National Defense, mining, electrification)
- GNWT Energy & Climate Change Strategy update
- 2025 GNWT Electricity Policy Directions to the PUB
- Consider the Taltson Expansion Project

Future State - Grid Modernization

Deliverables and Measuring Success

- The options will include technical solutions such as increased generation, water storage and non-technical solutions such as a customer funded low water savings account.
 - Solutions will be combined to address scenarios.
 - All scenarios will be assessed against the following seven categories.
1. **Climate & Economics** - minimize rate impacts and maximize climate friendly investments
 2. **Timing** - DND has hard deadlines and adoption of electrification will vary
 3. **Reliability** - Requirement for firm capacity and not all solutions increase firm capacity. What will be the impact on outages (frequency & duration of outages)
 4. **Low Water Mitigation** – Mitigation of future low water events from both a financial and environmental perspective
 5. **Financing** - What are the funding options to minimize rate impacts and the financial strain on NTPC and the GNWT
 6. **Stakeholders** – Engagement with influential stakeholders is key for success
 7. **Risks** – Can the risks be effectively managed with planned or probable events

Future State – Grid Modernization

Four Load Growth Scenarios

1. **Low Growth** - Community growth only
2. **Net Zero Growth** – Electric Vehicle and Electric Heat load growth
3. **DND Growth** - Increased sales from direct DND investment and indirect city growth
4. **Maximum Growth** – Combines Net Zero and DND Growth

	Peak Load Forecast (MW)	Annual Sales Forecast (GWh)
Current	35	190
Low Growth	37 (+5%)	200 (+5%)
Net Zero Growth	71 (+102%)	350 (+84%)
DND Growth	48 (+37%)	287 (+51%)
Maximum Growth	84 (+139%)	447 (+135%)

- Growth scenarios do not include traditional mines
- Direction letter to the PUB for load growth, heating rates in hydro zones and Electric Vehicle rates
- Importance of multiple load growth scenarios

Grid Modernization

Possible Options

- Increased water storage at Snare
- Increased stackable LNG/Diesel generation in Yellowknife
- Nàìlǔ Power Project
- Battery Energy Storage Systems
- Demand Side Management (time of use rates)
- Renewable Independent Power Producers
- Secondary Transmission Line
- Transmission line from Fort Providence to Behchoko
- Optimize Water Management
- Customer funded savings account for low water

A combination of options will be required



Grid Modernization

Next Steps

- Present to the Board of Directors in June 2026
- Possible recommendation to the Board of Directors in September 2026
- Refine the cost estimate and stakeholder engagement
- Solidify third party funding opportunities
- Submission to the NWT Public Utilities Board (PUB)
- NWT Public Utilities Board will develop a public review process



Snare Rapids Main Dam and Powerhouse



The Honourable Caroline Wawzonek

Minister Responsible of Northwest Territories Power Corporation

Thank You