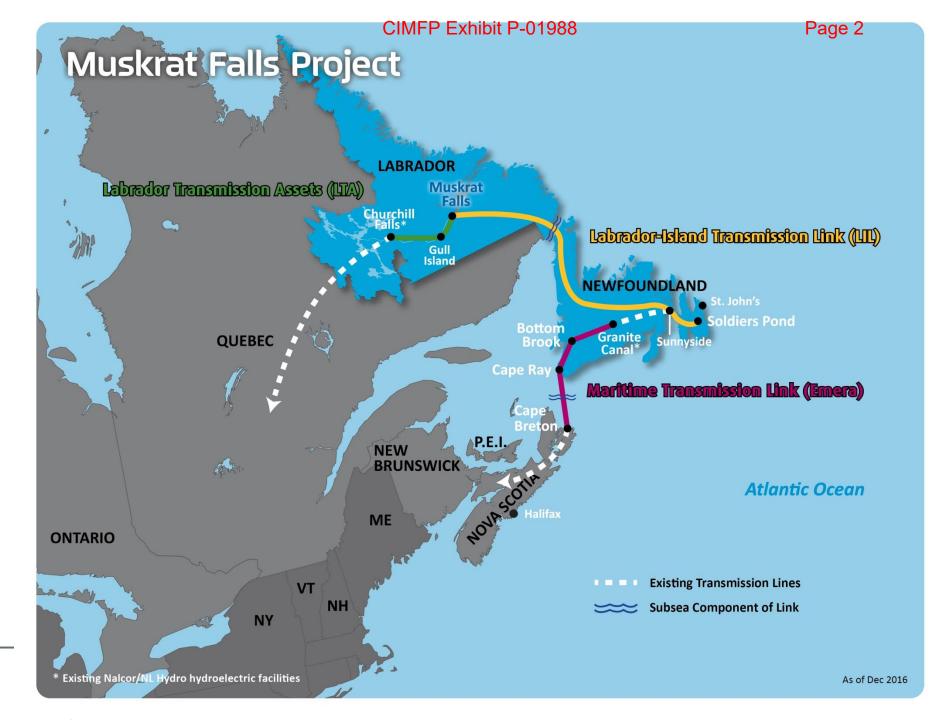
Understanding Muskrat Stan Marshall, CEO Nalcor Energy

February 15, 2018

Boundless Energy







2017 – A Year of Success

- Exceptional performance with 89% construction complete
- Settled all major claims and finalized performance-based agreements
- Raised \$2.9 billion with Federal Loan Guarantee
 - Reduces required equity from Province by \$2.7B
 - Reduces domestic electricity rates by 1.5 cents per kwh



POWER GENERATION (MUSKRAT FALLS)



Generation Site





CIMFP Exhibit P-01988 Muskrat Falls Generation



- 824 megawatts; 4.9 terawatt hours/yr (TWh)
- Projected facilities costs:
 - Sanction \$2.9B
 - June 2017 \$5.5B
- Projected in service dates:
 - Sanction: first power Q4 2017; full power Q2 2018
 - June 2017: first power Q4
 2019; full power Q3 2020
- Emera to receive on average 20% of energy for 35 years at no cost and an additional 5% during first five years, delivered during offpeak.



CIMFP Exhibit P-01988 Muskrat Falls Generation



- Major work completed:
 - North Spur stabilization

Page 7

- South dam
- Powerhouse enclosed
- Ice/safety boom installed
- North Dam 40% completed

78% construction completed





Intake







Tailrace





Page 10

North Dam





Powerhouse Units 1-4





Page 12

North Spur (Downstream View)





Page 13

North Spur (Upstream View)





North Spur (Upstream View)





Page 15

North Spur (Upstream)





POWER SUPPLY (TRANSMISSION)



Labrador-Island Link (LIL)



99% construction completed

- 1,100 km line from Muskrat Falls to Soldiers Pond
- 30 km across the Strait of Belle Isle (SOBI)
- SOBI completion by end of 2016
- Projected facilities costs:
 - Sanction \$2.6B
 - June 2017 \$3.7B
- Projected in service dates:
 - Sanction: Q2 2017
 - June 2017: Q2 2018
- Emera provides equity contribution plus interest of \$0.8B based on current estimates to receive regulated utility rate of return



Soldiers Pond



 AC switchyard constructed, energized and fully integrated into NL Hydro system

Page 18

Synchronous
 condensers and
 converter stations
 nearing completion



Muskrat Falls

CIMFP Exhibit P-01988



- Converter station and AC switchyard nearing completion
- Commissioning work underway
- Energization planned for Q1 2018



Page 20

Labrador Transmission Assets (LTA)



99% construction completed

- Churchill Falls to Muskrat Falls
- Two, 250 km 315 kilovolt lines
- Projected facilities costs:
 - Sanction \$692M
 - June 2017 \$894M
- Projected in service dates:
 - Sanction: Q2 2017
 - June 2017: Q2 2018



Churchill Falls



- Switchyard construction 99% complete
- Commissioning work underway
- Energization planned for Q1 2018



Page 22

Maritime Link (Emera)



- Constructed, owned and operated by Emera for 35 years
- 500 MW capacity
- 170 km undersea link from Cape Ray, NL to Cape Breton, NS
- Projected facilities cost \$1.58B
- Testing commenced Q4 2017; commissioning in progress
- Nalcor has transmission rights to import/export power

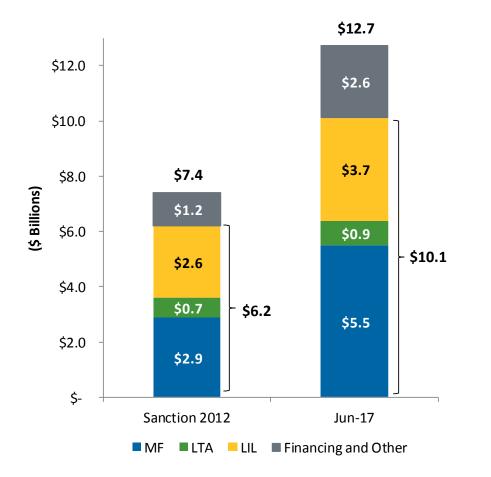


MUSKRAT FALLS PROJECT COSTS

(DATA AS PER JUNE 2017 UPDATE)



CIMFP Exhibit P-01988 Page 24 Muskrat Falls Projected In-service Capital Cost



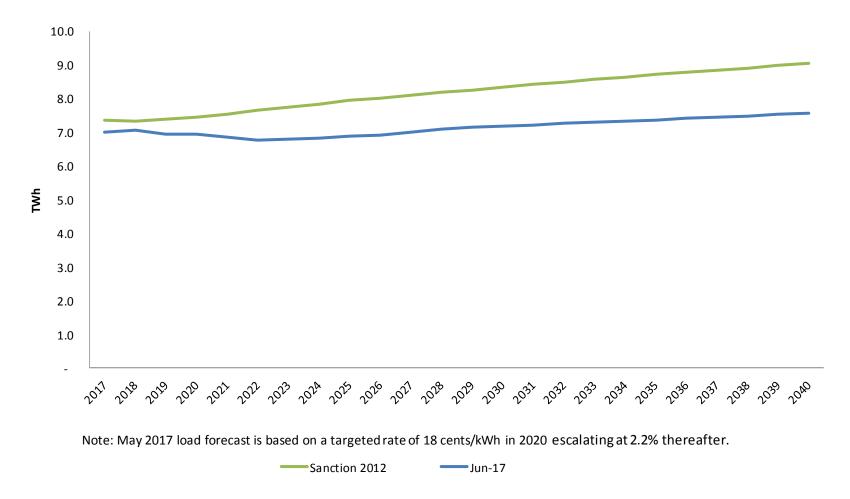


Overall Project Cost Increase – Contributing Factors

- Original cost estimates were optimistic/overly aggressive
- Risks of the project were underestimated at the beginning
- Lack of experience of some contractors working in our harsh environment
- Early execution by some major contractors was poor

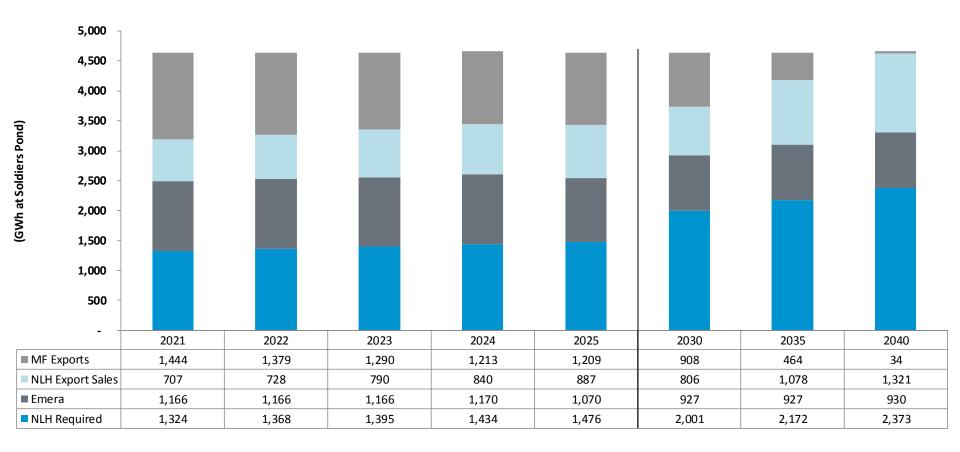


NL Hydro Island Interconnected Sales





Muskrat Falls Energy Deliveries

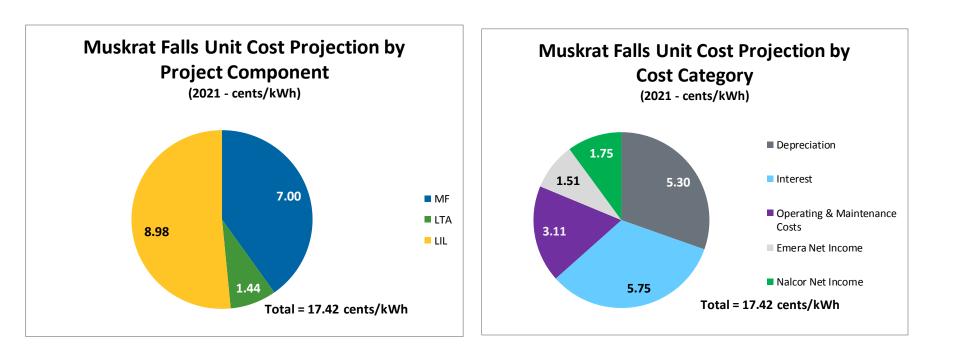




Page 28

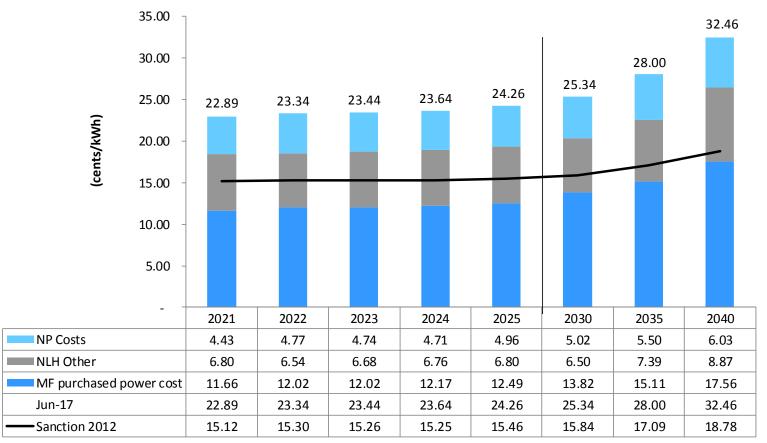
Unit Cost Projections

(For energy delivered at Soldiers Pond)





CIMFP Exhibit P-01988 Page 29 Island Interconnected Domestic Rate Projections



Current wholesale and domestic rates are 7.5 cents/kWh and 11.7 cents/kWh (excluding HST), respectively.



Mitigation Measures

- Extend Federal Loan Guarantee (complete)
- Transmission infeed in advance of Muskrat generation
- Targeted purchases and sales of energy through Quebec and Maritimes interties



2018 Focus - Transmission

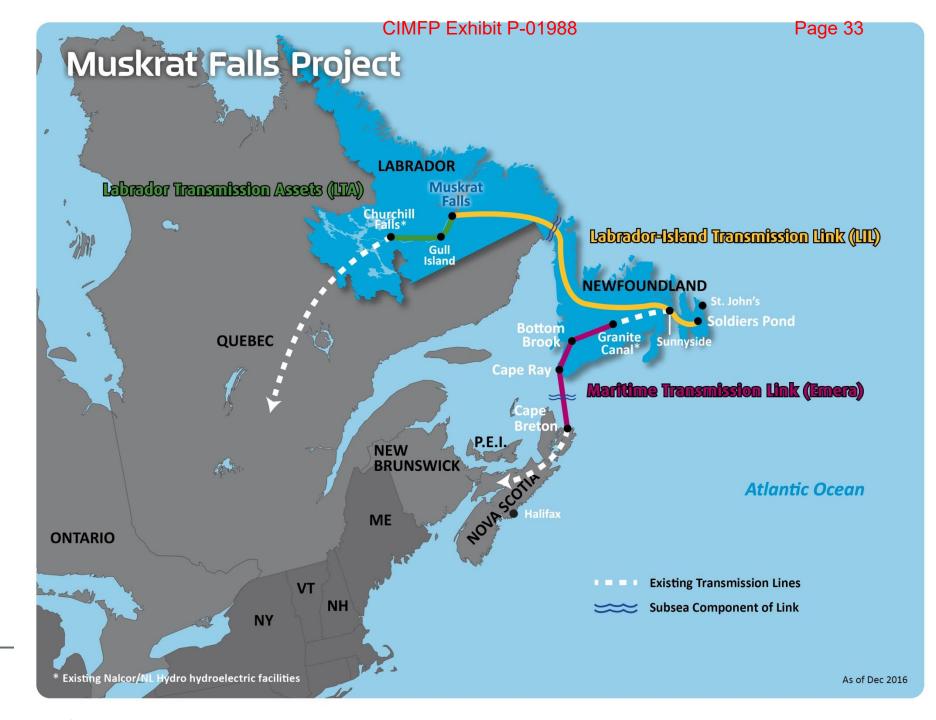
- Maintain safety focus
- Completing construction and commissioning work required to energize the transmission lines for power delivery to the island from Churchill Falls in mid-2018



2018 Focus - Generation

- Maintain safety focus
- Continue with installation of turbine and generator components
- Complete the North Dam
- Prepare for first power in 2019





6 Stages of a Mega Project

- 1. Wild Enthusiasm
- 2. Disillusionment
- 3. Confusion, Panic and Hysteria
- 4. Search for the Guilty
- 5. Punishment of the Innocent
- 6. Reward the Uninvolved

