



**Written Submission from the
Capital Power Corporation**

**Mémoire de la
Capital Power Corporation**

In the matter of the

À l'égard d'

Ontario Power Generation Inc.

Ontario Power Generation Inc.

Application to renew power reactor
operating licence for the Darlington
Nuclear Generating Station

Demande concernant le renouvellement
du permis d'exploitation d'un réacteur de
puissance pour la centrale nucléaire de
Darlington

**Commission Public Hearing
Part-2**

**Audience publique de la Commission
Partie-2**

June 24-26, 2025

24-26 juin 2025

May 6, 2025

Canadian Nuclear Safety Commission
280 Slater Street, P.O. Box 1046, Station B
Ottawa, ON K1P 5S9
Canada

Re: Support for Renewal of the Power Reactor Operating Licence for the Darlington Nuclear Generating Station

To Whom It May Concern:

I am writing to express Capital Power's strong support for Ontario Power Generation's (OPG) application to renew the Power Reactor Operating Licence (PROL) for the Darlington Nuclear Generating Station (NGS).

Capital Power is a growth-oriented power producer with approximately 10 GW of power generation capacity across 30 facilities in North America. We are committed to delivering safe, reliable, and affordable electricity, advancing lower-carbon power systems, and creating balanced energy solutions for the future. In Canada, we proudly own and operate 4,200 MW of thermal and 780 MW of renewable generation, and we continue to invest in projects that support the country's economic growth and energy expansion. This includes 170 MW of battery energy storage and a 165 MW thermal expansion project currently underway in Ontario, as well as 126 MW of new renewable generation in Alberta.

In January 2024, Capital Power and OPG signed a commitment agreement to jointly explore the deployment of grid-scale small modular reactors (SMRs) as a clean, reliable, and safe energy solution for Alberta. The collaboration includes a feasibility study focused on technology evaluation, licensing and permitting, economic analysis, and—importantly—engagement with Indigenous communities and local stakeholders to ensure transparent and inclusive dialogue on the potential of SMRs in Alberta.

Through this partnership, we have experienced OPG's depth of experience in nuclear operations. We share the same values for safe and reliable operations, believe in the importance of earning support in the communities we operate in, and the importance of Indigenous reconciliation. We work to create opportunities for open, honest and transparent engagement with the goal of achieving long-lasting and mutually beneficial relationships.

Capital Power believes nuclear energy is essential to maintaining a diverse, reliable, and competitive energy mix in Canada. The Darlington NGS's four reactors provide a significant amount of baseload electricity to Ontario and maintaining this capacity supports long term expansion of Ontario's grid. The successful completion of the Darlington refurbishment project, including major component replacements, inspections, and plant improvements, positions OPG to continue safe and dependable operations at the facility for another 30 years.

We support OPG's application for a 30-year renewal of the PROL for Darlington NGS, enabling continued operation beyond the current licence expiry on November 30, 2025.

Should you have any questions or require further information, please do not hesitate to contact me at 403-540-6087 or mdavis@capitalpower.com.

Regards,

Matthew Davis

VP, Regulatory, Policy & Government Relations (Canada)
Capital Power Corporation