

Riverside Cogen LP Combined Heat and Power (CHP) 23 MW Project

Prepared By:



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Cogen Development

About Riverside Cogen's Host



About Riverside Cogen's Host

- Distillery established in 1857
- ~300 employees
- 39 Fermenters!
- Largest beverage alcohol distillery in North America
- Capacity of 180,000 L of alcohol distilled every 24 hours



About CEM

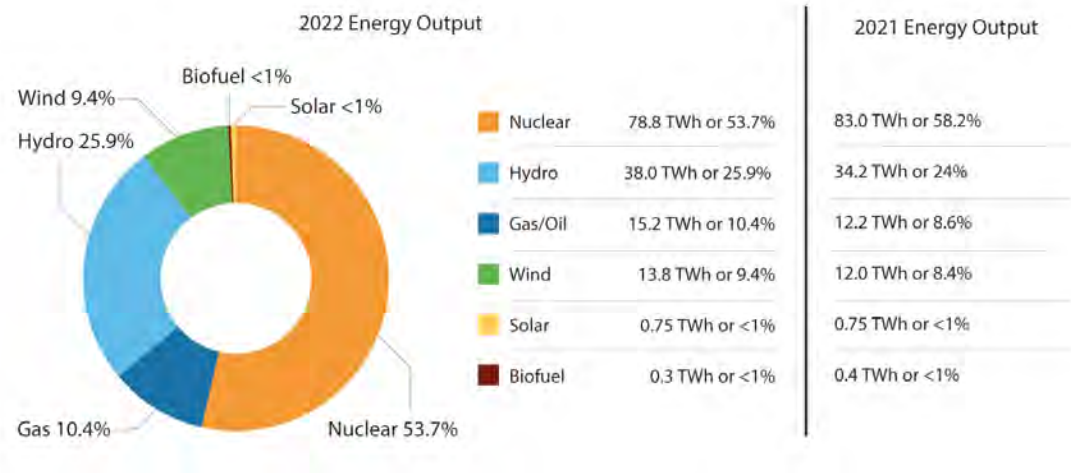
- Thermal Power Project Delivery firm
- **Over 20 years** in the industry with over 60 staff
- **3 offices** across Canada
- Privately owned Canadian business
- Multi-disciplined (*mechanical; electrical; civil/structural; I&C*)
- Provide a full range of services, including:
 - *Consulting*
 - *Detailed design*
 - *Contract administration*
 - *Commissioning services*
 - *Expanded Scope*

At CEM, our mission is to leave the world a better place than we found it.

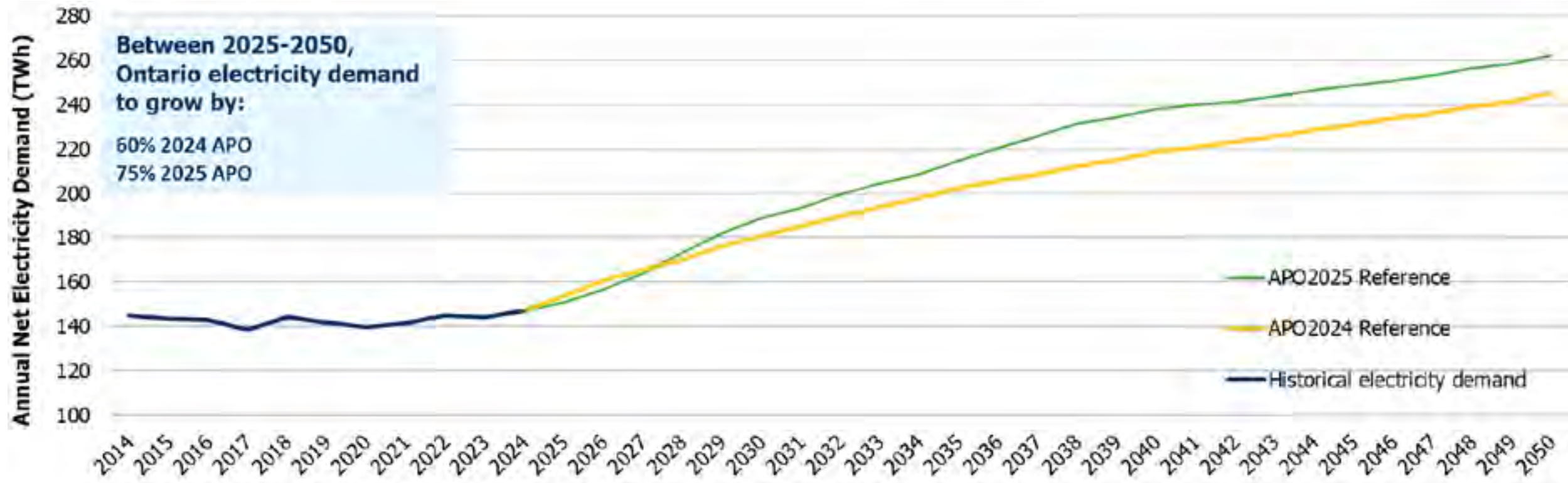
About the IESO

- The IESO manages the province's power system so that Ontarians receive power when and where they need it. It plans and prepares for future electricity needs.
- A not-for-profit entity established by the Government of Ontario, IESO fees and licences to operate are set by the Ontario Energy Board.

Installed Capacity	38,214 MW (transmission-connected) Source: Reliability Outlook released March 2023
Record Summer Peak	27,005 MW (August 1, 2006)
Record Winter Peak	24,979 MW (December 20, 2004) Ontario's peak energy use is typically in the summer months when people use air conditioners to beat the heat. Peaks also take place in the winter when the weather is especially cold. Weather has the biggest influence on electricity demand.
Consumers Served (2021)	5.3 million



Ontario's Energy Demand Growth



IESO LT2 RFP

- Ontario needs a reliable and affordable grid to remain attractive for business development and ensure future growth and decarbonization. Ongoing competitive procurements are expected to secure up to 1,600 MW of capacity and 14 TWh of energy under the long-term procurement stream to:
 - Provide security against the risk of not having resources to meet North American planning standards
 - Enable emissions reductions in other sectors AND support the transition underway
 - Allow time for sector transformation –a more decentralized system, technological evolution to create new business opportunities and drive down costs.



LT2 Procurement Window	Energy Target (TWh)	Capacity Target (MW)
Window 1 – May 1, 2030	3	600
Window 2 – May 1, 2031	1-3	400
Window 3 – May 1, 2032	2-4	300
Window 4 – May 1, 2033	2-4	300

LT2 RFP Schedule:

Submit LT2 Bids: December 18, 2025

Award LT2 Contracts: June 16, 2026

Riverside Cogen Combined Heat and Power (CHP) Plant Project

PROJECT NAME

Riverside Cogen

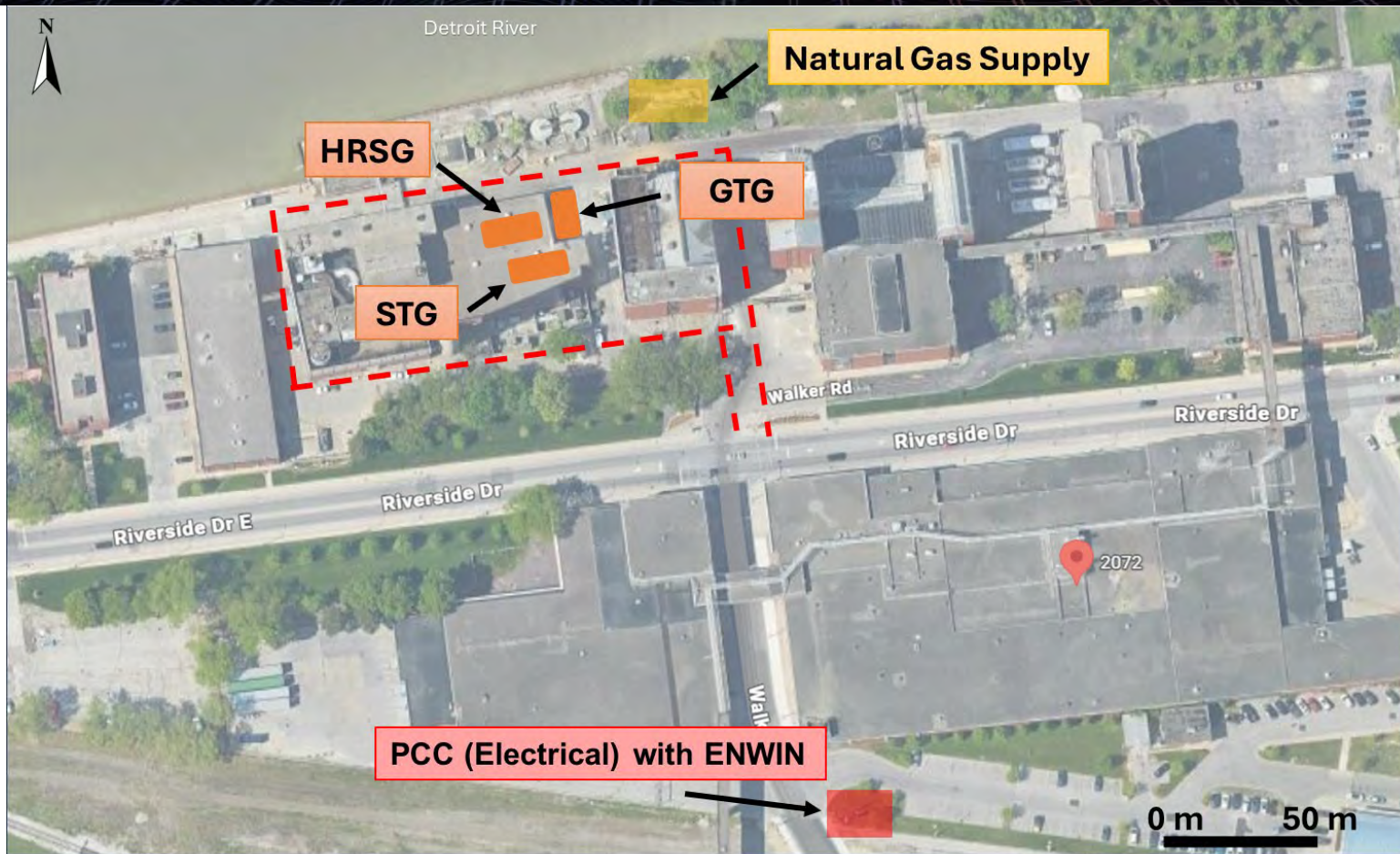
MAXIMUM CONTRACT CAPACITY

23 MW

TECHNOLOGY

Combined Heat and Power (CHP)

Proposed Site Plan



HRSG – Heat Recovery Steam Generator
GTG – Gas Turbine Generator
STG – Steam Turbine Generator (future)
PCC – Point of Common Coupling
— Fire Route

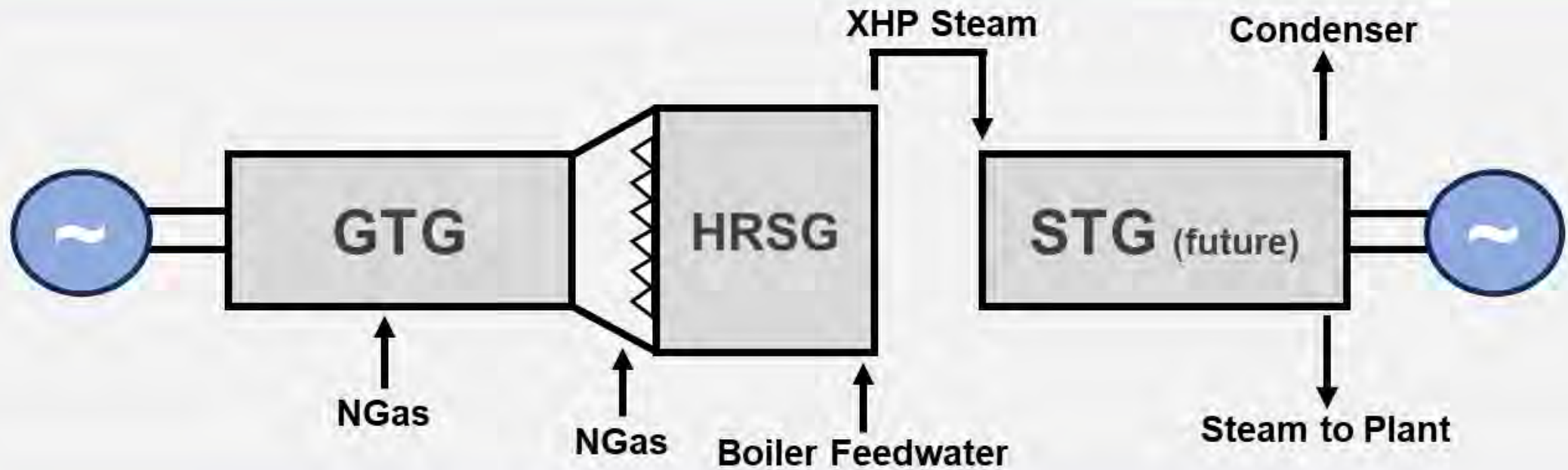
Riverside Cogen LP
2072 Riverside Drive East, Windsor, ON
Combined Cycle CHP
Proposed Site Plan
01051-0104 | 14463-00-E-CV-SKT-01-00



Project Description

- One (1) Combustion Gas Turbine Generator, with a capacity of 23 MW
- Power produced by this GTG, will be fed onto the grid directly, as part of the LT2 contract
- A Heat Recovery Steam Generator (HRSG), equipped with supplementary firing, to make steam for the Distillery as well as steam for some of the power which Hiram Walker needs

Project Description



Safety is Highest Priority

- GTG is equipped with automatic fire detection and fire suppression system
- Emissions of NOX will be 10 PPM, whereas Province of Ontario Guideline A-13 for stationary combustion gas turbines is 42 PM
- Noise emissions will be mitigated by five silencers in accordance with NPC – 300
- System will be designed to comply with all CSA codes and standards, as enforced by the TSSA and the ESA
- TSSA licensed power engineers will operate the system
- To further maximize safety, the system will feature online monitoring and control

High-Level Project Schedule

ACTIVITY	DATE
Registration Deadline	October 3, 2025
Submission Deadline	December 18, 2025
Notification to Selected Proponents	June 16, 2026
Execute Contract with IESO	~July 2026
Financial Closing	~September 2026
Commercial Operation <u>Target</u>	December 31, 2028
Commercial Operation <u>Deadline</u>	May 1, 2030

Opportunities & Community Engagement

- Participate in today's community meeting to learn more about the project and ask questions in the meeting.
- Follow-up with questions directly to Riverside Cogen LP
- Visit the [IESO's LT2 RFP](#) website for additional information on the LT2 program.
- Visit [Riverside Cogen LP's](#) project website for additional information on the project.

Benefits to City of Windsor

1. The LT2 program (and this specific project) will provide increased power quality and power reliability to the local Windsor area
2. As a very efficient cogeneration system (75% - 80%), this System will have lower emissions of CO₂ than large simple cycle GTG based power plants also participating in LT2
3. This project will require many skilled trades during the construction phase
4. This system will also improve the long-term financial viability of Hiram Walker

Project Contact Information

Riverside Cogen LP

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cemeng.ca

Questions?

The floor is open for questions about the
Riverside Cogen Combined Heat and Power
(CHP) Plant Project