



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 2022-2023 as of May 2022.

Project Name	Project Lead	Project Description	Funding Amount
Agricultural Adaptation Through Beneficial Management Practices	DAAF	The project will include financial incentives to assist producers to implement 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 assist in enhancing the agricultural land base. Projects could include soil drainage, soil conservation, riparian protection, water supply and irrigation management.	\$500,000
Climate Change Mitigation on Farms	DAAF	The project will include financial incentives to assist producers to implement climate change mitigation measures and technologies. These measures could include nutrient management planning, precision agriculture, energy audits, energy efficiency upgrades, renewable energy sources and improved uniformity in nutrient application.	\$300,000
Evaluation of Greenhouse Gas Emissions and Carbon Capture on New Brunswick Farms – Phase 3	DAAF	This project will allow for benchmarking of greenhouse gas emissions and carbon sequestration on NB farms in the potato, blueberry and dairy sectors using HOLOS.	\$40,000
Multi-Year Culvert Assessment Study – Year 2	DTI	Perform a complete inspection of all of DTI's large culverts 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 our culvert infrastructure to adapt to climatic events.	\$412,500



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Development of Infrastructure Decision Guide	DTI	This project will review recommended best practices based on a previous study and create a methodology to incorporate improvements into decisions that would reduce greenhouse gas emissions and the impacts of climate change and extreme weather on infrastructure assets. The project would result in a checklist, triage system and process, or decision-making tool that could be used for every infrastructure project. The tool would be widely versatile and able to be used for a variety of projects including roads, culverts, structures, etc. and have a meaningful and quantifiable impact on greenhouse gas and/or climate change resilience.	\$300,000
Emergency Detour Plan	DTI	The impacts of climate change have caused an increased number of closed roads due to flooding and weather-related damage. These closures can disrupt the movement of goods and people. This project will identify known and projected roadways impacted by climate-related closures. Detour plans will be established for these roadways to minimize disruption and travel time related to these closures. These plans can also be shared with first responders for planning purposes resulting in a reduction in response time associated with these road closures.	\$50,000
Road Weather Information System Network Upgrades	DTI	Upgrade the current Road Weather Information System (RWIS) network including potential virtual RWIS or mobile sensors and a pilot of enhanced forecasting and advanced storm treatment recommendation. Increasing the RWIS to provide coverage of micro-	\$495,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		climates and other areas prone to extreme weather impacts, will improve communication with the public and the ability to respond timely and effectively.	
Preparedness Exercise for Severe Weather Events	DTI	The impacts of climate change have caused an increased number of severe weather events that cause weather-related damage to the transportation network. This requires an increased response from DTI staff to repair damage and re-establish the transportation network. This project proposes to develop and perform a severe weather exercise to test and evaluate this response. Preparedness exercises will allow DTI to test current procedures and develop recommendations to improve response to future weather events.	\$100,000
Vehicle Management Agency Green Fleet Manager	DTI	New specialized staff to manage and continue the effort of greening government fleet. These steps will help the department reduce greenhouse gas emissions and adapt to climate change by taking steps towards electrification.	\$115,000
Energy Program	DTI	This 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
Electric Vehicle Charging Infrastructure	DTI	Greening government fleet will help remove vehicles from the road that rely on fossil fuel. This project proposes to install electrical upgrades, empty conduit preparation, and install concrete infrastructure at several government locations. This will allow for easy	\$1,000,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		installation of electric vehicle charging stations at each location.	
Vehicle Management Agency Fleet Management Software	DTI	The procurement of this software is in an effort to reduce greenhouse gas emissions from fleet vehicles as the Vehicle Management Agency adapts to new technology and ways to have a greener fleet.	\$500,000
Geotab Fleet Management Devices	DTI	These devices are connected to a vehicle and provide analytics concerning driving behaviour, fuel consumption and tracking. The data provided can help the department identify candidates for electric vehicle replacement as well as prioritize vehicles to be replaced first. The GPS services will help staff plan their routes more effectively to minimize time on the road and greenhouse gas emissions associated with travel.	\$50,000
Grand Lake Meadows Flooding Adaptation	DTI	The Grand Lake Meadows is the largest wetland/marsh in the Province of New Brunswick and the affected section of highway connects the Saint John River Bridge and Jemseg River Bridge. The addition of pore pressure monitoring wells will provide embankment saturation levels that would assist in decision making such as determining the best time to implement detours, shift traffic and/or reopen the highway. This would help to ensure the safety of the public while maintaining the integrity of the highway.	\$115,000
Educator Climate Education Capacity Building (Anglophone)	EECD	All Early Learning and K-12 educators are empowered to build their capacity with self-directed professional learning. Individual educators can apply for funds to build their capacity for teaching climate change and moving to a more action-	\$100,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		oriented mindset. Professional learning teams that are interested in building team capacity as a school or team are eligible to apply. Educators will undergo personalized and self-directed capacity development that is aligned with government policy and is part of a comprehensive vision to address climate change.	
School Facilities Mitigation (Anglophone)	EECD	Educators and learners will apply for grants for climate change mitigation facilities improvements. These improvements will be determined at a school level and implemented with district and EECD support. Schools will baseline their energy consumption with Energy Star Portfolio Manager and work with SNB to reduce their consumption. This project directly addresses mitigation and reducing the carbon footprint of the educational facilities.	\$320,000
Climate Change Creativity (Anglophone)	EECD	This innovative project will focus on educating students on how to use their creative skills to address the need for improved arts education, environmental stewardship, to build capacity to deal with the mental health impacts of eco-anxiety and develop student voice. The products from this project will inspire and help develop adaptative strategies and reduce adverse outcomes in our changing climate.	\$150,000
Early Learning and School Based Climate Action Projects (Anglophone)	EECD	These funds are made available for student orientated action projects focused on reducing New Brunswickers carbon footprint, increasing awareness, and meeting curricular outcomes through experiential learning. Student-led	\$100,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		initiatives are encouraged but require an educator as the liaison and applicant.	
Climate Change Education Champion (Anglophone)	EECD	The Climate Change Education Champion is required to effectively coordinate Climate Change Action at EECD. They manage projects and co-ordinate with community partners, districts and educators, maintain educator resources, maintain the Climate Action website, prepare materials and strategies for Climate Change Action, support curriculum, develop educator capacity, and other climate change education related projects for Early learning and K-12 educators. Funding will further support this position in 2022-2023 to develop a comprehensive climate change education plan and implementation strategy.	\$90,000
Carbon Footprint Reduction Through School Operations (Anglophone)	EECD	This project will pilot the deployment of Energy Star Portfolio Manager to 8-16 schools with a school Sustainability Champion identified. External partners Ecoschools/Gaia or LSF will provide support for Climate Action with online modules and virtual coaching (depending on the school's choice for external partner). Each school will learn about Energy Star Portfolio and Climate actions to reduce carbon footprint. External partners will provide support and mentoring through the year.	\$100,000
Greening the Curriculum for Building and Construction Courses (Grades 10-12) (Anglophone)	EECD	Building and Construction courses at the High School level have curriculum that is outdated and not inclusive of current Climate Change adaptation and mitigation strategies. There have been many advances in materials and methods that should be included in updating 4	\$45,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		high School Skilled Trades curriculum. This funding will support a short-term ask to have an expert teacher update curriculum by including climate change education and will have an immediate impact and will be ever expanding each semester as more students learn about green practices.	
Provincial Climate Change Education Officer (Francophone)	EECD	The project will allow the EECD francophone sector to implement climate action projects. The position will accompany and provide ongoing training and support in New Brunswick's 88 francophone schools, respond to the high demand for educational resources, foster partnerships between existing environmental organizations and schools, distribute available funds and support the implementation of school projects in order to maximize efforts, and increase visibility and ensure the sustainability of projects aimed at reducing greenhouse gases in our province.	\$92,000
Climate EducAction Projects (Francophone)	EECD	This project will distribute funding for the development of school-based projects that promote climate change awareness among all learners in the 88 francophone schools and their communities. Funding will be allocated to climate action projects that address one of the following 4 sectors: transportation, electricity, waste, or ecosystem restoration. All of these actions will aim to decrease the production or improve the absorption of carbon dioxide, thereby directly participating in the reduction of the carbon footprint of New Brunswick citizens.	\$99,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Cyanobacteria Surveillance	ELG	This project would allow government to monitor for cyanobacteria toxins (microcystins) as well as assess the amount of cyanobacteria present (via cell counts) in both lakes and rivers. Climate change is predicted to increase the frequency of cyanobacteria blooms and this surveillance program will provide a better understanding of the distribution of cyanobacteria and cyanobacteria toxins.	\$50,000
Ecosystem Service Integration in New Brunswick Regional Service Districts	ELG	Ducks Unlimited Canada (DUC) is prepared to increase capacity to work with New Brunswick Regional Service Districts (RDCs) to better understand how wetlands function using the Wetland Ecosystem Services Protocol for Atlantic Canada (WESP-AC) tool and increase capacity to explicitly invest in RSD planning support. This increased wetland functional awareness and quantification is expected to lead to increased wetland impact avoidance of high functioning features and to assess how to best incorporate green infrastructure and natural features into the development plans. DUC will assess wetland features including the key functions each feature provides in the watershed and then work with engineers and planners to determine the estimated replacement costs of these functions.	\$50,000
Detailed Risk Assessment of Coastal Areas (Shediac Bridge to Cape Tormentine and Shediac Bridge to Saint)	ELG	This project will conduct a detailed risk assessment of coastal areas along the southern section of the Northumberland Strait. This risk analysis will provide government, land-use planners, infrastructure owners, and other stakeholders with a detailed risk analysis, based on flooding and erosion impacts,	\$150,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Edouard-de-Kent)		and delineate a projected location of the coastline in year the 2100.	
Surveillance of Vector Mosquitoes	ELG	Climate change has been impacting 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, and climate change may have resulted in an increase in their abundance and/or geographic ranges. This mosquito survey will demonstrate if there are changes to endemic mosquito populations because of climate change, including distribution and seasonal abundance.	\$88,000
Flood Hazard Identification and Mapping	ELG	This project will allow for flood hazard mapping for areas where flooding is typically driven by ice jams by identifying key areas prone to ice jams and development of ice jam modeling. The project would also result in further flood hazard mapping on smaller tributaries of some of the major river basins in the province. Flood hazard mapping is important for future planning to show what would happen to specific infrastructure if it is built in certain areas.	\$500,000
DELG Public Education and Engagement on Climate Change	ELG	The Climate Change Secretariat is currently in the process of updating its website and creating educational materials to support a communications campaign to raise awareness of climate change and its impacts to New Brunswick. This funding will support the promotion of the new website and its materials. Further, this project will build on additional	\$125,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		educational opportunities, specifically around cyanobacteria and waste management.	
Study Mental Health Impacts of Flooding in New Brunswick	ELG	This project will conduct a research study to look at mental health impacts of flooding in New Brunswick. The study will be contracted to New Brunswick Institute for Research, Data and Training (NB-IRDT) and will be completed using flooding information and administrative health records from the NB-IRDT.	\$70,000
Establishing New Brunswick Performance Standard for Landfill Gas Capture	ELG	While all NB landfills have landfill gas capture systems, an ECCC commissioned study estimates that they are only capturing up to 44% (on average) of their methane emissions from the decomposition of waste. It is well known that these landfill gas capture systems can achieve capture rates between 75% to 90%. This project will examine what would be the optimal performance standard (capture rate, or other suitable metric) for NB landfills based on economics and NB context.	\$100,000
Strategic Plan for Anaerobic Digestors and Bioreactors in New Brunswick	ELG	The project will conduct an evaluation of province-wide organic waste streams, identify potential options, evaluate the economics and identify barriers related to the development and implementation of anaerobic digestors and/or bioreactors in NB. The project will also quantify the potential generation of renewable natural gas - a credit-source under the Clean Fuel Standard and evaluate the eligibility of anaerobic digestors and bioreactors as an Offset Protocol.	\$150,000
Electric Vehicle Charging	ELG	The current climate change action plan includes an action of having 20,000	\$50,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Deployment Plan		electric vehicles (EVs) on the road by 2030. The federal government has announced that by 2035 all new LDVs sold will be zero emission vehicles. These targets (and others to come) are important since we know that electrifying the economy of New Brunswick is imperative in reaching net zero. In order to hit our EV targets, we need sufficient charging infrastructure supply to precede the EV demand. This project will build a plan that deploys the necessary chargers over the necessary regions in the necessary timing.	
Marysville Place Electric Vehicle Pilot	ELG	This funding is will support the installation of several electric vehicle charging stations at Marysville Place as part of an electric fleet pilot.	\$75,000
Air Quality Monitoring Network Energy Efficiency Improvements	ELG	Government's air quality monitoring stations rely on baseboard heating paired with through-the-wall air conditioning units for climate control (which is necessary for the instruments). This is an inefficient climate control solution. This project will convert these stations to ductless air-to-air heat pump units.	\$30,000
Horizon Electric Vehicle Charging Stations Implementation Planning and Installations	Horizon	Following the completion of an electric vehicle feasibility study conducted in 2021-2022, the next phase of this project is to purchase electric vehicle charging infrastructure to support electric vehicles at Horizon Health Network locations.	\$200,000
Saint John Regional Hospital - Additional Solar Panels	Horizon	Saint John Regional Hospital Installed two sets of solar panels one vertically mounted and one horizontally mounted. Both systems were commissioned during 2018 and after a year of optimizing became fully functional in April 2019. There is now 2.5	\$75,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		years of production data from both sets and have concluded that the vertical set produces approximately 15-20% more depending on the year and has lower maintenance costs. As a result, this project will move forward with an additional vertically mounted solar array set.	
SaveEnergyNB Website	NB Power	To continue to deliver exceptional visitor experience while increasing program registrations, an investment in the continued enhancement of the website will be important. The funding will support further development of the website functionality and creative assets such as photography, infographics, video's etc as well as developing a robust Search Engine Optimization program and Search Engine Marketing.	\$200,000
Small Business and Home Energy Advisory Pilot	NB Power	This pilot will assist New Brunswick small businesses and homeowners in understanding their energy consumption and identifying ways of conserving energy or investing in energy efficient equipment. These Energy Advisors will give one on one support to help navigate energy efficiency programs and other funding sources for energy solutions.	\$500,000
Close Low Carbon Economy and Greener Homes Funding Gaps	NB Power	This funding will allow NB Power to leverage the Low Carbon Economy Fund (LCEF) for non-electric energy efficiency programming and other ineligible LCEF expenditures. This will allow 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.	\$1,500,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
First Nations Energy Efficiency Initiatives	NB Power	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, an education and incentive approach will be developed to cover both residential and business opportunities and will help make homes and businesses more comfortable and lessen greenhouse gas emissions in the communities	\$500,000
Growing NB's E-mobility Capacity and Infrastructure	NB Power	Funding to support e-mobility will focus on initiatives that help achieve the province's goal of having 20,000 electric vehicles (EVs) on the road by 2030 and reduce greenhouse gas emissions. As the uptake in EVs increase so must the charging infrastructure increase to meet the demands of the growing customer base. This project includes 2 streams of activity to build robust infrastructure: 1. Removing barriers to electric vehicle adoption in New Brunswick by improving access to public charging opportunities along highway systems and within communities, 2. Providing incentive and support for more businesses and communities to invest in charging stations to reach New Brunswickers where they work, live and play.	\$2,000,000
Affordable Housing Energy Efficiency Program	NB Power	There are over 175 organizations in New Brunswick that oversee the operations of non-profit and co-op housing units in New Brunswick. It is believed that many of these organizations are limited in their ability to perform energy efficiency upgrades in their facilities. This pilot is	\$2,000,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		intended to help these organizations to improve the efficiency of their units, and to reduce the energy burden experienced by residents in these and other affordable housing units in New Brunswick.	
Fuel Saving Incentives for Trucking Companies	NB Power	There are a number of 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 are taking advantage of fuel saving technologies on their existing fleets. This project would conduct a needs assessment and then add fuel savings measures like skirts, low resistance tires, and idling measures to the existing Business Rebate Program.	\$500,000
Low Income Energy Efficiency Program and Energy Efficiency Kits	NB Power	Reducing the energy consumption in low-income housing will reduce greenhouse gas emissions and reduce the cost paid by low income homeowners for utilities. In 2021, with the funding received through the Climate Change Fund, the participation of low-income participants has almost tripled. In addition, the funding will go towards Energy Efficiency Kits to help serve these households with energy efficiency products along with some educational tools as well.	\$2,000,000
Social Development Housing Retrofit Program	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 caused by these upgrades will reduce greenhouse gas emissions and energy costs paid for utilities.	\$2,000,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
GNB Department of Social Development Pilot (RRAP Landlords and Developers)	NB Power	The pilot has two primary goals: 1) to reduce the energy consumption in rental properties that include subsidized rental units; and 2) to increase or help maintain the number of buildings with subsidized rental units in them. The pilot will be targeting landlords and developers currently participating in or starting to participate in the Department of Social Development's Residential Rehabilitation Assistance Program (RRAP). By promoting and incenting the installation of energy efficiency equipment throughout multi-unit residential buildings that contain subsidized housing units as part of an RRAP agreement.	\$500,000
Moderate Income Energy Efficiency Program	NB Power	Moderate income households are not able to access energy efficiency programs due to the high upfront costs associated with making the upgrades before being able to apply for the incentives or rebates. This pilot program will test some incentive structures as well as program participation models for assisting moderate income households to achieve energy efficiency improvements in their homes.	\$1,500,000
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 along these communities. Each year the Geological Surveys Branch (GSB) is involved in several mapping projects that aim to measure historic coastline or	\$360,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		shoreline recession rates to help the government and private sector deal with flooding and erosion issues. The GSB will continue expanding this database.	
Conserving Climate Change Vulnerable Land in New Brunswick	NRED	With the effects of climate change, New Brunswick has a number of habitats and ecosystems that will be vulnerable to degradation and even loss in the coming decades. These types of areas on privately-owned land face additional threats, like resource extraction, timber harvesting and residential development, which escalates loss of ecosystem value and increases risk to developments and infrastructure. To help reduce this stress, NRED will purchase land containing these vulnerable habitats and ecosystems for conservation.	\$2,500,000
Complete Inspection of Critical Crown Forest Road Infrastructure	NRED	NRED previously completed a climate change vulnerability assessment of critical crown road infrastructure and training on road asset management principles. This assessment and awareness highlighted the need for an inventory and condition rating of key road assets such as watercourse crossings in order to prioritize preventive maintenance.	\$160,000
Protection of Fish and Wildlife Program Access Roads	NRED	NRED fish and wildlife programs are supported by approximately 500 km of forest road on Crown land which are considered critical access. This on the ground assessment and the Climate Change Vulnerability Assessment for Crown Roads indicates action is needed to protect certain road segments from predicted climate change scenarios. These roads provide access for fish stocking, monitoring, Crown reserve fishing sites	\$63,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		and boat launches. This funding will help address these at risk road segments.	
Enhancing the Effectiveness of Provincial Habitat Supplies - Supporting Wildlife Populations in the Face of Changing Climate	NRED	NRED has established objectives to provide sufficient habitat to maintain viable populations across their natural distribution. Depending on the species, changing climate may either enhance or reduce the capacity of current habitat supplies to maintain biodiversity. This project will examine the details of how to ensure habitat supplies are currently effective in supporting desired population objectives and will continue to be effective as climate conditions change.	\$120,000
Assessing Terrestrial Connectivity Provided by Conservation Lands on Crown Lands and the Impacts of Climate Change	NRED	This project will provide a connectivity benchmark for New Brunswick, supporting the development of analytical tools to help identify where habitat connectivity is vulnerable to climate change. Further, it will identify those aspects of climate change influencing connectivity and allow for the incorporation of climate change knowledge and its effects on habitat connectivity into crown land management.	\$70,000
Freshwater Aquatic Connectivity Assessment Phase 2: Barrier Data Amalgamation and Re-evaluation	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 along these communities. The Geological Surveys Branch (GSB) is involved in several mapping projects that aim at measuring historic coastline or shoreline recession	\$120,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		rates to help the government and private sector dealing with flooding and erosion issues. This project will continue expanding the database.	
Plug-In NB - Electric Vehicle Rebates	NRED	The Climate Change Action Plan (CCAP) has a goal of 20,000 electric vehicles (EVs) on New Brunswick's roads by 2030. The EV incentive program has 3 main components that are all delivered by NB Power: 1. EV purchase incentive program; 2. EV home charger purchase incentive program; 3. The administration and delivery by NB Power of the EV incentives, marketing, outreach and education programs.	\$2,950,000
ARC Clean Energy Small Modular Reactor	NRED	ARC Clean Energy is currently developing a small modular reactor that will produce clean energy for NB. Nuclear energy is safe, affordable, reliable, and clean energy. This clean energy can also further support integration of intermittent renewable sources, such as wind and solar. Nuclear energy has the potential to help NB reach its greenhouse gas emission reduction targets.	\$5,000,000
Moltex Small Modular Reactor	NRED	Moltex is currently developing a small modular reactor that will produce clean energy for New Brunswick (NB). Nuclear energy is safe, affordable, reliable, and clean energy. This clean energy can also further support integration of intermittent renewable sources, such as wind and solar. Nuclear energy has the potential to help NB reach its greenhouse gas emission reduction targets.	\$1,500,000
Using Remote Sensing to Estimate Long-	NRED	Management and conservation of carbon in forests is increasingly a focus of international, national and regional policy	\$35,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Term Above-Ground Carbon Stores for New Brunswick: Identifying Potential for Carbon and Biodiversity Co-Benefits		attention. "Natural climate solutions" via forests have been repeatedly proposed as a means through which to combat climate change. This project will provide an estimate of above-ground carbon change over time in relation to forestry in NB. It will also give current-day estimates of locations where above-ground carbon is high.	
Kingsclear Provincial Tree Nursery Expansion and Modernization	NRED	This project includes the completion of a feasibility study for the expansion and modernization of the Kingsclear provincial tree nursery. This project will see the nursery's equipment and infrastructure expanded and modernized to increase its capacity by 30% to produce an additional 4.3M seedlings annually to support the federal 2 Billion Trees program aimed at increasing forest carbon sequestration. Part of this project will also complete an assessment of all oil burners and furnaces and make recommended upgrades to phase out the use of oil for heating.	\$1,450,000
Climate Impact Fund with NBIF	ONB	The Climate Impact Fund is a broad initiative that supports innovative projects in both climate adaptation and climate mitigation across New Brunswick's research, startup, and business communities. The funding supports both early research and development into adaptation and mitigation as well as investment in cleantech start-ups, and support for established companies to incorporate innovative technologies in their business. The renewed funding request also places a greater emphasis on commercial implementation of cleantech innovations and helping established	\$1,800,000



CCF Project Descriptions

(Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		businesses lower their emissions to better compete in an environment of escalating carbon prices.	
Hydrogen Development	ONB	This project will promote innovation and investment in the production and deployment of hydrogen to achieve the energy system transformation required to meet greenhouse gas emission reduction targets. Specifically, this project would identify main industrial opportunities to develop hydrogen, and potential hubs and distribution models.	\$500,000
Carbon Capture and Utilization Hubs	ONB	This project will support the development of a path forward to manage carbon sequestration and support investment and provide certainty around pore space ownership, access, and utilization. The project would also explore opportunities for carbon capture utilization and storage infrastructure hubs and distribution models.	\$500,000
New Brunswick Wood Biomass Switch Pilot Project	ONB	The Wood Biomass Switch Pilot is an initiative targeted towards manufacturers who are currently using oil as a fuel source, and incentivizing them through provisionally repayable loans to convert to a wood biomass boilers leveraging a New Brunswick based fuels source.	\$500,000
Rothesay Water Treatment Plant	RDC	The Rothesay wastewater treatment facility was impacted by record flood levels during the 2018 and 2019 St. John River flood events. This project is for the construction of a new mechanical wastewater treatment facility with the capacity for existing and future municipal waste water flows to 2050, and that will be located above projected flood elevations in the year 2100.	\$3,228,894



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
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 >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.	\$3,235,554
City of Saint John Seawall	RDC	Also known as the Fundy Quay Development, this 2.4-hectare wharf property will be completely raised to an elevation that is safe from the anticipated impacts of climate change. The site was assessed by DTI using climate change data and guidance provided by the Climate Change Secretariat, who informed the project design with future flood elevations and projected sea-level rise that could increase by as much as one meter in elevation, while considering the potential impacts to the project from future storm surges, high-tides, and extreme weather events.	\$1,600,000
Moncton Blue-Green Algae Water Project	RDC	Algae blooms can release toxins that are harmful to human consumption. The community could face “do not consume” or “do not use” orders depending on how the algae bloom manifests itself 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	\$1,787,721



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		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.	
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 wooden retaining wall. Over the course of 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.	\$999,900
Power BI Energy Dashboard	SNB	This project will allow government to view their owned buildings emissions and energy data in a Power BI dashboard. This allows the data in Portfolio Manager to be rolled up for easy visibility providing communication and awareness of greenhouse gas emissions and reductions.	\$25,000
Energy Management Training and Awareness	SNB	This project will continue to engage government staff with awareness and training including building management operator training and awareness to help reduce greenhouse gas emissions.	\$15,000
Energy Management Operational Costs	SNB	This project will implement energy efficiency measures in schools and health networks such as optimization, programming, scheduling, and equipment (low cost equipment/maintenance with impact to energy consumption).	\$100,000
SNB Electric Vehicle Charging Stations	SNB	Following the completion of an electric vehicle feasibility study conducted in 2021-2022, the next phase of this project is to purchase electric vehicle charging	\$200,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
Implementation Planning and Installations		infrastructure to support electric vehicles at Service New Brunswick locations.	
Solar Photovoltaic at the Fredericton Depot	SNB	This project will install a solar photovoltaic array (28 kW PV array) on the roof of the Fredericton Depot. This will allow for the depot to be net-zero.	\$120,000
Upgrade Metering in Schools, Hospitals and other GNB/SNB Owned Facilities	SNB	This project will upgrade metering in schools and hospitals to continue to connect utility meters to existing Building Management Systems. This funding targets buildings that are not undergoing controls upgrades and have no access to energy metering. Facilities staff have direct impact on energy use in buildings. Making energy visible can reduce energy consumption and thereby reduce greenhouse gas emissions from New Brunswick buildings.	\$50,000
New River Beach Parking Lot Redesign to Address Erosion	THC	The lower parking area at New River Beach is used to park vehicles so visitors can access the beach. This area experiences a lot of erosion during heavy rains and causes damage to the shoreline where all flows have been directed. This funding will be used to support the redesign of the lot in hopes of redirecting the drainage away from the current flow to a less intrusive flow destination. In doing so the sand will be able to sustain itself and eventually protect park infrastructure in that area.	\$450,000
Waste water and Solar System for Herring Cove Provincial Park	THC	THC will be building a new comfort station to serve an area of the campground at Herring Cove Provincial Park. The funding will support solar power to supply lighting and hot water. Further, the funding will	\$60,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		allow for wastewater to be treated through a Flat Bed Biofilters.	
Mactaquac Provincial Park Marina Area Culvert Replacements	THC	Mactaquac Provincial Park has numerous old undersized drainage culverts within the park. Storm events have resulted in washing out of material in the Marina area, affecting operations and damaging a building. This funding will replace these culverts with concrete culverts capable of carrying the appropriate water flow for the drainage area.	\$70,000
Provincial Park Climate Change Education	THC	This project will develop a climate change interpretative program by providing financial contributions to school groups to be bused to Provincial Parks for climate change educational opportunities. The main goal 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.	\$50,000
Fundy trail Parkway - Comfort Station / Kitchen Solar Power	THC	This project will support the Fundy Trail Parkway and building a new comfort station by providing solar technology to produce the electricity needed to run the station.	\$50,000
Mactaquac Provincial Park Solar Power Installations	THC	This project is to install solar power energy systems at 4 buildings located within Mactaquac Provincial Park. By installing solar energy on these existing buildings, THC can help to reduce carbon emissions required to produce the electricity needed to run its infrastructure for the long-term.	\$144,000
Electric Golf Carts and vehicles for Provincial Parks	THC	Mactaquac and Herring Cove Provincial Parks have golf courses with golf carts available for use by golfers. The current fleet of 80 carts are all gasoline and are nearing the end of their projected life. This	\$120,000



CCF Project Descriptions (Climate Change Fund)



Project Name	Project Lead	Project Description	Funding Amount
		project is to purchase approximately 30 electric carts to begin the replacement.	
Vitalité Electric Vehicle Charging Stations Implementation Planning and Installations	Vitalité	Following the completion of an electric vehicle feasibility study conducted in 2021-2022, the next phase of this project is to purchase electric vehicle charging infrastructure to support electric vehicles at Vitalité locations.	\$200,000