Getting Ontario to a Zero-Carbon Electricity Grid by 2030 and Lower Bills
Doug Ford’s Electricity Plan

Increase the gas plants’ GHG pollution by more than 600% by 2040

Spend $28.8 Billion on high-cost nuclear projects
Ontario’s Historic and Forecast GHG Pollution from its Electric Power Plants
## High-Cost Nuclear Projects

<table>
<thead>
<tr>
<th>Project</th>
<th>Cost</th>
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</thead>
<tbody>
<tr>
<td>Darlington Re-Build</td>
<td>$12.8 Billion</td>
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<tr>
<td>Bruce Re-Build</td>
<td>$13 Billion</td>
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<tr>
<td>New GTA Reactor</td>
<td>$3 Billion</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>$28.8 Billion</strong></td>
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</table>
Ontario municipalities call for action:

- Return gas plants’ pollution to their 2017 level ASAP; and
- Achieve a complete gas power phase-out by 2030.
It would be impossible to phase-out gas power by 2030; and

Attempting to do so will lead to higher electricity rates and blackouts.

These claims are false.
The IESO report:

- Provides a plan to achieve a 99.7% zero-carbon electricity grid by 2030.

- Falsely claims that it is not possible to meet remaining 3/10\(^{th}\) of 1% of our electricity needs (500 GWh) from carbon-free sources by 2030.
Fear-mongering: Blackouts

- **FACT:** In 2030 approximately 33% of our existing gas-fired capacity will still be under contract to the IESO.

- **FACT:** Some of our gas-fired capacity will remain under contract to the IESO until 2040.

- **FACT:** If there is a 500 GWh shortfall of carbon-free electricity, the IESO will dispatch gas plants rather than subject province to blackouts.
IESO report claims a gas power phase-out would lead to 60% rise in residential electricity rates by 2030.

- **FACT:** IESO report forecasts a gas power phase-out would raise electricity costs by 20%

- **Fact:** A 2% annual increase in residential, commercial and industrial rates between 2021 and 2030 would be a fairer way to pay for a 20% rise in electricity costs by 2030, rather than making residential customers pay more than their fair share.
Fear-mongering: Higher electricity rates

The IESO Report falsely claims a phase-out would raise costs by 20% by:

- Underestimating the carbon tax savings from a gas power phase-out;
- Ignoring our two lowest-cost storage options; and
- Including the costs of a $3 billion new GTA nuclear reactor as part of its phase-out plan.
Fear-mongering: Higher electricity rates

Carbon Taxation

- **FACT:** IESO assumes gas plants will be subject to a carbon tax of only $50 per tonne in 2030 despite the fact that the Government of Canada is planning to raise the carbon tax to $170 per tonne in 2030.

- **FACT:** IESO assumes only 5% of gas plants’ GHG pollution will be subject to carbon tax in 2030.

- **FACT:** That is, IESO’s analysis assumes gas plants will be subject to a carbon tax of only $30.5 million in 2030.

- **FACT:** Assuming that 100% of gas plants’ pollution is subject to a $170 per tonne carbon tax, the carbon tax savings from a gas plant phase-out in 2030 will be up to $2 billion.
Fear-mongering: Higher electricity rates

Storage

- The IESO report failed to consider our lowest-cost storage options:
  - Hydro Quebec’s reservoirs; and
  - Installing bi-directional chargers for our electric vehicles (EVs) so that their batteries can provide power to the grid during peak demand hours.

**FACT:** According to an MIT study, Hydro Quebec’s reservoirs – which can act like a giant battery – are the lowest-cost storage options for wind and solar energy.

**FACT:** In 2030, the capacity of our EVs’ batteries will be more than twice the capacity of our gas plants.
Fear-mongering: Higher electricity rates

New GTA Reactor

- The IESO report includes a $3 billion new GTA reactor as part of its phase-out strategy despite the fact that energy efficiency, wind and solar and Quebec water power can phase-out gas power at less than half the cost.
FACT: If the IESO really wanted to reduce electricity rates, it would promote energy efficiency and renewables to phase-out polluting gas power and to avoid the need for high-cost nuclear electricity.
IESO needs to go back to the drawing board

The IESO needs to develop an unbiased, fact-based, least-cost plan to:

a) Return gas plants’ pollution to 2017 level ASAP; and
b) Achieve complete gas power phase-out by 2030.

A least-cost electricity plan can phase-out gas power by 2030 and lower our electricity bills.
We can return the gas plants’ pollution to their 2017 level by:

- Banning gas-fired electricity exports to U.S.
- Doubling our spot market purchases of Quebec waterpower using existing transmission lines.
- Purchasing all energy efficiency savings, solar and wind power that can keep our lights on at less than today’s price of nuclear electricity (10.5 cents per kWh).
We can achieve a complete gas power phase-out by 2030 by:

- Expanding our transmission links with Quebec and using Hydro Quebec’s reservoirs to act like a giant battery for our wind and solar energy; and

- Installing bi-directional chargers for our electric vehicles (EVs) so that their batteries can provide power to the grid during peak demand hours.

**FACT:** In 2030, the capacity of our EVs batteries will be more than twice the capacity of our gas plants.
Put OPG’s gas plants on stand-by reserve between 2030 and 2040

- To provide emergency back-up power to our electricity grid if we temporarily have insufficient carbon-free electricity resources to meet our need due to an extreme event
Progress since the gas power phase-out campaign launched in Feb. 2020

- 32 municipalities, representing almost 60% of the Ontario’s population, have called for the phase-out of gas power.
- Andrea Horwath (NDP) and Mike Schreiner (GPO) have called for the phase-out of gas power by 2030.
- Prime Minister Trudeau has promised to make Canada’s electricity system net zero by 2035.
- On Oct. 7, 2021, Ontario’s Energy Minister Todd Smith directed the IESO to develop a plan to phase-out Ontario’s gas plants by an unspecified date.
Our Proposed Priorities Before the June 2022 Provincial Election

- Communicate to public, media and our political leaders that we can phase-out gas power by 2030 and lower our electricity bills.

- Persuade Steven Del Duca (Liberal) and Doug Ford (PC) to call for a gas power phase-out by 2030.
What you can do

- **Sign our petition** asking Doug Ford and Steven Del Duca to endorse moving ON to a zero-carbon electricity grid by 2030: [OntarioClimateAction.ca](http://OntarioClimateAction.ca)

- **Distribute our pamphlet**

- **Sign up for our electronic newsletter:** [CleanAirAlliance.org/newsletter](http://CleanAirAlliance.org/newsletter)
Jack Gibbons  jack@cleanairalliance.org
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Angela Bischoff  angela@cleanairalliance.org

CleanAirAlliance.org
OntarioClimateAction.ca