



EGG FARMERS
OF CANADA

TOWARDS NET-ZERO

ROADMAP FOR THE CANADIAN
EGG FARMING SECTOR



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A shared commitment

In 2023, Egg Farmers of Canada (EFC) announced a commitment to work towards achieving net-zero greenhouse gas (GHG) emissions by 2050, setting a strong course for the next chapter of sustainability for the sector. The commitment builds on decades of work to embrace research, innovation and techniques that support sustainable agricultural practices. The approach aligns with the Government of Canada and United Nations' guidance of net-zero GHG emissions by 2050.



“Stepping up our commitment to eliminate GHG emissions is a natural extension of our already established holistic approach to sustainability—an approach that continues to guide our actions today and into the future. A net-zero goal naturally builds on these efforts and further entrenches our commitment towards the environment in the core of our farming operations.”

— Roger Pelissero, Chair



Building on a strong foundation



Canadian egg farmers have a longstanding track record of supporting sustainable initiatives and programs, including investment in a comprehensive science-based research program, farm-level decision-making tools, and environmental technologies. This approach has led to efficiency gains and productivity improvements in the egg farming sector, allowing farmers to produce more eggs with fewer resources.

All these efforts have enabled a more advanced, coordinated system that supports our commitment to work towards net-zero

Outcome:
Working towards net-zero

Enabled data-driven decisions and industry alignment

Development of NESTT* to support farm-level planning

Ongoing global collaboration through the World Egg Organisation

Advanced sustainability knowledge and solutions

Ongoing investments through our Research Grant Program

Established the EFC Research Chair in Sustainability at the University of British Columbia

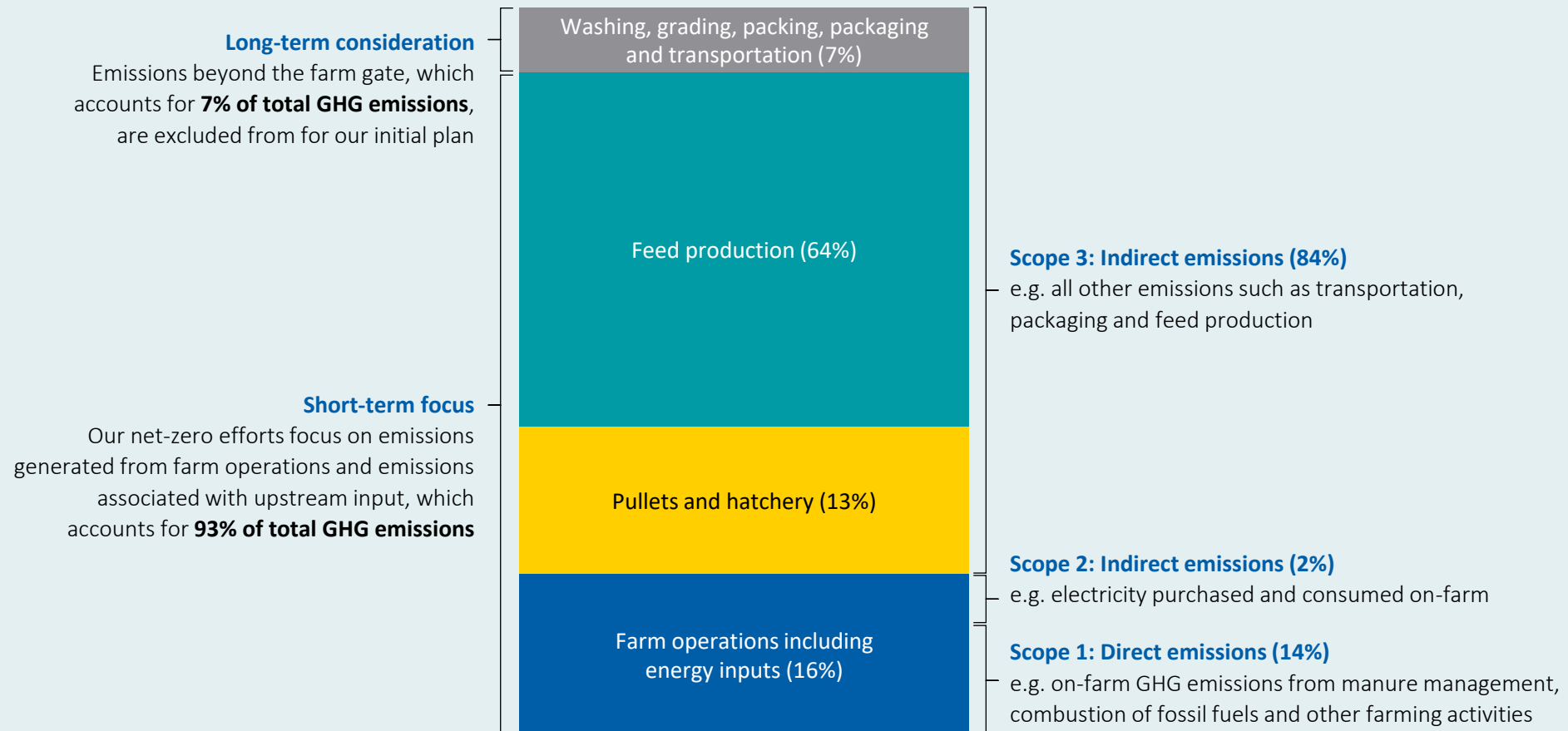
Built a strong operational and environmental foundation

Decades of on-farm efficiency improvements

50+ years of environmental impact assessment, establishing a national baseline

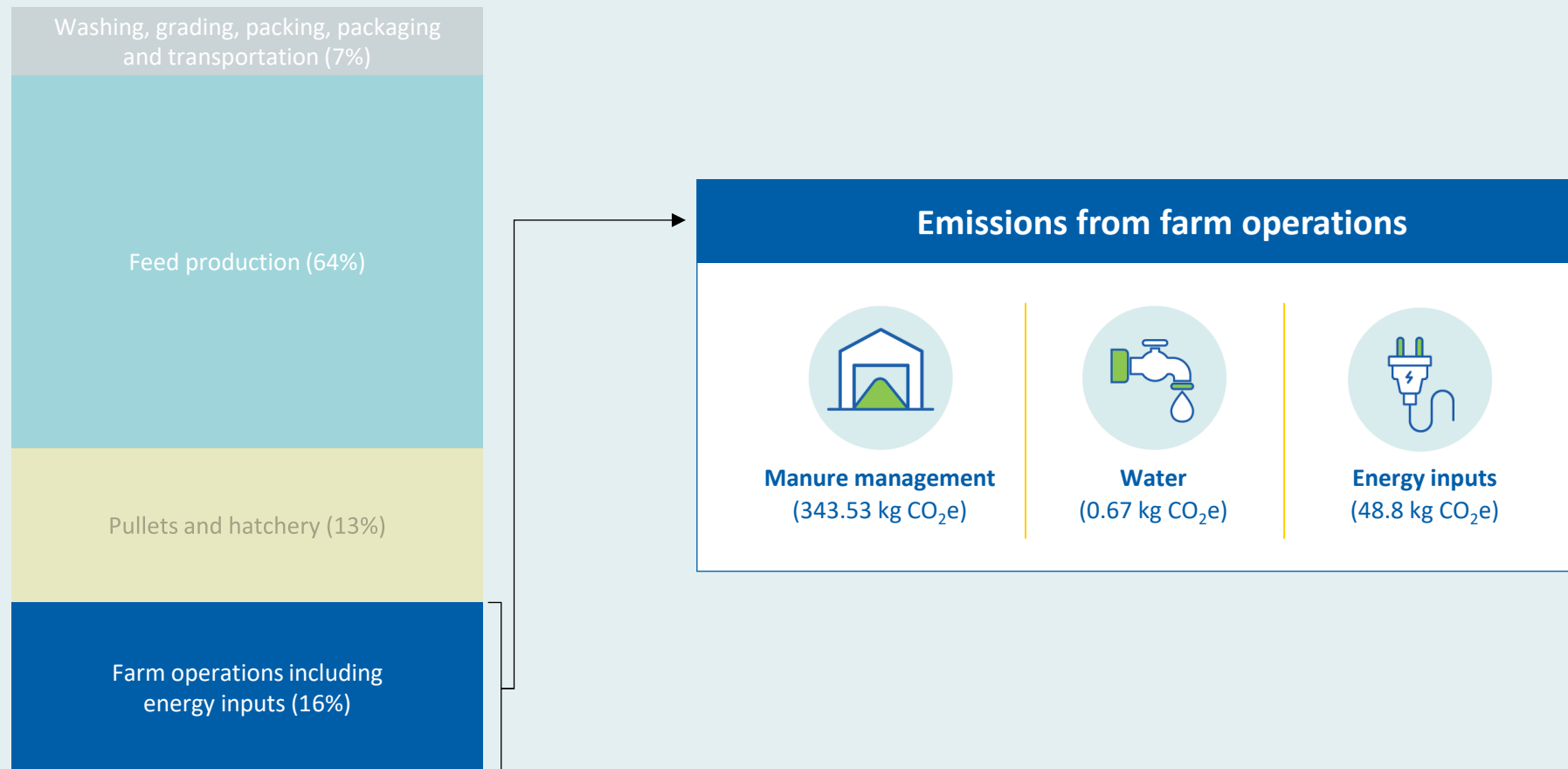
Total GHG emissions by scope¹

The GHG emissions from egg farming and across the egg value chain are well understood through ISO-compliant Life Cycle Assessment (LCA) modelling. This approach captures the emissions from all activities across the egg supply chain.



Carbon footprint of egg farming

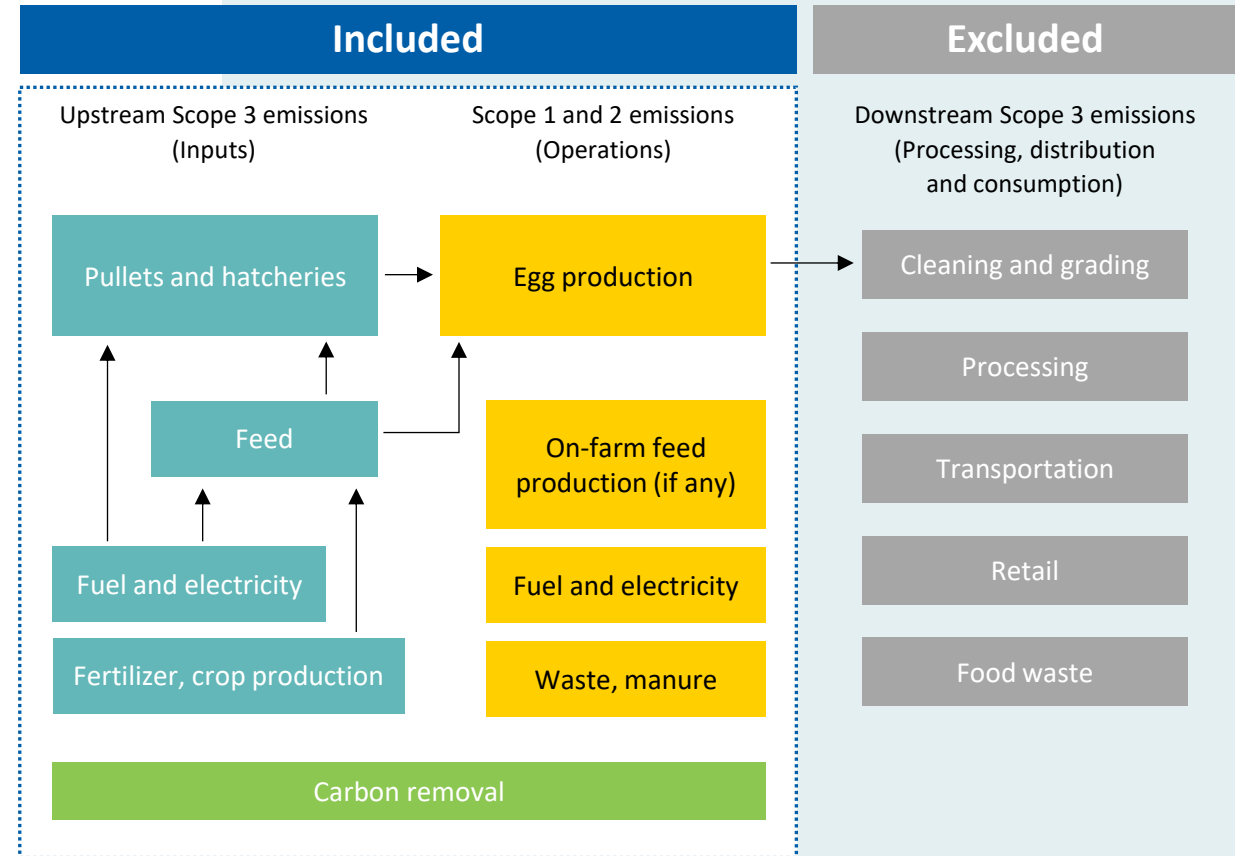
The average GHG emissions for a tonne of eggs produced in Canada are estimated at 2,457.56 kg CO₂ equivalent, with direct emissions from the farm and energy inputs representing 16% of total emissions. The entire egg supply chain emissions account for less than 2% of Canada's agricultural emissions.



Emissions boundaries

EFC's roadmap focuses on emissions generated from farm operations and emissions associated with upstream inputs. This approach aligns with best practice guidance and ensures the most substantive emissions are addressed.

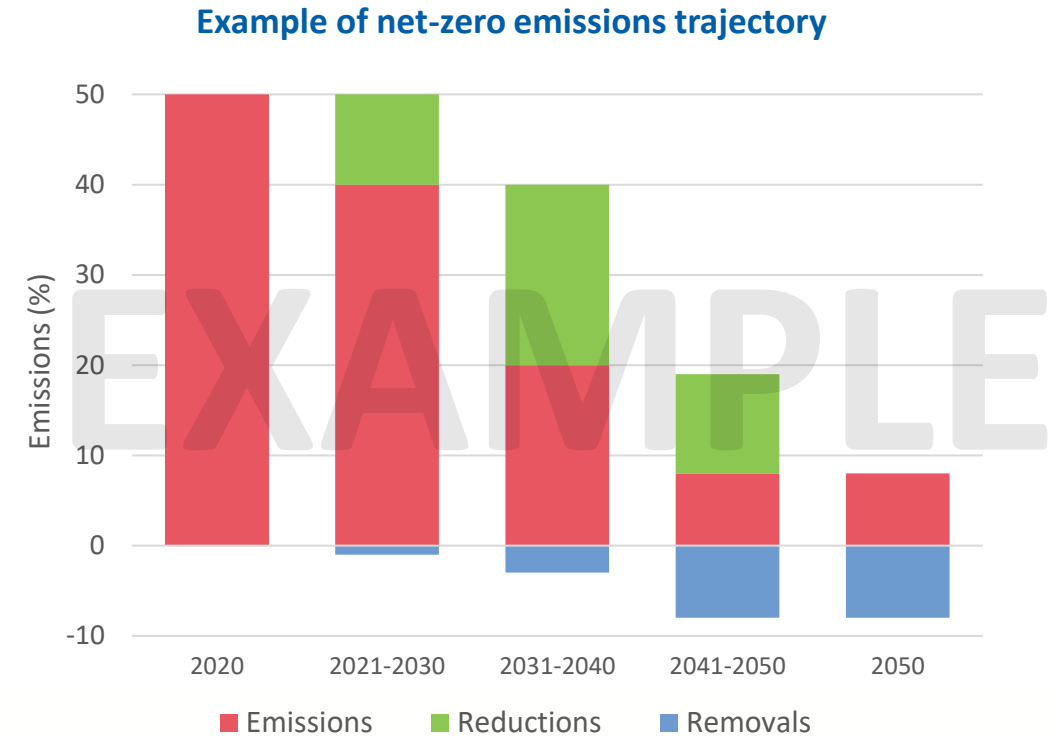
- Our immediate focus is on the areas where we have the strongest influence, which allows us to prioritize our efforts and foster collaboration with farmers, egg boards and upstream supply chain partners.
- Since over 75% of emissions from egg production come from pullets, hatcheries and feed production there are significant opportunities for emissions reduction in these areas as well.²
- Emissions from downstream activities, or those beyond the farm gate, such as grading, washing and consumer waste, represent a smaller portion of the overall emissions and may be considered in the future.



Note: The blue dotted line represents the identified emissions sources across the egg value chain to be included in the roadmap boundary. The roadmap will focus on reducing emissions from the most significant emission sources, including farm level operations.

Emissions trajectory

Our baseline year is 2019, as it represents the most recent year with reliable data from the updated LCA for the Canadian egg industry. A focus is on establishing an emissions trajectory to serve as a tool for prioritizing reduction activities and on the role of carbon removal activities in addressing residual emissions.

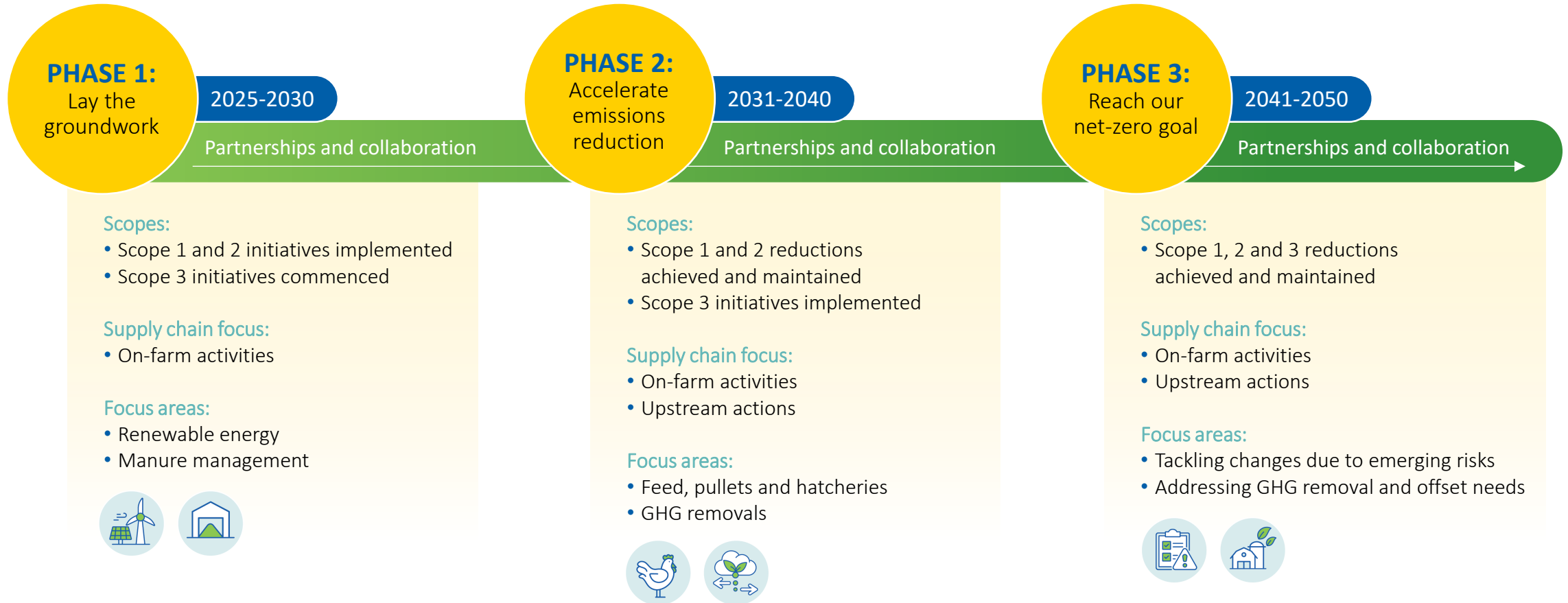


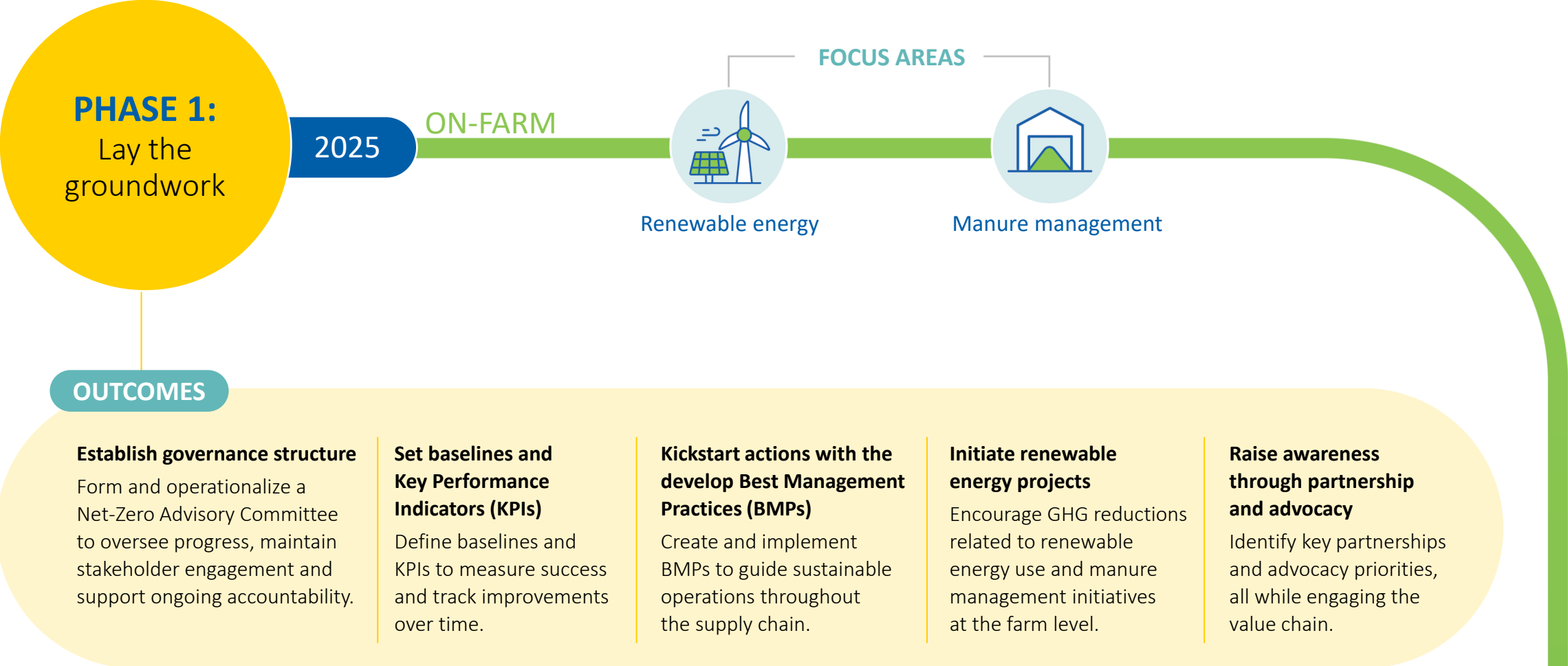
Roadmap development process

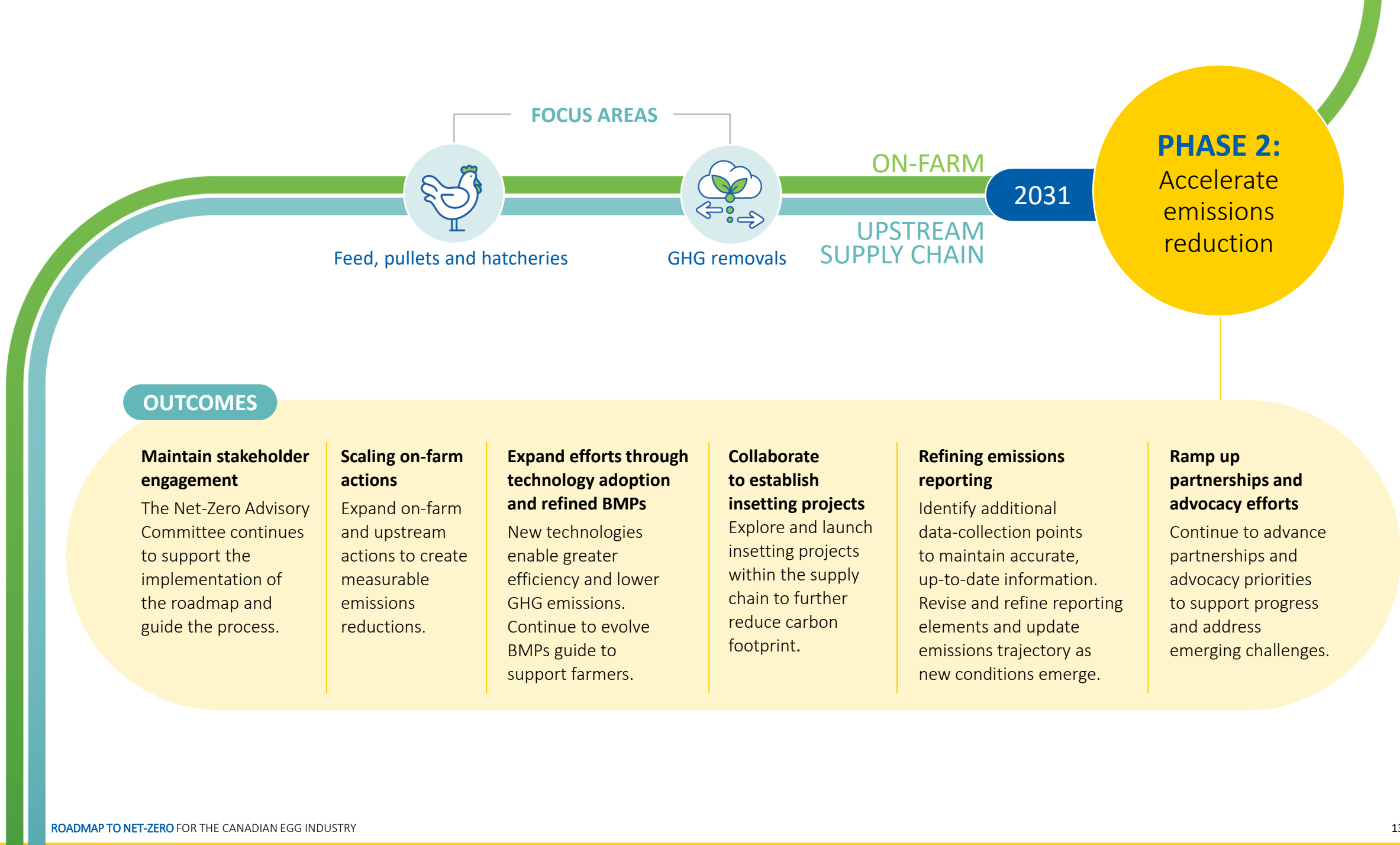
- 2023** ○ Commitment to work towards net-zero
Initial industry stakeholder engagement
- 2024** ○ Publishing of 'What we heard' report
Preliminary roadmap development
- 2025** ○ Second wave of stakeholder consultations
Roadmap to Net-Zero for the Canadian Egg Industry finalized
- 2026** ○ Initiation of a national Net-zero
Advisory Committee



Working towards net-zero: Our phased approach







PHASE 3:

Reach our
net-zero goal

2041

FOCUS AREAS



Emerging risks and opportunities



Removals and offsets

UPSTREAM
SUPPLY CHAIN

ON-FARM

2050

OUTCOMES

Continue a high-degree of stakeholder engagement

The Net-Zero Advisory Committee continues to support the implementation of the roadmap and guide the process.

Optimize emission reduction activities

This phase focuses on maintaining emission reductions and adopting activities that balance remaining emissions to reach net-zero across the supply chain.

Scale up carbon removal and offsetting activities

Expansion of carbon removal and offset initiatives helps neutralize remaining emissions to support sustainability goals.

Operationalizing insetting projects

Embedding sustainability within the organization and partners through fully operational insetting projects to make significant emissions reduction in farm operations and the upstream supply chain.

Drive targeted advocacy efforts

New policy and advocacy areas are identified and raised to support ongoing efforts to work towards net-zero emissions.

Uphold transparency and collaboration

Reporting processes continue to ensure transparency while maintaining a high degree of collaboration across the value chain to sustain long-term success.

Continue to adapt

Respond to new risks and opportunities through nimble programming and an adaptive process.

A sustainable future

Working towards our net-zero target will require balancing the **three lenses of sustainability: environmental, social and economic.**

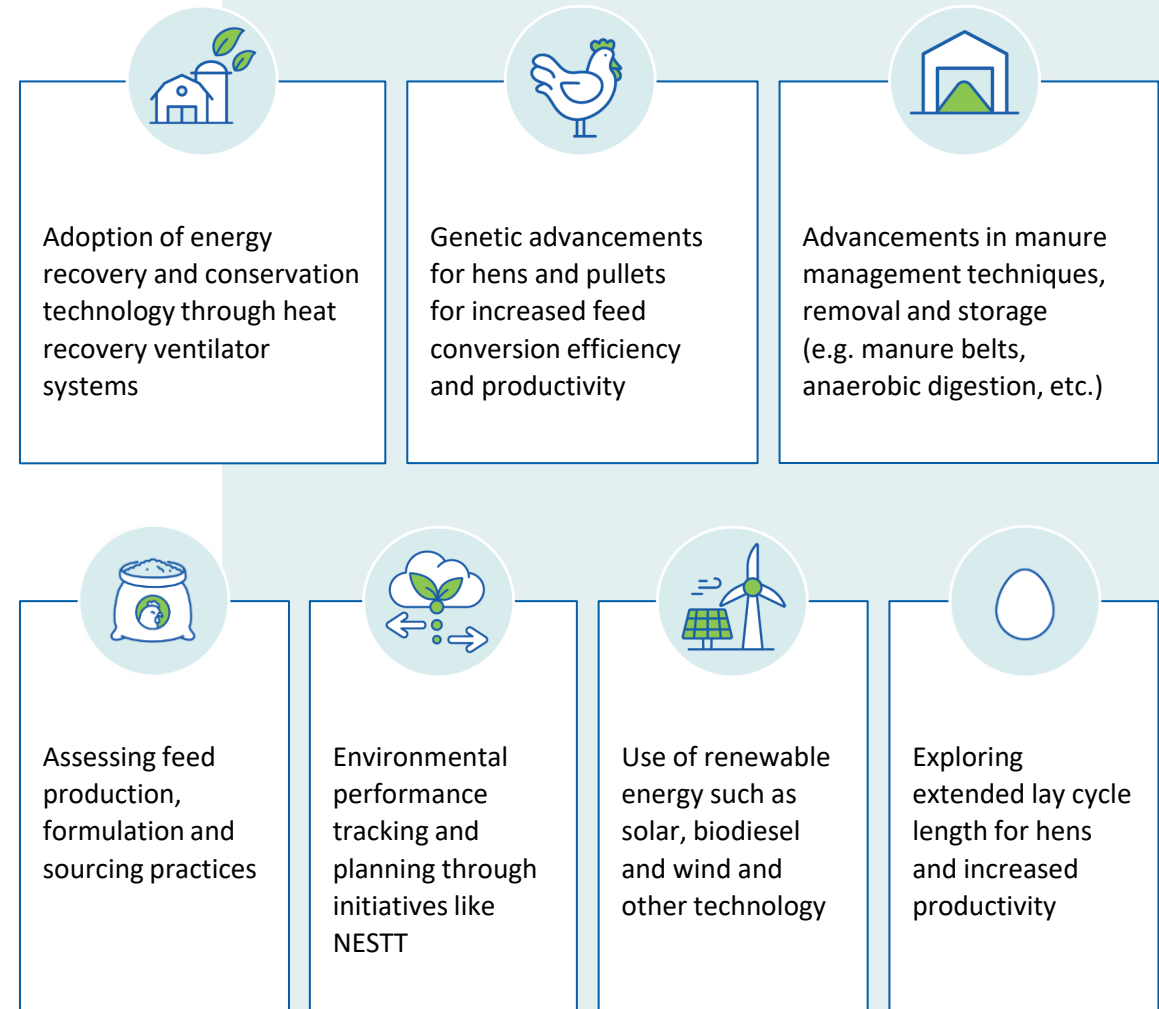
Our goal is to continue advancing a holistic sustainability approach highlighted in EFC's five pillars of sustainability that considers a broad range of factors and their many trade-offs, including hen health, well-being and food safety, economic considerations, affordability, worker health and safety, long-term viability and public values and attitudes.

EFC's five pillars of sustainability



How can we get there?

There are many examples of how Canadian egg farmers are actively reducing emissions through their practices, the adoption of technology and a forward-looking approach.²

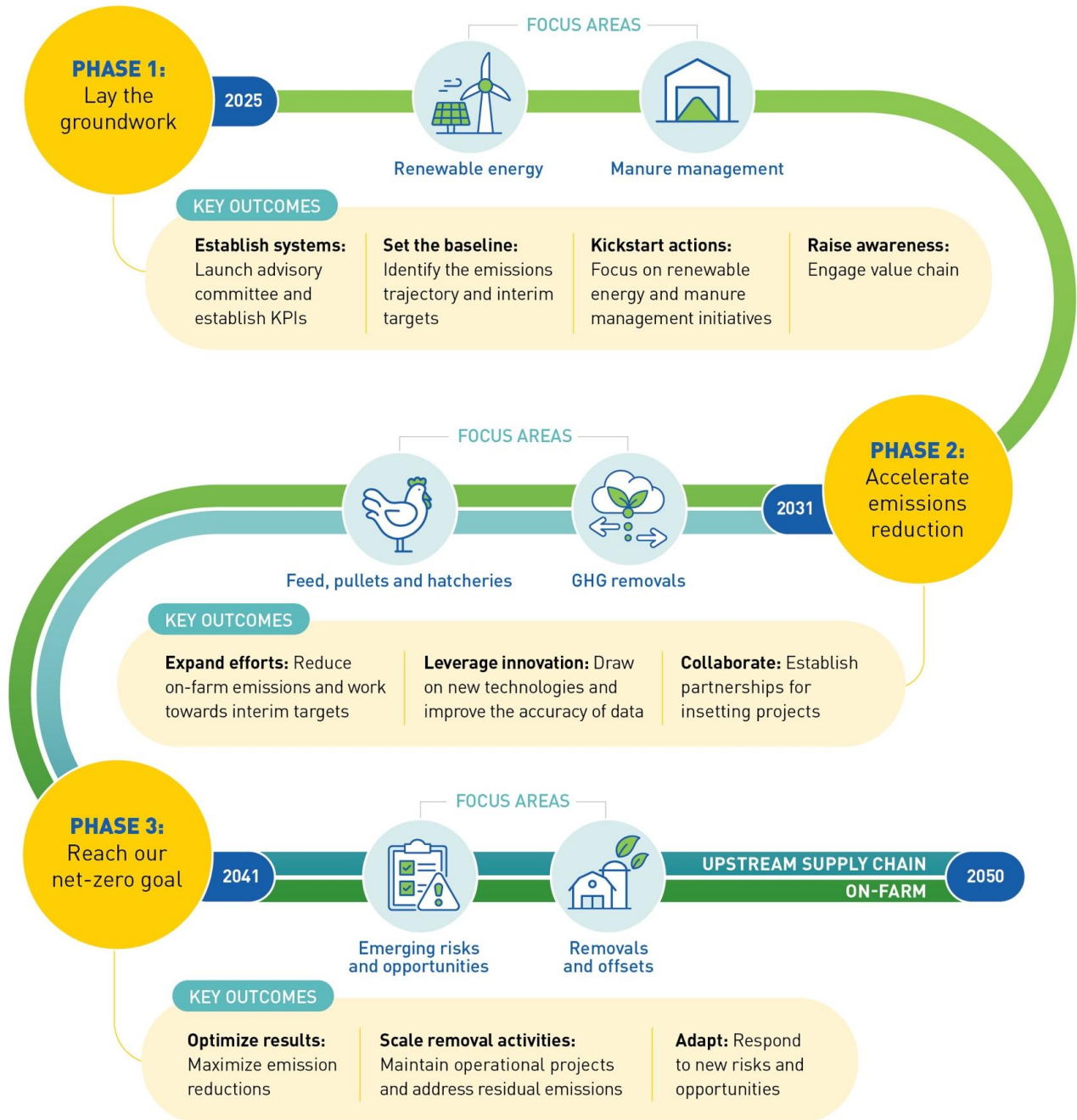


What's next?

- Launching the Net-Zero Advisory Committee to maintain regular engagement with stakeholders
- Establishing our emissions trajectory, KPIs and reporting framework
- Focus on peer-to-peer case studies of innovative farmers, BMPs and knowledge transfer
- Advocacy to support a positive regulatory environment and measures to incentivize the adoption of environmental practices
- Nurturing strategic partnerships and collaborations with farmers, egg boards, researchers, supply chain members and innovators to help accelerate effective solutions and scale up innovation
- Embracing an approach that is nimble and adaptive



ROADMAP TO NET-ZERO FOR THE CANADIAN EGG INDUSTRY



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