



# Extended Transmission Outage for Winter 2020/21

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October 07, 2020

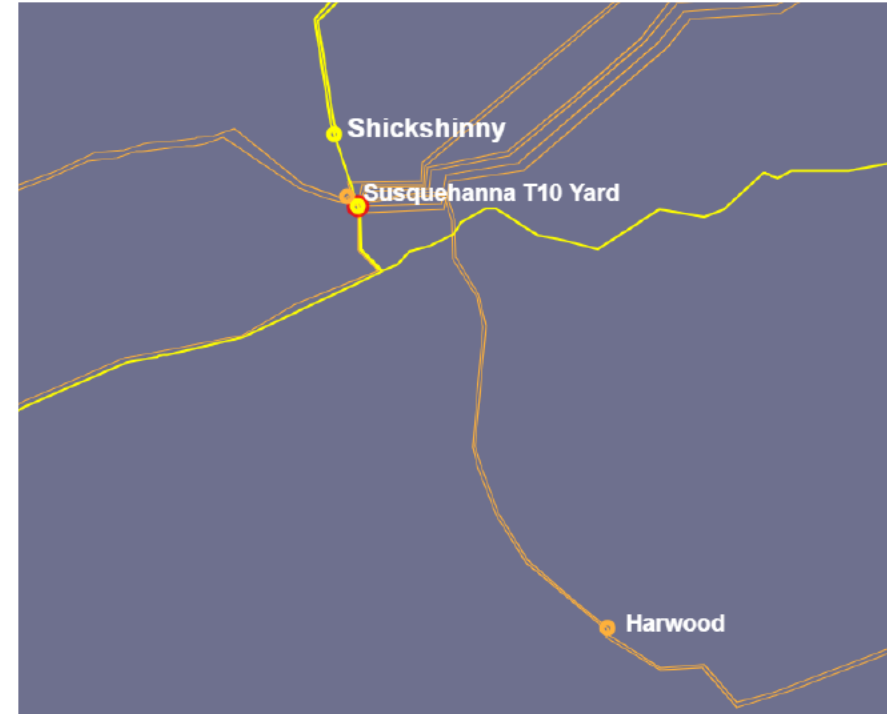
## Background

- **Susquehanna T21 (500/230 kV) Transformer Replacement**

- Transformer gas testing trends have shown deteriorating oil conditions which can lead to catastrophic failure due to age
- Replacement ensures reduced risk to system reliability

- **Susquehanna 500 kV Relay Replacement**

- New Microprocessor relaying
- Improves system reliability



- **Project Timeline:** Sep 01, 2020 to June 18, 2021
- **Susquehanna T21 Replacement Outage :**
  - eDART 826161 - 10/12/2020 to 04/08/2021

- Nature of work requires outage to go over at least 1 peak period (summer or winter) – Winter was preferred due to lower expected seasonal peak (when compared to summer) .
- N-1 Studies indicate no reliability concerns.
- No stability issues identified in the peak.
- Depending on system conditions, may require generation re-dispatch to mitigate thermal, voltage or stability concerns

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