

Clean Energy in Clarington

Clarington is a leader in clean energy and boasts sector strength as the home of Ontario Power Generation – Darlington Nuclear. Opportunities created by several of Canada's largest infrastructure projects continue to help support the foundation for attracting investment to our growing community.



Darlington New Nuclear Project (DNNP)

In 2023, the Ontario government announced its collaboration with Ontario Power Generation to begin planning and licensing four Small Modular Reactors (SMRs) at the Darlington Nuclear site. The construction and operation of these four 300 MW SMRs in Clarington will create and sustain 2,600 jobs, add \$13.7 billion to Ontario's GDP, and produce reliable power for 1.2 million people.

[Learn more about this transformative project](#), the first of its kind in North America, which is paving the way for a sustainable future in Clarington.

Isotope Production

The recently refurbished Unit 1 reactor at Ontario Power Generation's (OPG) Darlington Nuclear is now producing critical life-saving Cobalt-60 isotopes for the world. This medical isotope is used to sterilize 40% of the world's single-use medical devices, as well as certain food products.

OPG plans to modify Darlington's three other units to also produce these isotopes to help secure a stable, reliable global supply. Additional key isotopes include Molybdenum-99, a much-needed medical isotope used in over 30 million procedures a year to detect illnesses like cancer and heart disease; Helium-3, a rare isotope used in quantum computing, neutron research, border security and medical imaging; and Tritium, used in the production of self-powered lights and medical research.

As part of the [Central and Eastern Ontario Isotope Alliance](#), Clarington aims to unite Ontario's isotope community and foster future opportunities to leverage the region's strengths and assets.





Darlington Refurbishment

OPG's world-class Darlington Refurbishment, a \$12.8 billion project, contributes to the creation of approximately 14,200 jobs per year over the course of 10 years. As the refurbishment project continues to progress on time and on budget, it will secure 3,500 megawatts of reliable, low cost, and emissions-free power for an additional 30 years.

**Did you
know?**



Darlington Nuclear Generating Station produces **20%** of Ontario's electricity supply.

The **world's largest Tritium Removal Facility** is in Clarington, leading the way in nuclear safety and environmental protection.

A proud host community.

Clarington is a founding member of the Canadian Association of Nuclear Host Communities, a not-for-profit association that supports current and future nuclear host communities in fostering a proactive relationship with the nuclear industry and regulators. It's about leveraging the benefits of nuclear energy—through all stages of the nuclear fuel cycle—through partnerships and co-operation.

A place of possibilities.

With attractive real estate prices, green spaces, and a vibrant community, Clarington presents an ideal living and working environment for professionals in the clean energy sector.

Prime Industrial Land For Sale

A prime parcel of land for energy-related businesses to be clustered with complementary businesses such as Ontario Power Generation, East Penn, and Durham York Energy Centre is currently available. Located south of the 401 and east of Courtice Road, within the Clarington Energy Park, this 20.39-acre site is available for prestige employment development, zoned Energy Park Office (MO1) and Energy Park Light Industrial (ML1). Reach out to Invest Clarington at ecdev@clarington.net for more details.



 **Invest
Clarington**



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