

# Sustainable Canadian Agricultural Partnership

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Beneficial Management Practices



## Program Description/ Objectives

Assist producers in taking concrete steps to improve the environmental performance of their operations including activities to conserve and enhance the natural resources utilized by the New Brunswick agriculture industry, minimize the environmental impact of agricultural activities, and mitigate and adapt to climate change.



## **Eligible Applicants:**

- All owners/operators of farms established in New Brunswick are eligible to apply under this program provided they meet the following conditions:
  1. Have an approved Environmental Farm Plan (EFP) Action Plan completed in the 4th edition (2004) of the EFP Workbook or the corresponding electronic version. The EFP Action Plan must have had a comprehensive update completed no more than 5 years prior to the date of receiving approval for a Beneficial Management Practice (BMP).
  2. To access funding under the On-Farm Energy Efficiency Upgrades BMP the applicant must have, or obtain, an on-farm energy audit, completed by an auditor registered with NB Power (in addition to an approved EFP).

## **Eligible Activities:**

Cropland Management	Environmental Benefits	Level of Assistance
Precision farming applications which result in reductions in synthetic fertilizer use or reductions in pest control products: GPS information collection, GPS guidance, manual controllers for variable rate fertilizer application, variable rate mapping, sectional controls on seeder, variable rate application, band spraying, spot spraying, cameras, and sensors, etc.	Climate Change Adaptation, Emissions Reduction, Soil Health, Water Quality	
Investment in purchase, modification, and improvement of irrigation equipment to increase energy efficiency	Emissions Reduction	40%
Controlled tile drainage systems and control components for quantity and quality control (holding back spring runoff, controlling nutrient loads)	Climate Change Adaptation, Water Quality, Water Quantity	
Surface and subsurface drainage to remove excess water from active cropland. Includes design, open ditches and land forming for surface drainage. Not intended for the drainage of wetlands or other environmentally sensitive areas.	Climate Change Adaptation, Emissions Reduction, Water Quantity, Water Quality	
Irrigation water and/or nutrient-use efficiency (Investment in purchase, modification and improvement of irrigation equipment to increase water, and/or nutrient use efficiency (e.g., variable rate irrigation systems, weather stations, soil moisture sensors))	Climate Change Adaptation, Water Quantity, Emissions Reduction	
Utilization of drainage water by recycling onto drained field to meet crop demand during dry periods: irrigation and sub-irrigation equipment; engineering designs and written plans for implemented practices.	Climate Change Adaptation, Water Quantity	35%
Frost protection measures (e.g., micro irrigation, wind machines where applicable)	Climate Change Adaptation	
Installation of Weather Stations (includes equipment and installation, including applicable sensors) for the purpose of irrigation, insects and disease monitoring, crop production timing.	Climate Change Adaptation	
Equipment modifications or adjustments to reduce soil compaction and improved chemical application (e.g., limit drift, sensors and equipment for precision application to reduce total used)	Soil Health, Water Quality, Water Quantity, Biodiversity	

<b>Grassland and Habitat Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Improved stream crossings (e.g. limited access with reinforced banks and stone crossing).	Climate Change Adaptation, Soil Health, Water Quality, Biodiversity	75%
<b>Manure and Confined Livestock Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Methane-reducing feed amendments (3-NOP, Asparagopsis)	Emissions Reduction	
Acidification of liquid dairy or liquid swine manure	Emissions Reduction	
Impermeable Negative Air Manure Storage Covers with methane or biogas capture	Emissions Reduction	
Straw liquid manure covers	Emissions Reduction	
Anaerobic digestion of liquid manure with off-farm organics, conversion of biogas into electricity, heat or renewable natural gas.	Emissions Reduction	40%
Installation of methane collectors, flaring equipment, catalytic oxidation and bio-filters, etc. to convert methane into CO <sub>2</sub>	Emissions Reduction	
Solid-liquid separation systems for manure or digestate with nutrient recovery and methane capture	Emissions Reduction	
Dewatering systems, recycling, nutrient recovery systems, solid/liquid separators without methane capture	Emissions Reduction, Soil Health, Water Quality	
Construction of impermeable base and roof for minimizing runoff from livestock pen areas and confinement areas	Water Quality	35%
Containment systems for solid and liquid manure (eligible expenses could include decommissioning of unsafe storages)	Water Quality, Soil Health	

<b>On-farm Energy Production and Energy Efficiency/Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Building envelope, lighting, and ventilation energy efficiency upgrades (includes heating, refrigeration, cooling, and water heating upgrades, Installing energy monitoring controls and equipment)	Emissions Reduction	
Farm machinery modifications to biodiesel use, or other renewable energy source (renewable natural gas, renewable electricity)	Emissions Reduction	40%
On-farm energy source switching and storage (wind generation, geothermal, solar)	Emissions Reduction	
<b>On-Farm Planning/Consultative Services (when not captured as an eligible BMP expense)</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Cropland Management BMPs	-	
Grassland and Habitat Management BMP's	-	
Manure and Confined Livestock Management BMPs	-	
Pest Management BMPs	-	
Product Storage and Waste Management BMPs	-	
On-farm Energy Production and Energy Efficiency/Management BMPs	-	
On-Farm Climate Change Adaptation BMPs;	-	
Water Supply Management BMPs	-	
<b>Pest Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Acquisition or modification of mechanical or physical weeding equipment (weeders, pyroweeders, weeding robots)	Water Quality, Biodiversity, Soil Health	
In crop non-chemical weeding and cultural control practises such as Eco-weeders, multi-row weeder	Water Quality, Soil Health, Biodiversity	35%
Water Mobile Tanks for spray applications	Water Quality	

<b>Product Storage and Waste Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Improve silage storage to reduce plastics use and handling of silage leachate	Water Quality	
Composting of agricultural waste and manure (e.g., fruit, vegetable, wood, straw residue, deadstock), including windrow turners, windrow covers and cover lifters	Emissions Reduction, Soil Health, Water Quality, Air Quality	
New or improved on-farm storage, handling, and disposal of agricultural waste (e.g., livestock mortalities, fruit and vegetable cull piles, wood waste, wastewater) excluding manure.	Water Quality, Soil Health, Air Quality	35%
New or improved on-farm storage and handling of agricultural products (e.g., fertilizer, petroleum products, and pesticides)	Soil Health, Water Quality, Air Quality	
<b>Water Supply and Management</b>	<b>Environmental Benefits</b>	<b>Level of Assistance</b>
Construction of new or expanded surface water or groundwater supply and water retention for agricultural use, including ponds, dugouts, wells, dams, spring developments, and reservoirs or tie-ins to a multi-user water supply pipeline as part of climate adaptation. Eligible costs could include water source protection measures such as installation of anti-backflow protection, grading and mounding to redirect surface flow, sanitary seal and annular seal.	Climate Change Adaptation, Water Quality, Water Quantity, Biodiversity	
Utilization of drainage water by recycling onto drained field to meet crop demand during dry periods: irrigation and sub-irrigation equipment; engineering designs and written plans for implemented practices.	Climate Change Adaptation, Water Quantity	
Construction, development and expansion of water supply infrastructure and conveyances on agricultural lands as part of climate adaptation.	Climate Change Adaptation, Water Quantity	35%
Equipment to prevent backflow of altered irrigation water into water sources	Climate Change Adaptation, Water Quality	
Mobile water systems: summer/winter water systems (solar, wind, pipeline, other)	Carbon Sequestration, Emissions Reduction, Water Quality	
Reservoir aeration systems for surface water supply	Water Quality	
Technologies that improve water quality (including UV light treatment, chlorination, reverse osmosis)	Water Quality	

Agri-Processors	Environmental Benefits	Level of Assistance
Anaerobic digestion of liquid manure with off-farm organics, conversion of biogas into electricity, heat, or renewable natural gas.	Emissions Reduction	
Energy efficiency improvements and modifications / implementation of renewable energy (improvements to the building envelope, lighting, water use and ventilation upgrades (includes heating, refrigeration, cooling and water heating upgrades))	Emissions Reduction, Air Quality	30% up to \$50,000 over life of the program
Planning and consultative services for improved environmental performance (e.g., Conducting energy, water, input and/or waste assessment, audits, or benchmarking)	Climate Change Adaptation	
Waste stream equipment or technology upgrades to reduce waste	Water Quality	



## Administrative Guidelines

All applicants must be familiar with the administrative guidelines prior to applying. The Administrative Guidelines can be found here: [SCAP Administrative Guidelines](#)



## Reporting

Applicants may be required to report on the impact of the funding received. Reporting requirements will be outlined in the letter of offer.



## Other Requirements

It is the applicant's responsibility to ensure that any necessary permits, environmental approvals, or certifications are obtained to complete their project.



## Regional Collaboration

Projects that are assessed to demonstrate benefits and impacts to more than one province may be eligible for funding on a regional basis.

## How to Apply

Applicants should discuss applications with appropriate Department of Agriculture, Aquaculture and Fisheries staff (Business Growth Officer, Development Officer or Specialist) before applying. A list of departmental contacts can be found at the following link:

[Crop Sector Development \(Branch\) \(gnb.ca\)](#)

[Livestock Sector Development \(Branch\) \(gnb.ca\)](#)

**Completed applications may be submitted by e-mail or mail.**

### E-mail Applications:

[Sustainable.CAP@gnb.ca](mailto:Sustainable.CAP@gnb.ca)

### Mail Applications:

Sustainable CAP Program Administrator  
Industry Financial Programs  
Department of Agriculture, Aquaculture and Fisheries  
PO Box 6000  
Fredericton, NB  
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