

Docket UE20735

Capital Budget 2023

Interrogatories submitted by John te Raa

IR-1 On an annual bases for the last 10 years, how were the three combustion turbines used in their standby and peaking roles? Please provide a breakdown in MWh for each of CT1, CT2 and CT3 for the following categories.

Off Load submarine cables

Curtailement by NB Power

NB Power Hold-to-Schedule

Lepreau related such as tripped off

On-Island transmission related

Unit testing

Other

IR-2 For each of the last ten years for the categories listed under IR-1 what were the number of annual occurrences.

IR-3 In response to my IR-1 UE20946 GRA dated July 29, 2022, Maritime Electric identified that for the years 2025 and 2026 it has available 327 and 332 MW respectively.

In January 2022 PEI set a new system peak of about 325 MW. This peak may or may not be exceeded before 2027, most likely depending on temperature drops below minus 19 degrees Celsius on a weekday. At 90% share plus 15% planning reserves, Maritime Electric system peak is now 335 MW more or less. This is more then the 332 MW peak capacity contracted for 2026.

Maritime Electric needs to purchase additional short term capacity as part of UE20946 the General Rate Application now before IRAC. What is the annual cost of the additional capacity required?

For the years 2025 and 2026 what is the cost per MW for an additional 20 MW should CT-1 not be available to provide system capacity?

IR-4 138 kV Breaker Replacement Program (Justifiable) \$ 153,000. Transmission lines Richmond Cove Cable Riser Station to Bedeque Switching Station.

Setting aside ownership related matters. This transmission system, lines Y-101 and Y-103, is part of the original 1978 transmission system between Bedeque and Memramcook New Brunswick.

This breaker replacement is part of a six year \$9,470,000 capital replacement program.

What will be the expected life of this transmission system upon completion of this program?

What is the current expected life of submarine cables numbers one and two?

What is the expected life of the associated New Brunswick transmission system to Memramcook?

IR-5 Are lines Y-101 and Y-102 energized at all times? Are the lines metered separately?
What percentage of annual energy import to PEI comes across these two lines?