



*Electrifying  
life*

# Darlington New Nuclear Project

Durham Nuclear Health Committee – June 21, 2024





# Earth Moving Activities

- Clean, native soil is being excavated and relocated to level out the lands for future construction
- Additional soil will continue to be added throughout the site preparation and construction phases of the project
- Detailed assessments have been conducted of the soil being moved on the site and those have indicated that there are no concerns regarding the quality (or potential impacts) from the stored soil
- The soil structure will ultimately be seeded and planted to blend with the surrounding landscape

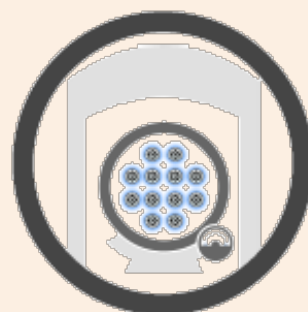




**Aerial view of recent site preparation activities**



# Canadian Nuclear Facility Licensing



Operation



Decommissioning



Release from licensing

**Licence to Prepare Site - Issued and valid until 2031**

**Licence to Construct - Application submitted on Oct 31, 2022**

**Licence to Operate**

**Licence to Decommission**

**Licence to Abandon**

# Darlington New Nuclear Roadmap

**BIG** things start **small**.



2024

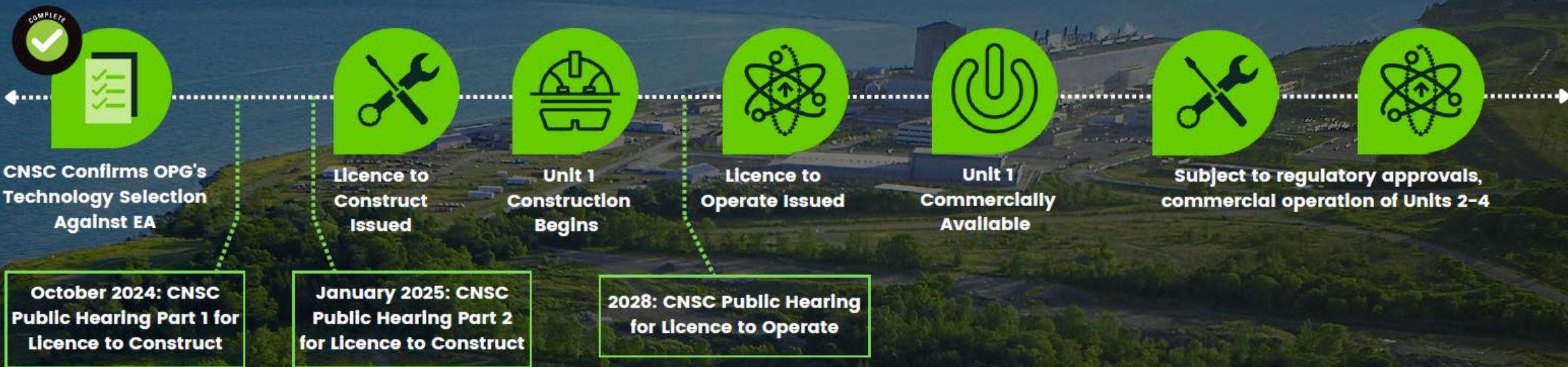
2025

2028

2029

2034

2036



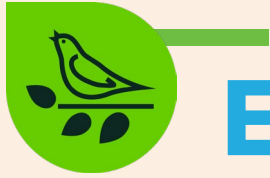
\*All dates are estimated based on current project schedules\*



# Scope of LTC Work

- Completion of any remaining activities under the existing **site preparation** licence
- Construction of **one powerblock**, including the structures, systems and components associated with the:
  - reactor building,
  - control building,
  - turbine building,
  - waste building, and
  - auxiliaries
- Construction of the **support structures** for up to four BWRX-300 units; and
- **Inspection and testing** of equipment, and the commissioning of systems prior to loading fuel in the reactor.





# Environmental Protection

- OPG has a robust and mature environmental protection program
- The DNNP Environmental Management Protection Plan (EMPP) implements control measures to eliminate, manage, reduce or mitigate risk to the environment
- Environmental monitoring through the construction phase of the project is established through our environmental assessment follow-up program
- All construction activities will be executed in a manner that conform to the requirements of our environmental policy and EMPP





# Conventional & Radiological Safety

- Safety is always our top priority
- As the facility owner, OPG will maintain responsibility and oversight for safety under the construction licence
- Contract partner Aecon will assume the role of constructor under the OHSA
- Both parties will work together to manage the health and safety of workers during construction activities
- There will be no radiological work or nuclear substances associated with this phase of the project
  - Construction activities are not expected to result in any radiation dose to workers or the public







# Conclusions



DNNP site is suitable for the construction of a BWRX-300 nuclear reactor



A management system is in place to effectively conduct the proposed licensed activities through the license period



Staff are qualified and competent to carry on the proposed licensed activities



Nuclear safety will be assured, protecting personnel, the public and environment



Transparency and appropriate Indigenous and public consultations will continue



# Darlington New Nuclear Project

## *In the community*

### Where You'll *Find Us* in 2024



Presence and project information at

**35+**

*community events*



**3** *Project workshops*

**3** *Public information sessions*



**10+**

Sponsored *public swims and skates*



**1 BIG**  
*Community Power Expo*

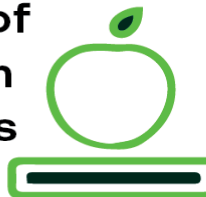
Join us to learn more about our operations, innovations and projects



**ONGOING**

*project updates* to local *community committees, councils* and *stakeholders*

SMR-focused *energy literacy* sessions with hundreds of students in classrooms across



Durham Region



**4** *Community project kiosks* for you to get more information and ask questions



**Regular updates** in our *Neighbours Newsletter*

**Thank you.**

**Questions?**

The logo consists of the letters 'OPG' in a bold, dark blue, sans-serif font. The letter 'O' is a simple vertical oval. The letter 'P' is a vertical stem with a horizontal bar that ends in a right-pointing arrowhead. The letter 'G' is a simple, blocky letter with a small notch at the bottom right.

**OPG**