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# Canada's Climate Action Plan & Bioenterprise's Role



## **BIOENTERPRISE IS CANADA'S FOOD & AGRI-TECH ENGINE**

Canada's Food & Agri-Tech Engine is founded on advancing collaboration and cooperation across the agriculture industry in Canada. We've organized a team of industry experts and innovation advisors that bring extensive knowledge of agriculture from across the nation. By fostering that same collaboration in our own workplace, we're confident that we can offer solutions and strategies to help transform businesses and scale up across Canada and globally. We are committed to connecting entrepreneurs to a network of industry leaders, researchers, government stakeholders and critical service providers to help ensure their success.

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# Environmental Promise

## **The Paris Agreement:**

In December 2015, the fight against climate change was brought to a global scale, 194 countries and Canada signed the agreement. The Paris Agreement is a global effort to limit the average temperature rise below 2. C and pursue a limit of 1.5 C. This commits Canada to the 2030 greenhouse gas reduction goal.

## **Canada's Climate Plan:**

In December 2020 the federal government amended the 2016 climate action plan to ensure that Canada's commitment exceeds the 2030 emissions reduction goal. A new effort has begun, the goal is to have net-zero emissions by 2050. This ensures Canada is a global leader in the fight against climate change.


## Our Carbon Footprint

**Carbon footprint** is the total amount of greenhouse gas emissions that are produced through our actions. The average carbon footprint per person per year in Canada is 15.6 tons, ranking 10th in the world for most emissions per capita.

**Net-Zero by 2050:** a goal set out to strengthen Canada's role in climate change mitigation; innovating and building on existing measures to develop a prosperous 'green' economy. November 19, 2020, the federal government introduced the Canadian Net-Zero Emissions Accountability Act. The Act formalizes that Canada's 2050 greenhouse gas reduction target on 5-year interim milestones towards a net-zero goal.

**Canada's clean agriculture and food sector** has been making great strides in reducing carbon intensity of Canada's food production by improving practices, developing bio-based products, and increasing energy efficiency. In 2018 Canadian agriculture generated 50% fewer greenhouse gas emissions for every dollar of GDP generated compared to 1997. As agriculture and food are main drivers of the Canadian economy, climate change mitigation strategies are at the forefront and will continue to drive innovation in Canada.





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# Bioenterprise Canada's role in the National Climate Discussion:

Bioenterprise Canada incorporates Canada's sustainability and carbon goals into its national strategy for both program delivery and public discourse. Aside from sponsoring events such as the Food's Future Series and AIC's annual conference focused on net-zero and clean technologies, we also design and deliver programs based on increasing the use of sustainable, clean technologies in Canada's food processing and primary agriculture sectors. We take direct action to reduce Canada's overall carbon footprint and integrate new innovations focused on clean and sustainable operations.

Bioenterprise Canada does not believe a business has to focus solely on cleantech to contribute to sustainable practices. We support businesses that are producing end products from value added outputs, reducing and upcycling waste, and increasing efficiency through the use of analytical data. These companies are also greatly contributing to reducing the environmental impact of Canada's food and agriculture sectors.

As a national organization, and an international value chain member, it is imperative that Bioenterprise also recognizes and contributes to the global discussion surrounding climate action and where Canada may fit. In a recent national discussion on the topic of Food's Carbon Future, one of our Innovation Advisors, Denise Dewar, brought up an important perspective on food production: "Modelling studies have shown that climate change will have a negative impact on crop yields in most countries around the world, except Canada. Canada will experience a net increase in crop yields under climate change. This means Canada will need to carefully consider the impact of emission reductions on crop yields. As a global leader in peace keeping, Canada will need to balance a national emissions reduction strategy against our responsibility for contributing to global food security" This conversation highlights the importance of involving multiple voices at the table to share expertise and challenge conventional thinking to encourage innovation.

Bioenterprise will continue to share an important perspective in global and national events and advocate for Canada's clean agriculture and food sectors.

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# Resources

THIS SECTION INCLUDES THE RESOURCES AVAILABLE



## **The Paris Agreement**

<https://www.canada.ca/en/environment-climate-change/services/climate-change/paris-agreement.html>

## **Canada's Climate Plan**

<https://www.canada.ca/en/services/environment/weather/climatechange/climate-plan/climate-plan-overview.html>

## **Climate Smart Agriculture**

<https://www.canada.ca/en/services/environment/weather/climatechange/climate-plan/climate-plan-overview/healthy-environment-healthy-economy.html>

## **Canada Net-Zero**

<https://www.canada.ca/en/services/environment/weather/climatechange/climate-plan/net-zero-emissions-2050.html>

## **General, Canada Climate Action Plan**

<https://www.canada.ca/en/services/environment/weather/climatechange/climate-plan.html>

## **Carbon Footprint**

<https://www.canada.ca/en/environment-climate-change/services/environmental-indicators/global-greenhouse-gas-emissions.html>

**OUR MANDATE INCLUDES SUPPORT FOR CLEAN TECHNOLOGY AND REDUCING CARBON FOOTPRINT IN THE OPERATION OF AGRI-TECH AND FOOD TECH BUSINESSES WHILE DELIVERING HIGH VALUE INNOVATION TO THE AGRICULTURAL SECTOR.**