Port Hope's Electricity Future

Wind & Solar or The World's Largest Nuclear Station

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ONTARIO CLEAN AIR ALLIANCE

Why building the world's largest nuclear station in Port Hope is the worst way to meet our energy needs

The Ontario government wants to build the **world's largest nuclear station** on the shores of Lake Ontario at Port Hope. Sprawling across 1,300 acres of prime waterfront land, this **gigantic nuclear facility** would be another huge white elephant on the site of a never completed oil-fired power plant that has sat empty for almost 50 years.

By the time the proposed reactors would be finished more than 20 years from now, nuclear energy will be hopelessly uncompetitive with renewable technologies. Already, solar and wind power with storage is lower cost than new nuclear. That cost difference is only going to increase as worldwide investment continues to pour into renewable technologies while trickling into nuclear: In 2024, global investment in renewable energy was more than 21 times higher than in nuclear.

Instead of turning to costly and slow nuclear, we need a clean renewable energy future. Port Hope is still dealing with the toxic legacy of radioactive nuclear wastes.

1,300 acres of prime Port Hope waterfront land would be lost to this gigantic nuclear facility

Smarter uses for the Port Hope site

Offshore Wind By harnessing winds that blow strong and steady across Lake Ontario, and using the Port Hope site's transmission system connections, we can tap into zero emissions wind power that is less than half the cost of new nuclear. Great Lakes offshore wind turbines, with a lakebed footprint of only 0.3 square km, could produce as much electricity as the proposed Port Hope nuclear station.

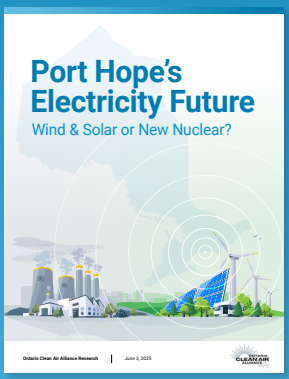
Solar We can also use the Port Hope site to develop a 600 acre+ solar farm. Low-cost solar energy can be combined with batteries to supply power 24/7 and would pair well with offshore winds that are strongest at night and in winter.

Reliable Power According to Ontario's Independent Electricity System Operator, wind and solar combined with battery storage can reliably supply at least 99.5% of Ontario's electricity needs at a lower cost than new nuclear. Ontario's current nuclear reactors have historically been offline more than 20% of the time, requiring polluting gas-fired power plants as backups. Solar, wind and batteries are a superior combination.

East-west Grid Let's fast-track the expansion of inter-provincial electricity transmission links to increase our ability to import lost-cost water, wind and solar from Manitoba, Quebec and the Maritimes.

Let's look to the future and create thousands of new economy jobs by deploying safe, low-cost, climate friendly solar and wind power starting today!

Ontario can reap massive savings by lifting the moratorium on offshore wind development, and by using the Port Hope lands for solar instead of for an eye-wateringly expensive nuclear plant



Get the details in our report:
Port Hope's Electricity Future: Wind & Solar or New Nuclear?

cleanairalliance.org/17472-2/

Tell Premier Ford we need to get building low-cost renewable energy now

– not wait 20 years or more for high-cost, high-risk nuclear projects.

Send your letter here:
cleanairalliance.org/no-nuclear-yes-solar-wind/