Darlington Refurbishment Program















Darlington Nuclear Refurbishment Project

- Mid-life refurbishment part of CANDU design
- Provides 30+ years of clean, safe, reliable, baseload electricity
- \$12.8 B investment
- Replace major reactor components and upgrade key plant systems, plus substantial safety and equipment investments
- 1,000's of jobs generated \$90B boost to the economy
- Over 300 million tonnes of C02 avoided



Darlington Refurbishment

Unit 2 synchronized to the electricity grid on May 13th

- 24 Million hours of work 1 LTA
- Quality of work has been excellent
 - exceeded past refurbishments
- Completed safely with COVID restrictions
- Four Unit Refurbishment remains on budget on time
- ONE TEAM SUCCESS!
 - -Staff
 - –Project Partner Vendors
 - -contractors/skilled trades
 - -manufactures
 - -government/ community
- Building OPG/Community reputation: World Class



Unit 2

100%

Complete

24

million hours worked

58

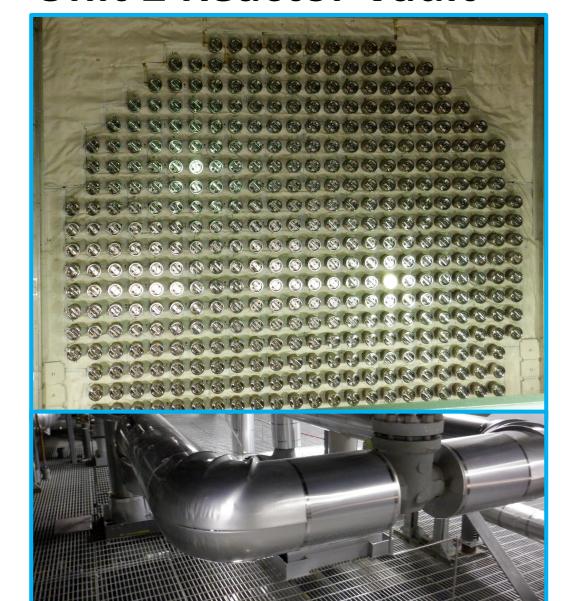
Systems

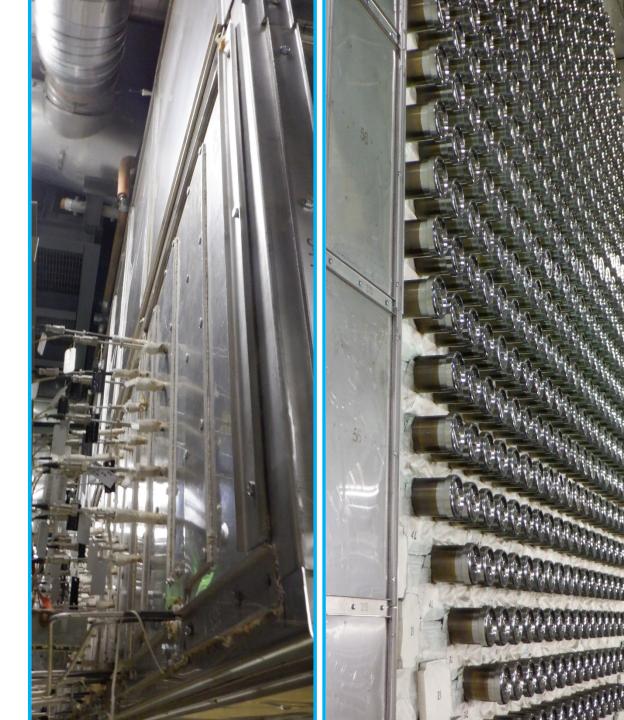
in Service

18

Major safety frastructure project

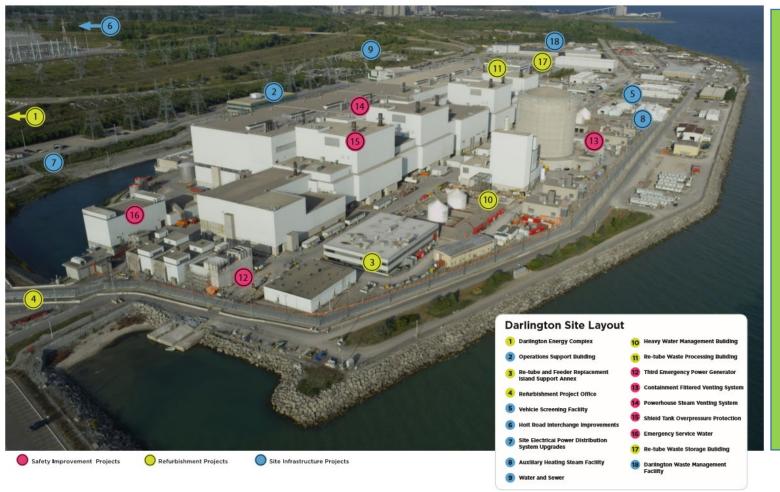
Unit 2 Reactor Vault





Safety and Infrastructure Projects:

• 18 of 18 Complete



Critical Safety Upgrades

- Third Emergency Generator
- Containment Filtered
 Venting System
- Powerhouse Steam Venting System
- Shield Tank Overpressure Protection
- Emergency Service Water

Heavy Water Storage Facility







OPG COVID-19 Response

OPG's dedicated employees #poweredON - Ensured safe generation of electricity

Response Priorities:

- safely operate of the station's operating units
- Defer Unit 3 refurbishment keep Unit 3 running when needed most
- Safely return Unit 2 to service

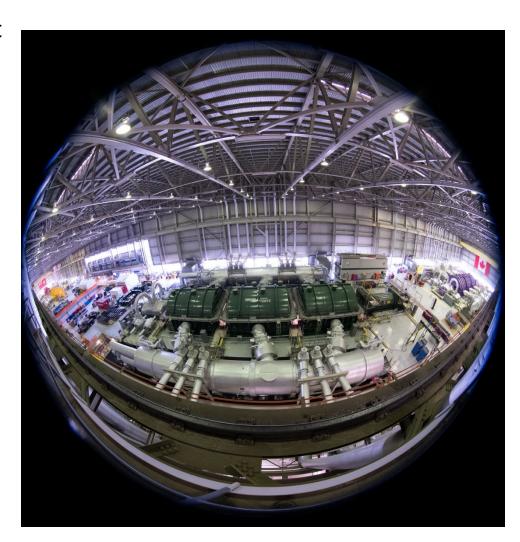
COIVD -19 Measures:

- Implemented a work from home strategy in March: staggered return to workplace underway
- Limiting staff in the station to support physical distancing guidelines
- Restriction of visitors to site
- Staggered and staged work schedules and lunch breaks to facilitate social distancing
- Increased use of Personal Protective Equipment (PPE) / Elevated cleaning practice
- Use of temperature screening in place



Unit 3 – Second Unit to be Refurbished

- Deferral of start of Unit 3 (from April) COVID-19 impact
- No impact to 2026 four-unit commitment
- 40 month schedule no impact to material procurement
- Unit 3 refurbishment to begin in earnest (Sept)
 - Breaker open July 31 for station outage
 - Safety our top priority
 - Effective COVID measures in place to protect staff
 - On-boarding of staff and field work underway
- Ready to Build on our Success for Units 3, 1 and 4
- One continuous project until 2026
- 3500+ lessons learned
- Additional innovative tooling and processes to be used





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