

Planned Transmission Infrastructure Upgrades (November 2018)

Project Name	Description	Status (Committed / Proposed / Under Study)	Schedule Range
L1242 138KV Line from Keswick to Sisson	Build a new 42 km 138KV transmission line from Keswick Terminal to Sisson Mine. A new 138 kV transmission line will be constructed from the Keswick terminal to a new mining operation located in the Sisson Brook area. The line is expected to be completed by 2020. This project is dependent on the outcome of the customers Environmental Impact Assessment.	Committed	2019-2021
Line 2145	Line 2145 (Keswick Terminal to Salisbury Terminal) – Life Extension	Committed	2018-2019
L0018 dismantle	Line 18 (Grand Lake Terminal to Marysville Terminal) – This line will be dismantled in FY20/21. The scope in FY18/19 is to rebuild 2.8 km of L0018 from Grand Lake terminal to Grand Lake substation and add a capacitor bank at Jemseg substation (1 x 5.0 MVAR 69 kV cap bank, minor yard expansion and control building)	Committed	2018-2019
Line 0024	Line 0024 (Moncton Terminal to Memramcook Terminal) – Life Extension	Committed	2018-2019
Line 0045 Submarine Cables (Grand Manan)	Replace undersea cable portions of the Line 0045. The 69 kV line is a combination of overhead line and undersea cable running from St. George to Grand Manan. It is to be replaced in the year 2019. The cable will be 40 years old at that time and will have reached its maximum life expectancy.	Committed	2018-2019
Line 0063	Line 0063 (Bathurst Terminal to Caraquet Terminal) – Life Extension	Committed	2018-2019

Line 0104	Line 0104 (Tap L0012 to Neguac Substation) – Rebuild (23 km)	Committed	2018-2019
Line 1121	Line 1121 (Tap L1104 at Fredericton Junction to Oak Bay Terminal) – Life Extension	Committed	2018-2019
Line 1149	Line 1149 (Courtenay Bay Terminal to Norton Terminal) – Life Extension	Committed	2018-2019
Line 1160	Line 1160 (Memramcook Terminal to Nova Scotia) – Life Extension	Committed	2018-2019
Line 1163	Line 1163 (Tap L1149 to Gondola Point Substation) – Life Extension	Committed	2018-2019
Line 1187	Line 1187 (Tap L1149 to Loch Lomond Substation) – Life Extension	Committed	2018-2019
Line 1212 & 1212X	Line 1212 & 1212X (Norton Terminal to Irving Refinery Sub #3) – Life Extension	Committed	2018-2019
Saint John Area	Continue refurbishment of steel structures in the Saint John area	Committed	2018-2019
Beechwood TU2 Replace	New replacement generator step up transformer for Beechwood hydro station TU2 (T190)	Committed	2018-2019
Beechwood TSS2 Replace	New replacement station service transformer for Beechwood hydro station TSS2 (T204)	Committed	2018-2019
Nepisiguit Unit Transformers Replace	New replacement generator step up transformers at Nepisiguit Falls hydro station (TU1, TU2 and TU3)	Committed	2018-2019
Point Lepreau Station Service Spare	New spare station service transformer for Point Lepreau	Committed	2018-2019
Brunswick Mines Transformer	New replacement tie transformer for Brunswick Mines terminal (T154)	Committed	2019-2020

Grand Lake Transformer T1	New replacement tie transformer for Grand Lake terminal T1 (T192)	Committed	2019-2020
Oak Bay Transformer T1	New replacement tie transformer for Oak Bay terminal T1 (T205)	Committed	2019-2020
Memramcook Transformer T1	New replacement tie transformer for Memramcook terminal T1 (T282)	Committed	2020-2021
Eel River Reactor	New smoothing reactor for Eel River (SR1)	Committed	2020-2021
Beechwood Transformer T4	New replacement tie transformer for Beechwood T4 (T221)	Committed	2021-2022
Eel River Transformer T2	New replacement tie transformer for Eel River T2 (T263)	Committed	2021-2022
Eel River Transformer T1	New replacement tie transformer for Eel River T1 (T283)	Committed	2021-2022
Courtenay Bay Transformer T5	New replacement station service transformer for Courtenay Bay T5 (T234)	Committed	2022-2023
Beechwood Replace TU3	New replacement generator step up transformer for Beechwood hydro station TU3 (T249)	Committed	2022-2023
Beechwood Replace TSS3	New replacement station service transformer for Beechwood hydro station TSS3 (T264)	Committed	2022-2023
Sisson Replace TU1	New replacement generator step up transformer for Sisson TU1 (T307)	Committed	2022-2023
Millville Replace TSS	New replacement station service transformer for Millville TSS (T122)	Committed	2023-2024

Sisson Replace T1	New replacement station service transformer for Sisson T1 (T120)	Committed	2023-2024
Courtenay Bay Replace TU3	New replacement generator step up transformer for Courtenay Bay TU3 (T308)	Committed	2023-2024
Neguac Substation Upgrade	Construct a 23 km long 138 kV substation supply line. A new substation will be built in Neguac in 2018/2019. The new substation will re-place the existing Neguac substation.	Committed	2018-2020
L0068 Cable (Saint John)	Replace cable between Union St and Crown St	Committed	2018-2020
L0052 Cable (Saint John)	Replace cable between Union St and Cranston Ave	Committed	2022
Line Woodstock Terminal to Houlton Water Company	Houlton Water and gas have requested we build the line to connect them directly to our system. This will be paid for by Houlton Water Company.	Committed	2018-2019
Eel River 230 kV Transformer T3 Breaker	230/138 kV transformers T3 and T4 at Eel River are presently supplied from the same node on the Eel River 230 kV bus. Transformer T3 will be placed in the Line 2109 line position. A modest bus reconfiguration is required to facilitate the transformer position. The reconfiguration is expected in the year 2017 to allow these transformers to have separate supply nodes. The new configuration will improve the reliability of the supply to T3 and T4.	Under study	2019-2020
Fredericton South Transmission Evaluation	To ensure reliable power supply and satisfy load demands an area study has been completed. Solution details are being detailed.	Committed	2019-2020
OrganiGram Inc.	Construction of new 138 kV transmission line	Committed	2018-2019

Capacitor Bank Program	To ensure acceptable voltage levels, capacitor banks will be upgraded and installed in various locations.	Committed	2020-2025
Planned Transmission Infrastructure Upgrades Required due to Substation Changes			
Supply to Sussex West Substation	Either a substation expansion or a transformer upgrade will be built in Sussex in 2018/2019. Some line construction may be required.	Committed	2018-2019
Transmission Infrastructure Upgrades Under Study			
Southeast Transmission	The determination of transmission effectiveness and supply to existing and future loads is being evaluated. Interprovincial ties and implementation of new cables to Prince Edward Island could create opportunities.	Under Study	2018-2019