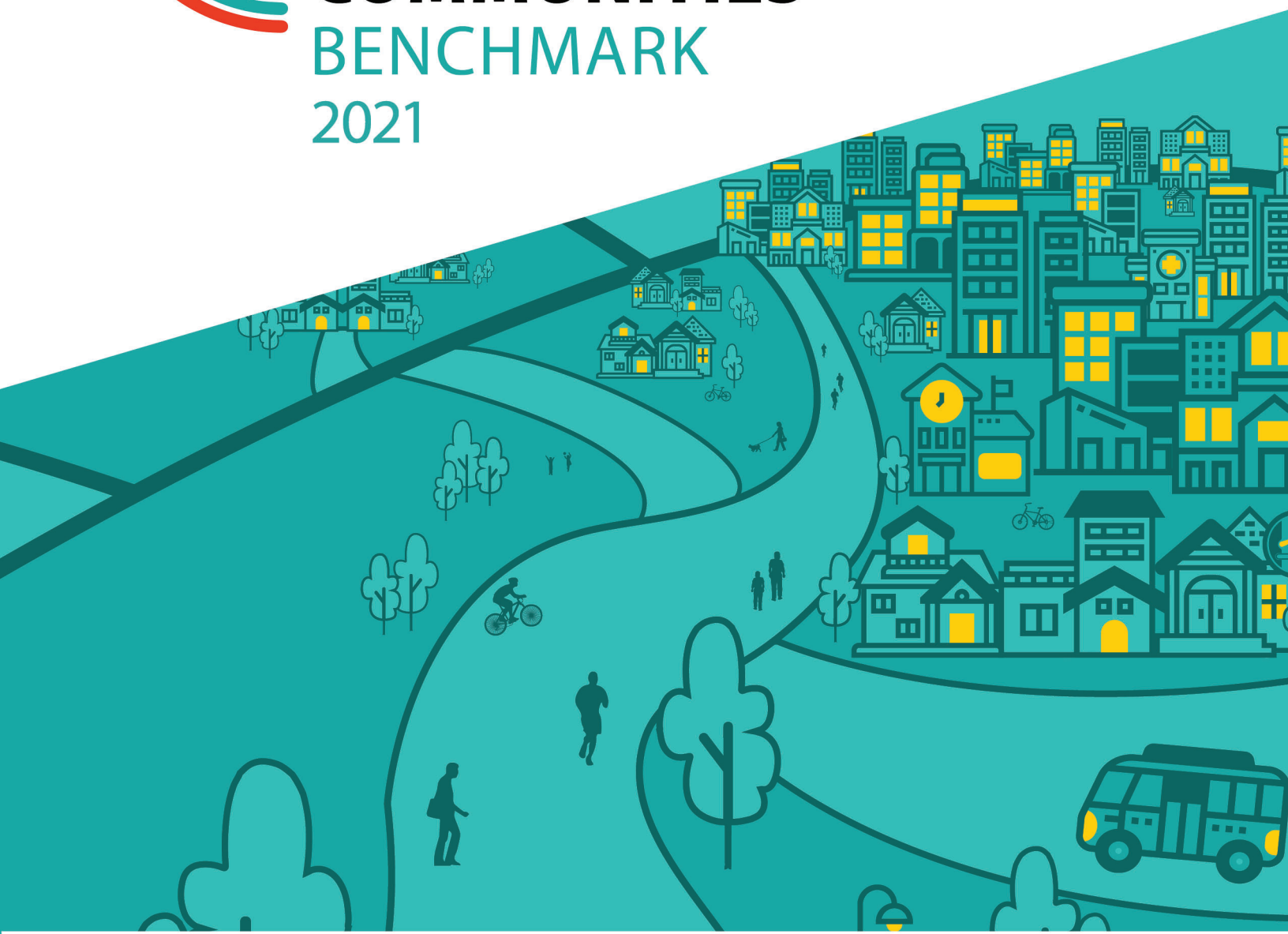
QUEST

SMART ENERGY COMMUNITIES BENCHMARK 2021



TOWN OF FLORENCEVILLE-BRISTOL

Your Environmental Trust Fund at Work

New Nouveau Brunswick

TABLE OF CONTENTS

Town of Florenceville-Bristol, New Brunswick

Introduction:

This Smart Energy Community Benchmark Report was prepared by QUEST for the Town of Florenceville-Bristol, as part of a project funded by the NB Environmental Trust Fund. This document identifies local strengths and potential opportunities, and can be used to update your scoring year after year.

Key Recommendations / Identified Priorities:

Governance

1. Establish a multi-sectoral entity of community leaders (community leadership team or committee) around a common agenda to promote and facilitate community energy goals/implementation, and foster partnerships. Invite community leadership team members to actively participate, and implement actions within their own organizations to promote Smart Energy Community goals/implementation. Hold regular / quarterly meetings with the leadership team.
2. Consider participating or presenting at events, or facilitate knowledge sharing with members from outside of the community.

Staff

3. Increase internal staff capacity with FCM or NB ETF funding, or by partnering with an external organization/staffing resource, or by accessing an embedded energy manager (if available through the utility). Consider establishing a regional energy coordinator in partnership with neighboring communities in the region.
4. Increase access to training on energy efficiency / community energy initiatives, for more municipal staff.
5. Ensure succession plan for staff with roles related to the Community Energy Plan.

Data

6. Developed detailed implementation strategy of actions in the CEP, and key performance indicators. Collect data on an annual basis.
7. Ensure transparency about the corporate and community GHG inventory methodology and results, make it public. Improve the GHG inventory over time, with a higher level of detail, such as organization by building typology, transportation type, waste streams, and other uses as applicable (such as agriculture, land use change, or industrial processes).
8. Consider undertaking an energy mapping exercise to identify local energy priorities and opportunities.
9. Consider developing an energy model, which incorporates scenarios for both supply and demand of energy.

Financial

10. Consider reinvesting savings from energy efficiency projects into a revolving fund for Town operations including further efficiency measures. Consider additional financial vehicles such as operating budget allocations, or energy performance contracts.
11. Create a transparent and publicly available assessment of financing mechanisms (to offer or to take advantage of)
12. Access funding from upper-levels of government or the FCM, or utility incentives, to advance energy efficiency or active transportation measures.

Note: stay informed of new opportunities, including community efficiency financing programs.

Strategy

13. Provide an annual update and conduct regular public engagement and education initiatives, and outreach to new participants. This includes the public, developers, and other key stakeholders. Also provide weekly or monthly tips for energy efficiency, active transportation, waste reduction, etc.
14. Conduct/Obtain economic impact assessment of Community Energy Plan / initiatives, in order to provide Council and the community with the value proposition for pursuing key initiatives. Furthermore, conduct assessment of specific community energy initiatives (technical/financial) where needed.
15. Establish a schedule for renewal of community energy initiatives and the broader community energy plan or strategy (e.g. no later than target year).
16. Consider how community energy initiatives can address socioeconomic considerations (such as social housing or energy poverty).

Land Use

17. Engage the public on land use-energy impacts through innovative methods, such as:
- Highly creative or interactive web-based reporting
- Highly creative or interactive open houses or participation at community events
- Advanced social media/networking
- Embedded videos
- Innovative stakeholder feedback mechanisms
- Interactive workshops
- Tables/participation at community events
- School promotion

18. Adopt energy efficiency performance standards for existing and/or new corporate buildings and for new developments.

Energy Networks

19. Engage the public on energy networks through innovative methods, such as:
- Highly creative or interactive web-based reporting
- Highly creative or interactive open houses or participation at community events
- Advanced social media/networking
- Embedded videos
- Innovative stakeholder feedback mechanisms
- Interactive workshops
- Tables/participation at community events
- School promotion

20. Implement and track peak shaving measures and share results with relevant stakeholders, lessons learned identified and documented.
21. Conduct an assessment/study of alternative fuel or EV charging opportunities (based on location, CEP, impact to electric and/or gas grids, costs, etc.). Expand EV charging in the community and look at opportunities for funding from Green Municipal Fund. Share results of projects with the community, with lessons learned identified and documented.

Water and Waste

22. Engage the public on water/wastewater conservation and on waste management through innovative methods, such as:
- Highly creative or interactive web-based reporting

- Highly creative or interactive open houses or participation at community events
- Advanced social media/networking
- Embedded videos
- Innovative stakeholder feedback mechanisms
- Interactive workshops
- Tables/participation at community events
- School promotion

23. Ensure landfill diversion programs are in place for reducing landfill waste including:
- Garbage bag collection tags/limits or tipping fee
- Plastic bag bans
- Re-use or community swap days
- Compost Bin Discount Program

Note: Consider lobbying regional waste commission to convert waste to energy (if feasible)

24. Ensure programs are in place for improving non-residential waste diversion such as:
- Recognition for high performers
- Expanding recycling or organic waste programs to include eligible ICI or CRD waste
- Consider implementing a plastic bag ban

25. Integrate and report savings (from water conservation, stormwater management, and waste diversion) into the community energy planning process.

26. Implement a program to promote potable or non-potable water reuse. Promote Rain Barrels through a discount program.

Transportation

27. Engage the public on mobility networks through innovative methods, such as:
- Highly creative or interactive web-based reporting
- Highly creative or interactive open houses or participation at community events
- Advanced social media/networking
- Embedded videos
- Innovative stakeholder feedback mechanisms
- Interactive workshops
- Tables/participation at community events
- School promotion

28. Undertake mapping of your active transportation network and its relation to other mobility options.

29. Consider implementing Anti-Idling bylaw for municipal fleet, or a policy for the community at large / zones within the community. This can include improvements to vehicles (e.g. block heaters), or amenities (warming shelters).

30. Consider establishing alternative car-transportation programs to reduce single-occupancy vehicle travel, including:
- Carsharing programs
- Carpooling programs/lots
- Ride Sharing programs

31. Support transportation demand management, active transportation and alternative fuel vehicles at some/all facilities, such as:
- Bike lanes
- Public tire pumps
- Carpooling incentives

- Electric vehicle charging stations for employee/student or public use
32. Conduct a feasibility study for alternative fuel vehicles, and develop a green fleet vehicle pilot project or procurement policy.

Buildings
33. Engage the public on energy use / energy efficiency in single family homes, multi-unit residential, commercial, or other buildings, through innovative methods, such as:
- Highly creative or interactive web-based reporting
- Highly creative or interactive open houses or participation at community events
- Advanced social media/networking
- Embedded videos
- Innovative stakeholder feedback mechanisms
- Interactive workshops
- Tables/participation at community events
- School promotion
34. Establish a corporate process to improve energy efficiency, including through energy standards/certifications and a schedule for regular recommissioning, in existing corporate facilities. Noted: heat conversion and efficiency improvements being made/completed at Town Hall, Community Hall, Arena, Library and Gallery.
35. Establish a process to procure local/renewable heat/electricity for corporate facilities.
36. Adopt benchmarking, labelling and disclosure system for corporate-owned facilities.
37. Consider energy performance requirements for new buildings, as part of the permitting process, and encourage benchmarking and public disclosure of energy performance by private sector building owner/operators. Track the number of privately owned/operated buildings who achieve high energy performance, and/or who use local/renewable heat and electricity.

On the next few pages you will find the results of the scoring and notes compiled.

1.1 Governance

Community Score: 8.5 / 11.5 (74%)

1.1.1. A community energy leadership team to co-govern community energy initiatives		
Scoring: Checklist		
A multi-sectoral entity of community leaders (**community leadership team**) is formed around a common agenda to promote and facilitate community energy goals/implementation, and foster partnerships.	[1 point]	
The community leadership team members **actively participate, and implement actions** within their own organizations to promote SEC goals/implementation.	[1 point]	
Regular meetings between the leadership team occur.	[0.5 point]	½
An organization and/or individual acts as **secretariat** for the leadership team, and lead and coordinate community engagement.	[1 point]	✓

NOTES:

The Administrative Officer is the lead for implementing the plan, coordinating with other staff, and reporting to Council. The CAO has regular meetings with internal leadership team (for all corporate/community actions). All general CAO duties are outlined in a By-law respecting the authority and responsibilities of the Chief Administrative Officer (CAO): https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_a2965a22f9624422bd11f13ef4a9c9da.pdf

1.1.2a. Cross-departmental coordination within the local government		
Scoring: Checklist		
Regular meetings occur, with relevant departments, **within the local government.**	[1 point]	✓
A **clear mandate exists** for all relevant departments such as through an Official Community Plan and/or Strategic Plan.	[2 points]	✓✓

NOTES:

The Strategic Plan vision includes a sustainable community where municipal services are delivered in a ... efficient manner, and where residents enjoy a high quality of life. Strategic goals that are addressed through community energy plan and initiatives include: Business Development and attraction, ensuring sufficient finances to maintain services/infrastructure, improving efficiency of assets, and improving communication with the public, among others. See Strategic Plan: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_0a69b83955c24374ac0ee04396d84a46.pdf Environment and Climate change is a priority, and health and education, and will be in Strategic Plan in 2021 and forward. Also in the Operational Plan (for CAO).

1.1.2b. Strategic alignment within the local electric utility		
Scoring: Checklist		
Meetings between relevant departments occur **within the electric utility on a project-to-project basis** as they relate to community energy initiatives.	[1 point]	✓
Participation in, and support for, community energy initiatives is seen as a **strategic priority within the electric utility**.	[2 points]	✓✓

NOTES:

NB Power's community energy initiatives come in many forms: adding public EV charging networks to a community, helping municipalities to make their buildings and operations more energy efficient by participating in energy efficiency programs, as well as opportunities for renewable generation through competitive programs such as the Community Energy Program, LORESS and Embedded Generation. Some of these programs and services are offered on an ongoing, regular basis while others are offered as needed. Departments involved in offering these products, services and programs include but are not limited to: Customer Energy Solutions, Energy Smart NB, Strategic Planning, Operations, and many more! NB Power is in the process of developing a Community Energy Strategy. This will include an overview of the products, services, and programs available to municipalities, and how NB Power can better meet the needs of municipal customers.

1.1.2c. Strategic alignment within the local natural gas utility		
Scoring: Checklist		
Meetings between relevant departments occur **within the natural gas utility on a project-to-project basis** as they relate to community energy initiatives.	[1 point]	**N/A**
Participation in, and support for, community energy initiatives is seen as a **strategic priority within the natural gas utility**.	[2 points]	**N/A**

NOTES:

1.1.3. Knowledge sharing with other communities		
Scoring: Scale		
Representative(s) from the community leadership team has **presented** in events or led/facilitated knowledge sharing groups that involves members from outside of the community.	[2 points]	
Representative(s) from the community leadership team has **attended or participated** in events or knowledge sharing groups that involves members from outside of the community.	[1 point]	↑

NOTES:

A representative (Administrative Officer who leads the implementation of the Plan) participates on the NB-PEI Municipal Working Group, for peer-to-peer knowledge exchange, learning opportunities, etc, with participants from other communities in NB and PEI.

1.2 Staff

Community Score: 6 / 15 (40%)

1.2.1a. Local government staff resources tasked with managing community energy initiatives		
Scoring: Scale		
The local government has **equal to or greater than 3 FTE staff** tasked with applying an energy lens to community initiatives and overseeing specific community and corporate energy initiatives.	[3 points]	N/A
The local government has **1-2 FTE staff** tasked with applying an energy lens to community initiatives and overseeing specific community and corporate energy initiatives.	[2 points]	⇑
The local government has **greater than 0.25, but less than 1 FTE staff** tasked with applying an energy lens to community initiatives and overseeing specific community energy initiatives.	[1 point]	

NOTES:

Town works with WWF and consultants (with NB ETF) to do climate change action. The CAO, and staff from relevant departments (public works, administrative services), include an energy lens with new corporate and community initiatives and public awareness of programs. In total, this would be equivalent to 1 to 2 FTE.

1.2.1b. Community energy staff position support		
Scoring: Scale		
There is an **embedded community energy manager program or cost-sharing agreement** for staff person(s) with split-accountability dedicated to working on community energy initiatives.	[2 points]	
There is an **external staffing resource** within the community to support the coordination of community energy initiatives.	[1 point]	

NOTES:

The Town uses FCM and NB ETF funding, to support WWF and others on climate action. May look at sharing a resource with neighboring community (Perth Andover), but there is currently no program for community energy staff support and no specific external staffing resource or embedded energy manager. NB Power stated it is currently working with QUEST to develop a program of this nature.

1.2.1c. Electric utility has staff resources tasked with supporting and engaging with community energy		
Scoring: Scale		
The electric utility has a dedicated **single point of contact** engaging directly with the municipality or other community leaders.	[3 points]	
The electric utility has equal to or **greater than 1 FTE staff** tasked with supporting and engaging with community energy initiatives.	[2 points]	⇑
The electric utility has **greater than 0.25, but less than 1 FTE staff** tasked with supporting and engaging with community energy initiatives.	[1 point]	

NOTES: (next page)

NB Power has a full-time Community Energy Specialist, who helps connect municipalities to relevant products/services and programs available through NBP to support their initiatives. In general, Municipalities have the support of their Account Manager for general advice, account inquiries or access to historical energy consumption, as well as walk-through of buildings. Several NB Power Energy Advisors and program support staff help municipalities to participate in Energy Efficiency programs, and help align their initiatives with NB Power services and incentives, including low carbon economy funding. Product Managers work with municipalities on everything from LED street lighting to public EV charging stations. Mayors and Council have a line to NB Power via our Director of Government Relations to discuss strategic initiatives at a more senior level. NB Power is developing a community engagement strategy to better service customers, and their unique needs. Looking at sub-classes (rates) for different types of customers, including for municipalities. This would affect the access/services for municipalities (for energy efficiency). Utility also has an opportunity to augment on team response to municipal needs.

1.2.1d. Natural gas utility staff resources tasked with supporting and engaging with community energy		
Scoring: Scale		
The natural gas utility has a dedicated **single point of contact** engaging directly with the municipality or other community leaders.	[3 points]	N/A
The natural gas utility has equal to or **greater than 1 FTE staff** tasked with supporting and engaging with community energy initiatives.	[2 points]	N/A
The natural gas utility has **greater than 0.25, but less than 1 FTE staff** tasked with supporting and engaging with community energy initiatives.	[1 point]	N/A

NOTES:

1.2.2a. Local government support for community energy management staff education	
Scoring: Scale	
Staff involved in community energy initiatives participate in **more than 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[3 points]
Staff involved in community energy initiatives participate in, on average, **1 to 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[2 points]
Staff involved in community energy initiatives participate in, on average, **1** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[1 point]

NOTES:

CAO has participated in training, however, to date other staff have yet to access training on community energy (delayed due to COVID-19).

1.2.2b. Building inspector staff education		
Scoring: Checklist		
The local government has a **process for educating building inspectors** on energy efficiency policies to ensure effective enforcement.	[2 points]	N/A

NOTES:

Building Inspector is a contract position (external). They are also a construction management firm with knowledge of building codes, and training on energy efficiency. The Building By-law and the duties and powers of Building Inspector, are here: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_634f8e17f70d4e528daad6d15e51f8fb.pdf

1.2.2c. Electric utility support for staff education related to community energy		
Scoring: Scale		
Staff involved in community energy initiatives participate in **more than 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[3 points]	
Staff involved in community energy initiatives participate in, on average, **1 to 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[2 points]	⇑
Staff involved in community energy initiatives participate in, on average, **1** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[1 point]	

NOTES:

NB Power offers a variety of workshops every year, including the Energy Efficiency conference which contains modules available to both employees and attendees from other organizations to better understand Community Energy Plans and other areas of interest to municipalities. Energy Advisors within NB Power are continually expanding their expertise through memberships in organizations such as the Green Building Council, the Smart Energy Consumer Collaborative, the Association of Energy Engineers, and much more! Many of our Energy Advisors are Engineers and/or Certified Energy Managers which requires ongoing training to maintain certifications. Staff attend training on technology specific integrations (e.g. arena technologies, solar technologies etc). Employees in these areas are continually expanding their knowledge and skills to better support customers – such as municipalities – to implement their energy management and energy reduction projects. Community Energy Specialist also participates in community-based workshops on community energy planning.

1.2.2d. Natural gas utility supports for staff education related to community energy		
Scoring: Scale		
Staff involved in community energy initiatives participate in **more than 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[3 points]	N/A
Staff involved in community energy initiatives participate in, on average, **1 to 4** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[2 points]	N/A
Staff involved in community energy initiatives participate in, on average, **1** educational or training sessions per staff personnel per year relating to aspects of community energy initiatives.	[1 point]	N/A
NOTES:		

1.2.3. Succession planning for staff roles managing and supporting community energy initiatives		
Scoring: Checklist		
There is a program or strategy in place to facilitate succession of **local government staff** managing community energy initiatives.	[1 point]	
There is a program or strategy in place to facilitate succession of **electric utility staff** supporting and engaging with community energy initiatives.	[1 point]	
There is a program or strategy in place to facilitate succession of **natural gas utility staff** supporting and engaging with community energy initiatives.	[1 point]	**N/A**
NOTES:		
At present, Clerk position can be backfilled, but Town would have to recruit in mid-term for CAO or key staff.		

1.3 Data

Community Score: 14 / 23 (61%)

1.3.1a. Electric utility commitment to sharing data		
Scoring: Scale		
A **standardized process** is in place for requesting and sharing data, including appropriate contact persons, application and release documents, and estimated timelines.	[3 points]	
A **standardized format** for community energy data has been established for sharing data.	[2 points]	
Requests for data and information are addressed in an **ad-hoc** fashion.	[1 point]	↑
NOTES:		

NB Power Customer Service Infrastructure Team is able to provide municipalities with their historical corporate energy profiles, as well as aggregate level data at the community level for residential and commercial customer classes within their municipality. Provided that the data requirements are clearly defined, it typically takes ~3-4 weeks from the date of request to generate the reports.

1.3.1b. Natural gas utility commitment to sharing data		
Scoring: Scale		
A **standardized process** is in place for requesting and sharing data, including appropriate contact persons, application and release documents, and estimated timelines.	[3 points]	N/A
A **standardized format** for community energy data has been established for sharing data.	[2 points]	N/A
Requests for data and information are addressed in an **ad-hoc** fashion.	[1 point]	N/A
1.3.2a. Community energy inventory and reporting		
Scoring: Checklist		
A basic **community energy or GHG inventory has been completed** that includes energy use or emissions from residential, institutional, commercial, industrial, transportation, and solid waste sectors.	[1 point]	✓
The **community inventory includes a high level of detail**, such as organization by building typology, transportation type, waste streams, and other uses as applicable (such as agriculture, land use change, or industrial processes). This may also include organization by energy spending.	[1 point]	
A **community energy or GHG target has been established and approved**.	[1 point]	✓
Realistic evidence-based (as opposed to aspirational), sector-specific **community targets have been established and approved**.	[1 point]	✓
A **timeline for inventory renewal is clear**.	[1 point]	✓
Inventory methodology and results are transparent and publicly available, such as through methodology documents, inventory reports and/or lessons learned documented.	[1 point]	

NOTES:

A community energy and GHG inventory has been completed (includes all sectors), a target has been approved based on sector-specific actions, with a timeline for implementation and inventory renewal. The inventory, targets, and action plan are contained in one document, here: https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing

1.3.2b. Local government corporate energy inventory and reporting		
Scoring: Checklist		
A **basic corporate energy or GHG inventory has been completed** that includes energy use or emissions from corporate owned buildings, street lighting, water and wastewater treatment, municipal fleet, and corporate and/or community solid waste.	[1 point]	✓
A **corporate energy or GHG target has been established and approved**.	[1 point]	✓
Realistic, evidence-based (as opposed to aspirational) **corporate target(s) have been established and approved**.	[1 point]	✓
A **timeline for inventory renewal is clear**.	[1 point]	✓
Inventory methodology and results are transparent and publicly available, such as through methodology documents, inventory reports and/or lessons learned documented.	[1 point]	

NOTES: (next page)

A corporate energy and GHG inventory has been completed (includes all sectors), a target has been approved based on sector-specific actions, with a timeline for implementation and inventory renewal. The inventory, targets, and action plan are contained in one document, here: https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing

1.3.2c. Electric utility corporate inventory and reporting		
Scoring: Checklist		
Corporate energy or sustainability inventory/report has been completed that includes energy use or GHG emissions from utility operations.	[1 point]	✓
The **corporate inventory/report includes a high level of detail**, such as organization by community boundaries or facilities, and/or other aspects of environmental management (such as water and waste).	[1 point]	
Corporate energy or sustainability targets have been established.	[1 point]	✓
Timeline for inventory/report renewal is clear.	[1 point]	✓
Report methodology are transparent and publicly available, and/or are aligned with existing reporting initiatives such as Global Reporting Initiative (GRI), Canadian Electricity Association (CEA) Sustainable Electricity Program, Carbon Disclosure Program (CDP), etc.	[1 point]	

NOTES:

NB Power reports on its emissions annually, not by facility. NB Power has a goal to maintain a minimum of 40% of electricity generation from renewable energy sources, and a minimum of 75% of generation from non-emitting sources. In 2019-20, NB Power achieved 44% of generation from renewables, with 80% of it's generation coming from non-emitting sources. More info: https://www.nbpower.com/media/1489943/2019-20_annual_report_en.pdf The IRP mentions our sustainability goals, a profile of energy generation by type, and overall GHG emissions, as well as the Energy Smart Plan for NB: https://www.nbpower.com/media/772015/nb-power-2017-irp-public-english.pdf

1.3.2d. Natural gas utility corporate inventory and reporting		
Scoring: Checklist		
Corporate energy or sustainability inventory/report has been completed that includes energy use or GHG emissions from utility operations.	[1 point]	**N/A**
The **corporate inventory/report includes a high level of detail**, such as organization by community boundaries or facilities, and/or other aspects of environmental management (such as water and waste).	[1 point]	**N/A**
Corporate energy or sustainability targets have been established.	[1 point]	**N/A**
Timeline for inventory/report renewal is clear.	[1 point]	**N/A**
Report methodology are transparent and publicly available, and/or are aligned with existing reporting initiatives such as Global Reporting Initiative (GRI), Canadian Electricity Association (CEA) Sustainable Electricity Program, Carbon Disclosure Program (CDP), etc.	[1 point]	**N/A**

NOTES:

1.3.3. Climate hazard assessments

Scoring: Checklist

The community has an **assessment of climate-related hazards and risks** that exist, and are predicted into the future, within the community. This includes Traditional Ecological Knowledge and/or scientific information related to climate change.	[1 point]	✓
The community has **ongoing environmental monitoring programs** in place to report on climate hazards.	[0.5 point]	½
The community has **identified opportunities and actions to adapt and improve resilience to climate risks**, such as through a climate resilience plan or strategy.	[0.5 point]	½

NOTES:

The Town recognizes its responsibility and role to help fight climate change and is integrating sustainable community-building practices through the Municipal Plan (P.31-33) and accompanying Zoning Bylaw. The town strives to create resiliency within the community and help protect residents and natural habitats from severe weather and climate-related events. In 2017, WWF-Canada released a Community Climate Change Vulnerability Assessment for communities in the St. John River watershed, including for Town of Florenceville-Bristol. It was acknowledged by the Town that certain areas within Town boundaries are susceptible to flooding and have the potential to become high risk in coming years. The Town intends to adopt a responsible growth pattern, account for climate change in land use practices (restrict development in areas that are sensitive to riverfront flooding or pluvial flooding), and invest in appropriate stormwater management practices to mitigate impacts of pluvial / flood events, including open space designation, retention and detention ponds, grassed swales, vegetation, etc. Floodplains and Riparian buffers are also identified, in order to restrict development. The Town also supports / will consider sustainable building practices that include natural stormwater management practices. Also completed a municipal natural assets initiative with WWF, and took a subdivision, to look at erosion in the Saint John River, and looked at building natural asset above the subdivision to alleviate flood risk - at lower cost than a stormwater system. Updating Municipal Plan to include natural assets zoning bylaw, subdivision bylaw, etc.

1.3.4. Energy mapping

Scoring: Checklist

Community undertakes an **energy mapping exercise** to identify local energy priorities and opportunities.	[1 point]	
A **climate hazard map layer has been integrated** into the energy mapping process.	[0.5 point]	N/A
Municipal and/or utility **infrastructure and asset management planning has been integrated** into the energy mapping process.	[0.5 point]	N/A
A community-informed map layer of **social acceptance for community energy initiatives has been integrated** into the energy mapping process.	[0.5 point]	N/A

NOTES:

No energy mapping undertaking todate. If QUEST's SEC Accelerator Program is launched, this may be undertaken in 2020-2021.

1.3.5 Energy scenario modelling		
Scoring: Checklist		
An **energy model has been completed**, which incorporates scenarios for both supply and demand of energy.	[1 point]	
Energy modelling includes multi-stakeholder considerations such as major energy users and suppliers, energy distribution infrastructure constraints, and/or how costs and benefits are distributed throughout the community.	[0.5 point]	**N/A**
Assumptions and methodologies in energy modelling are transparent and readily accessible.	[0.5 point]	**N/A**
Outputs from energy modelling are presented in a digestible way, such as through infographics or one-pagers.	[0.5 point]	**N/A**

NOTES:

No energy scenario modelling undertaken to date.

1.4 Financials

Community Score: 19 / 23 (83%)

1.4.1. Assessment of financial mechanisms and funding		
Scoring: Checklist		
A **transparent and publicly available assessment of financing mechanisms** (to offer or to take advantage of) has been completed.	[1 point]	✓
Assessment of financial mechanisms includes **considerations of a variety of ownership models**.	[1 point]	
Assessments of financial mechanisms includes **considerations of social equity**, such as access by financially underserved populations.	[1 point]	

NOTES:

The Town prepared a list of sources of funding / financial mechanisms, for corporate, individual and community actions, which will be posted on the website this year (2020). The Town has a Community Grant Policy (application process) : https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_e5ccb111fe834fcdb9c22e97f2e183a2.pdf and a Planning and Development Grant Policy (application process): https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_8937f8758ecc45a7a4b8340f8345e7c3.pdf for new commercial developments that benefit the town including benefitting the environment (based on Council priorities). They also have a Beautification Grant Policy, which may allow for up to $750 toward cost of replacing windows, doors, and siding https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_43f25684b5684919ae68e043deb0bbd4.pdf

1.4.2. Financial mechanisms for local government corporate energy initiatives		
Scoring: Scale		
The local government is **committed to funding corporate energy initiatives** through financial vehicles such as operating budget allocation, revolving funds, or energy performance contracts.	[3 points]	
The local government has funded corporate energy initiatives through **ad-hoc capital budget allocation(s)**.	[2 points]	⇑
The local government has funded corporate energy initiatives through **grants from upper-levels of government or utility incentives**.	[1 point]	

NOTES:

To date, the Town of Florenceville-Bristol has used Federal, Provincial, and municipal funds for any initiatives they have. Municipal funding can be operational budget (replacing streetlights), or ad-hoc capital budget allocations.

1.4.3. Fees to address automobile congestion		
Scoring: Checklist		
The local government implements **parking charges**.	[1 point]	**N/A**
The local government (or regional government) **implements road tolls/congestion charges**.	[1 point]	**N/A**

NOTES:

no congestion in town.

1.4.4. Funding for active transportation infrastructure		
Scoring: Scale		
The local government is **committed to funding active transportation** infrastructure through operating budget allocation.	[3 points]	⇑
The local government funds active transportation infrastructure through **ad-hoc capital budget allocation(s)**.	[2 points]	
The local government funds active transportation infrastructure through **grants from upper-levels of government or utility incentives**.	[1 point]	

NOTES:

Local Engineering Firms (on contract to Town) are looking at pedestrian (sidewalk) connectivity, where to make improvements. NB Trail goes through town. This summer, the Recreation department is looking to add more trails (through operational budget and ad-hoc capital budget allocations). Active transportation needs are looked at during ongoing road upgrades and maintenance.

1.4.5. Financial levers for densification		
Scoring: Scale		
The local government has aligned or incorporated **more than 1** financial lever to support densification.	[2 points]	N/A
The local government has aligned or incorporated **at least 1** financial lever to support densification.	[1 point]	↑

NOTES:

Planning Development Grant can provide support for new developments that support Town priorities / benefit the town. Municipal Plan and Zoning Bylaw support densification.

1.4.6a. Incentives for energy initiatives in new buildings		
Scoring: Checklist		
Incentives exist for energy initiatives in new **single family residential** units.	[1 point]	✓
Incentives exist for energy initiatives in new **multi-unit residential, commercial, and/or mixed-use** buildings.	[1 point]	✓

NOTES:

NB Power offers an incentive program for new homes built with electricity that are designed to use at least 50% less energy than code. https://www.saveenergynb.ca/en/save-energy/residential/new-home-energy-savings-program/ There are also incentives for new commercial, but not specifically multi-unit residential

1.4.6b. Retrofit program for existing single family residential building stock		
Scoring: Checklist		
Community program exists to help homeowners conduct **energy audits** or evaluate feasibility of energy efficiency retrofits of existing single family residential units.	[1 point]	✓
Incentives exist for energy efficiency retrofits of existing single family residential units.	[1 point for simple retrofit *or* 2 points for deep retrofit]	✓✓
Repayment mechanisms exist for energy efficiency retrofits of existing single family residential units.	[1 point]	
Community retrofit programs (audits, simple and deep energy retrofits) are delivered in a **streamlined system** to support building owners and tenants with retrofit programs, including financial incentives, technical support and behaviour modification.	[1 point]	✓

NOTES:

All homeowners and commercial class buildings in New Brunswick are eligible to participate in efficiency programs. Energy audit based program. https://www.saveenergynb.ca/en/save-energy/residential/total-home-energy-savings-program/

1.4.6c. Retrofit program for existing multi-unit residential building stock		
Scoring: Checklist		
Community program exists to help homeowners conduct **energy audits** or evaluate feasibility of energy efficiency retrofits of existing multi-unit residential buildings.	[1 point]	**N/A**
Incentives exist for energy efficiency retrofits of existing multi-unit residential buildings.	[1 point for simple retrofit *or* 2 points for deep retrofit]	**N/A**
Repayment mechanisms exist for energy efficiency retrofits of existing multi-unit residential buildings.	[1 point]	**N/A**

Community retrofit programs (audits, simple and deep energy retrofits) are delivered in a **streamlined system** to support building owners and tenants with retrofit programs, including financial incentives, technical support and behaviour modification.	[1 point]	**N/A**

NOTES:

All homeowners and commercial class buildings in New Brunswick are eligible to participate in efficiency programs. Where the gaps exist is for multi-unit residential. Anything over 4 stories is considered commercial, not multi-residential. There is currently no energy evaluation tool for multi-residential buildings in Canada. Hot 2000, Retscreen, can be used to calculate energy/emissions, but come at a cost. Province has not yet adopted National Energy Code for Buildings.

1.4.6d. Retrofit program for existing commercial / mixed-use building stock		
Scoring: Checklist		
Community program exists to help homeowners conduct **energy audits** or evaluate feasibility of energy efficiency retrofits of existing commercial and mixed-use buildings.	[1 point]	✓
Incentives exist for energy efficiency retrofits of existing commercial and mixed-use buildings.	[1 point for simple retrofit *or* 2 points for deep retrofit]	✓✓
Repayment mechanisms exist for energy efficiency retrofits of commercial and mixed-use buildings.	[1 point]	**N/A**
Community retrofit programs (audits, simple and deep energy retrofits) are delivered in a **streamlined system** to support building owners and tenants with retrofit programs, including financial incentives, technical support and behaviour modification.	[1 point]	✓

NOTES:

All commercial class buildings in New Brunswick are eligible to participate in efficiency programs. Energy audit based program. https://www.saveenergynb.ca/en/save-energy/commercial

1.4.7. Energy programs targeting energy poverty and/or low-income households		
Scoring: Scale		
Energy poverty and/or low income household programs are **in place**.	[2 points]	⇑
Energy poverty and/or low income household programs are being **piloted**.	[1 point]	

NOTES:

There is a low-income energy efficiency program funded by Government of NB and administered by NB Power, to do what is economically feasible to be done on low-income housing (insulation, upgrades) at no cost to participants. Focuses on upgrades most likely to result in energy savings and achieve a realistic payback: insulation, some HVAC or ventilation, direct install of low-cost items such as LED bulbs, water efficient showerheads, etc. https://www.saveenergynb.ca/en/save-energy/residential/low-income-energy-savings-program/ A seperate program exists through NB housing for social development, to make improvements/fixes to key aspects. People can contact NB Power directly or through Social Development. Approx 1000 people on wait list. There is a 2 year wait (due to demand, and budget limit). Program not currently advertised. No local energy poverty program.

1.5 Strategy

Community Score: 12 / 16 (75%)

1.5.1. Community engagement for visioning, goal-setting, and prioritization		
Scoring: Checklist		
A **stakeholder engagement framework** has been documented, which may include: Who stakeholder groups are (and individual contacts within them), Why they are important and/or what issues are important to the stakeholder group; and, How key stakeholders are engaged (engagement methods).	[1 point]	N/A
Organizations within the community have been engaged, with engagement(s) documented in meeting minutes and/or a list of participants.	[1 point]	✓
The **general public been engaged**, with lessons learned documented.	[1 point]	✓
A **schedule has been established** for updating/conducting regular public engagement and education initiatives, and outreach to new participants.	[1 point]	

NOTES:

Community organizations and town staff were engaged in a workshop, their feedback and a list of participants was compiled. NB Power and Western Valley RSC were identified as collaborators. A public survey was conducted. Page 41 of the Climate change Action Plan has the list of key parties responsible for actions https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing

1.5.2. Community-wide economic analyses		
Scoring: Checklist		
An **economic analysis** that covers a wide diversity of community energy initiatives has been completed for the community within the past three years. This may include one or more of the following considerations or tools: - Financial feasibility, Levelized unit energy cost, Marginal abatement cost curve, Community socio-economic benefits, and/or Cost benefit analysis	[1 point]	

NOTES:

No community-wide economic analysis completed to date. However, if the QUEST SEC Accelerator Program is launched this Fall, an economic analysis can be undertaken in 2020-2021.

1.5.3. A plan or strategy to manage community energy initiatives and transition		
Scoring: Checklist		
A community energy plan or strategy has been **adopted by council**.	[1 point]	✓
There are clearly **defined benefits and advantages**, and risks associated with inaction, from community energy initiatives.	[1 point]	✓
A plan or strategy clearly **defines who in the community need to be involved**, when and what actions they need to undertake for implementation.	[1 point]	✓

NOTES:

The Action Plan was adopted by Council (see link below). There are clear benefits (but not risks of inaction) - the Benefits are: decrease greenhouse gas emission, decrease costs and increase the health of all its citizens. See Page 7 of their Action Plan for Benefits. Municipal staff, and collaborators, have been identified with specific roles/oversight of actions. See Page 41 of the Action Plan for list of who needs to be involved for which actions. Action Plan is here: https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing

1.5.4. A holistic and integrated approach to community energy		
Scoring: Checklist		
Community energy initiatives address **land use, transportation, and waste and water**.	[1 point]	✓
Community energy initiatives consider **socioeconomic** considerations (such as social housing or poverty).	[1 point]	

NOTES:

Specific community energy initiatives are identified (home retrofits, water conservation, fuel efficient vehicles, anti idling, solid waste reduction/recycling) on P. 29-33 of the Climate Change Action Plan. Land use considerations, such as intensification, mixed use development, active transportation networks are contained within the Municipal Plan. The Municipal Plan also includes policies to ensure affordable housing options, and to work with Provincial and Federal Governments and non-profit groups to develop low-income housing opportunities (P.15 of Municipal Plan).

1.5.5. SMART community energy initiatives		
Scoring: Checklist		
Specific community energy initiatives have been **identified**.	[1 point]	✓
Community energy initiatives have **quantitative or qualitative measures** associated with their implementation and success.	[1 point]	✓
Community energy initiatives are considered **attainable** (costed/financially viable).	[1 point]	✓
Community energy initiatives are clearly **aligned with community** priorities/objectives.	[1 point]	✓
Community energy initiatives are assigned **timelines** (short, medium, or long-term) for action and completion.	[1 point]	✓

NOTES:

All specific community energy initiatives are identified (home retrofits, fuel efficient vehicles, anti-idling, solid waste reduction/recycling), along with specific measures/indicators, priority, and cost / cost savings, on Pages: 29-33 of the Action Plan: https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing The Action Plan assigns a priority for each action, and one overall timeline for implementation of the plan. The actions align with Strategic Plan and priorities, and are considered financially viable (according to CAO).

1.5.6. Establishment of community energy planning as an ongoing process		
Scoring: Checklist		
There is an established **schedule for review** of progress on community energy initiatives.	[1 point]	✓
There is an established **schedule for renewal** of community energy initiatives and the broader community energy plan or strategy.	[1 point]	

NOTES:

The Action Plan states the "Town of Florenceville-Bristol should reasses and track how much progress has been made halfqay through and 3/4 of the way through, on Page 34 (https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing). Operational Plan includes review.

2.1 Land Use

Community Score: 13.5 / 15.5 (87%)

2.1.1. Public engagement and education on energy and land use		
Scoring: Checklist		
Members of the public are **informed of initiatives and educated** on land use-energy impacts through basic methods, such as: - Website updates, Newsletters, Print materials (such as brochures, fact sheets, information packages), Social media updates, Webinar or conference calls, Open houses	[0.5 point]	½
Members of the public are **engaged** on land use-energy impacts through innovative methods, such as: - Highly creative or interactive web-based reporting, open houses or participation at community events - Advanced social media/networking, Embedded videos - Innovative stakeholder feedback mechanisms and interactive workshops - Tables/participation at community events and School promotion	[1 point]	

NOTES:

While the town has not done any public education to date, it is part of their Climate Change Action Plan (P. 32) to increase public education. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

2.1.2. Compact, mixed use, transit-oriented development policies		
Scoring: Checklist		
Compact, mixed use and **transit-oriented development** is encouraged in the community's Official Community Plan (and Secondary Plans where applicable).	[1 point]	✓
The community's zoning bylaw identifies built up areas for **intensification**, with consideration to transit nodes and corridors, zoned for mixed-uses and with increased height and density, as well as settlement area boundaries for undeveloped areas to be protected if applicable.	[1 point]	✓
Compact, mixed use and transit-oriented developments are **promoted** through the use of at least one of the following: Community Improvement Plans (for brownfield or greyfield redevelopment, and/or infill), Secondary suite bylaws, Reducing/eliminating Parking minimums	[1 point]	N/A

NOTES:

While there is currently no transit, as per Municipal Plan (P. 35), Town Council's goal is to foster a consistent, walkable medium-scale growth pattern in the historical Town Centres of Florenceville and Bristol, through residential development and intensification. The Town has an opportunity to encourage gentle density and provide residents ith a diversity of housing choices (P. 7). It will promote mixed-use developments (residential/commercial/institutional), encourage development in areas that would be contiguous to, or infilling in between existing built-up areas (to minimize sprawl) (P.11). It will discourage development in environmentally sensitive areas and restrict large-lot developments in rural zones and unserviced areas. (P. 11) The Zoning Bylaw supports mixed-use development, and protecting rural and agricultural areas. Here is the Municipal Plan https://www.florencevillebristol.ca/town-bylaws and the Zoning Bylaw https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_3457f304d3b14b529e07d35d143a3540.pdf

2.1.3. Energy efficiency and performance in planning policies and processes for new developments		
Scoring: Checklist		
The local government has policies or processes that support **building-level energy performance** in new developments.	[4 points; 1 point per]	✓✓ ✓
The local government has policies or processes that support **neighbourhood-level energy performance** in new developments.	[4 points; 1 point per]	✓✓ ✓

The town does not require energy performance standards for new developments. However, The Municipal Plan (P. 34) includes a policy: "Council shall support land uses, development options, transportation alternatives, built forms and infrastructure options that reduce energy use, and costs, integrate renewable energy sources and increase energy conservation through efficiency improvements." On P. 14, the Municipal Plan states: "Council proposes to work with local housing producers and developers to identify and encourage innovative housing types and designs"...including affordable housing, and a variety of housing types to accomodate residents with a variety of incomes and social circumstances. On P. 16. it states : "Council shall encourage new residential subdivisions to develop with sustainable principles, including where possible, to orient buildings to maximize passive solar access, and to utilize sustainable energy sources. On P. 26, the Municipal Plan states: "Council proposes to encourage new and expanding industrial operations to incorporate sustainable design principles such as LEED". Also, Building permit requirements are listed in the Building Bylaw: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_634f8e17f70d4e528daad6d15e51f8fb.pdf

2.1.4. Embedding of local energy supply options into land-use plans, policies, tools and processes		
Scoring: Checklist		
Development of local and/or renewable energy options and energy efficiency are **mentioned and encouraged** in the community's Official Community Plan (and Secondary Plans where applicable).	[1 point]	
Energy supply options are **listed** as permitted land uses in the community's zoning bylaws where applicable (ideally informed by energy mapping).	[1 point]	✓
The use of local energy supply options or energy efficiency are **promoted** through the use of the following:		
Community Improvement Plans, Site Plan Control or Plans of Subdivision requirements, Expedited processing for development permits (including Development Permit Systems), By-law or policy to permit right-of-ways for district energy infrastructure	[2 points; 1 point per]	N/A

NOTES: (next page)

The Town has not identified any local energy supply options. However, The Municipal Plan (P. 34) includes three policies: "Council shall support land uses, development options, transportation alternatives, built forms and infrastructure options that reduce energy use, and costs, integrate renewable energy sources and increase energy conservation through efficiency improvements"; "Promote the use of low-carbon, renewable energy sources to reduce reliance on fossil fuels and enhance local energy security through community energy solutions"; "Explore innovative ways to produce, supply and store energy at the building, neighborhood and community levels." On P. 16, the Municipal Plan states a policy that: "Council shall encourage new residential subdivisions to develop with sustainable principles..." including "to utilize sustainable energy sources." On P.26, it states that: "Council proposes to encourage new and expanding industrial operations to incorporate sustainable design principles such as LEED"...and to optimize sun exposure, minimize wind exposure, share by-products as energy sources for multiple buildings or adjacent operations, and to use sustainable energy sources. The Town's Climate Change Action Plan includes potential actions such as installing Solar Panels on Buildings, a Small Solar or Wind Farm, or Solar Pool Heating (P. 16, 18). Furthermore, the Zoning Bylaw includes zoning which permits solar collectors and windmills (where applicable), utility uses (where applicable). There are height exceptions for building-mounted solar collectors, and for windmills, on P 37 and 38. This is not informed by energy mapping. There is no density bonusing, however each zone type has minimum lot standards (i.e. Residential P. 50 to 67; commercial P. 69-78; industrial P. 80-86; Institutional, Agricultural etc.) See Zoning Bylaw: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_3457f304d3b14b529e07d35d143a3540.pdf

2.1.5. Preservation of natural lands in land use practices		
Scoring: Scale		
Preservation of natural assets is enhanced through at least one of: **conservation easements, land acquisition, and/or incentives**.	[3 points]	N/A
Natural assets are identified and preserved through the **community's zoning bylaw, and Site Plan Control and Plans of Subdivision** where applicable.	[2 points]	⇑
Natural assets, such as ecologically significant or sensitive areas, watersheds and/or permafrost, are **identified for preservation** in the community's Official Plan.	[1 point]	

NOTES:

The Zoning Bylaw (https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_3457f304d3b14b529e07d35d143a3540.pdf) outlines the protection of parks and open space zones on Page 90. On Page 36-38, the Zoning Bylaw outlines the required distance from watercourses or wetlands. The Zoning Bylaw also restricts development in rural and agricultural zones. In the Subdivision Bylaw (Page 7), new subdivisions must retain 8% of land to be publicly owned (e.g. parks, green space, buffers to protect sensitive areas). See bylaw: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_2503a34baeee48d0a1f60e39a27c8a05.pdf

2.1.6. Programs to expand and enhance green space, and mitigate urban heat island effect		
Scoring: Checklist		
The local government and/or other community organization(s) promote the **expansion and enhancement of green space** through initiatives such as: - Expanding parkland - Promoting of green roofs - Creating urban gardens or vegetation into streetscaping - Creating urban farming - Shade tree-planting or expanding urban forest (in coordination with utility)	[2 points; 1 point per]	✓
The local government and/or other community organization(s) **mitigate urban heat island effects** through initiatives such as: - Cool roofs or pavement policies - Education programs of urban heat island effects - Urban heat island effect-specific goal (temp., permeable surfaces, green space) *Any of the initiatives listed to expand/enhanced green space	[1 point]	**N/A**

NOTES:

The Municipal Plan (P. 32) states the Town will encourage and promote the planting of native vegetation and trees on public and private property to increase overall tree canopy coverage, and encourage the incorporation of natural features in all new developments. The Town will also consider creating a tree planting grant to complement road renewal efforts as part of a main street renewal program. Council shall encourage protecting and enhancing biodiversity through encouraging clustering of development to achieve conservation objectives, and using natural buffers to manage transitions between development and open space lands. The Zoning bylaw requires commercial and industrial uses, to plant trees and shrubs for every 1000ft squared of space developed.

2.2 Energy Networks

Community Score: 12 / 17 (71%)

2.2.1. Public engagement and education on energy delivery systems		
Scoring: Checklist		
Members of the public are **informed of initiatives** and educated on energy networks through basic methods, such as: - Website updates - Newsletters - Print materials (such as brochures, fact sheets, information packages) - Social media updates - Webinar or conference calls - Open houses	[0.5 point]	½
Members of the public are **engaged on energy networks** through innovative methods, such as: - Highly creative or interactive web-based reporting - Highly creative or interactive open houses or participation at community events - Advanced social media/networking - Embedded videos - Innovative stakeholder feedback mechanisms - Interactive workshops - Tables/participation at community events - School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively** between multiple stakeholders.	[0.5 point]	½

NOTES:

While the town has not done any public education to date, it is part of their Climate Change Action Plan (P. 32) to increase public education. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

Information about NB Power's plan to modernize the grid can be found on our website, as well as information on how to understand your bill, an outage map where you can lookup by phone number or account and see if there are any outages reported in your area and their status, and also information and research and development projects currently happening in NB related to DERs and Smart Grid. NB Power is also often out in the community attending trade shows, home shows and community events where we discuss issues of importance to our customers and provide them with access to resources. Reference materials: www.nbpower.com; https://www.nbpower.com/Open/Outages.aspx; https://www.nbpower.com/en/smart-grid/; https://www.nbpower.com/en/accounts-billing/; https://www.nbpower.com/en/smart-grid/shediac-smart-energy-community-project/

2.2.2a. Electrical load management		
Scoring: Scale		
Peak shaving **results are shared** to relevant stakeholders, lessons learned identified and documented.	[3 points]	
Peak shaving **measure in place and being tracked.**	[2 points]	
Peak shaving **measures considered in planning processes.**	[1 point]	

NOTES:

The Town has not invested in measures to reduce peak demand, to date. NB Power offers programs to support demand management to municipal staff. It's up to the municipality to identify what type of 'peaking'. Energy Advisor can assist to identify peak shaving measures. NB Power has developed the Energy Smart Plan for NB, as outlined in the Integrated Resources Plan. The ESNB plan has 3 pillars: Smart Grid, Smart Habits and Smart Solutions with targets to reduce both overall energy consumption as well as peak demand. The targets for energy and peak reduction and how they will be achieved are outlined in the Demand Side Management Plan: https://www.nbpower.com/media/1489275/dsm_plan-2019-2021-en.pdf

2.2.2b. Natural gas load management		
Scoring: Scale		
Peak shaving **results are shared** to relevant stakeholders, lessons learned identified and documented.	[3 points]	N/A
Peak shaving **measure in place and being tracked.**	[2 points]	N/A
Peak shaving **measures considered in planning processes**.	[1 point]	**N/A**

NOTES:

2.2.3a. Climate risk management in electric utility asset management and operations		
Scoring: Scale		
Actions to address risks and/or avoid or mitigate impacts are shared to relevant stakeholders within the community, lessons learned identified and documented.	[4 points]	⇑
Actions have been implemented to address risks and/or avoid or mitigate impacts.	[3 points]	
Actions have been identified that can be taken to address risks and avoid or mitigate impacts.	[2 points]	
Risks have been identified in asset management plans, resilience plans, or risk assessments. This should include slow on-set risks, such as permafrost thawing or sea level rise, and rapid onset such as flooding, extreme heat and forest fires.	[1 point]	

NOTES:

NB Power is continually monitoring and upgrading infrastructure to be more resistant to climate change. For example, in 2018 NB Power launched a $92M capitol project to reinforce poles to better withstand severe ice storms (as experienced in 2017). Updated policies have also been put in place for vegetation management, as well as “build back better” standards for much of the infrastructure. NB Power has also partnered with IBM’s the Weather Company to better predict outage severity and grid impacts in advance of major weather events so that we can react proactively ahead of a storm. NB Power has participated in numerous Resilience Planning workshops and provincial exercises, and public presentations, on the impacts on climate change on their infrastructure and the actions they are taking to adapt.

2.2.3b. Climate risk management in natural gas utility asset management and operations		
Scoring: Scale		
Actions to address risks and/or avoid or mitigate impacts are shared to relevant stakeholders within the community, lessons learned identified and documented.	[4 points]	**N/A**
Actions have been implemented to address risks and/or avoid or mitigate impacts.	[3 points]	N/A
Actions have been identified that can be taken to address risks and avoid or mitigate impacts.	[2 points]	N/A
Risks have been identified in asset management plans, resilience plans, or risk assessments. This should include slow on-set risks, such as permafrost thawing or sea level rise, and rapid onset such as flooding, extreme heat and forest fires.	[1 point]	**N/A**
2.2.4. Natural gas infrastructure is used for electric storage		
Scoring: Scale		
A **power-to-gas project** has been **developed**.	[2 points]	N/A
An **assessment/study of power-to-gas opportunities** has been **completed** within the past three years.	[1 point]	**N/A**
2.2.5. Thermal grids that utilize local and/or renewable thermal energy resources		
Scoring: Scale		
There is a **plan or project in place** to integrate local/renewable thermal sources, thermal energy storage, and/or lower temperature distribution piping into thermal grids.	[3 points]	N/A
A **thermal grid(s) are established**.	[2 points]	N/A
A **feasibility assessment/study for thermal grids has been completed** within the past 3 years. This may include heat/cooling load densities [demand], available thermal energy sources [supply]), and economic feasibilities.	[1 point]	**N/A**

NOTES:

2.2.6. Infrastructure to support alternative fuel vehicles		
Scoring: Checklist		
An **assessment/study of alternative fuel opportunities** (based on location, CEP, impact to electric and/or gas grids, costs, etc.) has been **completed** in the past 3	[2 points; 1 per fuel assessed]	
Alternative fuel infrastructure project(s) have been developed in the community.	[1 point]	✓
Utility(ies) have (and follow) plans/processes/programs in place to integrate alternative fuelling infrastructure into their grid(s)	[1 point]	✓
Results of projects have been **shared across community**, with lessons learned identified and documented.	[1 point]	

NOTES:

The Town is implementing an electric vehicle charging station downtown this year (2020). Local Hotel will also be adding EV charging stations next year. NB Power implemented the e-charge network to increase EV charging across the Province and provincial highways, every 65 kms. It The e-charge program offers municipalities the opportunity to expand EV charging in their community by participating in our Community Champion program: https://echargenetwork.com/become-a-champion

2.2.7. Smart grid technologies used in electricity distribution infrastructure		
Scoring: Checklist		
The electric utility has **plans/processes/programs in place**, within the community, to integrate and promote: Grid level smart technologies Home level smart technologies	[2 points; 1 point per]	✓✓
When integrating smart grid technologies, the **electric utility considers**: Cybersecurity considerations in plan or implementation of projects Data sharing policy Partnerships with builder/real estate developer	[3 points; 1 point per]	✓✓ ✓

NOTES:

Application for installation of smart meters currently in front of the EUB. https://www.nbpower.com/en/smart-grid/smart-meters/; As part of Smart Grid Atlantic, a $92M project with funding from the Federal Government, NB Power is also in the process of building 3x Smart Energy Communities in NB: a First Nations microgrid community, a net-zero new homes project using nano-grid technology, and a 500 home retrofit project deploying a variety of energy technologies hooked to an Energy Services Platform to manage the variety of DERs to be deployed. NB Power cannot, for obvious reasons, publish their cybersecurity plans :) Considerations include ongoing training of all employees and a cybersecurity department under our CTO: https://www.nbpower.com/en/about-us/careers/cybersecurity/ As a GNB entity, all customer data is protected under RTIPA: http://laws.gnb.ca/en/ShowTdm/cs/R-10.6//. NB Power is also piloting a net-zero new homes program and a retrofit program with local builders and contractors that will test a variety of technologies, including cybersecurity equipment.

2.3 Waste & Water

Community Score: 7 / 13 (54%)

2.3.1a. Public engagement and education on water and wastewater conservation, and its relationship with		
Scoring: Checklist		
Members of the public are **informed** of initiatives and **educated on water/wastewater conservation** through basic methods, such as: - Website updates - Newsletters - Print materials (such as brochures, fact sheets, information packages) - Social media updates - Webinar or conference calls - Open houses	[0.5 point]	½
Members of the public are **engaged on water/wastewater conservation** through innovative methods, such as: - Highly creative or interactive web-based reporting - Highly creative or interactive open houses or participation at community events - Advanced social media/networking - Embedded videos - Innovative stakeholder feedback mechanisms - Interactive workshops - Tables/participation at community events - School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively** between multiple stakeholders.	[0.5 point]	½

NOTES:

Waste is managed and education is conducted by Western Valley RSC for solid waste reduction. While the town has not done any public education to date, it is part of their Climate Change Action Plan (P. 32) to increase public education. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

2.3.1b. Public engagement and education on waste management, and its relationship with energy		
Scoring: Checklist		
Members of the public are **informed** of initiatives and **educated on waste management** through basic methods, such as: - Website updates - Newsletters - Print materials (such as brochures, fact sheets, information packages) - Social media updates - Webinar or conference calls - Open houses	[0.5 point]	½

Members of the public are **engaged on waste management** through innovative methods, such as: - Highly creative or interactive web-based reporting - Highly creative or interactive open houses or participation at community events - Advanced social media/networking - Embedded videos - Innovative stakeholder feedback mechanisms - Interactive workshops - Tables/participation at community events - School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively** between multiple stakeholders.	[0.5 point]	**½**

NOTES:

Waste is managed and education is conducted by Western Valley RSC for solid waste reduction. While the town has not done any public education to date, it is part of their Climate Change Action Plan (P. 32) to increase public education. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

2.3.2. Energy recovery from waste		
Scoring: Checklist		
The **production** of electrical, thermal, or chemical energy products **from landfill waste materials** such as: - Incineration - Gasification - Depolymerization	[1 point, 0.5 point for feasibility]	**N/A**
The **production** of electrical, thermal, or chemical energy products **from organic waste materials** such as: - Incineration - Gasification - Depolymerization - Anaerobic digestion - Pyrolysis - Fermentation	[2 points, 0.5 point for feasibility]	**N/A**
The **production** of electrical, thermal, or chemical energy products **from wastewater materials** such as: - Gasification - Anaerobic digestion - Fermentation	[1 point, 0.5 point for feasibility]	**N/A**

NOTES:

The Municipal Plan (P. 26) encourage industry to share by-products/waste as energy sources for multiple buildings or adjacent operations. The McCain facility uses potato scraps (organic waste) for heat/energy production. Need to confirm.

2.3.3. Waste reduction		
Scoring: Checklist		
Landfill diversion programs run by the local government or other community organization(s) **are in place for reducing landfill** waste including: - Garbage bag collection tags/limits or tipping fee - Plastic bag bans - Re-use or community swap days	[2 points; 1 point per program]	
Landfill diversion programs are in place for hazardous/special waste.	[0.5 point]	½
Programs run by the local government or other community organization(s) **are in place for improving non-residential waste diversion** such as: - Recognition for high performers - Expanding recycling or organic waste programs to include eligible ICI or CRD waste	[2 points; 1 point per program]	
Programs run by the local government or other community organization(s) **are in place for collecting and recycling**: - Glass, Paper, Plastics, Metals, Electronic waste, Textiles	[3 points; 0.5 point per material]	✓✓
Integration and reporting into community energy planning process.	[0.5 point]	

NOTES:

Solid Waste collection and reduction is the responsibility of Western Valley RSC. Curbside Recycling was added

2.3.4. Water and wastewater programs		
Scoring: Checklist		
The community has **water infrastructure initiatives**, such as: - Leak detection and repair - Water meters/water-use monitoring - Pressure reducing valves - Efficiency upgrades to wastewater treatment equipment	[1.5 points; 0.5 point per]	N/A
The community has **retrofit programs to conserve water**, such as targeting: - Toilet dams - Low-flow showerheads - Faucet aerators or washers - Rainwater collection	[1.5 points; 0.5 point per]	N/A
The community has a program in place to **promote potable or non-potable water reuse**.	[0.5 point]	N/A
Integration and reporting into community energy planning process.	[0.5 point]	N/A

NOTES:

The Town indicated there is no central water system, however, it plans to promote low-flow showerheads and water faucets, as per Climate Change Action Plan on P. 30-31. There may not yet be a program in place, but the town wishes to encourage with NB Power incentives. The town is also looking at a rainbarrel program

2.3.5. Low impact development and resilient storm water management		
Scoring: Checklist		
The community has programs to **manage stormwater and reduce peak flow**, such as: - Stormwater retention ponds/tanks - Bioswales - Rain gardens - Permeable pavement	[2 points; 1 point per, 0.5 point for pilot]	✓✓
Storm water management initiative(s) **consider future climate risks**.	[0.5 point]	½
Integration and reporting into community energy planning process.	[0.5 point]	

NOTES:

The Town indicated there is a very small portion of the community that may be flood prone, and have had some flood damage to riverbanks and roads at both ends of Route 105. It was acknowledged by the Town that certain areas within Town boundaries are susceptible to flooding and have the potential to become high risk in coming years. According to the Municipal Plan (P. 31-33) The Town intends to adopt a responsible growth pattern, account for climate change in land use practices (restrict development in areas that are sensitive to riverfront flooding or pluvial flooding), and invest in appropriate stormwater management practices to mitigate impacts of pluvial / flood events, including open space designation, retention and detention ponds, grassed swales, vegetation, etc. Storm Water is currently managed through a combination of open ditches and curb and gutter and storm sewers, with studies completed to develop strategies to alleviate areas of flooding (P. 38). Where possible storm water infrastructure will be coordinated with other capital works projects such as roadway upgrades. The impacts of proposed developments on storm water infrastructure shall be reviewed to determine if proposed developments impact system capacity (P. 45). Floodplains and Riparian buffers are also identified, in order to restrict development. The Town also supports / will consider sustainable building practices that include natural stormwater management practices. Recently the Town did a natural asset initiative, to asses sites for natural storm water management opportunities, identifying up to $3.5 Million in savings / avoided costs of infrastructure. Phase 2 will look at whole town to better manage storm water.

2.4 Transportation

Community Score: 12 / 15.5 (77%)

2.4.1. Public engagement and education on mobility networks		
Scoring: Checklist		
Members of the public are **informed** of initiatives **and educated on mobility networks** through basic methods, such as: - Website updates, Newsletters, Print materials (such as brochures, fact sheets, information packages), Social media updates, Webinar or conference calls, Open houses	[0.5 point]	½
Members of the public are **engaged on mobility networks** through innovative methods, such as: - Highly creative or interactive web-based reporting and open houses or participation at community events - Advanced social media/networking, Embedded videos - Innovative stakeholder feedback mechanisms and interactive workshops - Tables/participation at community events and School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively between multiple stakeholders**.	[0.5 point]	½

NOTES:

The Town has not done any public education and engagement to date, however it is an action in their Climate Change Action Plan (P. 32), and in the Municipal Plan (P. 35) it states they will partner with schools and community groups to educate residents on the benefits of choosing active modes of transportation. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

2.4.2. Active transportation integrated into a Transportation Master Plan		
Scoring: Checklist		
Transportation Master Plan **includes active transportation** or there is an Active Transportation Master Plan.	[1 point]	✓
Community has **mapped its active transportation network** and its relation to other mobility options.	[1 point]	

NOTES:

There is no Transportation Master Plan - however, the official Municipal Plan includes Active Transportation policies and implementation proposals, including a proposal to develop and implement an Active Transportation Plan to improve pedestrian and cyclist connectivity, right of way options, and active transportation facilities, including as on-going upgrades occur to streets and during new road construction. Areas for walking and cycling should lead from connected residential areas to activity areas like parks, employment, and shopping areas. New developments will be required to connect sidewalks and walkways. See P. 35-37 of Municipal Plan: https://www.florencevillebristol.ca/town-bylaws.

2.4.3. Transportation Demand Management

Scoring: Checklist

The community has basic infrastructure to **support active transportation**, including: - Pedestrian-friendly sidewalks (expansion, streetscaping, shade tree planting) - Bike parking facilities or bike racks - Multi-use trails - Public bike tire pumps - Bike share programs - Bike lanes (painted bike lanes, cycle tracks [spatial or physical separation], "shared roadways"/sharrows, contraflow bike lanes) For small communities this may also include sidewalks in right-of-way planning and slow speed limits.	[4 points; 1 point per for implementation, 0.5 point per for assessment]	✓✓ ✓✓
The community has **alternative car-transportation programs** to reduce single-occupancy vehicle travel, including: - Carsharing programs - Carpooling programs/lots - Ride Sharing programs	[1 point; 1 point per for implementation, 0.5 point per for assessment]	
The community has **public transit options** available, including: - Buses* - Bus rapid transit* - Street rail** - Light rail** - Subway** *may only be appropriate to mid-large communities **may only be appropriate to large communities	[3 points; 1 point per]	**N/A**
Available public transit systems make **efforts towards continuous improvement** such as increasing: - Frequency of routes - Accessibility (e.g. kneeling buses) - Service to low-income housing - Interconnectedness ('last mile' / multimodal integration e.g. bike parking, regional transit connection)	[1 point; 0.5 points per]	**N/A**

NOTES:

The Town has implemented shade tree planting, connecting pedestrian walkways and trails, bike parking/racks, one tire pump (on the NB Trail), and various trails in the community. There is also study being done to ensure connectivity for active transportation.

2.4.4. Alternative energy sources of public transit systems

Scoring: Scale

A procurement policy for alternative fuel transit fleet vehicles has been **adopted**.	[3 points]	N/A
An alternative fuel transit fleet vehicle pilot project has been **developed**.	[2 points]	N/A
Scoping (opportunities identified, feasibility assessments) for alternative fuels in public transit systems has been **completed**.	[1 point]	**N/A**

NOTES:

2.4.5. Anti-idling policies

Scoring: Checklist

A policy has been **adopted and is enforced**, or a program exists to encourage an alternative to idling (ex. block heaters, solar heating).	[0.5 point]

NOTES:

The Town does not have an Anti-Idling Policy, but is planning to promote/encourage anti-idling as part of public education, in its Climate Change Action Plan. See Pages 28 and 32 https://drive.google.com/file/d/1Q3A6erxAhStnDquT3wTRjRD_BrjqPXgI/view?usp=sharing The CC Action Plan includes a recommendation to work with community partners to promote anti-idling.

2.4.6a. Local government leadership by example in transportation demand management among staff

Scoring: Checklist

Support for transportation demand management and alternative fuel vehicles at the workplace exists, such as: - Bike racks or secure storage facilities - Public tire pumps - Showers and changing facilities - Transit subsidies - Carpooling - Flexible work scheduling/remote working options - Electric vehicle charging stations for employee or public use	[3 points; 1 point per]	✓✓ ✓

NOTES:

The Town has implemented bicycle racks / parking, showers / changing facilities, at one location, and supports flexible work sharing or remote working (according to CAO).

2.4.6b. Public sector organization leadership by example in transportation demand management		
Scoring: Scale		
Support for transportation demand management and alternative fuel vehicles at the workplace **exists in all public sector organizations**, such as: - Bike racks or secure storage facilities - Public tire pumps - Showers and changing facilities - Transit subsidies - Carpooling - Flexible work/study scheduling or remote working/study options - Electric vehicle charging stations for employee/student or public use	[3 points]	N/A
Support for transportation demand management and alternative fuel vehicles at the workplace **exists in some public sector organizations**	[2 points]	N/A
Support for transportation demand management and alternative fuel vehicles at the workplace **exists in one public sector organization**/	[1 point]	**N/A**

NOTES:

Public buildings, such as government offices, schools, hospitals, provide amenities for active transportation (e.g. bike racks) and connectivity to trails, whenever possible - i.e. depending on municipal zoning, land use, proximity to AT infrastructure. During COVID-19, many government employees also worked remotely. There are EV charging stations at a few government facilities across the Province. In the future, additional amenities and support for active transportation and transportation demand management may be considered.

2.4.7a. Local government leadership by example with corporate-owned fleet greening		
Scoring: Scale		
A green procurement policy for fleet has been **adopted**.	[3 points]	N/A
A green fleet vehicle pilot project has been **developed**.	[2 points]	N/A
A **feasibility study** for green fleet vehicles has been **completed** within the past 3 years.	[1 point]	**N/A**

NOTES:

Town has very few vehicles, and trucks are needed for Public Works. Fuel efficiency will be achieved through anti-idling. The Climate change Action Plan identifies it as a potential action.

2.4.7b. Electric utility is leading by example with corporate-owned alternative fuel fleet vehicles		
Scoring: Scale		
Alternative fuel fleet vehicles are seen as a **strategic priority**.	[3 points]	⇑
An alternative fuel vehicle **pilot project** has been **developed**.	[2 points]	
A **feasibility study** for alternative fuel vehicles has been **completed** within the past 3 years.	[1 point]	

NOTES:

NB Power has 65 electric vehicles and hybrid vehicles on it's fleet, and is seen as a strategic priority.

2.4.7c. Natural gas utility is leading by example with corporate-owned alternative fuel fleet vehicles		
Scoring: Scale		
Alternative fuel fleet vehicles are seen as a **strategic priority**.	[3 points]	N/A
An alternative fuel vehicle **pilot project** has been **developed**.	[2 points]	N/A
A **feasibility study** for alternative fuel vehicles has been **completed** within the past 3 years.	[1 point]	**N/A**

NOTES:

2.5 Buildings

Community Score: 8 / 16 (50%)

2.5.1a. Public engagement and education on energy in single family residential buildings		
Scoring: Checklist		
Members of the public are **informed** of initiatives and **educated on single family home energy use** through basic methods, such as: - Website updates, Newsletters, Print materials (such as brochures, fact sheets, information packages), Social media updates, Webinar or conference calls, Open houses	[0.5 point]	**½**
Members of the public are **engaged on single family home energy use** through innovative methods, such as: - Highly creative or interactive web-based reporting, and interactive open houses or participation at community events - Advanced social media/networking, Embedded videos - Innovative stakeholder feedback mechanisms and Interactive workshops - Tables/participation at community events and School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively** between multiple stakeholders.	[0.5 point]	**½**

NOTES:

The Town has not done any public education and engagement to date, however it is an action in their Climate Change Action Plan (P. 32), and in the Municipal Plan (P. 35) it states they will partner with schools and community groups to educate residents on the benefits of choosing active modes of transportation. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

NB Power also uses basic methods of information (website, social media, etc. to engage and educate the public on single family residential building energy uses, and practices to improve home energy performance: https://www.nbpower.com/homeenergyreport NB Power also partners with other stakeholders, for example: with the Gaia Project to bring hands-on experiential learning opportunities to students. Such as the Energy Engineers program to teach grades 3-5 the basics of electricity generation, the Energy Detectives Program to teach the basics of an energy audit and how you can identify simple and low cost ways to save energy in your school and at home, and the Electrify your Ride program where students can get hands-on and under the hood of an EV! Also an intro to Smart Grid and how electrification of transportation and other sectors means we need to move to a smarter way of managing electricity.
https://thegaiaproject.ca/en/programs/

2.5.1b. Public engagement and education on energy in other buildings		
Scoring: Checklist		
Members of the public are **informed** of initiatives and **educated** on **multi-unit residential, commercial, or other building energy use** through basic methods, such as: - Website updates, Newsletters, Print materials (such as brochures, fact sheets, information packages), Social media updates, Webinar or conference calls, Open houses	[0.5 point]	½
Members of the public are **engaged on multi-unit residential, commercial, or other building energy use** through innovative methods, such as: - Highly creative or interactive web-based reporting - Highly creative or interactive open houses or participation at community events - Advanced social media/networking - Embedded videos - Innovative stakeholder feedback mechanisms - Interactive workshops - Tables/participation at community events - School promotion	[1 point]	
Public engagement and educational activities are **developed/delivered collaboratively** between multiple stakeholders.	[0.5 point]	½

NOTES:

The Town has not done any public education and engagement to date, however it is an action in their Climate Change Action Plan (P. 32), and in the Municipal Plan (P. 35) it states they will partner with schools and community groups to educate residents. The Town is in the process of launching education and engagement strategy by end of 2020. Will be promoted on existing website, notification system, and social media, and will work with schools and volunteer groups, to deliver education and workshops. Partnership with Ducks Limited.

NB Power also uses basic methods of information (website, social media, etc. to engage and educate the public on building energy uses, and practices to improve energy performance. NB Power offers advice and incentives on how to make buildings more energy efficient. NB Power also has and Energy Management Service Provider Network customers can access to receive a subsidized energy audit. Saveenergynb.com

NB Power offers an annual energy efficiency conference which brings together a variety of stakeholders and customers to discuss, educate, engage and inform our partners and interested attendees on all things energy efficient. We also offer ongoing workshops in partnership with CIET and other organizations. NB Power also regularly attends conferences, such as the Smart Energy Event in Nova Scotia, or our own Energy Innovations Forum, as a presenter or as participant in a variety of panel discussions related to the industry. Interested parties can also register on our website to be notified when new workshops or courses will be offered by NB Power and its partners: https://www.nbpower.com/en/save-energy/events-and-training/

2.5.2a. Local government leadership by example in corporate-owned facilities		
Scoring: Checklist		
Corporate process is in place to improve energy efficiency, including through energy standards/certifications and a schedule for regular recommissioning, in **existing corporate facilities**.	[0.5 point]	
Corporate process is in place to improve energy efficiency, including through energy standards or certifications, in **new corporate facilities**.	[0.5 point]	½
A process is in place to **procure** local/renewable heat/electricity for corporate facilities.	[0.5 point]	
A **process exists** to use a benchmarking, labelling and disclosure system for **corporate-owned facilities**.	[0.5 point]	

NOTES:

The Procurement Policy allows the town to consider applications based on meeting any criteria that is best for the town (including potential efficiency), rather than only lowest cost option. See Page 8 of Procurement Policy: https://4614f124-0bf3-43e1-9a0d-5b89332f2e16.filesusr.com/ugd/3213ba_cfe106f3ffa441c78bbac8739848d047.pdf "The Town does not, by virtue of any proposal call, tender, or request for quotation or proposal, commit to an award, nor does the Town limit itself to accepting the lowest price of any submitted, but reserves the right to award, or not to award, in any manner deemed to be in the
Town's best interest." Anytime the municipality builds a new building, they will look at efficeincy (according to CAO).

2.5.2b. Electric utility leadership by example in owned facilities		
Scoring: Checklist		
The electric utility has **developed** a new high performance utility-owned facility, or retrofitted an existing facility, that demonstrates leadership in energy efficiency and/or the use of local/renewable energy sources.	[0.5 point]	½
The **electric utility uses** a benchmarking, labelling and disclosure system for all **owned facilities**.	[0.5 point]	
Energy performance of utility-owned facilities is seen as a **strategic priority** for the electric utility.	[1 point]	✓

NOTES:

NB Power has a fulltime Energy Manager who works with Facilities Management and Station Services to identify and implement energy savings opportunities.

2.5.2c. Natural gas utility leadership by example in owned facilities		
Scoring: Checklist		
The natural gas utility has **developed** a new high performance utility-owned facility, or retrofitted an existing facility, that demonstrates leadership in energy efficiency and/or the use of local/renewable energy sources.	[0.5 point]	N/A
The **natural gas utility** uses a benchmarking, labelling and disclosure system for all **owned facilities**.	[0.5 point]	N/A
Energy performance of utility-owned facilities is seen as a **strategic priority** for the natural gas utility.	[1 point]	N/A

NOTES:

2.5.2d. Public sector organization leadership by example in local facilities		
Scoring: Checklist		
Energy efficiency **retrofits of existing buildings**, including certification of previously uncertified buildings, have been **demonstrated in at least 1 public sector organization** in the past 3 years.	[1.5 points; 0.5 points for one, 1 point for some, 1.5 points for all]	**N/A**
High performance of **new buildings** has been **demonstrated in at least 1 public sector organization** building constructed in the past 10 years.	[1.5 points; 0.5 points for one, 1 point for some, 1.5 points for all]	**N/A**
Use of local/renewable heat/electricity has been demonstrated in at least 1 public sector organization in the past 3 years.	[1.5 points; 0.5 points for one, 1 point for some, 1.5 points for all]	**N/A**
Benchmarking and public disclosure of performance of buildings has been **demonstrated in at least 1 public sector organization**.	[1.5 points; 0.5 points for one, 1 point for some, 1.5 points for all]	**N/A**

NOTES:

Many of the High Schools have undergone energy efficiency retrofits. Some have installed solar PV arrays (net-metered), and 15 schools have converted from oil to biomass pellets / boiler system using sustainable waste biomass. There are approximately 740 government owned buildings in N.B. - they target the most intense energy users for energy efficiency improvements, other buildings are undergoing efficiency audits, others are focused on maintenance only. All new buildings built by Government/ DTI are built according to the Provincial Green Building Policy, to LEED 2009 or Green Globes standards, which includes high energy performance, measurement, and active transportation.

2.5.2e. Community-wide private sector leadership in incorporating energy efficiency and distributed energy		
Scoring: Checklist		
Energy efficiency **retrofits of existing buildings**, including certification of previously uncertified buildings, have been **demonstrated by at least 1 private sector building owner/operator** in the past 3 years.	[2 points; 1 point for one, 2 points for multiple]	✓✓
High performance of **new buildings** has been **demonstrated by at least 1 private sector developer** building constructed in the past 10 years.	[2 points; 1 point for one, 2 points for multiple]	✓✓
Use of local/renewable heat/electricity has been demonstrated in at least 1 privately owned/operated or developed building in the past 3 years.	[2 points; 1 point for one, 2 points for multiple]	
Benchmarking and public disclosure of performance has been **demonstrated by at least 1 private sector building owner/operator**.	[2 points; 1 point for one, 2 points for multiple]	

NOTES:

QUEST