

1 **Q. (Reference NP 2023 Capital Budget Application, Schedule B, pages 85 -87)**
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3 **The Long Pond Substation Capacity Expansion Project is expected to be**
4 **completed by mid-2023 and will provide increased capacity of electrical supply**
5 **to Memorial University and include a new 25 MVA power transformer. Once this**
6 **expansion is completed, will there not be sufficient capacity and flexibility (as**
7 **MUN can switch between using its new electric boilers and using oil-firing)**
8 **available to alleviate the immediate need to replace MUN-T2? In other words,**
9 **would the risk of prolonged outages be reduced as a result of the Long Pond**
10 **Expansion?**

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12 **A.** No, the completion of the *Long Pond ("LPD") Substation Capacity Expansion Project* will
13 not alleviate the immediate need to replace MUN-T2.

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15 The *LPD Substation Capacity Expansion Project* is expected to be completed by the end
16 of 2023.¹ Upon completion of this project, the LPD Substation capacity will be increased
17 to 50 MVA.²

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19 However, there are limitations associated with the customer-owned distribution
20 infrastructure. Approximately half of the campus load is able to be transferred from
21 Memorial ("MUN") Substation to LPD Substation.³ The university does not have the
22 distribution tie points in place to allow for the remaining load to be transferred from
23 MUN Substation to LPD Substation. See the response to Request for Information
24 PUB-NP-001.

25
26 Additionally, LPD Substation was constructed as a special facility in 2019 to serve as a
27 redundant distribution supply point for Memorial University. LPD Substation was funded
28 via a contribution in aid of construction from the university.⁴ Without MUN-T2, which
29 serves as the original point of supply, Memorial University has lost the redundancy and
30 operational flexibility for which it contributed approximately \$4.0 million in 2019 when
31 LPD Substation was constructed.

¹ The new electric boilers must be fully in service by the end of March 2024. See the *2023 Capital Budget Application, Schedule B, Long Pond Substation Capacity Expansion* page 86.

² For more information, see the *2023 Capital Budget Application, Schedule B, Long Pond Substation Capacity Expansion* pages 85 to 87.

³ The remaining load being served by MUN Substation is being carried by MUN-T1. MUN-T1 is a 11.125/14.83 MVA power transformer, which is less than the total load of the university. See the response to Request for Information CA-NP-008.

⁴ See the response to Request for Information NLH-NP-001.