



Pickering Optimization

Pickering | September, 2020



Why Optimization

Need:

- Extensive refurbishment programs on both the Bruce and Darlington Units
- Planned shutdown of Pickering Units in 2024 as per the current license
- IESO is projecting a significant and growing capacity deficit on the Ontario system, beginning in 2023

As Pickering approaches its end of commercial operation, we want to optimize the shutdown sequence of the units as we move toward the safe storage and eventual decommissioning of the station.



Benefits

Optimizing the shutdown of the Pickering Units would:

- Help address projected capacity deficits.
- Provide incremental generation over the period 2023 to 2025.
- Reduction of greenhouse gas emissions.
- Help to reduce the cost to the rate payer.
- Protect highly skilled jobs in Durham Region and the province.
- Cost optimization during the transition to safe store and future decommissioning.

The operational and safety performance of Pickering Nuclear has never been better, thanks to the ongoing dedication of our employees. Last year, the station achieved its best performance in station history.

Success Factors

PLANNING:

- ❖ Incremental Scope Optimization (Complete)
- ❖ Cost Benefit Analysis (Complete)
- ❖ Approval from Ontario Government (Complete)
- ❖ Periodic Safety Review (In Progress – 2022)
- ❖ Approval from CNSC (In Progress – 2023)
 - ❖ Public Hearings in 2023

EXECUTION:

- ❖ Safely Execute Incremental Scope within Outages
 - ❖ New Outages Added: P2211, P2341, P2451
- ❖ Integrated Implementation Plan Actions
- ❖ Safely Shutdown Units per Shutdown Schedule





QUESTIONS?

ONTARIO **POWER**
GENERATION

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