

Canada – New Brunswick Agreement on the Transfer of Federal Gas Tax Revenues under the New Deal for Cities and Communities 2005-2015

New Brunswick Gas Tax Fund Outcomes Report (2005-2009)



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Table of Contents

Acronyms and Definitions	ii
Executive Summary	iii
1 Background	1
2 Purpose and Scope of the Report	2
2.1 Purpose	2
2.2 Scope	2
3 Major Goal and Objectives – Gas Tax Fund Investments	3
3.1 Goal	3
3.2 Objectives	3
4 Outcome Measurement Methodology	3
5 Analysis of Results	7
5.1 Incorporated Areas	7
5.2 Unincorporated Areas	12
5.3 Summary of Total New Brunswick Projects	13
6 Project Examples	14
6.1 Water Project – Town of Grand Falls, Godbout Street Water Loop	14
6.2 Wastewater Project – Village of Minto, Park Street Sewer Extension	15
6.3 Public Transit – Town of Hampton Park and Ride	15
6.4 Water Protection Project – Town of Hampton Salt Application	15
6.5 Water and Wastewater Project – City of Bathurst	16
7 Conclusion	17
APPENDIX A: New Brunswick Performance Measurement Framework Results	18
APPENDIX B: New Brunswick Incorporated Areas Project Status	20
APPENDIX C: New Brunswick Unincorporated Areas Project Status	33

Acronyms and Definitions

The following list of acronyms, abbreviations and definitions is offered to assist the reader in fully understanding the content.

Acronyms and Abbreviations:

Cl	Chlorine
ESMI	Environmentally Sustainable Municipal Infrastructure
GHG	greenhouse gas
GTF	Gas Tax Fund
ICSP	Integrated Community Sustainability Plan
LSD	Local Service District
km	kilometre
kWh	kilowatt hour
m	meter
M	million
mg/L	milligram per litre
mm	millimetre

Definitions:

Agreement	Canada – New Brunswick Agreement on the Transfer of Federal Gas Tax Revenues under the New Deal for Cities and Communities 2005 – 2015
Department	Department of Local Government
NB Communities	New Brunswick Communities is inclusive, referring to municipalities, rural communities and unincorporated areas
NB GTF database	New Brunswick Gas Tax Fund database, a database developed by the Department to track NB GTF projects
NB PMF	New Brunswick Performance Measurement Framework
Province	Province of New Brunswick
Report	New Brunswick Outcomes Report
Reporting Period	Results are reported for those GTF projects completed in: <ul style="list-style-type: none">• incorporated areas during the period April 1, 2005 to December 31, 2008 (end of municipal fiscal year); and• unincorporated areas during the period April 1, 2005 to March 31, 2009 (end of the provincial fiscal year).

Executive Summary

General Description

Capital Management Engineering Limited (CMEL) was retained by the New Brunswick Department of Local Government to prepare its first outcomes report as required under the Gas Tax Fund Agreement with the Government of Canada.

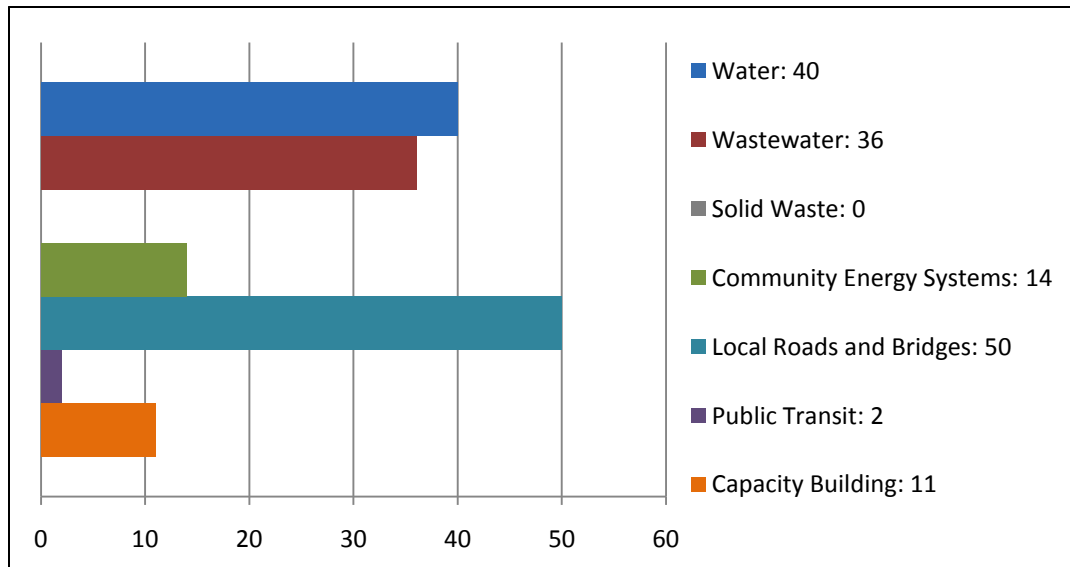
Project Description

Eligible participants undertaking projects authorized under the GTF must submit an annual outcomes report on their projects. These indicators, and other information relating to individual GTF projects, are tracked by the Department in their New Brunswick Gas Tax Fund database. The database information was analysed by CMEL to prepare this New Brunswick Outcomes Report.

Overall Results

There were 153 projects completed in New Brunswick during the Reporting Period with a total investment of \$52,119,288 (\$25,025,548 federal, \$6,381,752 provincial, \$20,711,988 other) expended in six of the seven categories as shown below:

Distribution of Projects by Category



The projects that have reported NB PMF indicators have, cumulatively, resulted in the following performance indicators:

Length of water and wastewater pipe	30,829 meters
Decreased energy consumption	198,355 kWh per year
Connections to water and wastewater systems	122 clients
Reduced vehicle use	68 vehicles per day
Increase in trail, sidewalk users	334 users per day
Length of roads resurfaced or reconstructed	60 km

All New Brunswick projects fulfill the objectives of the Agreement. It is intended that these performance indicators provide results that lead to the objectives of cleaner air, cleaner water and reduced GHG emissions.

1 Background

On November 24, 2005, New Brunswick signed the *Canada – New Brunswick Agreement on the Transfer of Federal Gas Tax Revenues under the New Deal for Cities and Communities 2005 – 2015* (Agreement) with the Government of Canada. The first phase of the Agreement (2005 – 2010) provided \$116M in federal funding to New Brunswick Communities (municipalities, rural communities and unincorporated areas) with the Province of New Brunswick (Province) providing an additional \$30M. On October 2, 2008, the Province and Canada signed an extension to the agreement (2010 to 2014) whereby Canada will invest an additional \$178.5M in New Brunswick Communities. These funds are being invested in environmentally sustainable infrastructure and capacity building projects that will result primarily in the environmental benefits of cleaner air, cleaner water, and reduced greenhouse gas (GHG) emissions.

The Agreement requires the Province to file, periodically, an outcomes report to Canada and it is to be made available to the public. It includes information on the cumulative investments under the GTF and how these investments are contributing to the objectives of the Agreement.

In New Brunswick, the impact of the use of the funds is being measured through a set of core indicators developed by the Department of Local Government (Department) across the seven categories of eligible projects:

Project Categories:

- 1) Water
- 2) Wastewater
- 3) Solid Waste
- 4) Community Energy Systems
- 5) Local Roads and Bridges
- 6) Public Transit
- 7) Capacity Building

This is the first New Brunswick Gas Tax Fund Outcomes Report (Report). It provides an analysis of performance indicators generated by those projects that were completed and that have filed their annual project outcomes report with the Department during the Reporting Period:

- incorporated areas during the period April 1, 2005 to December 31, 2008 (end of municipal fiscal year); and
- unincorporated areas during the period April 1, 2005 to March 31, 2009 (end of the provincial fiscal year).

The delivery of the Canada – New Brunswick Agreement on the Transfer of Federal Public Transit Funds is the responsibility of the New Brunswick Department of Transportation. The results of expenditures under that program are not reported herein.

2 Purpose and Scope of the Report

Capital Management Engineering Limited was retained by the Department of Local Government (Department) to prepare the first New Brunswick Gas Tax Fund Outcomes Report (Report). The Department is designated as responsible for all reporting under the Agreement on behalf of the Province.

2.1 Purpose

The purpose of the Report is to inform Canada, the eligible recipients and the general public of the environmental benefits being achieved through the investments made under the Agreement. It is designed to fulfill the commitment of the Province to prepare and deliver an outcomes report. This Report may be used by Canada to prepare a roll-up national report on the benefits of the GTF investments being made across the country.

The GTF provides funding to New Brunswick Communities in support of the construction, refurbishment, life extension and/or expansion of publicly owned infrastructure required for the supply or management of:

- Potable Water
- Wastewater Collection and Treatment
- Solid Waste
- Energy Efficiency and Clean Energy
- Local Roads and Bridges (Active Transportation)
- Public Transit

Projects undertaken in these categories with the support of the GTF are referred to as Environmentally Sustainable Municipal Infrastructure (ESMI) projects.

The GTF also funds projects that build the capacity of local public service providers (capacity building projects) to enable them to better plan, manage, operate and report on the infrastructure for which they are responsible, and to maximize the environmental benefits they deliver through these systems.

2.2 Scope

The Department maintains the New Brunswick Gas Tax Fund (NB GTF) database to track financial transactions, project descriptions, categories, outcomes and other information from each project.

This Report is the first to measure and analyse the environmental outcomes from the GTF investments in New Brunswick Communities. As of December 2009, 401 GTF projects have been authorized. Of those projects, 153 (38%) were completed, 102 (25.5%) were partially completed and 146 (36.5%) had not started during the Reporting Period. The completed projects were undertaken at a total cost of just over \$52.1M.

The GTF investments are important in ensuring continued movement toward environmental sustainability across the Province.

The outcomes attributed to the individual GTF projects are critical in supporting a milieu of policies and activities that contribute to environmental sustainability. These policies and activities include environmental and general sustainability policy, regulatory and voluntary air and water quality improvement, and GHG emission reduction initiatives, all being undertaken as part of the provincial initiative to become self-sufficient.

For example, the *Climate Change Action Plan 2007 – 2012* sets the policy framework and establishes GHG emission reduction objectives. Expenditures under the Climate Action Fund are consistent with the GTF objective of reducing GHG emissions. Fourteen New Brunswick municipalities are members of the Federation of Canadian Municipalities *Partners for Climate Protection* program and have undertaken to lower their GHG emissions.

New Brunswick Communities are subject to environmental regulations, but also work with the Province to improve water and air quality and to reduce GHG emissions. They regularly apply to the Environmental Trust Fund and other funding sources so that they or their partners may undertake environmental initiatives, often with similar objectives as the GTF projects.

3 Major Goal and Objectives – Gas Tax Fund Investments

3.1 Goal

The major goal of the GTF Agreement is to assist New Brunswick Communities to improve their infrastructure in ways that will more effectively and reliably provide services to their residents while reducing the effect of these systems, or the systems that they replace, on the environment.

3.2 Objectives

The objectives of this Agreement are the provision of cleaner air, cleaner water, and reduced GHG emissions.

4 Outcome Measurement Methodology

The Province has developed a New Brunswick Performance Measurement Framework (NB PMF) that allows for the analysis of the outcomes that are accomplished or to be accomplished by each authorized GTF project. The eligible party must report these parameters and any others that may support the objectives of the Agreement as part of each project funding agreement. The measurement methodology developed for this Report relies on the information collected on each project and tracked in the NB GTF database.

The NB GTF database organizes each project into its appropriate project category. The Department developed a series of indicators for each category that must be reported from each project. These indicators became the NB PMF, and have been previously accepted by Canada. For each project, the NB GTF database tracks one or more performance indicators, and they are the subject of this Report.

Descriptions – Performance Indicators

The performance indicators identified by the Department inform on each of the projects by category. There are two types of projects described in the Agreement:

- Environmentally Sustainable Municipal Infrastructure (ESMI) projects; and
- Capacity Building projects.

The ESMI projects result in new or improved facilities or infrastructure while the Capacity Building projects result in knowledge and skill building.

The Agreement further defines these two types of projects.

ESMI Projects include:

1) Water:

Drinking water supply; purification and treatment systems; distribution systems; and metering.

2) Wastewater:

Sanitary, storm water, and combined sanitary and storm water sewer systems; and treatment facilities.

3) Solid Waste:

Waste diversion; material recovery facilities; organics management; collection depots; waste disposal landfills; thermal treatment and landfill gas recuperation.

4) Community Energy Systems:

Combined heat and power; district heating and cooling; and energy efficiency.

5) Local Roads and Bridges:

Active transportation infrastructure including local roads and bridges that enhance sustainability outcomes.

6) Public Transit

Rapid transit, including tangible capital assets and rolling stock (includes light rail, heavy rail additions, subways, ferries, transit stations, park and ride facilities, grade-separated bus lanes and rail lines); public transportation vehicles such as transit buses/vans, bus rolling stock, transit bus stations; Intelligent Transport System (ITS) and transit priority capital investments; ITS technologies to improve transit priority signalling, passenger and traffic information, and transit operations; and capital investments, such as transit queue-jumpers and High Occupancy Vehicle (HOV) lanes.

Capacity Building Projects include:

1) Collaboration:

Building partnerships and strategic alliances; participation; consultation; and outreach.

2) Knowledge:

Use of new technology; research; monitoring, training, risk management; best practices; and evaluation.

3) Integration:

Planning, policy development and implementation (environmental management systems and life cycle assessments).

4) Skills:

Water resource management.

The performance indicators developed for each category must be reported by the eligible participants as part of their funding agreements. These metrics, therefore, have a number of important attributes in that they:

- Are accurately and feasibly measureable for each project;
- Provide timely estimates and final measurements as the project is completed and continues operation into the future;
- Are easily understood by the project owner and the public;
- Allow similar types of projects to be easily aggregated; and
- Are applicable to projects undertaken in any New Brunswick Community.

The NB GTF database can thus be readily updated as information from new projects is provided and as milestones of existing projects are accomplished. The data are rolled up for each type of infrastructure project being undertaken, and then into a grand total. The Department itself tracks and reports the outcomes from projects undertaken in unincorporated areas.

Performance indicators reported by eligible participants for their projects, tracked by the Department, and reported herein for each project category include:

Water

- Length of water main repaired, replaced or added
- Number of new connections to Municipal or regional water systems
- Decrease in energy consumed

Wastewater

- Length of wastewater collection lines repaired, replaced or added
- Number of new connections to a municipal or regional wastewater treatment system
- Decrease in energy consumed

Solid Waste

- Weight of material recycled or diverted from landfill
- Number of power generation plants
- Volume of methane captured

Community Energy Systems

- Decrease in energy consumed

Local Roads and Bridges (including Active Transportation)

- Length of highway improved to meet Provincial standards
- Length of improved or realigned highway that reduce travel time
- Travel distance reduced
- Increased trail or sidewalk use

Public Transit

- Increased public transit ridership or capacity
- Number of reduced vehicle use
- Reduction in fuel consumption

There are projects being undertaken that clearly fit within the goals of the GTF Agreement but that do not readily produce performance indicators that fit within the foregoing approved NB PMF list. These projects and their performance indicators are also tracked by the NB GTF database.

The NB GTF database produces reports in a format that illustrates the PMF indicators. These reports summarize the outcomes by category and as an overall total for the Province for any particular time period (Appendix A).

5 Analysis of Results

The results of the NB GTF investments by eligible participants are for those projects completed during the Reporting Period.

5.1 Incorporated Areas

There have been 150 projects completed in the incorporated areas. Of these projects, 102 have reported performance indicators that fall within the NB PMF. Of the remaining 48 projects in the incorporated areas, some were completed late in 2008 and the NB PMF compliant performance indicators are just now being collected and will be reported in their 2009 outcomes report. Other projects, as mentioned above, are tracking other indicators that still support the goals and objectives of the Agreement, but are not included in the NB PMF as the Department only included the most common indicators reported.

The financial investments in the 150 completed projects and the NB PMF performance indicators for the 102 completed and reporting projects are summarized by category.

Water

The incorporated areas completed 40 potable water projects with a total investment of \$21,173,296. Of these projects, 26 have fully reported their NB PMF indicators. Projects identified in this category are of the following types in terms of their primary purposes:

- 1) Improved quality
- 2) Improved safety
- 3) Improved use and volume
- 4) Added clients to managed systems
- 5) Reduced energy consumption

The results from the water projects undertaken during the Reporting Period are summarized in the table below:

Water	
Completed Projects	40
Federal Contribution	\$7,463,664
Provincial Contribution	\$1,929,242
Municipal and Other	\$11,780,390
Total	\$21,173,296

Performance Indicators	Quantity	Units	Projects with PMF Indicators
Length of water system or supply pipes repaired, replaced or added	12,188.7	m	19
New connections to municipal water systems	37	clients	5
Decrease in energy consumed	50,850	kWh per year	2

Wastewater

The incorporated areas completed 36 wastewater system projects at a total cost of \$7,457,865. Of these, full NB PMF indicator reports were filed on 27 projects. Wastewater projects are of the following types in terms of their primary purposes:

1. Improved sewage collection and treatment
2. Improved storm water management
3. New connections to sewage collection and treatment
4. Reduced energy consumption

The results from the wastewater projects undertaken during the Reporting Period are summarized in the table below:

Wastewater	
Completed Projects	36
Federal Contribution	\$4,586,262
Provincial Contribution	\$1,185,479
Municipal and Other	\$1,686,124
Total	\$7,457,865

Performance Indicators	Quantity	Units	Projects with PMF indicators
Length of wastewater system pipes repaired, replaced or added	18,640.0	m	19
New connections to municipal wastewater systems	85	clients	5
Decrease in energy consumed	106,575	kWh per year	3

Solid Waste

There were no solid waste projects completed in the incorporated areas during the first Reporting Period.

Community Energy Systems

The incorporated areas completed 14 community energy projects, seven of which have reported their NB PMF indicators. The total investment in these projects was \$1,950,020. All of the projects in this category promote reductions in energy consumption.

The results from the community energy projects undertaken during the Reporting Period are summarized in the table below:

Community Energy Systems	
Completed Projects	14
Federal Contribution	\$690,595
Provincial Contribution	\$178,513
Municipal and Other	\$1,080,912
Total	\$1,950,020

Performance Indicators	Quantity	Units	Projects with PMF indicators
Decrease in energy consumed	40,930	kWh per year	7

Local Roads and Bridges

The incorporated areas completed 50 local roads and bridges (including active transportation), projects at a total cost of \$20,864,475. Of these, 40 projects have reported their NB PMF indicators. Projects in this category have the following primary purposes:

1. Improved local roads and traffic circulation
2. Developed active transportation

The results from the transportation projects undertaken during the Reporting Period are summarized in the table below:

Local Roads and Bridges (including Active Transportation)	
Completed Projects	50
Federal Contribution	\$11,759,678
Provincial Contribution	\$3,039,723
Municipal and Other	\$6,065,074
Total	\$20,864,475

Performance Indicators	Quantity	Units	Projects with PMF Indicators
Length of roads to Provincial standard, for reduced travel time and for travel distance reduced	60	km	33
Increase in trail and sidewalk usage	334	users per day	7

Public Transit

The incorporated areas completed two public transit related projects with a total investment of \$100,841. Both reported their NB PMF indicators. Projects in this category are of the following types in terms of their primary purposes:

1. Increase public transit ridership
2. Number of reduced vehicle use
3. Reduce fuel consumption

The results from the public transit projects undertaken during the Reporting Period are summarized in the table below:

Public Transit	
Completed Projects	2
Federal Contribution	\$40,399
Provincial Contribution	\$10,442
Municipal and Other	\$50,000
Total	\$100,841

Performance Indicators	Quantity	Units	Projects with PMF Indicators
Reduction in vehicle use	68	vehicles per day	2

Capacity Building

The incorporated areas completed 8 capacity building projects at a total cost of \$188,217. Projects identified in this category were related to the planning of municipal infrastructure.

Capacity Building	
Completed Projects	8
Federal Contribution	\$148,376
Provincial Contribution	\$38,353
Municipal and Other	\$1,488
Total	\$188,217

Out of these eight projects, three final reports were filed with the Department to date.

Incorporated Areas Total

The tables below summarize the investments and PMF indicators for the incorporated areas projects.

Incorporated Areas Total	
Completed Projects	150
Federal Contribution	\$24,688,974
Provincial Contribution	\$6,381,752
Municipal and Other	\$20,663,988
Total Investment	\$51,734,714

Performance Indicators	Quantity	Units	Projects with PMF Indicators
Length of water system or supply pipes repaired, replaced or added	12,188.7	m	19
New connections to municipal water systems	37	clients	5
Length of wastewater system pipes repaired, replaced or added	18,639.0	m	19
New connections to municipal wastewater systems	85	clients	5
Decrease in energy consumed	198,355	kWh per year	12
Reduced vehicle use	68	vehicles per day	2
Increase in trail, sidewalk use	334	users per day	7
Length of roads to Provincial standard, for reduced travel time and for travel distance reduced	60	km	33

Many of the projects carried out during the Reporting Period are achieving multiple benefits being tracked by the Department in the NB GTF database.

5.2 Unincorporated Areas

The GTF projects undertaken in the unincorporated areas were managed directly by the Department. Three capacity building projects were completed in the unincorporated areas of the Province with a total investment of \$384,574 during the Reporting Period. There have now been a total of 26 GTF projects authorized for unincorporated areas. No ESMI projects have yet been completed in these areas.

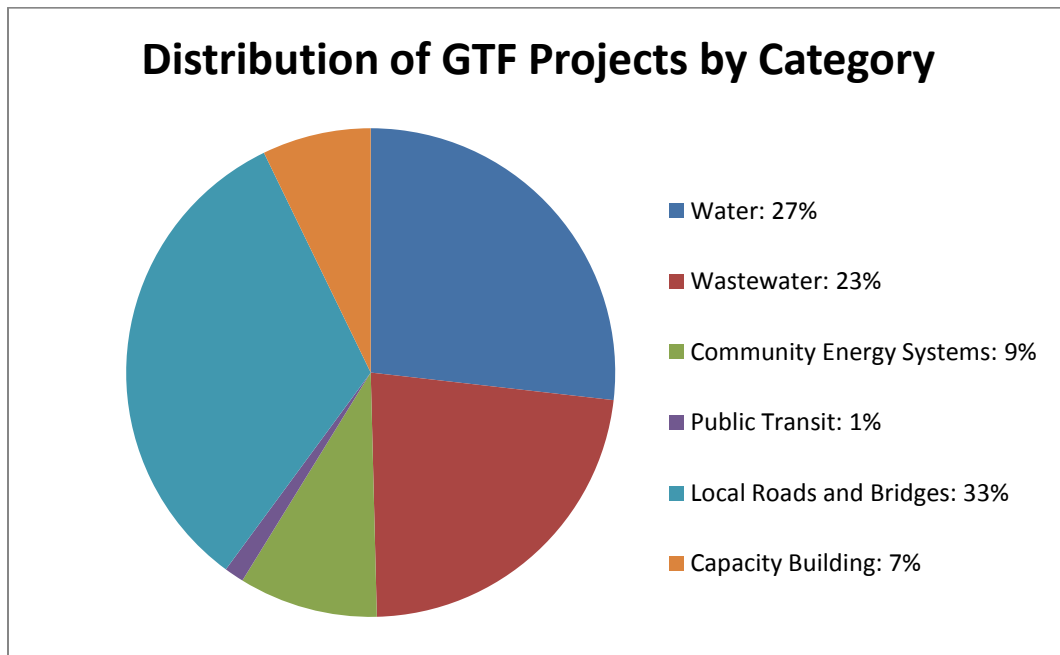
One of the capacity building project was the development of Integrated Community Sustainability Plans (ICSP). The principles of ICSPs' were incorporated into the Community Growth Strategies of New Brunswick's 15 Community Economic Development Agencies (CEDA). The intent of this planning process was not to impose priorities on any municipality or to expand the mandate of the CEDAs', however, the resulting document is a development tool that each community can own and use for their development. The CEDAs' collective boundaries cover incorporated and unincorporated areas and provided an opportunity to understand how communities develop and integrate with each other. All municipalities, however, have the option of developing their own Integrated Community Sustainability Plan under the Fund.

The Department made an agreement with each CEDA to develop Community Growth Strategies that included the principles of Integrated Community Sustainability Plans. At the end of May 2008, all 15 Community Growth Strategies were completed and a copy of these plans has been distributed to the respective stakeholders.

5.3 Summary of Total New Brunswick Projects

The GTF has authorized a total of 401 projects to date. During the Reporting Period, 153 of these projects (38%) were completed, with 150 of the completed projects being in incorporated areas and three in the unincorporated areas of the Province. Of these, eligible recipients have filed NB PMF indicators for a total of 102 projects. The completed GTF projects were divided among six of the seven eligible categories as indicated in the figure below.

These 153 completed projects were undertaken with a total investment of \$52.1M, including \$31.5M in federal and provincial contributions from the GTF while leveraging funding of \$20.7M from municipalities and other sources.



The province-wide performance indicator outcomes for this Reporting Period have been summarized in section 5.1 above. As there were no additional outcomes to report from the three projects in the unincorporated areas, it is not repeated here.

6 Project Examples

The categories of eligible GTF projects undertaken during the Reporting Period are analysed in the foregoing. However, it is useful to consider a sample of individual projects that are being undertaken to bring additional reality to some of the categories, to illustrate their conformance with the objectives of the program, and also to show the challenges in fully quantifying the range of environmental benefits being achieved.

The following projects are examples of those eligible projects undertaken during the Reporting Period, identifying their NB PMF and other expected or achieved performance indicators.

6.1 Water Project – Town of Grand Falls, Godbout Street Water Loop

The Town of Grand Falls removed two dead end water lines (5/8 inch (16 mm) and 1 inch (25.4 mm) diameter copper piping) located on Godbout Street. The replacement lines, 185 meters of 150 mm piping and three new 150 mm gate valves, were connected to mains on Evangeline Street and Guimont Street. The street impacted by the installation required base asphalt repair and resurfacing.

Expected Outcome:

The Town expected to more efficiently distribute quality potable water to all residents of Godbout Street at a more appropriate delivery pressure. Looping of the water mains was expected to ensure more consistently that good water quality is maintained while creating a safety net (positive dual feed) in the event that a water main repair is needed by eliminating the need to shut off water to a larger number of area residents.

NB PMF Indicators:

- 185 m of water main installed

Other indicators:

- Before: 56 psi water pressure; and
0.45mg/L of residual Cl
- After: 70 psi water pressure; and
0.31mg/L of residual Cl

The project improved the operating efficiency of the system. Larger diameter lines reduce pumping energy for the same volume of water. Fewer water line purges to maintain quality will be required as a result of removing the dead end lines. New lines typically are more reliable, reducing the number of water main break repairs. This project also resulted in the resurfacing of the street. All of the foregoing actions typically reduce energy consumption and GHG emissions.

6.2 Wastewater Project – Village of Minto, Park Street Sewer Extension

The Village of Minto extended municipal sewage service to include a Park Street loop (1.3 km) and continuing down Bridge Street to Pleasant Drive (200 m). Park Street was undermined years ago for coal recovery, and many of the home owners drilled into the old mine shafts and ran their sewer into them. This project extended sewage collection service to 24 residences on Park Street and 12 residences on Bridge Street.

Expected Outcome:

The Village expected that the connected homes would no longer discharge raw sewage to the environment. The collected sewage would be treated through the Village's wastewater treatment system to meet provincial effluent standards.

PMF Indicators:

- 1550 m of new sanitary sewer main installed
- 36 new connections made to the system

6.3 Public Transit – Town of Hampton Park and Ride

The Town of Hampton constructed a parking lot on Town-owned property near the intersection of William Bell Road and Lakeside Road. It allows residents to park, and either carpool to their destinations or take a ComX / Saint John Transit Commission bus to and from the City of Saint John directly from the lot.

Expected Outcome:

This project was expected to reduce the number of daily vehicle trips to and from the City or other destinations. Reducing vehicle trips reduces the amount of fuel consumed, traffic congestion and accident risk, thus reducing the amount of greenhouse gas (GHG) and air pollutants released into the atmosphere, ground or water.

PMF Indicators:

- An average of 56 cars are using the parking on a daily basis (reduced vehicle use)

The project encourages additional public transit usage beyond the number of vehicles measured in the parking lot (drop-offs, carpooling to the lot). Such infrastructure raises awareness of the public transit opportunity and encourages others to use it, whether or not the parking lot is convenient for them.

6.4 Water Protection Project – Town of Hampton Salt Application

The Town of Hampton worked with UNB Engineering Department to develop a Salt Management Plan. The Town purchased a mechanized salt spreader, instrumental in implementation of the plan, and installed it on a plow truck.

Expected Outcome:

The Town expected that the mechanized spreader would allow it to more effectively control salt application to the road way, reducing the amount of salt required and potential contamination of surface and groundwater. Better road maintenance improves travel efficiency, reduces energy consumption, and reduces highway accidents.

Performance Indicator:

- Decrease of 158 tons of salt usage during 2006/07 winter season

6.5 Water and Wastewater Project – City of Bathurst

The City of Bathurst upgraded its water and sanitary sewer systems on King Avenue from Dumaresq Street to Union Street, and from St. John Street to Main Street. New water distribution lines and laterals were installed. The sanitary and storm sewer systems were separated. Due to the depth of the current systems, the street was rebuilt and resurfaced, and the curbs and sidewalks were replaced.

Expected Outcome:

The City expected that the new water distribution system would improve potable water quality. Separation of the storm and sanitary sewer system would reduce loading and thus improve the treatment process at the Wastewater Treatment Plant to enable it to more reliably meet the provincial effluent quality standards.

PMF Indicators:

- 1538.7 m of water main replaced
- 2147.1 m of sanitary sewer main replaced
- 1394.5 m of storm sewer pipe installed

Other Indicators:

Storm water:

- 15,000 cubic meters of storm water separated from sanitary sewer for every 1000 mm of precipitation

Water quality:

- Before: Residual Chlorine on 29 weeks sampling:
 - Readings between 0 and 0.03 mg/L Cl = 14
 - Readings between 0.04 and 0.1 mg/L Cl = 8
 - Readings > 0.1 mg/L Cl = 9

- After: Residual Chlorine on 29 weeks sampling:
 - Readings between 0 and 0.03 mg/L Cl = 0
 - Readings between 0.04 and 0.1 mg/L Cl = 1
 - Readings > 0.1 mg/L Cl = 28

The project is producing multiple benefits, including an improved street surface and improved energy efficiency for the wastewater collection (new piping, lower volume) and treatment (redirection of storm water).

7 Conclusion

The Department of Local Government is proud of the progress toward improved sustainability in New Brunswick Communities as a result of the implementation and management of the Gas Tax Fund Agreement. The development of the New Brunswick Gas Tax Fund database and the Performance Measurement Framework has allowed the Province to track results from all of the projects that are being undertaken. This information will inform the partners – Canada and New Brunswick – as well as the eligible participants and the general public as to the environmental benefits of these investments, especially their contribution toward cleaner air, cleaner water and reduced GHG emissions.

The GTF program is now fully in operation as municipalities and other eligible participants have developed their capital investment plans for the 2005-2010 phase and are now preparing a new capital investment plan for 2010-2014. They are incorporating their own resources as well as those from the Fund to do larger projects more efficiently, thus providing even greater benefits to their residents and clients.

APPENDIX A: New Brunswick Performance Measurement Framework Results

Project Category	Project Type	Number of Projects with type	Number of Municipalities with type	Indicator for Aggregation	Indicator Total Value	Project Outcome	Number of Projects with Outcome	Number of Municipalities with Outcome
1. Water	A) Projects improving water quality	17	9	# of metres of water system or supply pipes repaired, replaced, or added	12,188.70	Cleaner Water	24	13
	B) Projects improving water safety	1	1					
	C) Projects improving drinking water use and volume (i.e. metering)	1	1					
	D) Projects adding connection to a drinking water system	5	5	# of new connections to Municipal water systems	37			
	E) Projects reducing energy consumption (i.e. new pumps, lift stations, turbines)	2	1	Decrease in KWH consumed	50,850	Lower GHG	2	1
2. Wastewater	A) Projects improving and increasing wastewater collection and treatment systems	5	5	# of metres of Wastewater system or supply pipes repaired, replaced, or added	18,639.85	Cleaner Water	24	16
	B) Project improving storm sewer drainage, collecting and treatment systems	14	7					
	C) Projects adding connection to a sewage collection system	5	5	# of new connections to Municipal Wastewater systems	85			
	D) Projects reducing energy consumption (i.e. new pumps, lift stations, turbines)	3	3	Decrease in KWH consumed	106,575	Lower GHG	3	3
3. Solid Waste	A) Project related to recycling, composting, solid waste reduction or other diversion activities			Tons of recycled material		Cleaner Air		
	B) Project promoting solid waste power generation			Number of power generation plants		Cleaner Water		
	C) Methane gas recapturing projects			Volume of recaptured Methane		Lower GHG		

Project Category	Project Type	Number of Projects with type	Number of Municipalities with type	Indicator for Aggregation	Indicator Total Value	Project Outcome	Number of Projects with Outcome	Number of Municipalities with Outcome
4. Community Energy	A) Projects promoting a reduction in energy consumption	7	6	Decrease in KWH consumed	40,930	Lower GHG	7	6
	B) Resource recovery and energy production and cogeneration projects					Cleaner Air		
5. Public transit	A) Project establishing new, or expanded systems to interconnect communities			Increase ridership		Cleaner Air		
	B) Project increasing ridership and capacity of transit system							
	C) Projects that encourage car pooling	2	2	# of reduced vehicle use	68	Lower GHG	2	2
	D) Upgrading existing transit system to be more energy efficient			reduction in fuel consumption				
6. Local Roads and Bridges (Active Transportation)	A) Projects improving local roads and traffic circulation	33	13	# of km Improved to Prov. standard; # of km built to reduce travel time; # of km of travel distance saved	60,037	Lower GHG	33	13
	B) Projects developing active transportation alternatives (paths, trail for walking, biking, side walks)	7	7	Increase trail usage	334	Cleaner Air	7	7
7. Capacity Building	A) Projects increasing collaboration (i.e. building partnerships and strategic alliances, participation, consultation and outreach)	1	1	Copy of reports				
	B) Projects increasing knowledge (i.e. use of new technology; research; and monitoring, training, risk management, best practices and evaluation, inventory of infrastructure eligible under the GTF program)	8	7	Copy of reports				
	C) Projects promoting integration (i.e. planning, policy development and implementation, environmental management systems, life cycle assessment)	2	2	Copy of reports				
	D) Projects increasing information for water resource management			Copy of reports				

APPENDIX B: New Brunswick Incorporated Areas Project Status

Project Name	Applicant	Status
Ajout d'une génératrice à l'usine de traitement d'eau potable	Village de Saint-Antoine	Completed
Water Main - West Connector Road	Town of Rothesay	Not completed
Water Source Development	Town of Rothesay	Not completed
Upgrading the Potable Water Reservoir	Village of Eel River Crossing	Not completed
Upgrading the Water Pumping/Treatment Building	Village of Eel River Crossing	Not completed
Installation de compteurs d'eau	Village de Drummond	Not completed
Watermain Cleaning and Lining	City of Saint John	Not completed
Pipeline Road East	City of Saint John	Completed
Harbourview Subdivision Water System	City of Saint John	Not completed
Installation d'une ligne d'aqueduc sur la rue Goupil	Ville de Shippagan	Completed
Water Valve - Route 8 and Miramichi Street Intersection	Village of Doaktown	Completed
Watermain Replacement Program	Town of Riverview	Not completed
Installation de compteurs d'eau aux sites industriels, commerciaux et institutionnels	Village de Saint-Antoine	Not completed
Amélioration du système de chloration de l'eau	Village de Saint-Antoine	Not completed
Eau potable rue des Pins	Village de Clair	Not completed
Amélioration au système de distribution d'eau potable	Village de Saint-Louis-de-Kent	Completed
Barrage avec pelle amovible à l'usine de filtration	Ville de Saint-Quentin	Completed
Maillage du système d'aqueduc	Village de Sainte-Anne-de-Madawaska	Not completed
Système SCADA – Système d'eau potable municipal	Ville de Bouctouche	Not completed
Groundwater Testing	Village of Salisbury	Not completed
Installation d'une ligne d'aqueduc sur la rue à Tom	Ville de Shippagan	Completed
Latimer Lake Intakes/Screen House	City of Saint John	Not completed
Amélioration du réservoir d'eau potable municipal	Village de Kedgwick	Not completed
Replacement of water pipes on Pugsley Street	Town of Nackawic	Not completed
Water Main Looping	City of Miramichi	Not completed
Well Field Development - Chatham	City of Miramichi	Not completed
Water Meters	Village of New Maryland	Not completed

Well Field Exploration and Development	Village of New Maryland	Not completed
Water Supply Main Installation	Village of New Maryland	Not completed
Ironmen Road Water Main Loop	City of Miramichi	Not completed
Well Test Drilling	Village of Norton	Not completed
Extension of Municipal Water Infrastructure on Lake Avenue - Phase II	Village of McAdam	Not completed
Water Main Extension - Gondola Point Road	Town of Rothesay	Completed
Extension of Municipal Water Infrastructure on Ash Street	Village of McAdam	Completed
Water Treatment Plant	City of Fredericton	Completed
Mechanized Salt Spreader	Town of Hampton	Completed
Water Supply to New Manor on Evangeline Street	Town of Grand Falls	Completed
Godbout Street Water Main Looping	Town of Grand Falls	Completed
Scout Street to Pine Street Water Main Looping	Town of Grand Falls	Completed
Albert Street Water Main Looping	Town of Grand Falls	Completed
Construction of a water reservoir	Town of Quispamsis	Not completed
Abandon du puits No.2 et construction du puits No.3	Ville de Richibucto	Completed
Identification d'une nouvelle source d'eau potable	Ville de Richibucto	Completed
Installation des canalisations d'eau potables	Communauté rurale de Saint-André	Not completed
Extension of Municipal Water Infrastructure on Clifford Street	Village of McAdam	Not completed
Water Supply Backup	Village of Tide Head	Not completed
Second Supply Line to Valley Road Reservoir	Town of St. Stephen	Completed
Watermain replacement on Broad Street	Town of Sussex	Not completed
Watermain replacement on Queen Street	Town of Sussex	Completed
Watermain Replacement on Stewart Avenue	Town of Sussex	Completed
Développement du puits No. 4, secteur Sheila	Ville de Tracadie-Sheila	Not completed
Chlorination System Modifications	Town of St. Stephen	Completed
Water Main Replacement on Campbell Hill Road	Town of St. George	Not completed
Watermain Replacement on Church Avenue - Phase II	Town of Sussex	Not completed
Watermain Replacement from the Reservoir to Church Avenue	Town of Sussex	Not completed
Watermain Replacement on Fowler Avenue - Phase II	Town of Sussex	Completed
Watermain Replacement on Creek Lane	Town of Sussex	Completed
Renovations to the Valley Road Reservoir	Town of St. Stephen	Not completed

Watermain Replacement on Fowler Avenue - Phase I	Town of Sussex	Completed
Watermain replacement on Main Street West	Town of Sussex	Completed
Watermain replacement on Arnold Avenue	Town of Sussex	Completed
Minor Exterior Repairs, Grading and Fencing - Valley Road Reservoir	Town of St. Stephen	Completed
Water Metering	Village of Tide Head	Completed
Water Line Extension	Village of Aroostook	Not completed
Watermain Replacement on Church Avenue - Phase I	Town of Sussex	Not completed
Water Main Replacement on South Street	Town of St. George	Completed
Cambridge Street Booster Pumping Station	Town of Woodstock	Completed
Water Supply Pump	Town of Woodstock	Completed
Ultraviolet Disinfection for Sugarloaf Potable Water Supply Well	Village of Atholville	Not completed
Installation of more efficient starters and well pumps for the potable supply wells	Village of Atholville	Not completed
Upgrade Mt. Pleasant Avenue Water Pressure Booster Station	Town of St. George	Completed
Améliorations au puits (de la piste cyclable)	Village de Baker-Brook	Completed
Back-up Power Sources	Village of Doaktown	Completed
Water Chlorination System	Town of Woodstock	Not completed
Sewer Main Replacement	Village of Plaster Rock	Not completed
Storm Sewer Installation	Village of Sussex Corner	Not completed
Riverview Avenue Storm Sewer	Town of Grand Bay-Westfield	Completed
Thompson Road Blind Knoll Removal	Town of Grand Bay-Westfield	Completed
Wastewater Facility	Village of Grand Manan	Not completed
George Street Storm Sewer	Town of Grand Bay-Westfield	Completed
Inglewood Drive Storm Sewer	Town of Grand Bay-Westfield	Not completed
Inglewood Drive Cross Culvert	Town of Grand Bay-Westfield	Not completed
Meadowbrook Drive Storm Sewer	Town of Grand Bay-Westfield	Completed
Highland Road Storm Sewer	Town of Grand Bay-Westfield	Not completed

Thompson Road Storm Sewer	Town of Grand Bay-Westfield	Completed
Installation des rideaux séparateurs à la lagune	Village de Bas-Caraquet	Not completed
Storm Sewer - Orange Street	Town of Woodstock	Completed
Sanitary Sewer Collection Between King Street and Elm Street	Town of Woodstock	Not completed
Sanitary Sewer Repairs	Village of Norton	Completed
Sewer Expansion to Park Street	Village of Minto	Completed
Remplacement de stations de pompage	Village de Memramcook	Completed
Oromocto West Waste Water Treatment Plant – Geotube Sludge Project	Town of Oromocto	Not completed
Construction d'égouts pluviaux - rue Vienneau et de la Tourbe	Village de Le Goulet	Completed
Remplacement de la station de relèvement – rue Pêcheur-Sud	Ville de Lamèque	Not completed
Branchement de la rue Paulin au réseau d'égout sanitaire	Village de Bas-Caraquet	Completed
Remplacement du puisard du parc municipal par une fosse septique, une station de pompage et un champ d'épuration	Village de Lac Baker	Not completed
Égouts pluviaux	Village de Petit-Rocher	Not completed
Lagoon Upgrade	Village of Hillsborough	Not completed
Extension of Sewer Line	Village of Harvey	Completed
Sanitary Sewer System Upgrade	Town of Hampton	Not completed
Bartlett Avenue and Dale Avenue Storm Sewers	Town of Hampton	Not completed
Lift Station on Elgin Road	Village of Petitcodiac	Not completed
Caswell and Ouellette Sanitary Connection	Town of Grand Falls	Completed
Changement des panneaux de contrôle des stations de pompes existantes	Ville de Richibucto	Completed
Prolongement du système d'égout sanitaire	Village de Petit-Rocher	Not completed
Nouvelle station de pompage	Village de Petit-Rocher	Not completed
Remplacement du puisard à l'édifice municipal par une fosse septique et un champ d'épuration	Village de Lac Baker	Not completed
Sanitary Sewer Extension on Gregg Settlement Road	Village of Centreville	Not completed
Pamdenac Road Storm Sewer	Town of Grand Bay-Westfield	Completed
Wastewater Treatment Plant - Aeration System	Town of Dalhousie	Not completed
Phyllis Creek Storm Water Attenuation Pond	City of Fredericton	Not completed
Replacement of sewage pumps	Town of Dalhousie	Not completed

Construction d'égouts pluviaux	Village de Saint-Isidore	Not completed
Changement de conduite d'égout de la rue des Érables	Village de Clair	Not completed
Égout sanitaire de la rue Principale	Ville de Saint-Léonard	Not completed
Égout sanitaire le long du chemin de fer	Ville de Saint-Léonard	Not completed
Sewerage Waste Water Treatment Plant	Village of Chipman	Not completed
Station de pompage de la lagune du Chemin Renaud	Village de Saint-Antoine	Completed
Dragage d'un étang d'épuration	Ville de Saint-Quentin	Completed
Améliorations au réseau d'égout sanitaire	Village de Saint-François	Completed
Réduction du volume d'eaux usées dans le secteur nord-ouest et à la station de pompage no. 1	Village de Sainte-Anne-de-Madawaska	Completed
Vérification et réduction de l'infiltration dans le système d'égout du village	Village de Sainte-Anne-de-Madawaska	Not completed
Storm Sewer Mill Street	Village of Centreville	Not completed
Travaux de drainage des rues Pinet, Normand, du Bicentenaire et du chemin du Moulin	Village de Bertrand	Not completed
Storm Water Separation - Wallace Cove Road	Village of Blacks Harbour	Completed
Storm Sewer Improvement Program	Village of Salisbury	Completed
Storm Water Separation - Brunswick Street	Village of Blacks Harbour	Not completed
Sanitary Sewer & Storm Sewer on William Street	Town of St. Andrews	Not completed
Replacement of Pumping Station	Village of Stanley	Not completed
Replacement of sewage pumping stations No. 1, 2 and 4	Village of Charlo	Not completed
Wells Storm Sewer and Drainage	Town of Rothesay	Completed
Brookdale Avenue Storm Sewer	Town of Grand Bay-Westfield	Completed
Evergreen Drive and Riverdale Court Storm Sewer	Town of Grand Bay-Westfield	Completed
St. John Street Sanitary Sewer Upgrade	City of Fredericton	Completed
Storm Water Attenuation Pond - Southside Regional Event Complex	City of Fredericton	Completed
Remplacement du système d'égout sanitaire de la 15e rue	Ville de Shippagan	Completed
Pumping Station Upgrade - Route 105 (Co-op Site)	Town of Florenceville-Bristol	Not completed
Pumping Station Upgrade - Route 105 (McCain)	Town of Florenceville-Bristol	Not completed
Storm Sewer - Station Street and NB Trail	Town of Florenceville-Bristol	Completed

Decommissioning Charles Crescent Wastewater Pumping Station	Town of Rothesay	Completed
Charles Crescent Storm Sewer	Town of Rothesay	Completed
Installation d'égouts pluviaux sur la rue Marie	Ville de Beresford	Completed
Installation de nouveaux aérateurs à la lagune municipale	Communauté rurale de Saint-André	Not completed
Installation d'un revêtement dans les tuyaux endommagés	Communauté rurale de Saint-André	Not completed
Wastewater Treatment Plant - Former Canadian Forces Base	City of Miramichi	Not completed
Replacement of Storm Catch Basins and Cross Water Laterals on Otis Drive	Town of Nackawic	Completed
Various Storm Sewers	Town of Rothesay	Not completed
Remplacement d'un ponceau - rue Principale quartier Saint-Jacques	Ville d'Edmundston	Not completed
Upgrading the Sewage Pumping Stations	Village of Eel River Crossing	Not completed
King Avenue System Upgrade - Phase II	City of Bathurst	Completed
Water Main Renewal & Wastewater Grinding Station	Village of Bath	Completed
Monitor and Alarm Upgrade	Town of Dalhousie	Not completed
Extension des services d'eau et d'égout - Avenue des Pionniers Est	Village de Balmoral	Completed
SCADA System	Village of Atholville	Not completed
Upgrades to Water and Wastewater Systems - Chaleur Drive	Village de Belledune	Not completed
Main Street Phase II – Water and Sewer Improvements	Town of Grand Falls	Completed
King Street Reconstruction	City of Miramichi	Not completed
Prolongement du système d'égout sanitaire et remplacement d'une section de la conduite d'eau sur la rue Marie	Ville de Beresford	Completed
Replacement of Water & Sewerage Lines on Minto Street	City of Campbellton	Not completed
SCADA System	Village of Perth-Andover	Not completed
Installation d'égouts pluviaux et le re-branchement à une conduite d'eau	Ville de Saint-Léonard	Not completed
Davidson Lane	City of Miramichi	Not completed
Water main, Sanitary Sewer & Storm Sewer on Patrick Street	Town of St. Andrews	Completed

Water Main & Sanitary Sewer Renewal on Augustus Street	Town of St. Andrews	Completed
Mirview Drive Phase I	City of Miramichi	Not completed
Millar Avenue Reconstruction	City of Miramichi	Completed
Replacement of Water Main and Sanitary Sewer on Girouard Street	Village of Plaster Rock	Completed
Blue Bin Recycling Depot	Town of Hampton	Not completed
Efficiency Upgrade – Arena Ice Plant Condenser	Town of Oromocto	Completed
Southside Regional Event Complex - Heating Ventilation and Air Conditioning (HVAC) System	City of Fredericton	Not completed
Energy Reduction of Sewage Treatment Facility	Village of Harvey	Not completed
Remplacement du système de chauffage	Village de Saint-Hilaire	Completed
Municipal Office	Village of Riverside-Albert	Completed
Arena Condenser Replacement	Village of Hillsborough	Completed
Améliorations à l'aréna municipale	Village de Kedgwick	Completed
Energy Retrofit Project	Village of Perth-Andover	Not completed
Travaux d'amélioration énergétique à l'édifice du parc municipal	Village de Lac Baker	Not completed
Hôtel de ville - Mesures d'efficacités énergétiques	Ville de Dieppe	Completed
Améliorations énergétiques à l'hôtel de ville	Ville de Lamèque	Not completed
Améliorations énergétiques au poste d'incendie	Ville de Lamèque	Not completed
Améliorations énergétiques à la bibliothèque municipale	Ville de Lamèque	Not completed
Hazen Park Centre HVAC System Project	Town of Oromocto	Not completed
Installation de thermostats numériques	Village de Maissonette	Completed
Installation d'un système géothermique à l'Aréna Père-Camille-Léger	Village de Cap-Pelé	Not completed
Système de chauffage et climatisation géothermique à l'édifice municipal	Village de Sainte-Marie-Saint-Raphaël	Not completed
Améliorations aux systèmes de chauffage et d'éclairage de l'aréna	Village de Petit-Rocher	Not completed
Système de chauffage géothermique - Hôtel de ville	Ville de Richibucto	Not completed
Rink Lighting	Village of Port Elgin	Not completed
Pump Houses / Lift Stations - Lighting	Village of Port Elgin	Not completed
Municipal Works Garage – Energy Improvements	Village of Port Elgin	Not completed
Municipal Building – Energy Improvements	Village of Port Elgin	Not completed
Isolation de l'édifice municipal	Village de Pointe-Verte	Not completed

Améliorations énergétiques à l'édifice municipal	Village de Paquetville	Not completed
Installation d'un déshumidificateur à l'aréna	Village de Neguac	Completed
Système de chauffage électrique - Caserne des pompiers/garage municipal	Village de Saint-François	Completed
Solar Heating for the Municipal Pool	Village of Petitcodiac	Not completed
Heat Reclamation Unit for the Ice Surfacers	Village of Petitcodiac	Not completed
Travaux d'amélioration énergétique à l'édifice municipal	Village de Lac Baker	Not completed
Improvement to Municipal Building	Village of Eel River Crossing	Not completed
Installation d'un système géothermique	Village de Cap-Pelé	Not completed
Conference Centre - HVAC System	City of Fredericton	Not completed
Recreation Centre	Village of Riverside-Albert	Not completed
Multipurpose Complex	Village of Grand Manan	Not completed
Energy conservations measures implementation	Village of Meductic	Not completed
Rénovation du bâtiment du puits de la rue Frédéric	Village de Bas-Caraquet	Not completed
Rénovation des bâtiments de station de relèvement	Village de Bas-Caraquet	Not completed
Amélioration à l'édifice municipal	Village de Bas-Caraquet	Completed
Retrofits and Upgrades to Belledune Recreation & Cultural Centre	Village de Belledune	Not completed
Installation de thermostats programmables à l'Édifice municipale	Village de Bertrand	Completed
Office Heating System Conversion	Village of Tide Head	Completed
Améliorations énergétiques à l'aréna et à la piscine municipales	Ville de Tracadie-Sheila	Not completed
Workshop Heating System Conversion	Village of Tide Head	Completed
Arena Energy Saving	Village of Minto	Not completed
Maintenance Building Energy Saving	Village of Minto	Not completed
Well Houses #1 and #2 Renovations	Village of Aroostook	Not completed
Retrofits and Upgrades to Veterans Memorial Centre Arena	Village de Belledune	Not completed
Community Centre Improvements	Village of Canterbury	Not completed
Retrofits and Upgrades to Jacquet River Campground	Village de Belledune	Not completed
Retrofits and Upgrades to Fire Station #1	Village de Belledune	Not completed
Municipal Building Renovations	Village of Aroostook	Completed
Village Office/Call Center Energy Saving	Village of Minto	Not completed

Library Window Replacement	Village of Cambridge-Narrows	Not completed
Municipal Building Energy Retrofit	Village of Cambridge-Narrows	Not completed
Retrofits and Upgrades to Municipal Building / Fire Station 2	Village de Belledune	Not completed
Piste cyclable secteur Saint-Basile et élargissement des voies de circulation de la rue De la Chapelle	Ville d'Edmundston	Not completed
Curb, Gutter & Sidewalk Installation	Village of Sussex Corner	Not completed
Repaving of Ogden Mill Road	Town of Sackville	Not completed
Construction de trottoir - Zone 4 Verret	Ville d'Edmundston	Completed
Sidewalks	Village of Tide Head	Not completed
Intersection de la rue Canada et St-François	Ville d'Edmundston	Not completed
Remise en état de la rue Érable	Village de Drummond	Completed
Resurfaçage des rues Morais et Lanteigne	Village de Bas-Caraquet	Not completed
Reconstruction de la chaussée	Ville d'Edmundston	Not completed
Reconstruction of Racetrack Road	Village of Dorchester	Completed
Repaving of Fairfield Road	Town of Sackville	Completed
Paving of Carriage Court	Town of Sackville	Completed
Upgrading of Boone and Webb Roads	Village of Tracy	Completed
Paving of Fawcett Avenue	Town of Sackville	Completed
Traffic Lights at Main Street and King Street	Town of Woodstock	Completed
Intersection Widening of Broadway Street at Main Street	Town of Woodstock	Completed
Upgrading of Whalen Street and rue de l'Église	Village of Eel River Crossing	Not completed
Resurfacing of School Street	Village of Alma	Not completed
Upgrading of Industrial Street	Village of Eel River Crossing	Completed
Resurfaçage d'une rue	Village de Rogersville	Not completed
Construction d'un dôme	Ville d'Edmundston	Not completed
Reconstruction de la rue Alyre	Ville de Bouctouche	Completed
Sidewalk Construction	Village of Canterbury	Not completed
Construction du chemin de la Petite Côte	Village de Cap-Pelé	Completed
Construction d'une piste cyclable	Ville de Caraquet	Not completed
Roadway Reconstruction	City of Campbellton	Completed
Construction de trottoirs	Village de Sainte-Marie-Saint-Raphaël	Not completed

Construction de nouveaux trottoirs	Ville de Caraquet	Not completed
Resurfaçage - rue McLaughlin	Ville de Bouctouche	Completed
Road upgrades	Village of Fredericton Junction	Not completed
Construction et remplacement de trottoirs	Village de Rogersville	Not completed
Walking Shoulder Construction on Mill Street	Village of Centreville	Not completed
Resurfaçage de rues	Village de Saint-Louis-de-Kent	Not completed
Trottoirs	Village de Saint-Louis-de-Kent	Not completed
Resurfaçage – Chemin Girouardville	Ville de Bouctouche	Completed
Reconstruction of a section of Water Street	Village of Dorchester	Not completed
Réparation d'une route raccourci	Village de Bertrand	Not completed
Aménagement de trottoirs - rue Canada	Ville de Saint-Quentin	Not completed
Upgrading of Municipal Roads	Village of St. Martins	Not completed
South Road Improvements	Village of Doaktown	Completed
Retail Drive	City of Saint John	Completed
Ashburn Lake Road	City of Saint John	Not completed
Repaving of Queen Street	Village of Chipman	Not completed
Construction d'une piste cyclable et d'une voie piétonnière	Village de Bertrand	Not completed
Repaving of Hillcrest Avenue	Village of Chipman	Not completed
Construction of a By-Pass Route for Main Street	Town of Shediac	Completed
Reconstruction du pont de l'ancienne voie ferrée	Village de Saint-François	Completed
Street Resurfacing and Repairs	Village of Blackville	Completed
Réfection de rues	Village de Saint-Léolin	Not completed
Réparation d'intersections	Village de Sainte-Marie-Saint-Raphaël	Not completed
Repaving of King Street	Town of Sackville	Not completed
Amélioration de la rue Paul	Ville de Dieppe	Not completed
Repairs to Sidewalks	Village of Minto	Not completed
Asphaltage de la rue de l'Hôpital et des Saules	Ville de Lamèque	Not completed
Asphalt Concrete Resurfacing No. 1 (2005)	City of Moncton	Completed
Road Reconstruction No. 3 (2005)	City of Moncton	Completed
Road Reconstruction No. 2 (2005)	City of Moncton	Completed
Road Reconstruction No. 1 (2005)	City of Moncton	Completed
Réparation/élargissement du ponceau de la rue Otho	Village de Neguac	Completed

Paving of Chignecto Drive and Bayview Drive	Village of Alma	Not completed
Road Reconstruction No. 1 (2006)	City of Moncton	Completed
Resurfaçage de rues	Village de Nigadoo	Not completed
Asphalt Concrete Resurfacing No. 4 (2006)	City of Moncton	Completed
Paving Local Roads and Sidewalk Repairs	Village of Minto	Not completed
Sidewalk Construction	Village of Norton	Completed
Chip Sealing of Reid Street & Sansom Drive and Resurfacing of Cookson Drive	Village of Millville	Not completed
Amélioration du réseau routier	Village de Memramcook	Not completed
Cliffe Street Transportation Network - Plus Paving	City of Fredericton	Not completed
Resurfacing with chip seal	Village of Meductic	Not completed
Salt Shed	Village of Norton	Not completed
Construction de trottoirs	Village de Maisonnette	Not completed
Amélioration de la surface de roulement des rues	Village de Neguac	Completed
Ryan Reconstruction (2008)	City of Moncton	Completed
Mapleton Road Widening	City of Moncton	Not completed
Road Reconstruction No. 3 (2008)	City of Moncton	Completed
Road Reconstruction No. 2 (2008)	City of Moncton	Completed
Road Reconstruction (2009)	City of Moncton	Not completed
Asphalt Concrete Resurfacing (2009)	City of Moncton	Not completed
Designated Highways - Asphalt Resurfacing & Widening (2009)	City of Moncton	Not completed
Designated Highways - Asphalt Resurfacing (2009)	City of Moncton	Not completed
Designated Highways - Asphalt Resurfacing (2005)	City of Moncton	Completed
Asphalt Concrete Resurfacing No. 1 (2008)	City of Moncton	Completed
Roadway Improvements	Village of Norton	Not completed
Asphalt Concrete Resurfacing No. 2 (2007)	City of Moncton	Completed
Asphalt Concrete Resurfacing No. 1 (2007)	City of Moncton	Completed
Road Reconstruction No. 2 (2007)	City of Moncton	Completed
Road Reconstruction No. 1 (2007)	City of Moncton	Completed
Asphalt Concrete Resurfacing No. 2 (2006)	City of Moncton	Completed
Harrisville Boulevard Improvements (2006)	City of Moncton	Completed
Designated Highways - Asphalt Resurfacing (2006)	City of Moncton	Completed
Asphalt Concrete Resurfacing No. 1 (2006)	City of Moncton	Completed
Asphalt Concrete Resurfacing No. 2 (2008)	City of Moncton	Completed
Main Street Sidewalk and Curb	Village of Plaster Rock	Not completed

Lakeside Road Culvert Renewal	Town of Hampton	Completed
Pedestrian Crossing	Town of Hampton	Completed
Waasis Road Sidewalk/Bicycle Path	Town of Oromocto	Not completed
Construction de trottoirs sur la partie ouest de la rue des Fondateurs	Village de Paquetville	Not completed
Walking Trails	Village of Norton	Completed
Bike Network - Asphalt	Town of Grand Falls	Completed
West Main Street	Village of Petitcodiac	Completed
Roadway Upgrading - Kennebecasis River Road	Town of Hampton	Not completed
Paving of Sunrise Lane	Village of Plaster Rock	Completed
Traffic Lights	Town of Hampton	Not completed
Sidewalk on Main St. (Route 134)	Village of Rexton	Not completed
Resurfacing Beattie Street	Village of Rexton	Not completed
Reconstruction de la rue Parc et ajout d'une piste cyclable	Ville de Richibucto	Not completed
Reconstruction of a portion of Tilley Road	Village of Gagetown	Completed
Traffic Enhancement Associated with Conference Centre	City of Fredericton	Not completed
Cliffe Street Off Ramps - Westmorland Street Bridge	City of Fredericton	Not completed
Knowledge Park Drive Roadway & Traffic Decongestion Project	City of Fredericton	Not completed
Réparation de la rue Lizotte	Village de Rivière-Verte	Not completed
Reconstruction de trottoirs	Village de Grande-Anse	Not completed
Asphaltage de rues	Village de Kedgwick	Not completed
Sidewalk Repairs on Rockland Road - Phase 1	Town of Hartland	Not completed
Aménagement d'un pont pour piétons, bicyclettes, véhicules tout-terrain et motoneiges	Village de Kedgwick	Completed
Park and Ride	Town of Hampton	Completed
Achat d'autobus	Ville de Dieppe	Not completed
Bus Shelters	City of Miramichi	Not completed
Commuter Parking Lot and Access Road	Village of Norton	Completed
Chlorine Analyzer Alarm System	Village of Aroostook	Not completed
Plan d'action pour un approvisionnement durable en eau potable	Village de Baker-Brook	Not completed
Pistes cyclables - Étude de délinéation	Village de Cap-Pelé	Completed
Infrastructure Master Plan Development	Village of Atholville	Not completed
Étude de la lagune	Village de Cap-Pelé	Completed

Millar Avenue Well Design	City of Miramichi	Not completed
Amélioration du réseau d'égout sanitaire du secteur Saint-Jacques - Phase I	Ville d'Edmundston	Not completed
Water Source Identification Study	Village of Aroostook	Not completed
Kings Arrow Arena and Community Centre – Life Cycle Audits	Town of Oromocto	Completed
Infrastructure Master Plan Development	Village of Eel River Crossing	Not completed
Rue de l'École – Étude visant l'élimination des eaux pluviales dans le système d'égout sanitaire	Village de Rogersville	Not completed
Amélioration de l'approvisionnement en eau - Phase I	Village de Rivière-Verte	Not completed
Développement d'un plan maître des infrastructures	Village de Kedgwick	Not completed
Analyse du système d'égout	Village de Petit-Rocher	Not completed
Évaluation du système d'égout sanitaire	Village de Neguac	Completed
Strategic Plan	Village of Harvey	Not completed
Assessment of Water Supply	Village of Harvey	Not completed
Analysis of the Sewage Treatment System	Village of Harvey	Not completed
Exploration d'un nouveau puits	Ville de Bouctouche	Not completed
Open Space Plan	Town of Oromocto	Not completed
Amélioration de l'approvisionnement en eau - Phase II	Village de Rivière-Verte	Not completed
Étude pour un nouveau puits	Village de Drummond	Not completed
Amélioration de l'approvisionnement en eau potable	Ville d'Edmundston	Completed
Étude technique pour la construction d'égout sanitaire	Village de Memramcook	Completed
Survey of Lagoon Facility	Village of Hillsborough	Completed
Nouvelle source d'eau	Village de Bas-Caraquet	Not completed
Integrated Community Sustainability Plan	Town of Hampton	Not completed
Oromocto Arts and Learning Centre, Fire Hall, and 68 Miramichi Rd. – Energy Efficiency Audits	Town of Oromocto	Not completed
Water Quality Study	Town of St. Stephen	Completed
Recherche en eau potable	Village de Memramcook	Not completed

APPENDIX C: New Brunswick Unincorporated Areas Project Status

Project Name	Location	Status
Penobsquis Regional Water Supply	Penobsquis	Not completed
Chemin St-Simon Water Distribution	Saint-Simon	Not completed
Chateau Heights Water System	Estey's Bridge LSD	Not completed
Salmon Rock Subdivision - Water System Replacement	Westfield LSD	Not completed
St. Margarets Water System Upgrades	St. Margarets LSD	Not completed
Point La Nim Water Distribution System	Point La Nim LSD	Not completed
Spring Garden Subdivision - Sanitary Sewer and Wastewater Treatment Facility	Boundary Creek	Not completed
Ben Lomond Estates Wastewater Treatment Facility	Ben Lomond	Not completed
Allardville Wastewater System Upgrade and Extension	Allardville LSD	Not completed
Scoudouc Wastewater Collection & Lagoon Expansion	Scoudouc LSD	Not completed
Greater Shediac Trunk Sewer Upgrade	Greater Shediac Area (LSD part)	Not completed
Gillies Subdivision - Wastewater System	Lincoln LSD	Not completed
John Street (Dalhousie Junction LSD) Wastewater System Replacement	Dalhousie Junction LSD	Not completed
Pont-Landry Wastewater Collection System	Pont-Landry LSD	Not completed
Étude et construction d'un système de collection et traitement des eaux usées pour la région de Robertville	Robertville LSD	Not completed
Havelock Wastewater System	Havelock LSD	Not completed
Birchwood Estates - Water and Wastewater System Replacement	Hanwell LSD	Not completed
Apohaqui Sewerage Treatment Facility Upgrade	Sussex LSD	Not completed
Scoudouc Industrial Park – Direct Access to Route 15	Scoudouc LSD	Not completed
Integrated Community Sustainability Plans	Province Wide	Completed
Pointe-du-Chêne – Flooding and Well Contamination Study	Pointe-du-Chêne LSD	Not completed
Caissie Cape Wastewater System Preliminary Design	Caissie Cape	Not completed
Véloroute de la Péninsule acadienne	Péninsule acadienne	Completed
Beaubassin East Rural Community Sanitary Sewer Study	Beaubassin East	Completed
Blacks Harbour and Beaver Harbour Water Exploration Study	Beaver Harbour LSD	Not completed

Plan d'infrastructure - Gestion des matières recyclables pour le nord-est du N.-B.	Nepisiguit-Chaleur Region	Not completed
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