Hydrogen Ready Power Plant Project Environmental Screening and Review Report

Appendix 17.5 Public Consultation Report

November March 30, 2022 update

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Hydrogen Ready Power Project Public Consultation Report

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1. Introduction

This report documents the Public consultation carried out as part of the environmental screening and review completed for the Hydrogen Ready Power Plant (HRPP) Project. The proponent of the Project is Eastern Power Inc. (Eastern Power or EP). The environmental screening process is applicable to the HRPP Project because it is a Category B electricity project under Ontario Regulation 116/01 of the *Environmental Assessment Act*.

The Project is being developed in response to the Independent Electricity System Operator's (IESO) identification of the need for additional electricity generation capacity in Ontario's South West Region. The Project is designed to take advantage of lower GHG carbon emitting hydrogen/natural gas mixed fuels as these become progressively more available over the life of the project and ultimately the use of pure hydrogen which emits no combustion related GHGs. The Hydrogen Energy Platform is being developed through support of the Ontario and Federal Governments as an important strategy for lowering Greenhouse Gas (GHG) carbon emissions and to help meet future GHG reduction targets. Hydrogen energy development strategies have now been initiated by both Ontario (Ontario Hydrogen Strategy) and Canada (Canadian Hydrogen Strategy). These strategies include using hydrogen for electrical power generation.

This report documents the steps taken by the proponent to seek consultative input on the Project from the Public and summarizes these consultations and their results, in compliance with the consultation requirements as set out in Ontario Regulation 116/01.

The purpose of this consultation was to inform and receive input from the general public in the immediate vicinity of the HRPP project site as well as any individuals with questions, comments or seeking further information in response to the publication of the project Notice of Commencement.

2. Project Description

The Hydrogen Ready Power Plant project will be located on a 2 hectare portion of land immediately south of the existing Green Electron Power Plant on Greenfield South Corporation's property at 477 Oil Springs Line in St. Clair Township as shown in Figure 1.. The site is located immediately east of Hydro One's 230 kV transmission corridor. The HRPP facility will have its own connections to circuits L28C and L29C to which the plant's electrical output will be delivered to the existing provincial transmission grid.

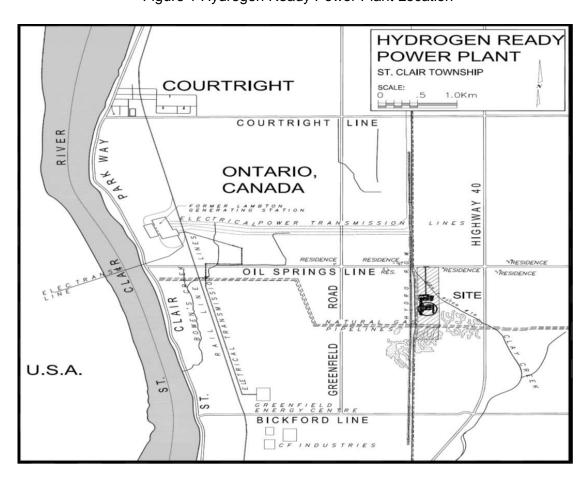


Figure 1 Hydrogen Ready Power Plant Location

Natural gas fuel will be supplied to the HRPP project from an existing lateral tap line on the Vector/ Enbridge pipeline. Hydrogen will be supplied from local gas and energy suppliers along with natural gas as a blended fuel or on its own, i.e., as these fuels become available.

Water for process cooling will be supplied from the Lambton Area Water Supply System (LAWSS) via an existing 12" lateral line connected to the main line on Greenfield Road and a new 14" lateral line from a local industrial supplier (under construction for service in 2022).

Excess blowdown cooling and process wastewater will be discharged through an existing forcemain on the property for treatment at the Courtright municipal wastewater treatment facility. This may require upgrading, to be determined later with the municipality.

The facility will have a net, combined cycle generation capacity of approximately 600 MW depending on prevailing weather conditions, manufacturers' design margins, equipment condition, etc. The facility will include two gas turbogenerator sets both of which run on Natural Gas (NG) and Hydrogen Gas (H₂) fuel blends. The use of H₂ versus NG fuel substantially reduces power plant combustion related GHG CO₂ emissions as hydrogen combustion does not emit carbon dioxide. Additionally, a steam turbogenerator set configured in combined cycle mode will be utilized.

3. Public Notices and Information Provided

The major components of the consultation process in summary:

- 1. Establishing the Project Website: https://hydrogenreadypowerplant.ca/
- 2. Publication of the Notice of Commencement in local new papers (July 16 and July 22) and its posting on the Project Website as shown in Figures 2 and 3;
- 3. Hand delivered the Notice of Commencement to the 9 residential neighbours within a 2km radius of the project site;
- 4. Virtual open house hosted on the project website August 6-13, 2021 (left these presentation materials on the website after August 13, 2021 to present).
- 5. Town Hall meetings- two Zoom internet-based town hall meetings as advertised on the Project web site two weeks in advance for attendance by any interested parties, were hosted on August 11, 2021 at both 3PM EDT and 7PM EDT by senior officials of the proponent;
- 6. Follow up telephone calls and email correspondence with individuals that had raised questions or made comments;
- 7. Provision of the Draft Environmental Screening and Review Report to the Ministry of the Environment Conservation and Parks (MECP) for review and comments.
- 8. Finalization of ESRR with all comments and input received from MECP, other government agencies, First Nations and Walpole Island First Nation independent review of draft ESRR with Neegan Burnside.
- 9. To follow: Posting of the finalized Environmental Screening and Review Report on the HRPP Project Web site: https://hydrogenreadypowerplant.ca/
- 10. Publication of the Notice of Completion of Environmental Screening and Review.

11. Field and respond to any questions comments or concerns raised during the Ontario Regulation 116/01 prescribed 30 day review period.



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It was during the course of this investigation that the obstruc-tion of justice is alleged to have

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NOTICE OF COMMENCEMENT OF ENVIRONMENTAL REVIEW

WALLACEBURG COURIER PRESS

EDITOR'S NOTE

Coming Events is a calendar for non-profit organizations in Wallace burg and area. Events are published space permitting. To have your event published, email to pepp@postme-

July 21: Zoom Storytime - Songs, rhymes, and stories for preschoolers with staff from across the Chatham-Kent Public Library, Every Wednesday morning at 10 a.m. beginning July 7. Register at your local library branch or online at search.ckpl.ca. For more information or questions please call the Wallaceburg branch at 519-627-5292 July 22: Food pantry at First Baptist

Church, Wallaceburg, 10:30 a.m. to July 22: Mobile Market at Bethel Pentecostal Tabernacle, Wallaceburg, 12:30

July 23: Take-out supper at Trinity United Church, 4 p.m.

July 24: Our Lady Help of Christians CWL yard sale, 9 a.m. to 12 noon in the park lot on corner of Elgin and Creek streets, Wallaceburg, behind Our Lady Help Christians Church. COVID protocol

July 24: Noelle's Gift to Children is nosting a charity golf tournament at Willow Ridge Golf And Country Club in Blenheim. \$100 fee per golfer includes 18 holes, cart and meal. Assigned tee times and COVID protocol in place. For more information and to register visit noellesgift.ca
July 25: Dresden Christian Concerts

a ministry of the Dresden and District Christian Ministerial Association, 6:30 p.m. at the parking lot of Total Grain Sys ems/Sydenham Electric (1233 North St., Dresden, formerly Mid-County Ford. Featuring 50 minutes of music and a 10-minute message from a local pastor. Concerts are free but offering will be taken. This evening features Mercy with Rev. Barry Kentner.

July 27: Take-out supper at Bethel Pen tecostal Church, McNaughton Avenue, Wallaceburg, 5 p.m.

July 28: Zoom Storytime – Songs,

rhymes, and stories for preschoolers with staff from across the Chatham-Kent Public Library, Every Wednesday morning at 10 a.m. beginning July 7. Register at your local library branch or online at search.ckpl.ca. For more information of questions please call the Wallaceburg branch at 519-627-5292. July 28: The Wallaceburg & District

Museum is opening after a year, Discover us all over again. Open Tuesdays to Saturdays from 10 a.m. to 4 p.m., and

Thursdays from 4 p.m. to 7 p.m. Free admission during the month of August. July 29: Food pantry at First Baptist Church, Wallaceburg, 10:30 a.m. to 11:30 a.m.

July 29: Mobile Market at Bethel Pentecostal Tabernacle, Wallaceburg, 12:30 nm to1nm

July 31: Yard sale at 270 Inshes Ave. Chatham, 8 a.m. to 2 p.m. Barbecue starts at 10 a.m. All proceeds to Chatham-Kent Animal Rescue.

Aug. 1: Dresden Christian Concerts, ministry of the Dresden and District Christian Ministerial Association, 6:30 p.m. at the parking lot of Total Grain Systems/Sydenham Electric (1233) North St., Dresden, formerly Mid-Cour ty Ford, Featuring 50 minutes of music and a 10-minute message from a local pastor. Concerts are free but offering will be taken. This evening features Sky Terminal (special all-ages event) with Pastor Nichelle Howarth

Aug. 3: Webinar presented by the nicipality of Chatham-Kent and the Small Business Centre: Business Systems and Processes to Make You More Productive, 10 a.m. to 11:30 a.m. This session will help you develop systems and processes that make your business run smoother. This will give you the op-portunity free up time and resources to he more productive earn more income and look at growth potential. Go to www. eventbrite.ca/e/business-systems-and-

processes-to-make-you-more-produc-tive-tickets-152390466989

THURSDAY, JULY 22, 2021 9





NOTICE OF COMMENCEMENT OF ENVIRONMENTAL REVIEW

Hydrogen Ready Power Plant (HRPP) is a planned project by Eastern Power Inc. (EPI) an affiliate of Greenfield South Power Corporation (GSPC). EPI plans to construct and operate a hydrogen/natural gas fueled electricity generating facility (nominal capacity 600 MW) on land leased from GSPC on Oil Springs Line, St. Clair Township (see map). This facility will address needs for additional electricity generating capacity in Ontario's South-West region as identified by the Independent Electricity System Operator (IESO). The facility will have new connections to the IESO-controlled 230 kV Hydro One electricity transmission grid directly adjacent to the project site. HRPP will be able to use hydrogen enriched natural gas, or natural gas from gas lines currently on the site. Water will also come from existing supply lines on the GSPC property. The main components of this combined cycle facility include two advanced-design gas turbines capable of using new hydrogen fuel mixtures planned by local gas suppliers. Local gas suppliers have programs under way to develop hydrogen-enriched pipeline fuel mixtures to achieve lower GHG emissions as part of the overall commitment to help Ontario meet its carbon emission reduction targets. The facility will be operated by qualified operating engineers and will meet all applicable regulations, by-laws and legislation.

This project is subject to the Environmental Screening Process of the Ontario Ministry of Environment Conservation and Parks, Ontario Regulation 116/01 environmental assessment requirements for electricity projects. After preliminary screening, the project is now entering its Environmental Review stage in which air and noise emissions will be subject to more detailed study. EPI has previous experience in managing these activities and will also manage the eventual proposed construction phases.

You are invited to obtain more information about this project on the project's website. You are also invited to attend a virtual open house to be held on the project website between August 6, 2021 and August 13, 2021, to ask questions that you may have and to provide us your comments. To comment on this project or for more information, please contact:

> Bruce E. Holbein Ph.D., Environmental Manager or Raman Raghavan P.Eng., Project Manager Eastern Power Inc. 2275 Lake Shore Boulevard West, Suite 401

Toronto, Ontario M8V 3Y3 Tel: 416-234-1301 Fax: (416) 234-8336

E-mail: info@hydrogenreadypowerplant.ca | Web Site: www.hydrogenreadypowerplant.ca

Figure 3 Notice Published Wallaceburg Courier July 22, 2021

Figure 2 Notice Published Sarnia Observer July 16, 2021

4. HRPP Project Website

The project website was established July 9, 2021 complete with information on the project, notices, contact information and an advertisement for the virtual open house to be held Aug 6-13, 2021. A screen shot of the homepage is shown in Figure 4. The web site will later include a new page for the complete ESRR once finalized for public review and comment during the MECP ON Reg 116/01 prescribed 30 day comment period.

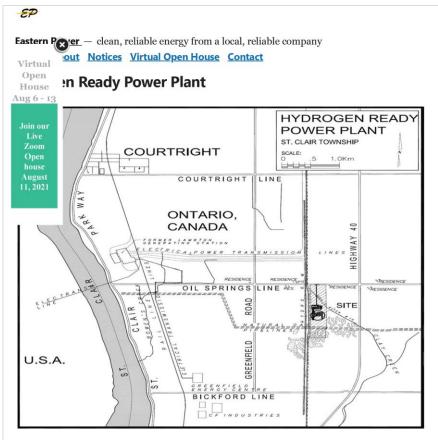


Figure 4 Home page of HRPP website

5. Open House

The presentation materials provided for the virtual open house hosted Aug 6-13, 2021 on the website are shown below. All visitors were encouraged to provide comments or raise any questions or concerns through the contact information provided (see last slide below). The public was also invited to attend a live zoom town hall style meeting on August 11, 2021.

Welcome

Hydrogen Ready Power Plant Virtual Open House August 6-13, 2021

E-mail: info@hydrogenmadspowerplants

Purpose of this Open House

- To provide you information on this project.
- To allow you an opportunity to raise any questions or provide any comments you may have on the project.
- To provide a means for individual follow-up with you
 if you would like to discuss the project directly with us.
- To provide you information on our planned Zoom live open house discussion for August 11, 2021.

E-mail: info@hydrogennadypowerplant.c Web Site: www.hydrogennadypowerplant.

What is the Hydrogen Ready Power Project (HRPP)?

- New power generation plant on same property as established Green Electron Power Plant (GEPP in operation since 2017)
- Designed to meet increased power needs projected for this region by IESO
- Designed to use Hydrogen fuels as well as Natural Gas as part of current move to low GHG emitting power
- Hydrogen Energy Platform development is underway
 in Ontario and the rest of Canada.
- in Ontario and the rest of Canada
 HRPP construction start 2023

F-mail: info@hydroperceadenoweniant.c



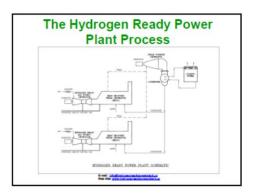
Current Status of Hydrogen Ready Power Plant Project

- Subject to Ministry of Environment Conservation and Parks Environmental Screening Process
- Entered Environmental Review stage to further assess air and noise emissions
- Notice of commencement of EA published in Sarnia Observer July 16, 2021 and Wallaceburg Courier July 22, 2021
- Report of Environmental Review will be available for 30 day public review on the HRPP website at a later date
- · HRPP construction start 2023

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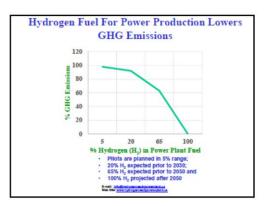
The Hydrogen Ready Power Plant adjacent to GEPP



Why Use Hydrogen For Power Production ?

- Hydrogen fuel is well known industrially in the region and is now being developed to provide the new Hydrogen Energy Platform.
- Ontario, Canadian and worldwide initiatives are now underway to introduce Hydrogen fuel.
- These initiatives are designed to help meet our GHG emission reduction goals.

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Information on Ontario's Hydrogen Initiatives

- https://hydrogencouncil.com/en/
- https://hydrogencouncil.com/en/hydrogen -decarbonization-pathways/
- https://www.outario.ca/page/low-carbonhvdrogen
- https://news.gov.bc.ca/releases/2021EML I0045-001306

Eastern Power

- · Since 1985, Ontario Company
- · Environmental and Engineering Awards
- · Build, own and operate power plants
- · Early leaders in electrical power GHG reductions
- · First Renewable biogas (methane) power 1991
- Designed, constructed and commissioned 300MW Green Electron Power Plant
- Working with power equipment manufacturers for design/supply of the Hydrogen Ready Equipment







Join our Live Zoom Open house August 11, 2021

- We are holding a live Zoom open house August 11 at both 3PM and 7PM
- This will allow you to meet Eastern Power Officials and an opportunity to raise questions you have on the project
- Please refer to the next page for info on Using
 Zoom

S-red: and independent make remaining

The Zoom Meeting link for August 11 3PM: Join our The Zoom Meeting link for August 11 7PM: Live Use Ctrl+Click on the link above to join the virtual meeting Zoom Suggest you join the meeting 5 minutes early

If you are a first time Zoom user download app when prompted You will be placed in a waiting room until the host allows you in Open All participant's microphones will be muted on arrival but can turn on their video if desired house The meeting will provide a presentation followed by a question and answer session To raise a question you can use the chat function or raise your hand function. August The host will unmute you for discussion of your question 11, 2021 The meeting is scheduled for one hour Follow-up for any additional questions will be provided Seed interest properties of the last properties of the last parties of the last partie

Thank You for attending our Virtual Open House

- This open house will remain open between Aug 6-13, 2021
- · You can return to view this as often as you wish
- Please click <u>here</u> if you wish to comment or ask a question of us now-we will follow up with you.
- Alternately contact us at info@hydrogenreadypowerplant.c if you have any comments or questions on the project
- The live Zoom open house August 11, 2021 also provides you an opportunity to meet with us and provide comments and ask your questions
- We appreciate your interest and look forward to hearing from you.

Send intelligence description

6. Town Hall Meetings

Two town hall style zoom meetings were hosted by Eastern Power on August 11, 2021 (3PM and 7PM). Four senior EP company officials were available to discuss the project, answer any questions and address any concerns raised. Only 3 guest participants attended each of the two meetings.

7. Responses and Correspondence

Questions and comments received from participants following the outreach, open house and town hall meetings are summarized below along with responses made by EP.

Participant	Comment	Response
Heather Wright;	I read with interest your report sent to St. Clair Council about the	
Independent of Petrolia	proposed hydrogen ready power plant.	about the need for power in SW region
and Central Lambton		of Ontario and how hydrogen use for
	I would love to talk to one of you, by phone, about the project,	electrical power generation can lower
	why hydrogen energy is important right now, and the time lines	GHG emission in the near future as
	you're looking at.	combustion of hydrogen does not
		release GHG carbon. Information was
		also provided on Ontario's hydrogen hub
		initiative.
Allan White		B. Holbein called Mr. White and
	yet. I would like to speak to someone in power about your	discussed the project with him. He had
	planned expansion on Oil Springs Line.	been concerned about more industry
	When someone with knowledge gets to read this please respond	
	or call me	for industrial use. It was related to him
		that the HRPP project will be on existing
		industrial land alongside an existing
		similar facility and that neighbouring
		lands were planned for future industrial
Edward Neval	Lucyle for Optorio Dower Congretion and we are surrently in an	development by St. Clair Township.
Edward Naval	· ·	B. Holbein responded by email:
Environmental Advisor, Environmental	active demolition project at the former Lambton Generating	Thonk you for your magazage to the
	Station Site (1886 St Clair Pkwy, Courtright, ON). The	Thank you for your message re the
Operations Support / Renewable Generation	demolition project will be followed by site remediation (forecasted	remediation.
Reflewable Generation	for the spring of 2023).	remediation.
Ontario Power	In general, OPG does not have a concern with Easter Power's	Based on your present schedule and our
Generation	proposed the new hydrogen plant, however based on the	expected project schedule, these should
	information on the project website we noticed that you are	not create significant impacts to traffic

planning on starting construction in 2023 (no specific date is provided). This could cause a traffic issue on Oil Springs Line as	
DIOMORO) THIS COURT CAUSE A HARRIC ISSUE OF OIL SOURCE AST	
it is the only way OPG's construction vendors for our site With regard to your site reme	diation
activities can access the site. OPGs site remediation work is activities, we do expect to ha	
currently planned to run until the end of 2023. OPG would like to significant volume of clean so	oil (fill)
request to review their traffic control plan and traffic volume available from our project. The	is material
projections once available to ensure that Eastern Power's Project might be of interest to OPG in	
does not constrict or delay truck traffic from OPGs Projects on Oil your site remediation needs	
Springs Line. would be pleased to discuss	this aspect
with you.	
Please respond back and tell us if this is possible. Feel free to	
call me should you have any questions.	i you,
Sarah Kielek-Caster Thanks to you and your team for hosting the informative Virtual B Holbein responded by ema	il:
Information Session this afternoon. This email is to indicate as Thanks for your reply.	
Rural Planner, Ontario prime agricultural areas will not be affected by the proposed The property being develope	
Ministry of Agriculture, project, OMAFRA will not be issuing comments. zoned Type 3 industrial in 20	
Food and Rural Affairs existing power plant now on the second sec	`
attached general arrangemen	
drawing). The land immediate	•
surrounding the project lands	
scheduled for Type 3 industri	
development by the Townshi Clair as you can see in the a	
Schedule A from the official p	
Clair.	nan or St.
Olaii.	
Shauna Carr Thank you so much for sharing the information at your open B Holbein had follow-up disc	
Economic Development house last week. I would love to connect with Eastern Power to Shauna Carr re hydrogen ex	
Officer better understand what the current operation is doing as I am the the Sarnia area industrial cor	
Sarnia-Lambton	ogen
Economic Partnership love to be able to support your current operation as well as your energy platform.	
proposed expansion.	
Just to give you a bit of background on what the Sarnia-Lambton	
area is looking at for hydrogen:	
https://thesarniajournal.ca/push-on-to-make-sarnia-hub-of-	
ontarios-hydrogen-economy/	

https://www.theobserver.ca/news/local-news/sarnia-areaseeking-to-be-named-ontarios-hydrogen-hub

https://thesarniajournal.ca/opinion-why-sarnia-lambton-should-become-a-hydrogen-powerhouse/

I look forward to connecting with you and or Greg to chat more. Again, thank you for sharing what you are doing with the community.

8. Conclusions

This Public consultation program for the environmental screening and review of the Hydrogen Ready Power Project was designed and carried out to allow the proponent to inform and receive input from any interested members of the public in the immediate local area of the project as well as in the broader Sarnia Lambton regional area.

Consultation with the public will continue throughout all phases of the project as appropriate.