



Bruce County
Federation of Agriculture

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Canadian Tire Corporation
2180 Yonge Street
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Nov. 14, 2020

Attn: Joanne McMillin, AVP Sustainability (joanne.mcmillin@cantire.com)

Subj: Constructive and sustainable applications of electrolysis for agriculture

Dear Ms. McMillin,

Our group represents the broad sector of farming, dairy and animal husbandry in Bruce County, Ontario. Agriculture is an essential sector in Ontario and a major contributor to the Canadian economy. We are supportive of the implementation of renewable energy and sustainability advancements in agriculture to fight climate change and increase our operational resilience.

Electrolysis uses water to generate oxygen and hydrogen efficiently and is an important technology in equipping society to build a hydrogen energy infrastructure. We know that infrastructure development takes time and developing bridging strategies that help move us forward are essential. We want to applaud Canadian Tire Corporation's insights that recognized the immediate utility of the oxygen to agriculture and its plan to deploy an electrolyzer module in Bruce County.

Oxygen is an enabling accelerant for the decomposition of agriwastes and can be used in aerobic digestion of multiple outputs of the agricultural sector. Decomposition is an important step toward nutrient recovery and recycling processes.

Using pure oxygen to generate ozone is clearly sustainable because it has non-toxic residues and would not require importation from outside the County. Further, we are excited to learn about the potential of ozone disinfection for neutralizing the biohazard of the COVID-19 virus as well as bacteria which represents an on-going challenge to our sector. Canadian Tire's expertise in ozone generation and mechanizations of both air and liquid applications is impressive. We are grateful for you sharing this information.

The immediate use of the hydrogen to manufacture "Green Ammonia" is a perfect fit for our sector and of immediate pertinence to the Ontario agricultural community. While we know the longer term thinking is to prepare for hydrogen fueled mobility it is pragmatic and economically consequential to verify to our Province that on-site electrolysis has an important role to play in agriculture now.

We are prepared to form a "user group" that would collaborate with the Bruce Innovates organization and Canadian Tire as you plan the NH-60 electrolyzer module placement. We look forward to working with you and wish to thank Canadian Tire Corporation for its leadership and unique support to our entire agricultural sector.



Chris Cossitt
President BCFA

IN UNITY THERE'S STRENGTH