



Appendix C Record of Engagement

Environmental Review Report

York Energy Centre Upgrades Project

Capital Power Corporation

SLR Project No.: 241.030524.00026

July 15, 2024

List of Attachments

Note to reader:

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Ontario Clean Air Alliance

Appendix C.4 Agency Engagement

Attachment 1: Agency Correspondence Log

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Ministry of Conservation and Parks (MECP)

Ministry of Citizenship and Multiculturalism (MCM)

Township of King

Appendix C.5 Indigenous Community Engagement

Attachment 1: Indigenous Community Correspondence Log





Appendix C.3 Public Engagement

Environmental Review Report

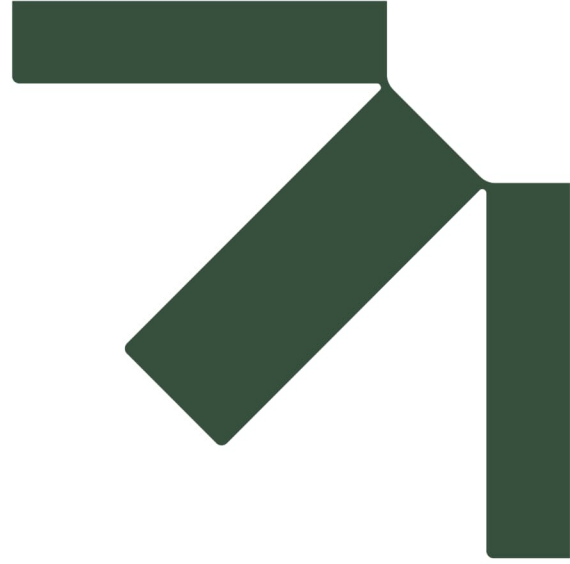
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Attachment 1: Public Correspondence Log

York Energy Centre Upgrades Project

CONSULTATION AND ENGAGEMENT LOG

INCLUDED IN ROC (Y/N)*	CORRESPONDENCE AUTHOR	DATE	CAPITAL POWER SENT/ RECEIVED	CONTACT MODE/ FILE TYPE	SUMMARY OF CONTACT / TOPIC
MEMBERS OF PUBLIC					
Ontario Clean Air Alliance					
Y	-	10/16/2023	RECEIVED	EML	Ontario Clean Air Alliance writing to oppose the Project. Asking for emissions rate per GWh stats, along with the forecast of the GHG emissions rate along with the PM 2.5 rate for the upgrades. An additional request was made regarding the expected filing date of the ERR, along with a request for a copy when available.
Y	J. Shukin	11/9/2023	SENT	EML	Response to received email regarding the opposition, notifying that this project is still in the early phases, but the ERR will be sent when it is finished, along with where to find the requested data, and a note that the NOx is below the reporting threshold and is not available on the database.
Y	S. Cardinal	7/16/2024	SENT	LET	Sent update to Ontario Clean Air Alliance regarding their expressed interest in the Project. The update provided background information, along with key information regarding the GHG and Air Quality assessments. The letter also provided information regarding the ERR and other key information.



Attachment 2: Public Correspondence

Ontario Clean Air Alliance



From: [REDACTED]
Sent: Monday, October 16, 2023 11:12 AM
To: CPC Information <cpcinfo@capitalpower.com>
Subject: York Energy Centre - proposed generation capacity expansion

WARNING: This email originated from outside your organization.
Look closely at the SENDER address. Do not open ATTACHMENTS unless expected and from a trusted source. Check for INDICATORS of phishing. Hover over LINKS before clicking.
If you have ANY reason to doubt the authenticity or content of this message, contact the Service Desk before you open or click on anything.

Hi Jay,

I am writing to inform you that the Ontario Clean Air Alliance is opposed to your proposed expansion of the York Energy Centre since Ontario has cleaner and lower cost options to power our air-conditioners on hot summer days.

As the Royal Bank of Canada has noted, Ontario can avoid the need for new gas-fired generating capacity and save \$500 million per year by investing in energy efficiency and demand management:

<https://thoughtleadership.rbc.com/power-shift-how-ontario-can-cut-its-450b-electricity-bill/>

Quebec waterpower and solar energy are also lower cost options:

<https://www.cleanairalliance.org/wp-content/uploads/2023/01/Avoid-New-Gas-Plants-INTERACTIVE-jan-16-copy.pdf>

1. Could you please provide us with the following information about the York Energy Centre for each year from 2017 to 2022 inclusive:
 1. GWh supplied to IESO-controlled grid;
 2. Total GHG emissions;
 3. Total nitrogen oxides emissions;
 4. Total fine particulate emissions (PM 2.5);
 5. GHG emission rate per GWh;
 6. Nitrogen oxides emission rate per GWh;
 7. Fine particulate (PM 2.5) emission rate per GWh.
2. Could you please provide us with your forecast of the York Energy Centre's GHG emission rate per GWh; nitrogen oxides emission rate per GWh; and fine particulate (PM 2.5) emission rate per GWh if your proposed upgrades are approved.
3. Could you please tell us when you expect to file your Environmental Review Report with the Ministry of the Environment, Conservation and Parks. Could you please send us a copy of the report as soon as it is available.

Yours truly,

[REDACTED]

[REDACTED]

Subject: RE: York Energy Centre - proposed generation capacity expansion
Sent: 11/9/2023, 4:41:49 PM
From: Jay Shukin<jshukin@capitalpower.com>
To: [REDACTED]
Attachments: [York Energy Centre Data Request 2017-2022.pdf](#)

Hello Mr. [REDACTED]

Thank you for contacting us and sharing your thoughts about the York Energy Centre Upgrades Project. We are still in the early stages of the project and will provide you with the environmental report as soon as it becomes available.

In response to your request for information about the York Energy Centre please see the attached table. For reference, the National Pollutant Release Inventory (NPRI) facility number is 26407. You can find the required data on this link: [National Pollutant Release Inventory data search - Canada.ca](#). So you are aware, the facility is below the reporting threshold for NOx and is not in the online inventory.

Regards,

Jay

Jay Shukin
Manager, Indigenous and Stakeholder Engagement
Capital Power
1-855-703-5005

York Energy Centre Data 2017-2022 (as provided on November 9, 2023)

Year	GWh to Grid	GHG Emissions (tonnes CO2e)	NOx (tonnes)	PM2.5 (tonnes)	GHG Intensity (tonnes CO2e/GWh)	NOx Intensity (tonnes/GWh)	PM2.5 Intensity (tonnes/GWh)
2017	30.077	18335	9.7	0.64	609.6	0.323	0.021
2018	19.44	11995	5.72	0.42	617.0	0.294	0.022
2019	32.687	19987	10.21	0.68	611.5	0.312	0.021
2020	27.233	16524	6.32	0.56	606.8	0.232	0.021
2021	36.831	22612	11.63	0.77	613.9	0.316	0.021
2022	56.105	35724	18.07	1.23	636.7	0.322	0.022

July 16, 2024

[REDACTED]
Chair
Ontario Clean Air Alliance
160 John Street, Suite 300
Toronto, Ontario
M5V 2E5

Submitted via email: [REDACTED]

RE: Capital Power's York Energy Centre Upgrade Project

In the fall of 2023, the Ontario Clean Air Alliance (OCAA) expressed interest in the York Energy Centre (YEC) Upgrades Project and requested a copy of the Environmental Review Report (ERR) when it became available. We want to provide you with early notification that Capital Power will be issuing the Notice of Completion of an Environmental Review on July 18, 2024. The ERR will be available for review during the 30-day review period.

While we welcome project-related comments from the OCAA during the 30-day public review period, given our previous correspondence, we thought it might be helpful to provide you with a brief overview of the findings of the Greenhouse Gas (GHG) and Air Quality (AQ) assessments.

Project Information

The YEC is a natural gas-fired, simple cycle, peaking generation power plant which has an approved maximum gross output of 433 megawatts (MW) of electrical power. The upgrade project is contracted with Ontario's Independent Electricity System Operator (IESO) and will provide approximately 30 MW of additional peaking capacity, increasing the maximum approved gross output to 463 MW, reflective of an approximate 7% increase. The proposed modifications to the YEC include:


- Installation of a turbine upgrade package that will increase operational performance and reduce emissions of nitrogen oxides (NO_x);
- Installation of an inlet fogging system;
- Installation of larger transformer cooling fans; and
- Adjustments to control logic.

The operating profile of the YEC is not expected to materially change following these upgrades; the facility is expected to continue to operate infrequently, typically for 150 hours or less per year. The findings of the ERR indicate that the proposed modifications to the YEC will result in improved efficiency, increased generation capacity and, for any given output, reduced greenhouse gas (GHG) and NO_x emissions. Specifically, key findings include:

- **GHG Assessment:** While increasing capacity, the turbine upgrades package will also result in a significant improvement in the facility's efficiency, with an approximately 4% improvement in the YEC's heat rate. The heat rate is a measure of how efficient the facility is at converting energy from gas to electricity, and the improvement will result in lower GHG emissions for any given level of energy output. With the predicted improvement in GHG emission intensity, post-project GHG emissions from the YEC are predicted to decrease over the 2025 – 2035 contract period in comparison to the Business-As-Usual case.
- **Air Quality Assessment:** Implementation of the more advanced, Ultra-Low NO_x (ULN) Combustion System will reduce the NO_x emissions rate by approximately 37%. Additionally, the Project results in no significant change to the CO, SO₂ and PM emission rates, which will remain well below provincial guidelines.

I trust you will find this summary helpful. The ERR, including GHG and Air Quality technical supporting documents, will be provided and available on the project's website during the 30-day public review period.

Sincerely,


Sue Cardinal
Manager, Indigenous and Community Engagement
Capital Power
18781 Dufferin Street
Newmarket, Ontario
L3Y 4V9