



*Electrifying
life*

Darlington Nuclear Public Information Session

Darlington NGS Power Reactor Operating Licence Renewal

Territory Acknowledgement

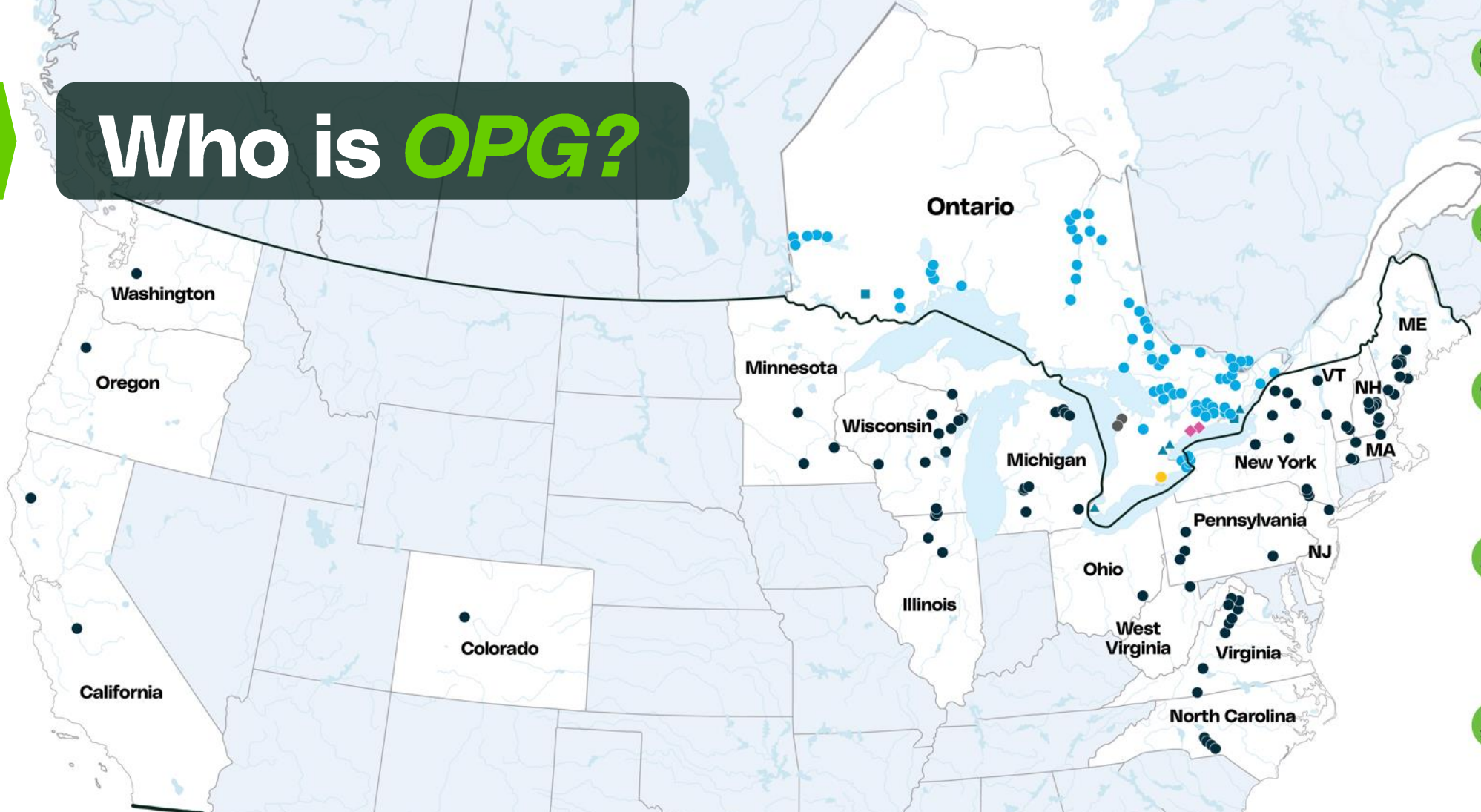




Agenda

- **Who is OPG**
- **Darlington Nuclear Generating Station**
- **Key areas of interest**
- **What's next?**
- **Q&A**

Who is **OPG**?



- Legend**
- ◆ Nuclear Stations
 - Leased Nuclear Stations
 - Thermal Stations
 - Solar Facility
 - Canada Hydroelectric Stations
 - US Hydroelectric Stations
 - ▲ Atura Power Combined Cycle Stations

18,236
megawatts (MW) generating capacity

\$65.7
billion in assets

\$7.2
billion in net income
to the Province over past
five years



2

Nuclear
Generating Stations



66

Hydroelectric
Generating Stations
in Canada



2

Thermal
Stations



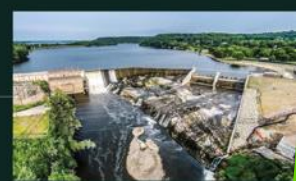
1

Solar
Facility



85

Hydroelectric
Generating Stations
in the U.S.

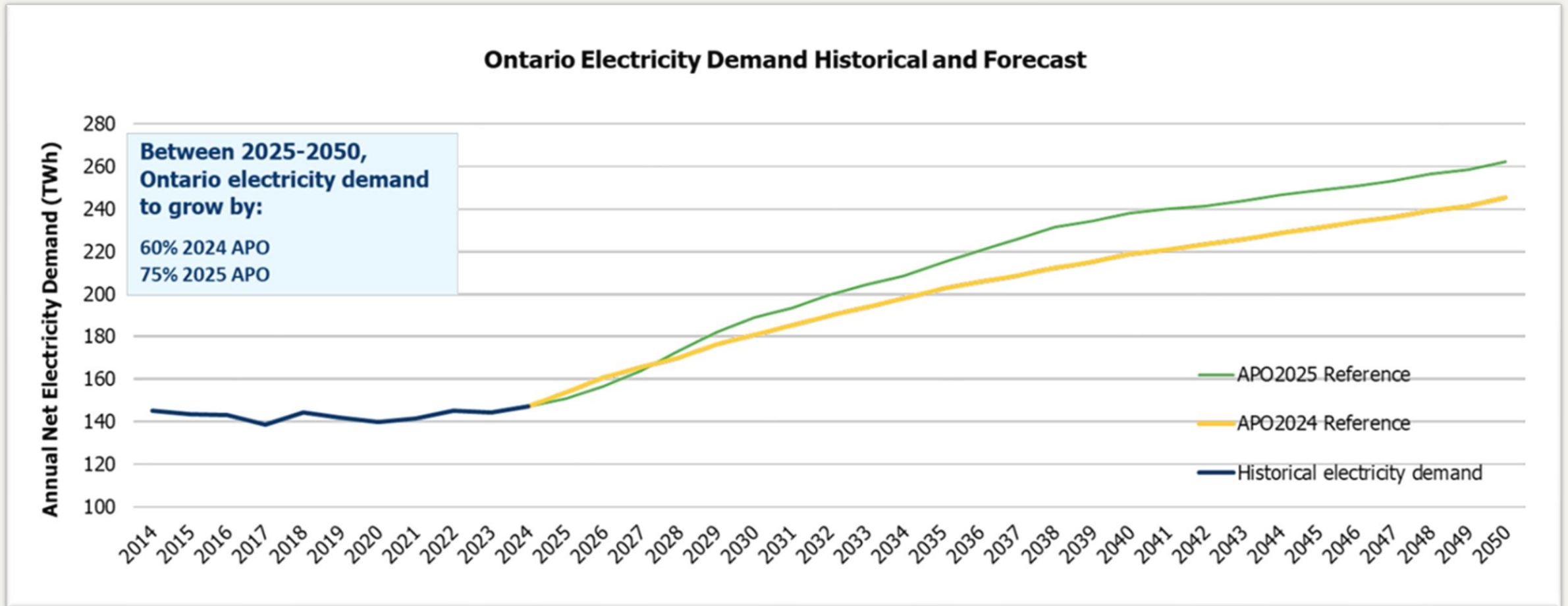


4

Atura Power
Combined-Cycle
Generating Stations

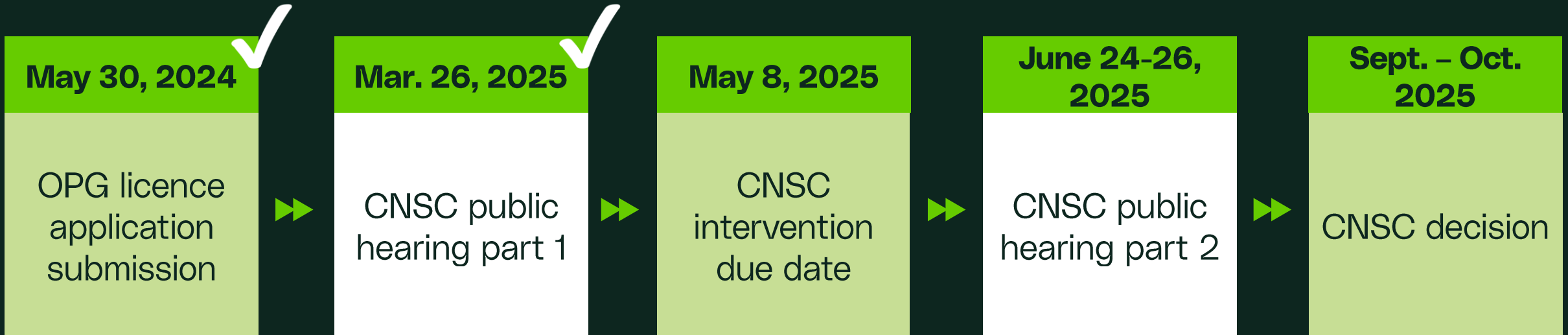


IESO: Ontario's *Demand Forecast (2025)*



CNSC licensing process

Darlington NGS licence renewal timeline



Request to Renew the Darlington Nuclear Generating Station Power Reactor Operating Licence for a 30-year licence term.

**December 1, 2025 to
November 30, 2055**



Darlington NGS has been safely and reliably operating for **decades** and is recognized as a **top-performing** nuclear power plant in the world.



The concept of a 30+ year licence is **common in the international community**.



CANDU reactors have a strong track record of reliability and are a **robust technology with multiple safety features**.



The Darlington **Refurbishment Project** will enable continued safe and reliable operations through 2055.



A **Periodic Safety Review** is performed at approximately 10-year intervals.



The CNSC's **continuous regulatory oversight** of compliance and safety performance at Darlington NGS, is independent of licence length.

Darlington *Nuclear*

- One of the world's **top-performing nuclear stations**
- Four-unit CANDU station ~ **provides 3,512 megawatts**
- Nearly 20% of **Ontario's electricity**
- **Gold Level certification from the Wildlife Habitat Council (WHC)**
- Safe and reliably operating **for over 30 years**







Darlington

Refurbishment Project

- One of **Canada's largest clean energy projects**
- **\$12.8-billion** overhaul
- Creating **14,200 jobs** per year, while contributing **\$89 billion** to the economy
- Securing **30+ years of clean, reliable power**

Key areas of interest



Conventional *Health & Safety*

Safety is our business

- Nothing is more important to OPG than the safety of our workers, the environment and the communities we serve.
- Darlington NGS continues to demonstrate excellent safety performance throughout its operations.



Environmental *Protection*

OPG's robust and mature environmental protection programs:

- Ensure monitoring and evaluation of environmental parameters.
- Implement control measures to eliminate, manage, and reduce risk.
- OPG continues to work with Indigenous Nations and communities to develop comprehensive and ongoing engagement.



Emergency Management & *Fire Protection*

- Our stations operate inside the strictest of standards and regulatory requirements to ensure our communities are always safe.
- OPG is responsible for developing and maintaining Emergency Plans that would be used in the very unlikely event of a nuclear emergency.



Waste *Management*

OPG has been a world-leader in safe and environmentally-sound radioactive waste management for over 50 years.

- The nuclear power industry is the only energy source that accounts for, manages, and fully funds the safe, long-term management of all waste.
- OPG's waste management program:
 - Meets regulatory requirements.
 - Safely manages all waste.
 - Reduces the amount of waste generated.



Medical *isotopes* *for the world*

- OPG's Pickering and Darlington Nuclear help ensure a steady supply of important, **life-saving isotopes for the world.**
- Darlington's support for safe production of isotopes includes the production of
 - Cobalt-60 (Co-60);
 - Molybdenum-99 (Mo-99);
 - Yttrium-90 (Y-90); and,
 - Lutetium-177 (Lu-177).

Community *Engagement*

OPG continuously engages with the local community through its comprehensive public outreach and communications program.

- Committees & Councils
- Tours and presentations
- OPG educational programs and events
- Community partnerships



What's *next*?

May 8, 2025

Interventions due

June 24-26, 2025

CNSC hearing part 2
(hybrid)

1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Thank you.

Questions?

The logo for OPG, consisting of the letters 'O', 'P', and 'G' in a bold, dark blue, sans-serif font. The letter 'P' is stylized with a white arrow pointing to the right, integrated into its vertical stem.

OPG

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