



April 5, 2021

Town of Orangeville
Attn: Mayor Brown and Members of Council
87 Broadway
Orangeville ON L9W 1K1

RE: Response to the Town of Orangeville's February 8th, 2021 motion to write letter regarding phasing-out all gas-fired electricity generation in Ontario

During the March 18th, 2021 Orangeville Hydro Board meeting, a presentation was provided to the Board regarding a recent motion that was approved by the Town of Orangeville Council. A request has been made to provide a similar presentation to the Town of Orangeville Council on Monday, April 12th, 2021.

For background, the Town of Orangeville Council passed the following motion during the February 8th council meeting:

15. Notice of Motion Prior to Meeting

15.1. Councillor Peters, Greenhouse Gas Emissions

Whereas the Town of Orangeville prides itself on being a municipal leader with respect to sustainability, including the endorsement of the Sustainable Neighbourhood Action Plan and a community greenhouse gas (GHG) inventory;
And whereas the Town will be establishing a long term carbon goal later this year;
And whereas municipalities account for 50% of global emissions thus necessitating further action by all sectors and other levels of government;
And whereas the Ontario government recently purchased 3 gas plants, a move that could lead to the increase of provincial greenhouse gas pollution by more than 400% by 2040;
And whereas a number of municipalities, as partners in government, have passed motions to ask Queen's Park to reverse this decision in keeping with the need to reduce, not increase, greenhouse gas emissions;
Therefore Be It Resolved That the Town of Orangeville write to the Minister of Municipal Affairs and Housing and the Minister of Environment, Conservation, Energy, and Parks to request that the Government of Ontario develop and implement a plan to phase-out all gas-fired electricity generation as soon as possible, with an emphasis on proven renewable energy technologies and energy storage, to ensure that Orangeville and other municipalities are enabled to achieve climate action goals (or "GHG emission reduction targets"); and
That the Town of Orangeville write the respective portfolio critics, all party leaders in the Legislature, and the Association of Municipalities of Ontario, requesting that the Government of Ontario develop and implement a plan to phase-out all gas-fired electricity generation, and direct the IESO to accelerate the use of renewable electricity supply, energy storage, and energy efficiency in all sectors, in order to reduce provincial greenhouse gas emissions as soon as possible and bolster our competitiveness in the global cleantech marketplace and overall emerging low-carbon economy.

To provide more background, in 2020, a report was created that summarizes the baseline inventory of community GHG emissions within the County of Dufferin's geographical boundaries for the year 2016. This report provides a significant amount of GHG emission data including the Emissions by Energy Source.

For Dufferin County: Electricity was the source of 5% of CO₂ emissions, while Gasoline was 46%, Natural Gas 23%, and Livestock 16%.

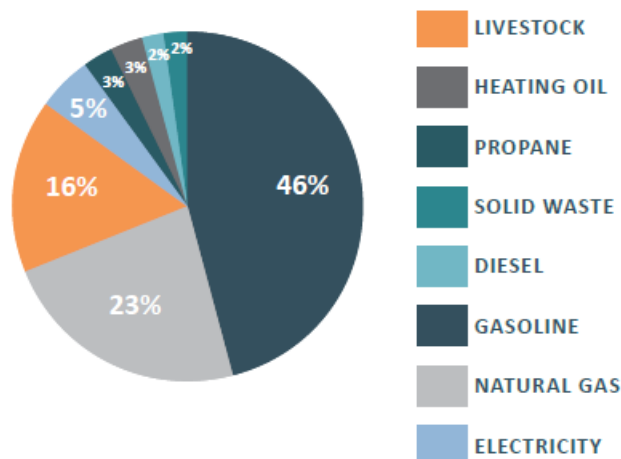
For Grand Valley: Electricity was the source of 5% of CO₂ emissions, while Gasoline was 80%, and Natural Gas 11%.

For Orangeville: Electricity was the source of 3% of CO₂ emissions, while Gasoline was 53%, Natural Gas 38%, and Solid Waste 3%.

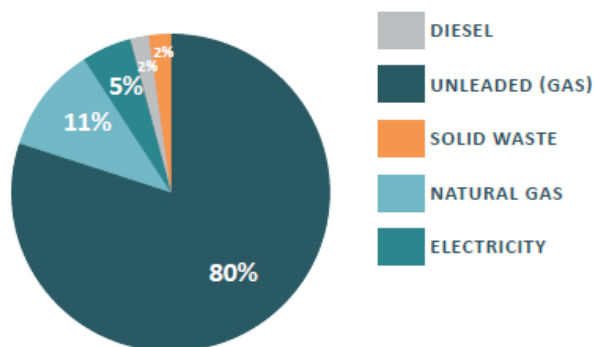
TABLE 4. DUFFERIN COUNTY COMMUNITY EMISSIONS BY ENERGY SOURCE

ENERGY SOURCE	CONSUMPTION	CO ₂ E PRODUCED (TONNES)	%
ELECTRICITY	585,833,011kwh	23,012	5%
NATURAL GAS	53,084,019m ³	100,825	23%
GASOLINE	85,035,238L	202,870	46%
DIESEL	2,953,638L	8,180	2%
PROPANE	7,513,527L	11,531	3%
HEATING OIL	1,662,848L	12,908	3%
SOLID WASTE	7,100T	8,180	2%
LIVESTOCK	2,830kgCH ₄	70,760	16%
TOTAL		438,266	100%

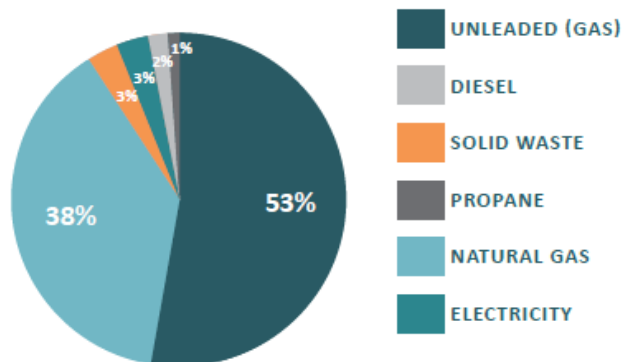
FIGURE 2. DUFFERIN COUNTY COMMUNITY EMISSIONS BY ENERGY SOURCE



TCO₂E GRAND VALLEY BY ENERGY SOURCE



TCO₂E ORANGEVILLE BY ENERGY SOURCE



The recent presentation to the Orangeville Hydro Board discussed the following questions:

- What are the sources of GHGs in the Town of Orangeville?
- What is the source of electricity GHGs relative to other GHG sources?
- What could be the impact if the carbon intensity of Ontario's electricity increases 400%?
- What could be the impacts of eliminating natural gas powerplants?
- So?....Now what?

I look forward to the opportunity to discuss this topic with the Town of Orangeville Council and additional attendees.

Sincerely,

Rob Koekkoek, P.Eng.
President
Orangeville Hydro Limited