



# ROADMAP TO 2050





# GGC Members

As the national voice for Canadian grain farmers, our membership comprises fourteen national, provincial and regional organizations representing over 65,000 grain farmers coast to coast.







# Canada's grain farmers are ready to meet the challenge of net-zero emissions by 2050

Farmers are known to be innovative and resourceful, always finding ways to produce more with less. Now, they're ready to take on the challenge of enhancing sustainability while still maintaining productivity and profitability. To reach 2050, we need solutions that meet each farm's unique needs and make practical and financial sense.





# Project Overview



**01**

**Jointly funded by GGC members and external industry partners.**

**02**

**Led by environmental and economic policy consultants.**

**03**

**Informed by expert Advisory Council.**

**04**

**Preliminary report available.**

# Our Consultant Team



**René Drolet**

B.Sc., Master's Degree in  
Biology (Project Lead)



**Giulia  
Brutesco**

P.Eng (Data collection  
and analysis, and project  
support)



**Selena  
Fraser-Arvai**

P.Eng. (Lead,  
quantification)



**Noah Arshinoff**

(Policy development and  
program gaps)



# Expert Advisory Council

## Grain Growers of Canada (GGC) Representatives:

**Farmer Chair – Brendan Phillips (Manitoba Pulse & Soybean Growers (MPSG))**

**Farmer – Jocelyn Velestuk (Saskatchewan Wheat Development Commission (Sask Wheat)) GGC – Justine Raftis (Canadian Canola Growers Association (CCGA))**

**GGC – Shannon Sereda (Alberta Wheat and Barley Commissions) GGC – Salah Zoghلامي (Producteurs de Grains du Quebec (PGQ))**

## Additional Members:

**Corteva Agriscience – Dr. Rory Degenhardt, Field Sciences Research Leader for**

**Canada Fertilizer Canada – Cassandra Cotton, Vice President of Sustainability**

**Canadian Agri-Food Policy Institute (CAPI) – Tyler McCann, Managing Director**

**Smart Prosperity Institute – Derek Eaton, Director of Public Policy Research and**

**Outreach Olds College – Joy Agnew, Vice President of Applied Research**

**University of Manitoba Soil Ecology Lab – Dr. Mario Tenuta**

**Biological Carbon Canada – Nevin Rosaasen, Vice**

**President**



# Industry Partner



FERTILIZER CANADA



**CORTEVA**<sup>TM</sup>  
agriscience



CEREALS  
CANADA



The Canadian government has set out an ambitious plan to achieve net zero by 2050, along with every other G7 nation, and over 120 countries around the world. This plan is supported by the Greenhouse Gas Pollution Pricing Act, which establishes a legally binding process to set five-year national emissions-reduction targets.

# Our Approach

Prioritizes practical, financially viable and farmer-aligned strategic actions for the environment and economy.

Highlights the importance of taking strategic actions rather than solely focusing on GHG reduction percentages.





# Four Lanes to 2050

At GGC, we have developed a four-lane approach to achieving net-zero emissions by 2050.



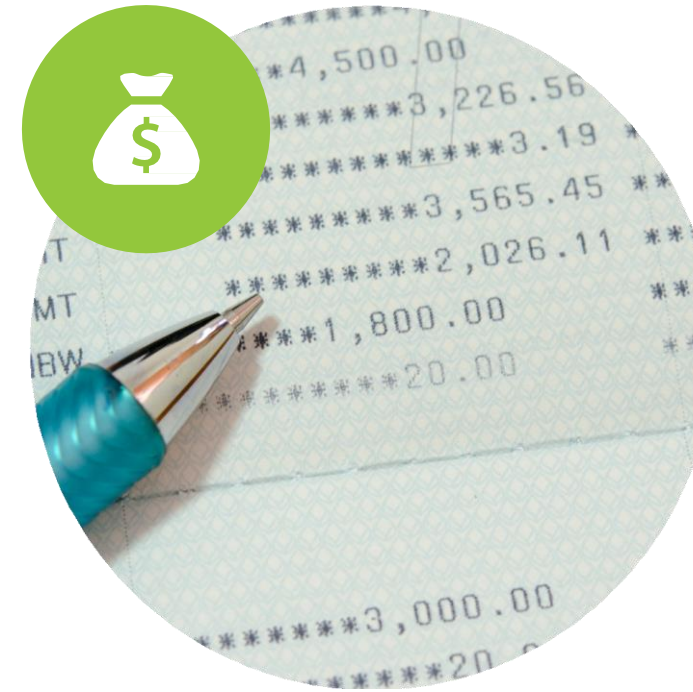
## Extension

Empowering farmers with knowledge, tools and resources.



## Innovation

Encourage research and development to foster innovation in inputs, technologies and farming practices.



## Incentives

Provide financial incentives to offset costs of adopting new technologies and best management practices.



## Measurement & Data

Develop robust measurement and data collection to accurately assess the environmental impact.



**How are  
we  
getting  
to 2050?**



**2000-2022**

**Building  
a Solid  
Foundation**

**2023-2030**

**Transition  
Decade**



**2030-2040**

**Transformation  
Decade**

**2040-2050**

**Farms of the  
Future**





# The Role of Governments in the Road to Net-Zero

Governments play an essential role in enabling the transition to net-zero emissions. Government policies act as a traffic light, either encouraging, slowing down, or stopping progress toward sustainability.

- GGC proposes policy measures, such as increased investments in research and development, funding for extension services, and tax incentives, to drive progress toward net-zero emissions.
- Government support and collaboration are crucial for implementing effective strategies and achieving sustainable outcomes.
- GGC advocates for policies that align with farmers' needs and promote sustainable practices for a greener future.

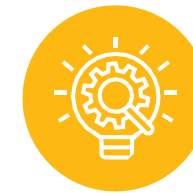


# Innovation

Grain farmers are reducing emissions and sequestering carbon thanks to innovation in inputs and farming practices, which in turn improve profitability – but there are bumps ahead.



## Paving the Lane



Canada is falling behind in government and private R&D investments.



Preventing modern rules for science-based gene editing approvals.



Political intervention pausing MRL reviews.



Prescriptive rules that prevent farm-specific innovative approaches.



# Policy Proposals: Innovation



- Set a target to be the largest investor in grain-related research per GDP and remove regulatory barriers.
- Ensure access to the best plant varieties and crop inputs:
  - a. Defend these tools as safe and essential to emissions reduction and sustainability.
  - b. Publish CFIA's updated guidance on plant breeding innovations.
  - c. Pesticide approvals must be based on science and risk-based decision-making.
- Sustainable agriculture policies that enable and facilitate action.

# Trade and Transportation

Canadian grain exports are good for the environment and can replace less sustainable grain, but we need reliability in our transportation system and open pathways for trade.



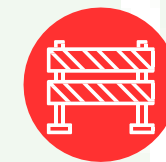
## Removing Roadblocks



Global grain demand is being met by production from less sustainable regions.



Preventing Canada from negotiating new, ambitious trade deals.



Barriers around the world that stop Canadian grain from getting to consumers.



Transportation systems that are not reliable and too expensive.



Penalties not being applied equally along the supply chain.



# Policy Proposals: Trade and Transportation



- Champion Canada's leadership in low-emissions grain production and food security.
- Support a pro-trade agenda, and oppose C-282.
- Fight market access barriers that grain from getting to market.
- Implement the National Supply Chain Task Force recommendations, including:
  - a. Expand interswitching.
  - b. Invest to remove pressure points.
  - c. Give the Canadian Transportation Agency the mandate to ensure balanced negotiating powers between shippers and railways.
- Develop and apply meaningful reciprocal penalties to increase rail reliability.



# QUESTIONS?

Learn more:  
[ggcroadto2050.ca](http://ggcroadto2050.ca)

