

# CCF Project Descriptions (Climate Change Fund)



**Table 1.** A list of projects that have been awarded funding by the Minister of Environment and Climate Change from the Climate Change Fund in fiscal year 2023-2024 as of May 2023.

Project Name	Project Lead	Project Description	Funding Amount
Resilient Agriculture Landscapes Program (RALP)	DAAF	This project is cost-shared in partnership with Agriculture and Agri-Food Canada. The main objective is to increase the environmental resiliency of agricultural landscapes by accelerating the adoption of on-farm land use and management practices that maximize the provision of multiple Environmental Goods & Services. For example, through maintaining and restoring grasslands and permanent pastures, wetlands, and enhancing riparian and on-farm wildlife areas and other regionally relevant land management practices. Adaptive measures will quantify area and land use change as per the federal, provincial, territorial program agreement. Greenhouse gas reductions will be reported back at the national level upon project completion.	\$370,000
Agricultural Adaptation Through Beneficial Management Practices	DAAF	This project will include financial incentives to assist producers in implementing Beneficial Management Practices by evaluating the environmental and climate change risks associated with their operations, acquiring knowledge and using tools to address these risks, and assisting in enhancing the agricultural land base. Eligible projects could include soil drainage, soil conservation, riparian protection, water supply and irrigation management. These projects allow farms to be better prepared in a changing climate to adapt to larger or more frequent storms as well as sustained periods of drought.	\$500,000

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Project Name	Project Lead	Project Description	Funding Amount
Development and Implementation of an Agriculture Climate Change Strategy/Action Plan	DAAF	This project supports Action 15 in the Climate Change Action Plan (CCAP), which is to develop and begin implementing an Agriculture Climate Change Strategy by 2025 that will support a low-carbon, climate-resilient, and economically sustainable agriculture sector in New Brunswick. Funds will be used to develop a draft Strategy for consultation with stakeholders. The Strategy is expected to identify opportunities to build climate adaptation and resilience, reduce greenhouse gas emissions (carbon dioxide, methane, nitrogen) and enhance carbon sinks, promote sustainable economic growth, and develop benchmarks to report progress.	\$50,000
Evaluation of Greenhouse Gas Emissions and Carbon Capture on New Brunswick Farms (Benchmarking)	DAAF	This project will work with CCNB-Innov to benchmark greenhouse gas emissions and carbon sequestration on New Brunswick farms using Holos software. A tool will be developed to better inform producers about greenhouse gas emissions and carbon capture on their farms. Data will also assist in measuring baseline information that can be used to evaluate the impacts resulting from greenhouse gas emissions reduction strategies.	\$80,000
Climate Change Mitigation On-Farm	DAAF	The project will include financial incentives (to be administered by DAAF) to assist producers to implement climate change mitigation measures and technologies. These measures include nutrient management planning, precision agriculture, energy audits, energy efficiency upgrades, renewable energy sources and improved uniformity in nutrient application.	\$300,000

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Project Name	Project Lead	Project Description	Funding Amount
Multi-Year Culvert Assessment Study - Year 3	DTI	This project is in its third year of working with consultants to perform a complete inspection of all of DTI's large culverts (approximately 2,200) over a three-year period and use the data to prioritize future large culvert replacements/rehabilitations. This will allow DTI to strategically increase the structural capacity of its culvert infrastructure to adapt to climatic events.	\$412,500
Sackville Aboiteaux	DTI	This project will replace the existing government-owned aboiteaux infrastructure with a new larger system to allow for the evacuation of inland flood waters captured behind the existing dykes that protect the town. During large rain events, water builds up behind the dykes, and when accompanied by a high tide event, these waters flood sections of the Town of Sackville. The town's main issue with inland flooding can be attributed to larger and more frequent storm events due to climate change.	\$2,400,000
Long-Term Flood Mitigation	DTI	This project supports Action 27 in the CCAP, which is to develop a long-term flood mitigation plan and increase the resiliency of the provincial transportation network. DTI will proactively develop 15 projects to 60% design stage to support project scope and increase project readiness. These projects will be in areas vulnerable to flooding (or will become vulnerable in the coming years).	\$150,000
DTI Greenhouse Gas Reduction Plan	DTI	Action 17 commits the provincial government to prepare an in-depth government Greenhouse Gas Reduction Plan by 2024 that details how the province will achieve emissions reductions in the range of 20-40 per cent in its buildings and fleet by	\$100,000

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		2030. The Plan will include an approach for ensuring sustained and strategic investments in measures such as high-performance building construction, energy efficiency, fuel switching, and cleaner vehicle acquisition, with details around setting baselines, emission reduction targets and accountability and reporting. Led by DTI, the Plan will provide a roadmap for how the provincial government will achieve a meaningful and sustainable reduction of greenhouse gas emissions and provide leadership toward net-zero emissions by 2050.	
GNB Energy Program	DTI	Funding will provide incremental opportunities within DTI's Energy Program and support the implementation of energy retrofit work to reduce overall energy consumption of government facilities and reduce greenhouse gas emissions.	\$2,000,000
Vehicle Management Agency Green Fleet Manager	DTI	Funding will support hiring new specialized staff to manage and continue the greening government fleet efforts. The Green Fleet Manager will help the department reduce greenhouse gas emissions by assisting with the transition to zero-emission vehicles.	\$115,000
Vehicle Management Agency Fleet Management System	DTI	Fleet management software will be procured to manage the reduction of greenhouse gas emissions from government fleet vehicles as the Vehicle Management Agency adapts to new technology and ways to have a greener fleet.	\$500,000
Educator Climate Change Education Capacity Building (Anglophone)	EECD	This project supports Action 1 in the CCAP and will empower anglophone K-12 educators to build their capacity to communicate climate change through self-directed professional learning opportunities. This project will develop an "Eco-Educator"	\$100,000

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		designation to provide educators with various growth opportunities to build capacity for teaching climate change and moving to a more action-oriented mindset. Educators will undergo personalized professional development that is aligned with government policy and is part of a comprehensive vision to address climate change.	
Climate Change Education Champion (Anglophone)	EECD	The Climate Change Education Champion is required to effectively coordinate Climate Change Action in the Anglophone Sector. The position's responsibilities include managing multiple climate change projects for K-12 educators, coordinating with internal and community partners, building educator capacity, supporting curriculum development, and training the Climate Action website. Funding this position in 2023-2024 will also support the development of a comprehensive climate change education capacity-building implementation strategy.	\$95,000
School Based Climate Action Projects (Anglophone)	EECD	This project supports Action 1 in the CCAP. These funds will be available for student-oriented action projects focused on reducing New Brunswicker's carbon footprint, increasing awareness, and meeting curricular outcomes through experiential learning. Student-led initiatives are encouraged but require an educator as the liaison and applicant. Community partnerships and investments are also encouraged. Successful climate change projects will empower learners to take action to address climate change.	\$100,000
NB Climate Action Symposium (Anglophone)	EECD	This project supports Action 1 in the CCAP. It is a close collaboration between the Anglophone and Francophone sectors to contribute to provincial	\$50,000

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		climate change action. The public symposium will provide an opportunity to learn about climate action and education from New Brunswick educators, community leaders and environmental non-profits. The funds requested would support approximately 100 Anglophone educators to attend the event.	
Carbon Footprint Through School Operations (Anglophone)	EECD	This project supports Action 1 in the CCAP. This project will continue the phased deployment of Energy Star Portfolio Manager in anglophone schools with the onboarding of eight additional schools proposed for 2023-2024. Professional Learning Communities will engage in Climate Action projects, and external partners will provide support and mentoring throughout the school year. By embedding Energy Star Portfolio into school operations, students can learn about climate actions to reduce their school's carbon footprint.	\$150,000
Training and Professional Development for Teachers and School Staff (Francophone)	EECD	This project supports Action 1 in the CCAP. Enable all teachers and staff from francophone schools to attend workshops, training, conferences, or any other professional development opportunities related to climate change and how to integrate it into their classroom pedagogy. Develop knowledge of climate change mitigation and adaptation so that teachers and staff can integrate topics such as greenhouse gas reduction, climate change preparedness, and how to set an example to influence society and its citizens into teaching practices.	\$64,000
Provincial Climate Change Education	EECD	The Climate Change Education Officer is required to provide ongoing support and guidance on	\$95,000

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Officer (Francophone)		climate change action to all schools in the Francophone sector. The position's responsibilities include responding to the high demand for educational resources, fostering partnerships between environmental organizations and schools, equitably distributing available funds and supporting the implementation of school climate projects to maximize efforts, and increasing visibility to ensure the implementation of projects aimed at climate change action in New Brunswick.	
Climate EducAction Projects (Francophone)	EECD	This project supports Action 1 in the CCAP. Funding will be distributed across all francophone schools and their communities to develop climate action projects. The main criteria for projects to receive funding are student involvement, community participation, and visibility and long-term sustainability of the project. Examples of project categories include energy management, active transportation, solid waste management, food self-sufficiency, biodiversity, over-consumption, and carbon footprint. Successful climate change projects will help reduce greenhouse gas emissions, prepare our communities for climate change, and will also influence the community by example.	\$100,000
NB Climate Action Symposium (Francophone)	EECD	This project supports Action 1 in the CCAP. It is a close collaboration between the anglophone and francophone sectors to contribute to provincial climate change action. The public symposium will provide an opportunity to learn about climate action and education from New Brunswick educators, community leaders and environmental non-profits. The funds requested would support	\$30,000

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Project Name	Project Lead	Project Description	Funding Amount
		approximately 100 francophone educators to attend the event.	
Low Carbon Schools (Francophone)	EECD	This project supports Action 1 in the CCAP. This project will deploy Energy Star Portfolio Manager in francophone schools allowing greenhouse gas emissions reduction targets to be set and the outcome of climate action projects to be tracked. By embedding Energy Star Portfolio into school operations, it can be used in classrooms to engage students in energy management.	\$180,000
School Facilities Mitigation (Anglophone and Francophone)	EECD	In conjunction with facilities at EECD and all seven school districts, educators and learners will apply for grants to make smaller-scale climate change mitigation improvements. These improvements will be determined at a school level and implemented with district and EECD support. Using Energy Star Portfolio Manager, schools will track energy consumption and work with SNB to reduce energy consumption. Throughout this project, the carbon footprint of aging school infrastructure is expected to be reduced. This project addresses climate change mitigation and reducing the carbon footprint of educational facilities.	\$450,000
Provincial Climate Change Risk Assessment	ELG	New Brunswick is already experiencing the impacts of climate change, and these impacts are predicted to worsen. Understanding and managing climate-related risks is necessary to help prepare for the changes ahead and minimize impacts on key areas such as infrastructure, public safety, natural ecosystems, heritage and culture, marine and terrestrial environments, and economic sectors. Action 23 in the CCAP commits government to develop a provincial Climate Change Risk	\$200,000

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Project Name	Project Lead	Project Description	Funding Amount
		Assessment that will allow decision-makers to consistently identify and prioritize New Brunswick's climate-related risks and develop appropriate measures to respond to those risks.	
Drought Monitoring and Education	ELG	In support of Action 22, this project will study the hydrological drought index related to groundwater levels. This is the first step to establishing a drought index and public advisory reporting system by 2026 to inform the public and local governments when water conservation strategies should be implemented. The study will detail recommendations on groundwater monitoring network requirements adequate to support drought monitoring and reporting in New Brunswick.	\$30,500
Surveillance of Vector Mosquitoes - Year 2	ELG	Climate change has impacted vectors and their associated pathogens, causing vector-borne diseases in New Brunswick. Climate change may also impact mosquitoes, the vectors for West Nile virus (WNV) infection. In eastern Canada, Culex mosquito species are the drivers of WNV amplification and spillover. Climate change may have increased in their abundance and/or geographic ranges, increasing the risk to the public of the diseases they transmit. A 2003 Survey of the Mosquitoes of New Brunswick demonstrated low levels of Culex pipiens/restuans populations and identified thirteen species not previously reported in New Brunswick. This second year of a two-year mosquito survey will demonstrate if there are changes to endemic mosquito populations, particularly Culex species, because of climate change. This survey will provide up-to-date	\$88,000

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Project Name	Project Lead	Project Description	Funding Amount
		information on mosquito species and vectors for climate-driven mosquito-borne diseases in New Brunswick, including distribution and seasonal abundance.	
Nature Based Solutions Training and Development - Coastal and Freshwater Environments	ELG	Nature-based solutions protect, restore, and manage land by re-establishing the natural processes of the area. Implementing nature-based solutions, like living shorelines and wetlands, can increase carbon storage, biodiversity, and human well-being. With this funding, ELG will plan and support two seminars to begin work towards better education/awareness and specific training on the need for and how-tos of nature-based solutions. Furthermore, ELG will hire a consultant to prepare an external guideline document on nature-based solutions.	\$65,500
Phase 2 of Anaerobic Digester Project	ELG	This project will involve the early stages of strategy implementation and execution in support of Action 14 in the CCAP. This is the second phase of a project to develop a Strategic Plan for Anaerobic Digester Development in New Brunswick. The project will evaluate province-wide organic waste streams, identify potential options, evaluate the economics, and identify barriers to developing and implementing anaerobic digestors and/or bioreactors in New Brunswick.	\$200,000
Net Zero Blueprint	ELG	Action 3 in the CCAP commits New Brunswick to reach net-zero greenhouse gas emissions by 2050 and develop, in consultation with a newly established Expert Advisory Body, a Net-Zero Blueprint by 2025. To achieve this action in the expected timeframe, the Net-Zero Expert Advisory Body will need to be established, and work will	\$200,000

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Project Name	Project Lead	Project Description	Funding Amount
		commence on the initial development of the Net-Zero Blueprint in the 2023-2024 fiscal year. This funding will secure a consultant with expert advice and experience to develop a Net-Zero Blueprint Proposition Document, providing the foundation and expert guidance for government to use in finalizing and refining the Net-Zero Blueprint.	
Net-Zero Expert Advisory Body	ELG	Action 3 in the CCAP commits New Brunswick to reach net-zero greenhouse gas emissions by 2050 and develop, in consultation with a newly established Expert Advisory Body, a Net-Zero Blueprint by 2025. To achieve this action in the expected timeframe, the Net-Zero Expert Advisory Body will need to be established in the 2023-2024 fiscal year. Gathering expert advice is a key component in designing plans that will enable the transformational change across sectors needed to achieve net-zero targets. This funding will provide facilitation and supporting services to government's expert advisory body consultation process by hiring a professional external consultant that will be crucial to achieving the deliverables needed to keep New Brunswick on track to meeting the 2025 Net-Zero Blueprint commitment.	\$100,000
Natural Climate Solutions for New Brunswick Workshop	ELG	Natural climate solutions are actions that avoid or sequester greenhouse emissions related to protection, improved management, and restoration of forests, grasslands, wetlands and agricultural lands. Natural climate solutions will be key in reaching ambitious greenhouse gas reduction targets, especially becoming net-zero by 2050 and remaining net-zero in perpetuity. Natural	\$100,000

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Project Name	Project Lead	Project Description	Funding Amount
		<p>climate solutions research has progressed in recent years. However, there are still significant gaps that need to be addressed. Identifying key opportunities for New Brunswick via natural climate solutions is paramount for determining the path to net zero and the development of the Net-Zero Blueprint, as well as our greenhouse gas modelling scenarios which cannot access more robust research or information on this subject. This project will solely focus on organizing and delivering a workshop consisting of expert speakers and breakout sessions where attendees will discuss key questions. A consultant will facilitate the session and compile key themes, discussions, and summarize recommended next steps that result from the workshop.</p>	
<p>Understanding Our Natural Carbon Sinks - Wetlands</p>	<p>ELG</p>	<p>This project supports the completion of Action 16, with the overall goal of improving the understanding of and increasing the carbon stocks of New Brunswick's wetlands. New Brunswick's wetlands can potentially contribute to provincial greenhouse gas reductions through carbon storage. There is a need to improve understanding of how New Brunswick's wetlands are functioning as carbon sinks and strengthen management practices/policy tools for these areas. This multi-phased project will result in the development and beginning of the implementation of an assessment tool to quantify the carbon stock of New Brunswick's wetlands and prioritize high-functioning wetlands by 2026. Funds will go towards hiring a small team to complete the first year of data collection and analysis.</p>	<p>\$240,000</p>

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Project Name	Project Lead	Project Description	Funding Amount
EV Charging Stations Implementation Planning and Installations	Horizon	This is the second year of Horizon Health Networks' efforts to design and install electric vehicle chargers throughout its facilities. In 2022-2023, a contractor began work to complete the design specifications and tender packages at the four regional hospitals (Saint John Regional, The Moncton Hospital, Miramichi Regional Hospital and Dr. Everett Chalmers Regional Hospital), and chargers were pre-ordered. This project will support the installation of the chargers.	\$424,932
Fuel Saving Measures for Trucking	NB Power	Action 5 in the CCAP commits to implementing an incentive program for fuel-saving measures in freight transportation. There are many trucking companies in New Brunswick with fleets of various-sized trucks and trailers. As these fleet operators consider the transition to alternative fuels, there is an immediate opportunity to ensure they take advantage of fuel-saving technologies on their existing fleets. This project will conduct a needs assessment and add fuel savings measures like skirts, low resistance tires, battery-powered HVAC and idling measures to NB Power's existing Business Rebate Program.	\$1,200,000
Freight Transportation Study	NB Power	Complete a Zero-emission Freight Strategy by 2024 to support Action 5 in the CCAP. The Strategy will include market research, fleet assessments, targets, and piloting clean fuel and charging infrastructure. Transitioning freight transportation to zero-emissions will be key in helping to meet New Brunswick's 2030 and 2050 greenhouse gas reduction targets.	\$200,000
Expand E-Charge Network	NB Power	Funding will support the expansion of the existing E-Charge network. As the number of electric	\$4,000,000

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		vehicles increases, the charging infrastructure must also grow to meet the demands of the growing customer base. Network users are waiting in line to charge at peak times, predominately during July, August and September. This project includes two areas to reduce wait times and expand the network: 1. Install fast charging infrastructure in key areas where access bottlenecks exist (to be validated using further analytics), and 2: Install a mix of level 2 and level 3 charging in municipal areas and within the hospitality industry.	
Energy Efficiency Financing	NB Power	As an interim step in advance of the Clean Electricity Strategy, Action 8 in the CCAP aims to ensure New Brunswickers have equitable access to energy and efficiency programs through long-term financing and/or payment mechanisms. This is also a recommendation of the Auditor General of New Brunswick. This funding involves reviewing loan and payment mechanisms and selecting the best approach for New Brunswickers, followed by a program launch. It may include no or low-interest loans or on-bill financing mechanisms that will allow moderate-income families access to funding to complete efficiency upgrades without having to save or borrow the up-front capital to invest.	\$2,000,000
Enhanced Energy Savings Program	NB Power	In 2022 the Low-Income Energy Savings Program (LIESP) was relaunched as the Enhanced Energy Savings Program (EESP). Updates to the program include adjustments to the eligibility criteria to an income-qualified threshold and adjustments to the criteria to include mini-split heat pumps. The targeted energy efficiency retrofits offered through the EESP assist homeowners in New Brunswick in	\$10,000,000

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		reducing their greenhouse gas emissions and energy costs, with the ultimate goal being that as many income-qualified homeowners participate in EESP as possible.	
Low Carbon Economy and Greener Homes Funding Gap	NB Power	This funding allows NB Power to leverage Low Carbon Economy Funding (LCEF) funding for non-electric energy efficiency programming and other ineligible LCEF expenditures. It allows NB Power to provide incentives to non-electric customers and Greener Homes customers at the same level of incentives as electric customers and covers the increasing costs of energy audits in residential and business programs.	\$1,100,000
First Nations Energy Efficiency	NB Power	NB Power's current suite of energy efficiency programs is not tailored to best reach and engage with First Nations communities in New Brunswick. Preliminary work is being done with Indigenous efficiency leaders in the province to help define the barriers and needs around energy efficiency and conservation within the First Nations Community. From this, an engagement, education and incentive approach will be developed and ideally co-delivered with Indigenous resources, building capacity and employment in the communities. The program will cover residential and business opportunities, help make homes and businesses more comfortable, and lessen greenhouse gas emissions in the communities.	\$1,500,000
Energy Performance Labeling and Disclosure Pilot	NB Power	In support of Action 12 in the CCAP, the goal of the pilot is to test and develop tactics that: 1. Improve awareness and availability of home and building energy information for customers and stakeholders; 2. Facilitate access to a platform that	\$500,000

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Project Name	Project Lead	Project Description	Funding Amount
		applies information, data, and analytics to provide actionable information to customers; 3. Overcome fragmented data systems to wholistically “view” the energy assets and performance of a home or building; and 4. Increase energy literacy in New Brunswick	
Affordable Housing Energy Efficiency Program (Non-profit Housing)	NB Power	Over 175 organizations in New Brunswick oversee the operations of non-profit and co-op housing units in New Brunswick. Many of these organizations are limited in their ability to perform energy efficiency upgrades in their facilities. There is a significant interest in retrofitting the buildings to reduce the energy cost burden for tenants and simultaneously reduce greenhouse gas emissions. Funding will develop a program and incentive structure aimed at increasing energy efficiency measures in the non-profit housing sector.	\$1,500,000
Social Development Housing Pilot	NB Power	This project will reduce the energy consumption in housing units owned by the Department of Social Development through the implementation of energy efficiency upgrades. The reduction in energy use due to these upgrades will reduce greenhouse gas emissions and energy costs paid by renters and/or Social Development. This project will allow Social Development to optimize tenders for work on their housing units to include energy efficiency measures in the same work requests. This will provide economies of scale and work efficiencies, allowing residential units to be upgraded and become more energy efficient. This program was piloted in 2021-2022 and continued successfully in 2022-2023. Funding for this third year will confirm the benefits and cost-	\$1,500,000

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		effectiveness of this program design, with the intention to turn this into a long-term program.	
New Brunswick Biodiversity Strategy	NRED	This project will build on the 2009 New Brunswick Biodiversity Strategy and support the development and implementation of a renewed Biodiversity Strategy as committed to in Action 29 of the CCAP. Many changes have occurred since New Brunswick's first Biodiversity Strategy was released in 2009. Specifically, the amount and detail of climate change-related information and expected impacts have increased significantly. The initial strategy established goals to conserve the genetic, species, and ecosystem diversity of New Brunswick and to ensure the sustainable use and development of biological resources. The renewed strategy will further advance the initial goals established and incorporate information related to climate change.	\$165,000
Fire Smart New Brunswick	NRED	Wildfire research using future climate modelling shows that New Brunswick has an increased potential for wildfires. Action 22 commits to establishing a Fire Smart program by 2025 for communities deemed at risk of wildfires to support improvements in emergency planning, preparation and response while increasing overall resilience to the impacts of wildfire. Wildfire risks can be reduced by focusing on adaptation efforts that limit exposure and promote planning using the Seven Fire Smart disciplines and the advanced home assessment plan. The program will be implemented in phases. This first year of the project will focus on completing a communities at	\$210,000

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		risk ranking, developing a roll-out plan, and beginning implementation.	
Studying Coastal Flood and Erosion Risks in New Brunswick	NRED	Studying the impact of sea-level rise and increased storminess is essential to developing resilience in coastal communities. To project the future location of our coastlines and establish adequate building setbacks, it is important to look at the history of coastal storms and erosion events and their impact on these communities. Each year the Geological Surveys Branch (GSB) is involved in several mapping projects that aim to measure historic coastline or shoreline recession rates to help the government and private sector deal with flooding and erosion issues. GSB will continue expanding its databases and collect the information needed by local government entities of southeast New Brunswick to complete or improve climate change adaptation plans concerning coastal flooding and erosion risks. Two recent coastal storms, Dorian and Fiona, showed the importance of having access to accurate and reliable monitoring tools for documenting the impact of extreme weather events.	\$370,000
Conserving Biodiversity and Climate Change Vulnerable Land in New Brunswick	NRED	Recent protected area increases in New Brunswick have focused on Crown lands. Recognizing that private lands will play a larger role in meeting future provincial protected area targets securing conservation and climate change-sensitive private lands is a priority. New Brunswick has several habitats and ecosystems that will be vulnerable to degradation and loss in the coming decades, such as high carbon-sequestration capacity forests, coastal marshes and bogs, dunes, floodplains and	\$1,500,000

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		<p>ecosystems supporting boreal-affinity species. These areas on privately-owned land face additional threats, like resource extraction, changing land uses and residential development, which escalates the loss of ecosystem value and increases the risk to developments and infrastructure. NRED will purchase private land containing these vulnerable habitats and ecosystems for conservation. Considerations for priority lands will be based on focal areas and key benefits (habitat protection, natural climate solution infrastructure or carbon sequestration).</p>	
<p>Landscape Hydrology: From Processes to Meaningful Management</p>	<p>NRED</p>	<p>This multiyear project builds on research to understand the geophysical and climate variables influencing water flow dynamics, quality attributes, and forest resilience to climate impacts across New Brunswick. This will support strategic and sustainable forest management and land use planning in the face of a changing climate based on hydrological regimes which differ across landscapes because of climate, physiography, geology, soils, regolith, forest cover, anthropogenic structures and activities, and geomorphologic features such as wetlands. In this fourth year, the continuing focus will be on developing an understanding of the mechanisms and impacts of hydrological settings (or waterscapes) on 1: Linking hydrogeologic settings to tree growth rates and water-induced stress in trees (drought), and 2: Examining the effects of forest harvest on stream thermal and flow regimes in differing hydrogeological settings.</p>	<p>\$150,000</p>

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Freshwater Aquatic Connectivity Assessment Part 3 - Fully Web-Based Connectivity Assessment Tool	NRED	Freshwater ecosystems provide habitat to many species, including plants, fishes, amphibians, birds, mammals, and invertebrates. Climate is an extremely important driver of freshwater ecosystems, as thermal and hydrological processes are strongly linked to climate. However, these climate parameters that shape freshwater systems also cause the systems to be particularly vulnerable to climate change. Climate change will result in increased water temperatures, changes in the amount and timing of water flow, more severe flooding, and more frequent severe storms. The effects of these processes on biodiversity will only be magnified in fragmented ecosystems where thermal refugia and migration pathways are no longer accessible. Consequently, aquatic connectivity is fundamental to ensuring species persistence and ecosystem integrity in the face of climate change. This project will aid in climate change adaptation by making an accessible online tool for provincial, federal, and local governments, landowners, land managers, and conservation organizations to prioritize road-based aquatic barriers for remediation in New Brunswick.	\$150,000
Formation of Energy Cluster	NRED	The Energy Secretariat will build and grow an interconnected Energy Cluster within New Brunswick made up of operators, manufacturers, suppliers, research and development, small and medium-sized enterprises, investors, and innovators to enhance New Brunswick's Energy profile, broaden knowledge and capability, advance business collaboration, drive engagement, attract	\$200,000

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		investment, and encourage start-ups within the province.	
Electric Vehicle Targets and Public Charging Infrastructure	NRED	Action 4 in the CCAP commits the provincial government to work to have six per cent of light-duty vehicles (e.g., passenger cars, sport utility vehicles, pickup trucks) sales be electric by 2025 and 50 per cent by 2030, using incentives and programs to promote electric vehicles (EVs) and support charging infrastructure in New Brunswick. Funding will support three components of New Brunswick's EV incentive program: 1. EV purchase incentive program, which provides incentives for new and used battery electric and plug-in hybrid vehicles; 2. EV home charger programs; 3. Administration and delivery by NB Power of EV incentives, marketing, outreach, and education.	\$4,000,000
Kingsclear Provincial Tree Nursery Expansion and Modernization	NRED	This project includes the implementation of an Energy Efficiency Audit that was conducted in 2022-2023. The Kingsclear Tree Nursery's equipment and infrastructure will be expanded and modernized to increase production capacity by 30 per cent to produce an additional 4.3 million seedlings annually in support of the federal Two Billion Trees program aimed at increasing forest carbon sequestration. This project will also include the phase-out of heating oil in operations by replacing oil-fired fuel boilers with low-carbon fuels such as wood pellets and biomass.	\$1,725,000
Hydrogen Roadmap and Implementation Plan	NRED	Following on the work led by ONB with support from ELG and NRED, the Energy Secretariat will design and develop a complete Hydrogen Roadmap for New Brunswick. This will include the design and delivery of the Roadmap along with	\$100,000

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Project Name	Project Lead	Project Description	Funding Amount
		marketing and awareness. Funding will also support the development of an implementation plan, a policy review to ensure regulations and legislation support the Roadmap, and supply chain event(s) to ensure support for the emerging industry.	
Investigate Requiring Proportions of Renewable Natural Gas or Hydrogen in the Distributed Network	NRED	Action 9 commits the provincial government to investigate and, if appropriate, set a minimum proportion of renewable natural gas (RNG) and/or clean hydrogen in the provincial natural gas supply for gaseous fuel distributors. Currently, 11 per cent of all energy consumed in New Brunswick comes from natural gas. Using RNG or clean hydrogen could help achieve New Brunswick's 2030 greenhouse gas reduction targets. A report detailing the economic feasibility of blending RNG or clean hydrogen into New Brunswick's distribution network will be needed before any decisions regarding its feasibility or regulating content.	\$50,000
Clean Electricity Strategy	NRED	Action 7 commits the provincial government to develop a Clean Electricity Strategy by 2025 for achieving net-zero electricity emissions by 2035, based on guiding principles that support clean, reliable, efficient, and affordable electricity. This funding will support engagement activities for the development of the Strategy. It will result in a final "What Was Heard Report" that will inform the final Strategy.	\$450,000
Study to Support the Potential Phase-Out of Heating Oil	NRED	New Brunswick will work with the Federal Government to determine the most appropriate plan to transition New Brunswick homes, businesses and institutions away from heating oil.	\$50,000

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		This plan will consider the impact on heating oil businesses. The first step for this project is to commission a study to determine how many New Brunswick homes, businesses, institutions, and industries are using heating oil and are near natural gas for an easier transition off of heating oil, as well as how many companies are delivering heating oil.	
Forest Carbon Reporting	NRED	Action 16 is focused on improving the understanding and increasing the carbon (C) stocks of New Brunswick's forests by publishing an assessment of the C stock of New Brunswick's forests by 2025 and beginning regularly tracking and reporting on the forest's carbon inventory. This project will provide the necessary resources to develop a series of technical reports of past, present, and forecasted future forest C balances with alternative future forest management. This will provide useful information for federal, provincial, and other organizations to track forest carbon emissions and sequestration rates over time, as well as gauge the benefits of alternative forest management on net greenhouse gas emissions. Activities during this first year of the project include calculating statistically robust annual forest C estimates for Crown and Private lands for live above and below-ground tree biomass (foliage to roots) using the continuous land inventory survey data.	\$90,000
Sustainable Economic Development	ONB	Action 20 in the CCAP commits the provincial government to develop a whole-of-government Sustainable Economic Development Plan for New Brunswick focused on decarbonization	\$250,000

# CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Action Plan Development		opportunities and barriers, specifically geared toward creating the economic growth conditions that will enable business and industry transition and growth. This project will hire a consultant to develop the Plan and implementation plan that will ultimately help grow economic opportunities for New Brunswick in the low-carbon economy.	
Climate Impact Fund with the New Brunswick Innovation Foundation	ONB	The Climate Impact Fund is a broad initiative that supports innovative projects in both climate change adaptation and mitigation across New Brunswick's research, start-up, and business communities. The funding supports early research and development into adaptation and mitigation, investment in cleantech start-ups, and support for established companies to incorporate innovative technologies in their businesses. The renewed funding also emphasizes the commercial implementation of cleantech innovations and helping established businesses lower their emissions to better compete in an environment of escalating carbon prices. This suite of programs will support New Brunswick's innovation pipeline needed to reach net-zero and position the province as a leader in Atlantic Canada.	\$2,000,000
City of Fredericton Northside Flood Resiliency Project	RDC	This project will reduce the risk of fluvial and pluvial flooding on Fredericton's northside and increase community resilience through a combination of infrastructure upgrades across three sub-projects: the Saint Mary's Street project, the Crocket Street project and the Nashwaaksis Outfall/Hillcourt project. Overall, these sub-projects will improve multiple City-owned assets to create safe flow routes for water during heavy rainfall and flooding	\$950,000

# CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		events. In addition, upgrades to streets and sidewalks will support urban living and active transportation.	
City of Fredericton South Core Flood Resiliency Project	RDC	This project will reduce the risk of fluvial and pluvial flooding and increase community resilience in a vulnerable area of the south core of Fredericton, which has been identified as a pinch point in the current storm sewer system. The project includes four sub-projects: the Regent Street project, the Northumberland Street project, the Westmoreland Street project and the South Hill Trunk Storm Sewer project. Overall, infrastructure improvements across these sub-projects will improve multiple City-owned assets to create safe flow routes for water during heavy rainfall and flooding events. In addition, upgrades to streets and sidewalks will support urban living and active transportation.	\$1,212,500
Moncton Blue-Green Algae Water Project	RDC	Algae blooms can release toxins that are harmful to human consumption. As a result, the community could face “do not consume” or “do not use” orders depending on how the algae bloom manifests in the water system. Climate change has been suspected to be one of the main causes of blue-green algae in the City of Moncton’s watershed due to higher water temperatures and drought conditions within the watershed. This funding will support a blue-green algae abatement in the Moncton potable water system resulting in the removal of toxins that blue-green algae can produce.	\$1,333,200
Rothesay Water Treatment Plant	RDC	Record flood levels impacted the Rothesay wastewater treatment facility during the 2018 and	\$900,000

# CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		2019 St. John River flood events. This project is to construct a new mechanical wastewater treatment facility with the capacity for existing, and future municipal wastewater flows to 2050, which will be located above projected flood elevations in the year 2100.	
Saint John Sanitary Sewer	RDC	The project focuses primarily on the removal of sewerage water from combined stormwater and sewer water systems in the Uptown/Central Peninsula, as there is a high risk of failure of the aged water infrastructure (often greater than 100 years old). The focus on storm sewer separation will allow for increased capacity in water piping to accommodate the significant increases in water volumes expected with climate change events and extreme precipitation events that are expected for Saint John	\$4,721,160
Saint Andrews Wharf Rehabilitation	RDC	The original wharf was built below the high-water mark and supported through a series of wooden cribs with gravel fill and a wooden retaining wall. Over a few decades, the continuous wave action has eroded much of the supports, and part of the adjoining Market Square has weight restrictions on it. This project proposes to create an armour stone and crushed rock seawall to re-enforce Market Square and halt further erosion.	\$1,003,706
Energy Management Training and Awareness	SNB	Continue to engage Government of New Brunswick resources with awareness and training, including building management operator training and awareness and Portfolio Manager training. This should be an annual strategy to sustain energy management successes and increase opportunities to reduce more energy.	\$15,000

# CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Power BI Energy Dashboard	SNB	Update dashboarding metrics as requested by clients and pay annual Power BI license fees.	\$10,000
Upgrade Metering in Schools, Hospitals and Other GNB/SNB Owned Facilities	SNB	Upgrade metering in schools, hospitals and other government-owned buildings to continue to connect utility meters to existing Building Management Systems. This funding targets buildings that are not undergoing control upgrades but have no access to energy metering. Making energy visible can reduce energy consumption and thereby reduce greenhouse gas emissions from New Brunswick buildings.	\$50,000
Upgrade Fleet to Electric Vehicles and Install Associated Chargers	SNB	Following the completion of an electric vehicle feasibility study in 2021-2022, this project will replace vehicles where the study indicates with electric vehicles and install required charging stations at overnight locations. This would be a cost share (differential between regular replacement budget and incremental costs) for end-of-useful life vehicles.	\$250,000
Energy Management Operational Costs	SNB	Implement energy efficiency measures in schools and health networks outside of DTI's Energy Program, such as optimization, programming, scheduling, and equipment. Operational funding will always be required to support low-cost measures to sustain and increase energy conservation and efficiency.	\$100,000
Murray Beach Provincial Park - Dune Restoration	THC	This initiative will restore a section of the dunes at Murray Beach Provincial Park. This area was impacted by hurricane Fiona, which resulted in the loss of protective dunes and habitat. This project aims to work with the natural environment to strengthen the shoreline against extreme weather events. The use of sand, fencing and native dune	\$150,000

# CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		vegetation are nature-based solutions that help manage the impact of climate change while maintaining the natural diversity and functions of the dunes. The dunes also offer protection to the wastewater lagoon for the Park and a provincially significant wetland. New beach access will also be constructed over the dunes to prevent the public from walking across them.	
Parlee Beach Tidal Creek Lagoon Surface Water Collection (Phase 2)	THC	This project is part of an ongoing project to address issues regarding extreme weather events and storm and tidal water retention in the tidal creek and lagoon at Parlee Beach. This funding will help address the increased surface drainage that flows into the lagoon from Parlee Beach Park and the neighbouring communities. A water collection and UV purification system will be installed to collect all surface water flowing into the lagoon. Due to the increased frequency of extreme storms in recent years, the volume of water coming into the lagoon through the surface drainage systems has increased dramatically, and because of the infill of the tidal creek, it sits and becomes stagnant within the lagoon.	\$1,400,000
Provincial Park Climate Change Education - Year 2	THC	In 2022, THC developed a climate change interpretative program in collaboration with post-secondary partners. Funding will provide financial contributions for school groups to be bused to Provincial Parks for climate change educational opportunities. The main focus of this project is to provide a high level of service to students to learn about nature, parks, and parks contributions to reducing climate change.	\$75,000