

# Feedback Form

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## Pathways to Decarbonization – February 24, 2022

### Feedback Provided by:

Name: Mike Fletcher

Title: Project Manager, Climate Change and Resiliency

Organization: City of Ottawa

Email: [REDACTED]

Date: March 7th, 2022

## Policy

Topic	Feedback
Are the assumptions indicated reasonable and comprehensive in terms of scale and timing?	Click or tap here to enter text.

Topic	Feedback
Are there other considerations for the IESO?	<ol style="list-style-type: none"><li>1. City policy on intensification within Ottawa's urban boundary will encourage DER and may attempt to discourage transmission corridors. And 2. Our new official plan will encourage renewable generation</li></ol>

## Demand

Topic	Feedback
Are the assumptions indicated reasonable and comprehensive in terms of scale and timing?	

Topic	Feedback
Are there other considerations for the IESO?	40 MW of electrically heated hot water is being brought over from Quebec in downtown Ottawa

## Resources

Topic	Feedback
Are the assumptions indicated reasonable and comprehensive in terms of scale and timing?	Click or tap here to enter text.

Topic	Feedback
Are there additional data sources that we should consider	Municipal energy plans, such as Ottawa’s Energy Evolution, are among the only energy plans which are fully integrated as they demonstrate a pathway that avoids contributions to catastrophic levels of GHG emissions. This plan is public (link here: <a href="https://ottawa.ca/en/living-ottawa/environment-conservation-and-climate/climate-change-and-energy/energy-evolution">https://ottawa.ca/en/living-ottawa/environment-conservation-and-climate/climate-change-and-energy/energy-evolution</a> ). If not referring to it already, Ottawa recommends that the IESO consider the Energy Futures study on decarbonizing New England. Ottawa has provided this previously to the IESO.
Are there other considerations for the IESO?	Increasing energy density for wind and solar, not just falling cost per kWh will encourage their use.

## General Comments/Feedback

We developed some feedback to the IESO document made available on March 2nd. As follows:

### **City of Ottawa Comments on Decarbonization Pathways**

Area	Comments
Space Heating Buildings	Needs to have assumptions for a thermal efficiency value such as Thermal Energy Density Value (TEDV) and how it might improve. Will want to assume a ground source / air source heat pump ratio split. Will want to assume a climate change scenario to estimate heating degree days as the climate catastrophe worsens
Clothes Drying	Needs to consider heat pump clothes driers. Also, if we're mentioning clothes driers we are just curious as to why other gas appliances are not mentioned (fireplaces, stoves etc.)
Commercial Sector	Does this include the institutional sector?
Rail Transit	Should include Via Rail - new fleet is dual fuel
Generation Sources	Need to consider repowering and runner upgrades
Solar	The capacity factor looks high for our area
Heavy Duty Vehicles	Should have some electrification as short haul trucking and delivery vans are now getting demonstrated or used

Retrofits Generally (fueled generating stations)	We may want a dual fueled plant with renewable fuel oil
Retrofit NG with CCS	Will not work in all locations. Also, we can do RNG with CCS to achieve negative GHG emissions
Biomass	Some biomass streams are carbon positive and assumption about carbon neutrality of biomass streams needs to be carefully checked