From: emartin@nalcorenergy.com

To: Bown, Charles

Subject:Cabinet Presentation for TomorrowDate:Wednesday, June 24, 2015 5:46:43 PM

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Cabinet Update June 24, 2015.pptx

Cabinet Update

Lower Churchill Project Phase 1 June 25, 2015





Corporate Structure



Functional Support: Finance, Strategic Planning & Business Development, Engineering, HR, EHS, Communications, Legal, Audit

NL Hydro

Churchill Falls

Oil & Gas

Lower Churchill Bull Arm Fabrication

Energy Marketing















Our Vision

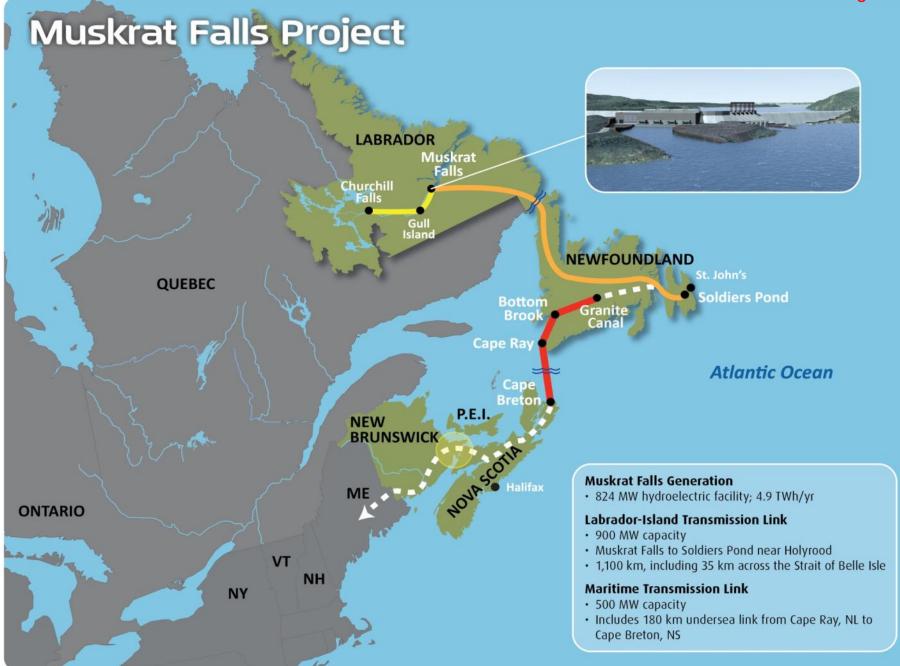
"To build a strong economic future for successive generations of Newfoundlanders and Labradorians"



Nalcor – Newfoundland and Labrador's Energy Company

- Wholly owned by the people of the province, commercially focused to meet shareholders' expectations
- Tasked to take a lead role in the development of our energy resources
- Maintain large base of energy assets
- A tool for maximizing benefits to Newfoundland and Labrador
- Structured to compete and partner with other large national and international businesses
- Long-term value generator Profit-focused with social and economic objectives





PROJECT BACKGROUND AND RATIONALE



Project Background and Rationale

- NL needs more power overall
- MF/LIL determined to be lowest cost option following extensive alternatives review
- Replaces Holyrood Thermal Generating Station > 40 years old
- Investment in an asset we own, returning value and cash flow in excess of \$30 billion to the people of the province
- Paying ourselves, as opposed to paying for oil to outside companies

 we are "buying", not "renting"
- Benefits are inter-generational 100+ year benefits benefits future generations
- Clean power; power generation in our Province will be 98% GHG free, and avoid emerging future risk of costs of carbon
- Significant construction benefits; jobs for NL's, and economic benefits for NL businesses



Project Background and Rationale

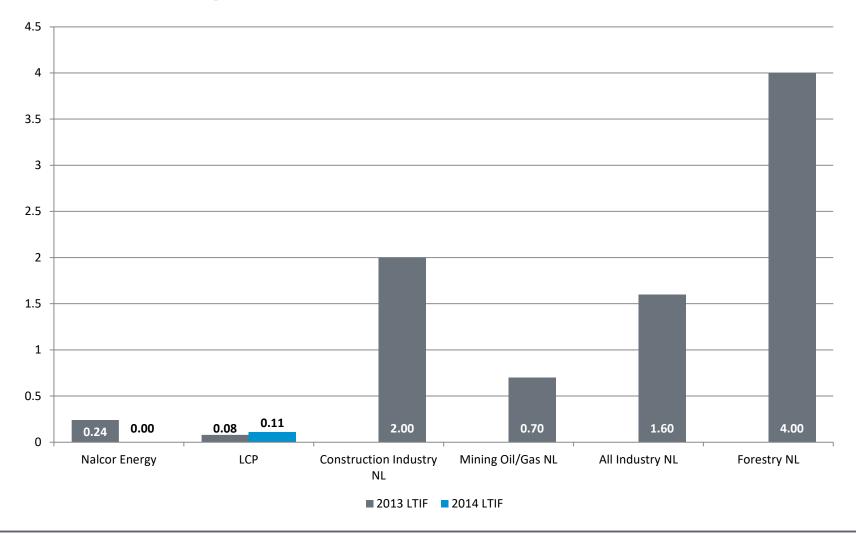
- Creates surplus power for NL needs and export export revenue for people of province
- Both Labrador and the Island are connected 2 ways to North America markets for first time in history
- Significant improvement in system reliability as the island is now connected to neighbors
- Interest rates locked in at historic lows
- Federal Loan Guarantee acquired in recognition of regional GHG reduction benefits from the project
 - will save > \$6 Billion over life of project financing, 35 years for MF and 40 years for LIL
- Historic "New Dawn" agreement with Innu achieved
- Environmental approvals in place



PROJECT PROGRESSING ON ALL FRONTS

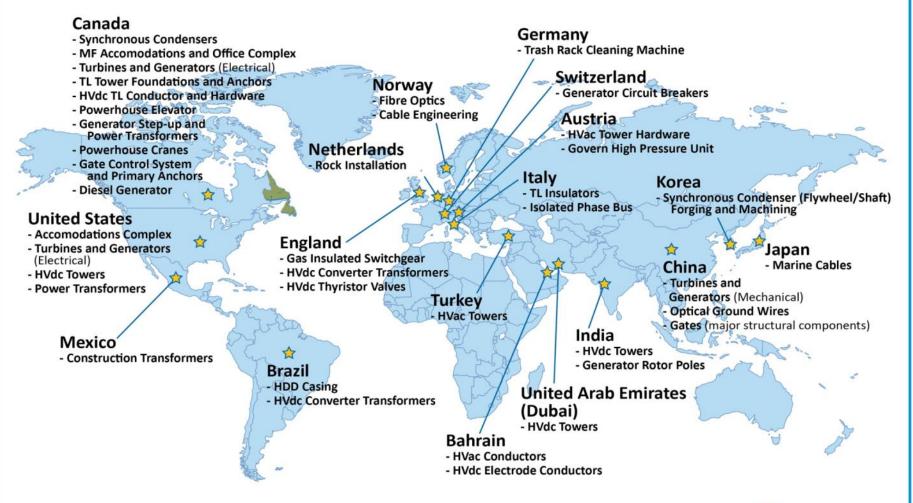


LTIF Comparison – Lower Churchill





Lower Churchill Project Global Reach





LTA - Recent Activities

- HVac construction continuing:
 - 478 towers erected
 - 769 towers assembled
 - 1118 foundations installed
 - 811 anchors installed
- Continued conductor stringing operations



LTA – Upcoming Activities

- Continue tower assembly and erection
- Continue stringing operations



Tower Assembly





Foundation Installation





LTA – Tower Erection





Stringing Operations





Stringing Operations





L-ITL Recent Activities

- Valard continuing temporary layoffs during spring melt
- HVdc construction:
 - 13 towers erected

- 368 towers assembled
- 244 foundations installed
- 65 anchors installed
- Earthworks continuing at grounding stations in Dowdens Point (~40% complete) and L'Anse au Diable (work just beginning)
- Civil works continuing at Soldiers Pond Synch Condensers
- SOBI land cable completed and enroute to NL



L-ITL Upcoming Activities

- Valard to recall workforce and resume operations once ground conditions improve
- Continue ROW clearing
- Finalize contract for civil works to support installation of SP synch condensers
- Finalize contract for construction of AC substations;
 mobilize to MF/CF/SP June
- Commence installation of SOBI land cable in August

L-ITL tower construction



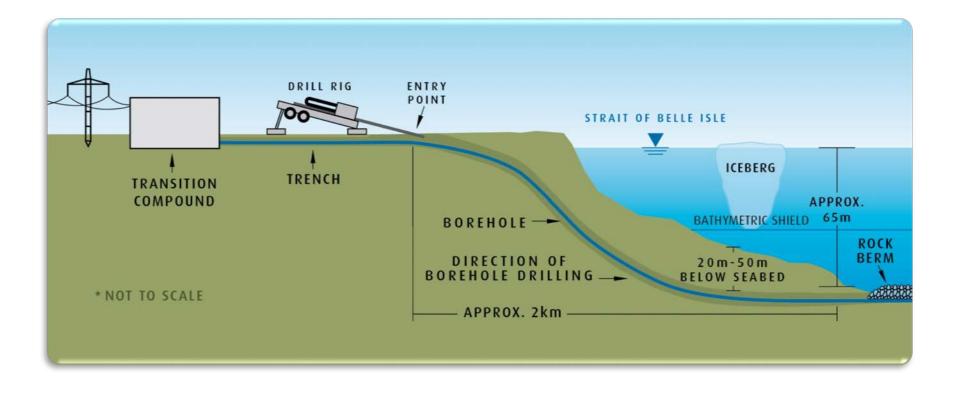


L-ITL ROW





Horizontal Directional Drilling



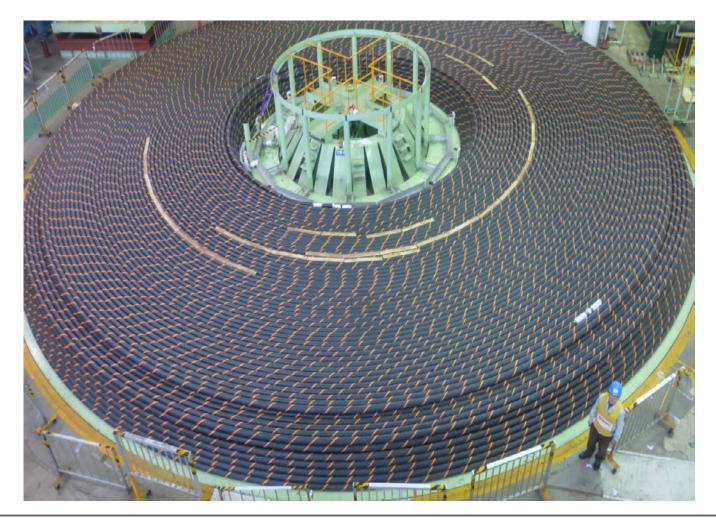


Conduit Casing





SOBI Submarine Cable





SOBI Land Cable







L-ITL - SOBI cable termination





Soldiers Pond





Dowden's Point





L'Anse au Diable





Muskrat Falls – Recent Activities

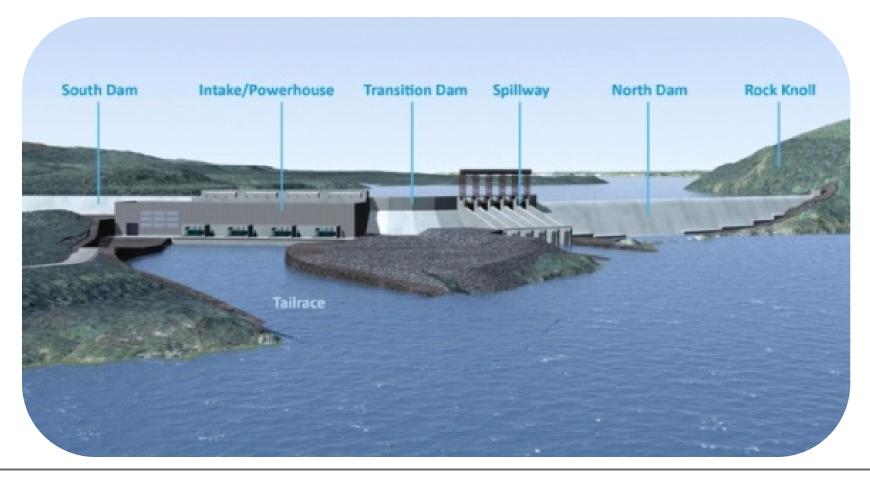
- Astaldi:
 - Concrete production for May ~ 14,000 m3
 - Significant increase in activity in powerhouse
 - Intake
 - Base Slab
 - South Side Elevator
 - Continuing concrete work on spillway piers
- Earth stabilization program continuing on North Spur;
 Geotechnical conditions proving to be favorable
- Manufacturing continuing on TGs, Gates
- Continuing stack up testing of Turbines and Generators

Muskrat Falls – Upcoming Activities

- Continue concrete work on spillway
- Continue concrete work in powerhouse area
- Continue North Spur stabilization activity
- Turbine and Generator manufacturing continuing
- Gates manufacturing continuing
- Andritz preparing to mobilize to MF site in August to commence installation of gates



Muskrat Falls Site





Turbine & Generator – Runner Blade





Turbine





Stay Ring





Spillway





Spillway and Centre Transition Dam



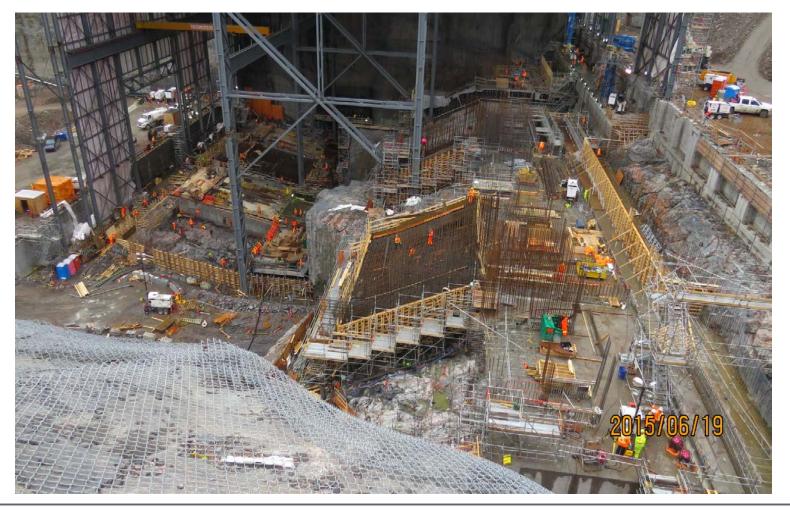


Spillway and Centre Transition Dam





Powerhouse Intake





Units 3 and 4





Units 1 and 2





North Spur





North Spur





Sharing our ideas in an open and supportive manner to achieve excellence.

Teamwork

Open Communication Fostering an environment where information

moves freely in a timely manner.

Honesty and Trust

Being sincere in everything we say and do.

Relentless commitment to protecting ourselves, our colleagues, and our community.

Safety

Respect and Dignity

Appreciating the individuality of others by our words and actions.

Leadership

Empowering individuals to help, guide and inspire others.

Holding ourselves responsible for our actions and performance.

Accountability

