Durham Nuclear Health Committee

June 17, 2022







The Future of Pickering Generating Station

End of commercial operations

- The Province of Ontario is supporting a plan to end commercial operations in 2025, pending regulatory approval
- When commercial operations cease, fuel and water will be removed, and the station will be placed in a safe storage state, beginning the decommissioning process.

Decommissioning is a careful, multi-decade process with distinct phases, which include*:

- 1. Safe storage period starts: 3 years
- 2. All used fuel moved into dry storage: 10-15 years
- 3. All used fuel removed from site: 25 years
- 4. All facilities dismantled and site restored: 40 years



^{*} Each date represented in the timeline is from the date of Pickering's end of commercial operations

The Centre for Canadian Nuclear Sustainability



Building tomorrow together.

What we do:

•We support OPG's mission to achieve a net-zero economy by developing innovative and sustainable plans for the end of the nuclear lifecycle.

How we do it:

 By bringing together industry, community partners, and homegrown talent to create innovative, long-term solutions.

Why we do it:

•To prove that nuclear energy can be an enduring benefit today and for generations to come, far into the future.

OUR PILLARS

Our foundational pillars guide the all of the work that we do.



Focus Areas





Partnership, Industry, and Innovation



CCNS AMBASSADOR: ENERGYSOLUTIONS



CCNS AMBASSADOR: KINECTRICS





SNC·LAVALIN

CCNS AMBASSADOR:



CCNSCLNDUSTRYCATALYSTS



CCNS COMMUNITY PARTNERS

CC



Collaboration

We are collaborating with our partners for decommissioning planning.

- Studying decommissioning workforce demands to identify future skillsets and addressing any gaps.
- Learning from two units already in safe storage at PNGS.
- Exploring international and educational decommissioning opportunities.





Benchmarking/OPEX

Indian Point





San Onofre Nuclear Generating Station



We're working with our partners and other organization to gain insight on operational experience and valuable lessons learned.





Innovation

- We're bringing the same excellence and spirit of innovation to decommissioning nuclear stations that we brought to building and operating them.
- New innovations will help to
 - ✓ reduce timelines and costs for the decommissioning project,
 - ✓ enhance employee safety,
 - ✓ reduce radiation exposure and waste; and
 - ensure the safety of the community and environment.
- Innovation studies





Community

Building strong and safe communities

- Open and transparent communications
- We're collaborating with our host communities and Indigenous communities.
- Sponsorship of youth and STEM based initiatives









