

**Council Update** 

2022



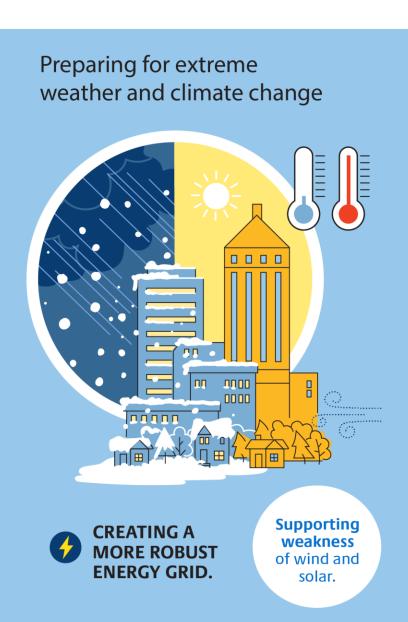


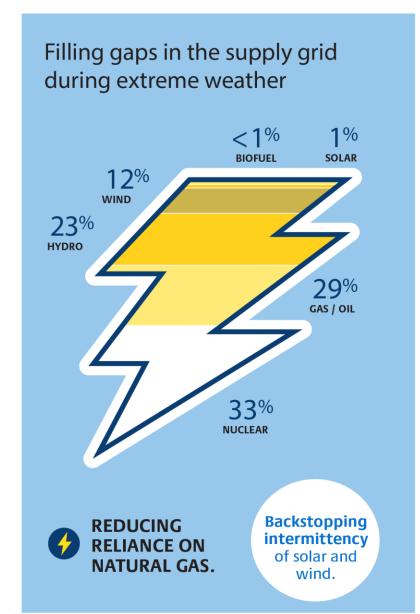


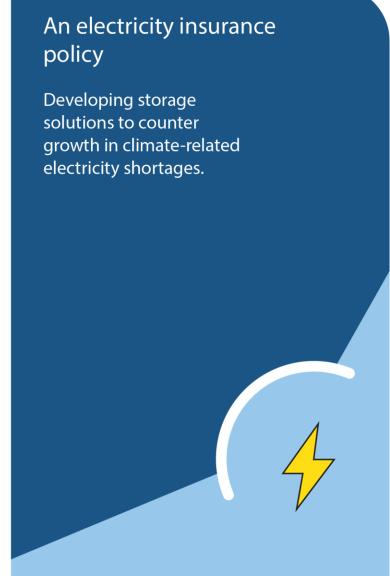
## Creating a reliable, powerful climate solution













## An environmentally-friendly solution







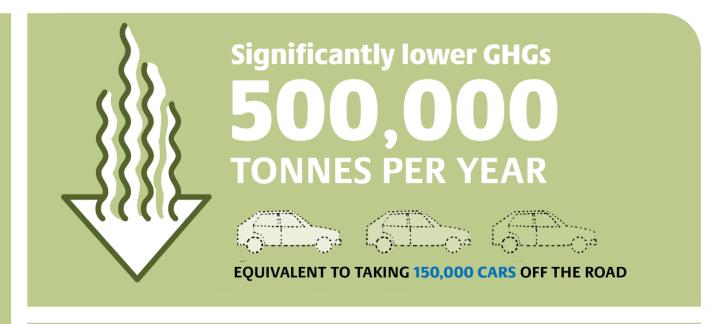
Reuse

AND RECYCLE EXCESS ELECTRICITY



**Reduce** 

RELIANCE ON NATURAL GAS POWER PRODUCTION

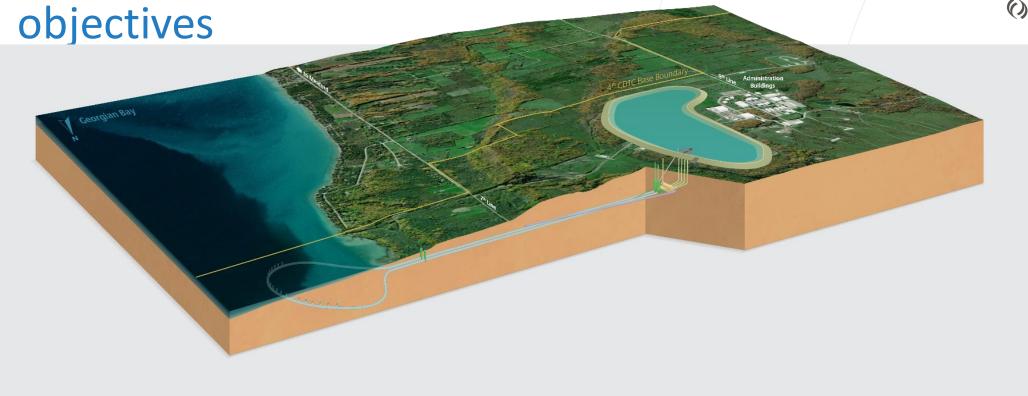




System needs and project









1,000 MW 8 hours capacity



\$250M savings for ratepayers annually



1000 construction jobs over 4 years



490,000 tonnes per year reduction in greenhouse gas emissions

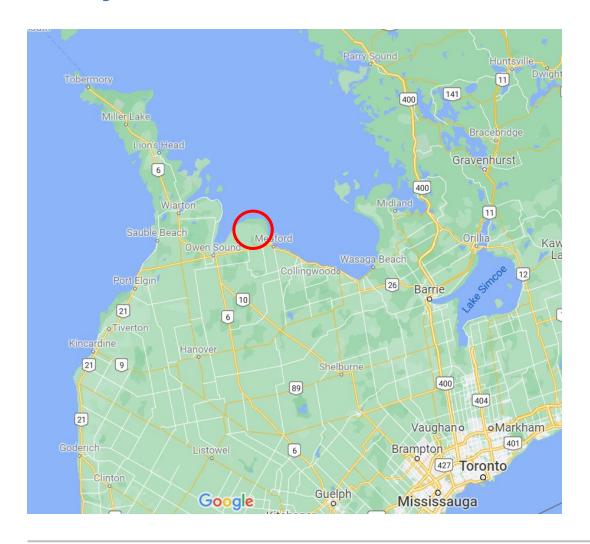


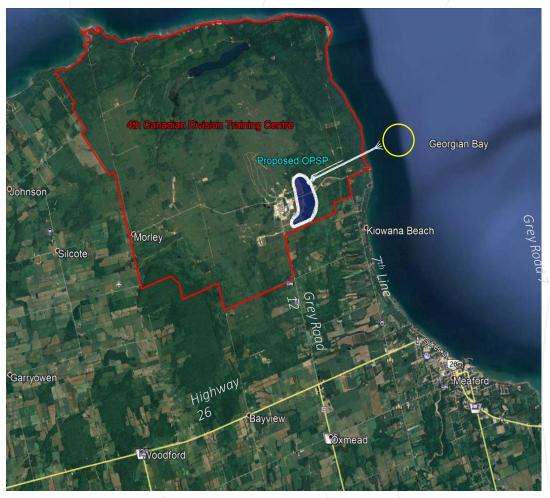
taken off of the road





## **Project Location**

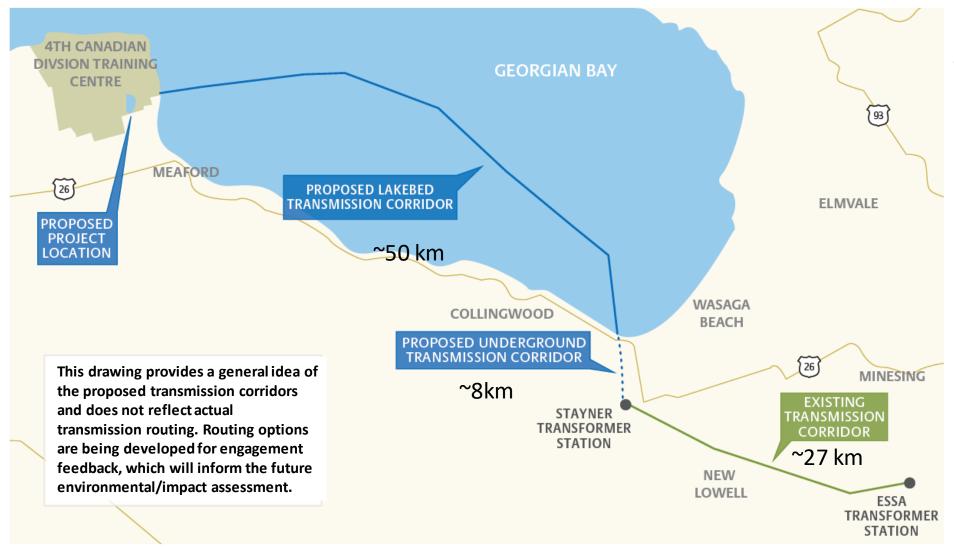




## Connecting to the grid



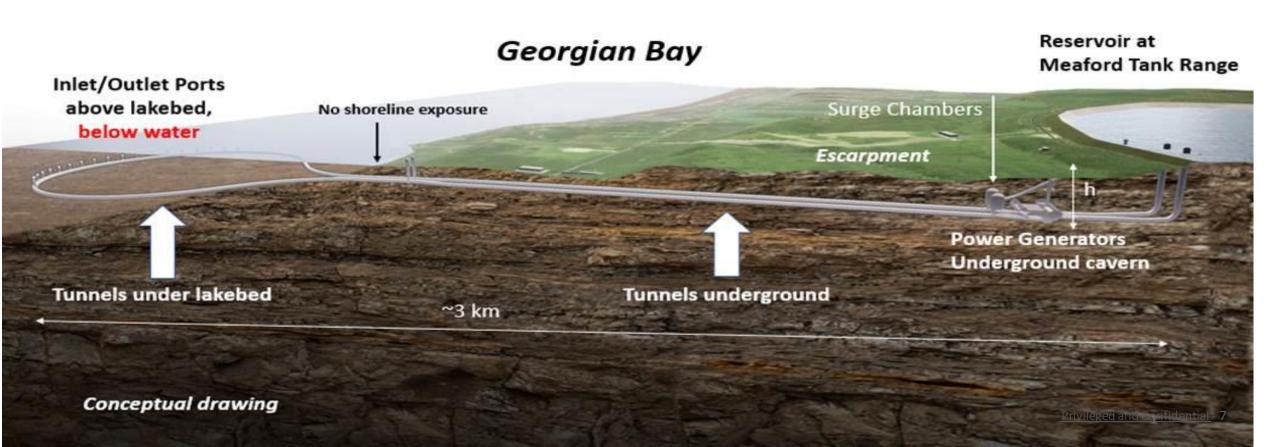




## Design in the Public Eye

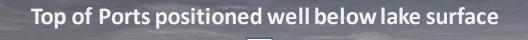


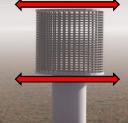
## **Protecting Fish and Water**



# Inlet/Outlet Ports Below Lake Surface







Top and bottom of Ports capped to redirect water flow horizontally, reducing turbidity

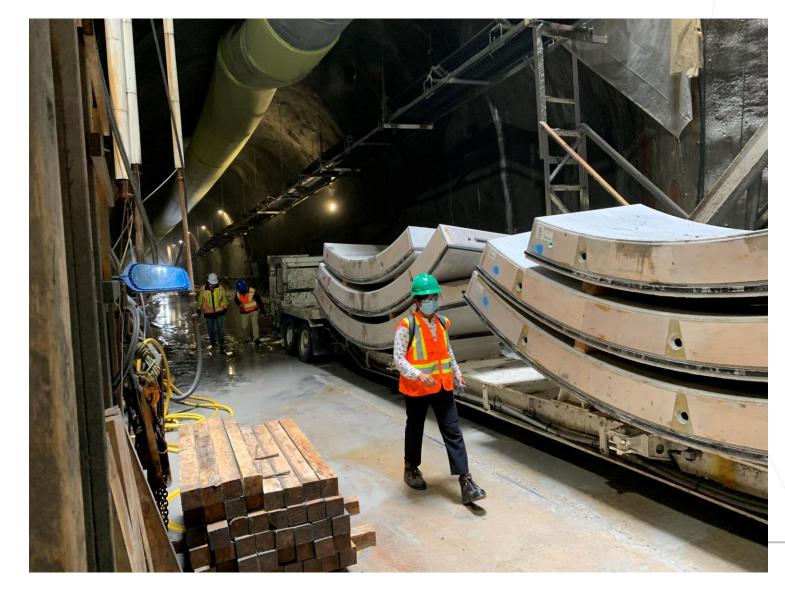
**Multiple Inlet/Outlet Ports** 

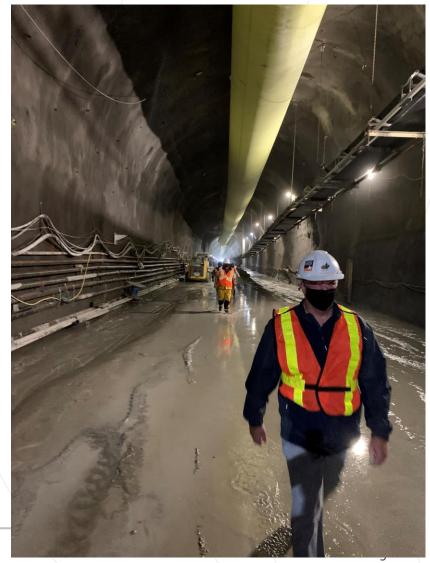
**Georgian Bay** 

# **Tunnel Boring**







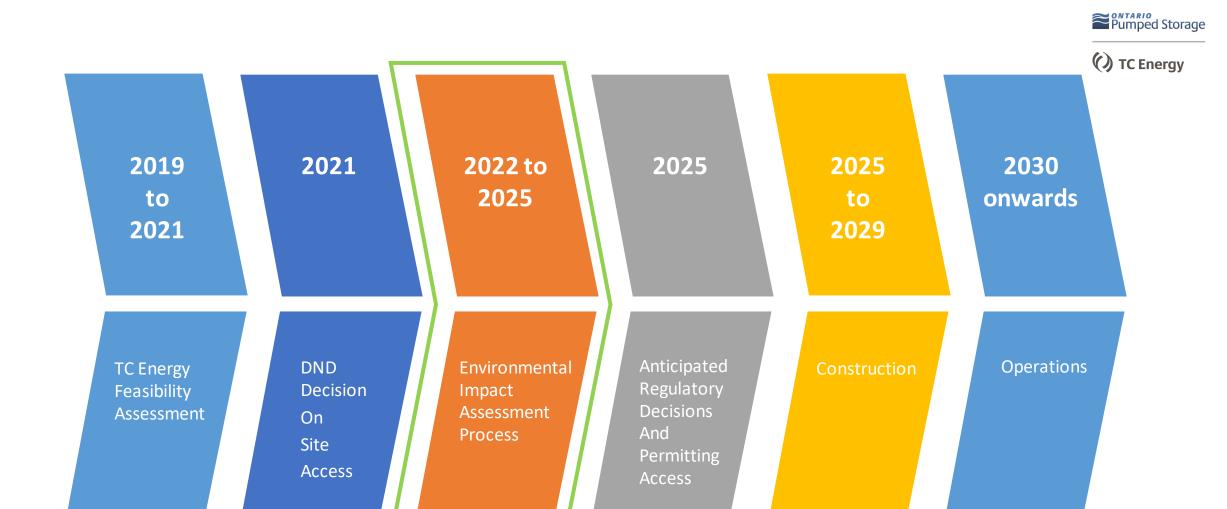


### Pumped Storage

## () TC Energy

## **Construction In-water**







## Made-In-Ontario Economic Development



#### Estimated resource deployment

# Rest of Canada Rest of Ontario Rest Spend Bruce, Grey, Simcoe Counties 45% Rest of Ontario

# % Person-years of Employment Rest of Canada 18% 29% 24,686 PY Rest of Ontario

Sources: TC Energy (CAPEX and PY estimates), Hatch analysis.

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#### Potential suppliers in Ontario





## TC Energy Investing Now...







Makwa-Cahill LP, a fully qualified Indigenous construction and fabrication company working within the energy sector, is pleased to announce that they have been selected by TC Energy to conduct a constructability and fabrication review of the inlet/outlet structures for TC Energy's pumped storage project in Meaford, Ontario.



Hatch to provide reservoir safety guidance and expertise, as well as advisory services, for the development of our transformative 1,000 MW Pumped Storage Project.



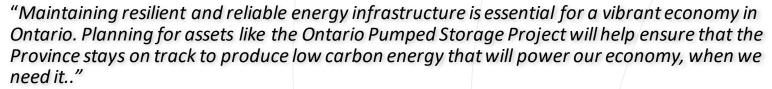
Georgian College researchers are launching a new multi-stage project with TC Energy to identify local trade, service, and people resource providers within Grey, Bruce and Simcoe counties.





## **Project Supporters**





- Rocco Rossi, President and CEO, Ontario Chamber of Commerce



"Ducks is impressed with TC Energy's commitment to listening to the community. When the community expressed concerns about how to protect Georgian Bay, TC Energy redesigned some key elements to address and mitigate these concerns ... Ducks is pleased to continue to monitor this project as it starts the environmental regulatory process"

- Mark Gloutney, National Director of Science – Ducks Unlimited



"We believe the Ontario Pumped Storage Project presents a unique opportunity to provide training and employment opportunities in the province, in support of well paying, middle class skilled jobs to help our economy grow, while addressing important climate concerns through the storage of clean energy"

- Jack Oliveira, Business Manager, LiUNA OPDC and LiUNA, Local 183



# Pumped Storage TC Energy

## More Project Supporters



"Pollution Probe has worked for decades to protect the health of the Great Lakes and to better understand the impacts of different energy futures. TC Energy's proposed Ontario Pumped Storage Project is a positive example of how an open engagement process and a willingness to consider the input of the community can contribute to shaping infrastructure projects with both of these objectives in mind. Pollution Probe will continue to consult with TC Energy and the Georgian Bay community as the pumped storage project moves through the environmental assessment process to ensure the protection of the local environment remains a key focus."

- Christopher Hilkene, CEO, Pollution Probe



"Addressing water pollution is always a top priority. By creating an innovative design based on public feedback, their proposed deep water, inlet-outlet diffuse water infrastructure; their buried powerhouse and tunnelling systems; and openness and transparency in their designs gives us confidence this energy storage project will help address pollution issues in Georgian Bay. We look forward to seeing how this Ontario Pumped Storage Project unfolds."

- Mark Mattson, President and CEO Swim Drink Fish









Direct Staff to review upcoming Impact Assessment submissions and decide on level of engagement in early 2023

## **Economic Opportunities**

Direct Staff to share with the Project socioeconomic data including local vendors, suppliers who might be interested in the Project.

## **Engagement**

Provide the Project with feedback, advice and suggestions on how your community would like to be engaged through the regulatory process and get informed about the Project.







Ensuring that we protect Georgian Bay and the surrounding environment as we develop this project is our priority.



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