The Nuclear Future A perspective from Canada Sean Granville Retired COO and CNO Ontario Power Generation 18 | January | 2023















🚯 66



4 86



6,612 MW

Nuclear Stations 6,430 MW

Leased Nuclear Stations



2,305 MW

Thermal Stations



Solar Facility 7,478 MW

Canada Hydroelectric Stations

640 MW

US Eagle Creek Renewable Energy **Hydro** Stations

2,715 MW

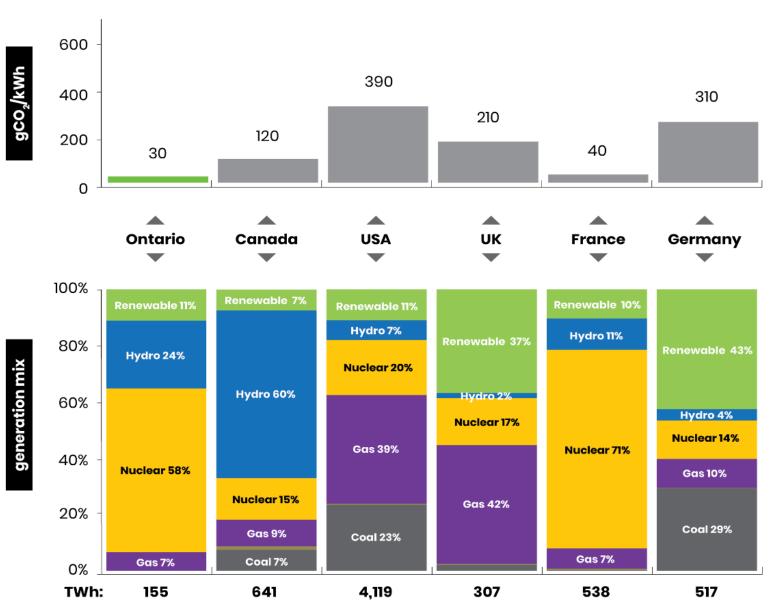
Atura Power Gas-Fired Stations



CO, emissions intensity - Ontario vs. world

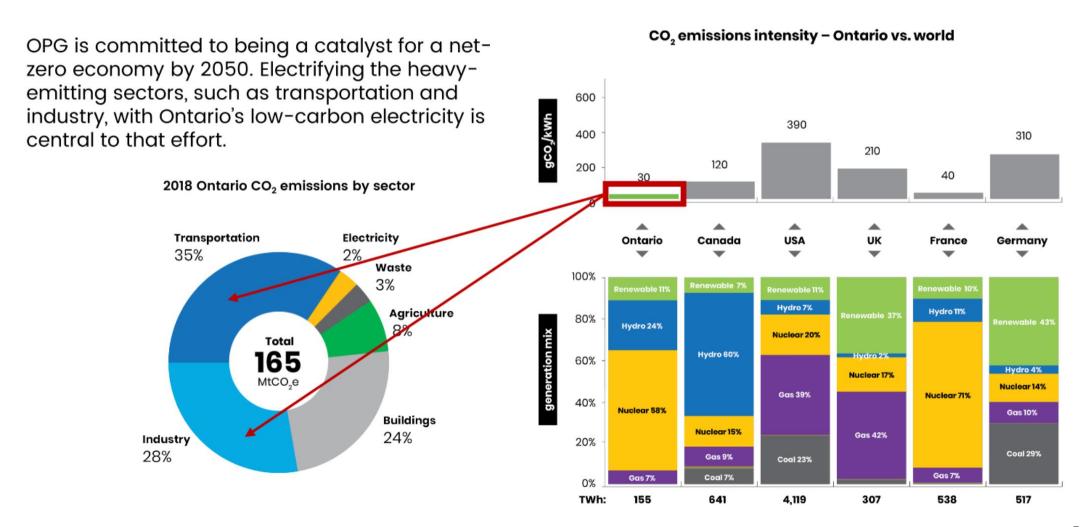
Setting a global example

Globally, Ontario's electricity sector ranks among the best from a carbon intensity perspective when compared to other progressive jurisdictions.



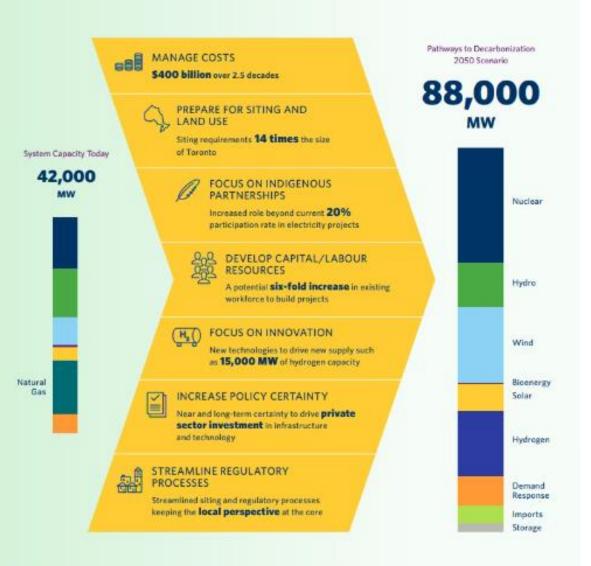
Climate Change Plan

Electrification initiatives are an enabler for OPG's Climate Change targets

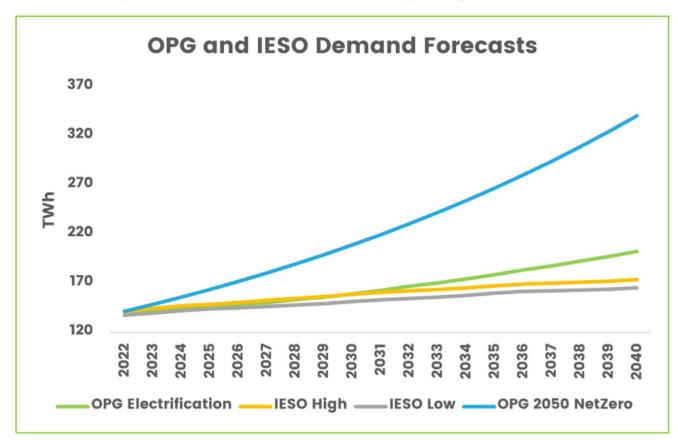


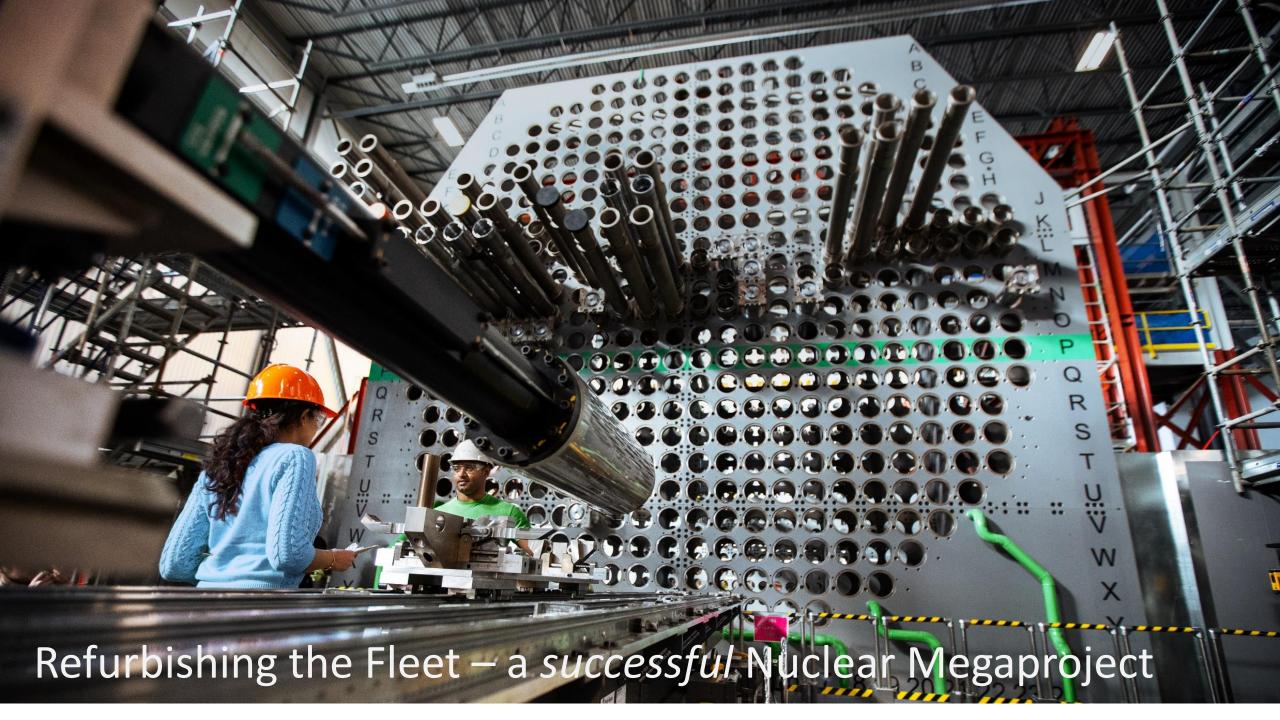
Decarbonizing Ontario's Electricity System

Bridging the work of today with the needs of a decarbonized world will be challenging and complex. Ontario's electricity system is well positioned to make the transition, but will need to address a series of challenges in order to achieve decarbonization.



One thing is for sure, demand is going up













HITACHI

BWRX-300





- Joint Venture
- Proposing to construct and operate a Micro Modular Reactor[™] at the Chalk River Laboratories site
- Expected first power by 2026





