Table of contents

Key terms ......................................................................................................................................... 1
Highlights ............................................................................................................................................ 2
Background ........................................................................................................................................ 3
Energy Management branch .................................................................................................................. 4
  Benefits and outcomes. ......................................................................................................................... 7
  Benchmarking ..................................................................................................................................... 7
  ENERGY STAR® Portfolio Manager® .................................................................................................... 7
  ENERGY STAR® Certification. ............................................................................................................... 9
Engagement and awareness ................................................................................................................... 10
  Training sessions ................................................................................................................................. 10
  Celebrate and communicate. ............................................................................................................... 10
  Energy dashboards ............................................................................................................................. 11
Energy efficiency investment and results. ............................................................................................... 12
  Investments ........................................................................................................................................ 12
  Energy management best practices ....................................................................................................... 12
  Achieving results ................................................................................................................................. 13
  COVID-19 and healthcare facility operations. ...................................................................................... 16
  Next steps ......................................................................................................................................... 16
Conclusion ......................................................................................................................................... 17
## Key terms

<table>
<thead>
<tr>
<th><strong>Energy Consumption</strong></th>
<th><strong>Energy Use Intensity (EUI)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The amount of energy used to operate a facility in a given time frame, from all sources (electricity, natural gas, oil, biomass and diesel)</td>
<td>An industry standard for measuring total energy consumed in a building (electricity, natural gas, oil, biomass and diesel) divided by the total square footage Measured in ekWh/ft²</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Equivalent kilowatt hours (ekWh)</strong></th>
<th><strong>Normalization (for weather)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy consumption from all sources, reported in the same unit of measurement</td>
<td>Adjusted energy consumption to account for the impact of weather (average daily outside air temperature)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Carbon Emissions</strong></th>
<th><strong>Cost Avoidance</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>The emissions released in the form of carbon dioxide as a result of the energy consumed through building operations</td>
<td>The amount of energy costs avoided as a result of energy reduction</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Equivalent tonnes of carbon dioxide emissions (etonne)</strong></th>
<th><strong>Energy Management Information System (EMIS)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>All emissions from various energy consumption sources converted to a standard unit of measurement</td>
<td>A performance management system that makes energy performance visible</td>
</tr>
</tbody>
</table>
Highlights

Energy data for **540** GNB buildings entered into ENERGY STAR® Portfolio Manager® for tracking and monitoring - including schools and healthcare facilities

[Energy STAR® Portfolio Manager®]

**13,800** etonnes of emissions reduced in government-owned facilities

[4,200 CARS OFF THE ROAD]

Horizon wins **NB Power’s 2020 Energy Efficiency Excellence – Legacy Award**

Low-occupancy mode on snow days successfully implemented in **75%** of schools

4 virtual training sessions hosted for schools, hospitals and DTI Buildings Division with a total of **32** attendees

[Heads-Up Activity Demonstration/Walkthrough]
Background

Service New Brunswick (SNB) is a Part 1 Crown Corporation created to deliver shared services for the Government of New Brunswick with the express purpose of standardizing services and reducing costs. SNB’s vision is “excellence in service delivery,” and its mission is to provide high-quality, innovative services for customers with a focus on value for all New Brunswickers.

In 2013, under the former FacilicorpNB, energy management was offered as a service to the Regional Health Authorities. Since 2015, the Energy Management branch has reported to the Vice President of Health Services. The branch employs five staff and supports all parts of government with energy management.

In 2016, the Government of New Brunswick released Transitioning to a Low-Carbon Economy: New Brunswick’s Climate Change Action Plan (CCAP). Of the 118 action items in the CCAP, SNB assumed responsibility for developing and implementing a government-wide energy management and reporting system. This would ensure that all departments are accountable for energy consumption and corresponding GHG emissions (Action 113 of the CCAP).

This Annual Report highlights the activities and successes of energy management within government during the fiscal year ending March 31, 2021.
Energy Management branch

SNB’s Energy Management branch has implemented a government-wide energy management and reporting system to ensure all departments are accountable for energy consumption and corresponding greenhouse gas emissions. The branch works directly with the Regional Health Authorities, New Brunswick school districts, SNB laundry operations, community colleges, Department of Education and Early Childhood Development (EECD) and the Department of Transportation and Infrastructure (DTI).

The Energy Management branch spend for this fiscal year was $560,000, including salaries and federal initiatives. Natural Resources Canada contributed $370,000.

The branch consists of the following resources.

<table>
<thead>
<tr>
<th>Position</th>
<th>Team Member</th>
<th>Qualifications and Credentials</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Manager</td>
<td>Tim Cross, P. Eng.</td>
<td>Professional Engineer Certified Energy Manager 20+ years mechanical engineering and energy management experience</td>
</tr>
<tr>
<td>Energy Manager</td>
<td>Brent Godbout, P.Eng.</td>
<td>Professional Engineer Certified RETScreen Expert Infrared Training Centre (ITC)- Level 2 Thermographer Certification 17+ years mechanical engineering and energy management experience</td>
</tr>
</tbody>
</table>

**RESPONSIBILITIES:**

- Leads the development and implementation of energy management in Anglophone School Districts. Supports staff in taking action.
- Analyzes, monitors, and reports energy consumption and emissions, including measurement and verification of targeted results. Prepares success stories.
- Identifies, recommends, and supports operational improvements in collaboration with school facility staff to reduce energy consumption, and improve indoor air quality and thermal comfort. Includes using building management systems to identify anomalies and monitor trends in energy consumption, operating parameters, and performance indicators.
- Identifies information sharing, best practices, and professional development opportunities. For example, training to increase energy awareness and identify opportunities for improvements, and building management system technical sessions.
- Assists with feasibility and prepares business cases to address opportunities for energy conservation measures and improved energy efficiency.
- Collaborates with DTI and EECD to meet mutual mandates. For example, energy management expertise in K-12 curriculum development with EECD. Supports DTI Energy Efficiency and Renewable Program with opportunity initiatives, and measures and verifies that previous implementations are operating as expected. Also assists DTI with preventative maintenance contracts.
- Certifies ENERGY STAR® schools.
- Supports NBCC with ENERGY STAR® Portfolio Manager®.
### Position: Senior Energy Coordinator

**Team Member:** Fritz Mathurin, P.Eng.

**Qualifications and Credentials:**
- Professional Engineer
- 8+ years of mechanical engineering experience
- Energy Management training:
  - Energy Management Professional 101
  - BOMA Introduction to Recommissioning
  - Portfolio Manager 101

### Responsibilities:
- Leads the development and implementation of energy management in Francophone School Districts. Supports staff in taking action.
- Analyzes, monitors, and reports energy consumption and emissions, including measurement and verification of targeted results. Prepares success stories.
- Identifies, recommends, and supports operational improvements in collaboration with school facility staff to reduce energy consumption, and improve indoor air quality and thermal comfort. Includes using building management systems to identify anomalies and monitor trends in energy consumption, operating parameters, and performance indicators.
- Identifies information sharing, best practices, and professional development opportunities. For example, training to increase energy awareness and identify opportunities for improvements, and building management system technical sessions.
- Assists with feasibility and prepares business cases to address opportunities for energy conservation measures and improved energy efficiency.
- Supports CCNB with ENERGY STAR Portfolio Manager, energy management best practices and awareness.

### Position: Executive Director

**Team Member:** Kate Butler, P.Eng.

**Qualifications and Credentials:**
- Professional Engineer
- 13+ years of energy management experience

### Responsibilities:
- Develops, implements, monitors and reports on a government-wide energy management and reporting system to ensure GNB accountability for energy consumption and corresponding greenhouse emissions. Leads and ensures the coordination and effective implementation of energy management strategies.
- Directs and supports activities to improve the energy efficiency of provincially owned buildings (including healthcare facilities and schools).
- Liaises with Departments, other Parts of government, and other critical stakeholders (for example utilities, federal government, associations, etc.). Positions GNB as a leader in adopting innovative and effective energy management strategies.

Key contributors to success in energy management include integrating people, technology, and information into a continuous improvement process (Figure 1: Energy Management Approach). Energy Management, with this formalized process, builds an energy management culture that identifies energy conservation opportunities and efficiencies, and then supports associated activities that need to occur to sustain high performing buildings.

### Position: Energy Data Administrator

**Team Member:** Suad Aboabade

**Qualifications and Credentials:**
- Bachelor’s in Architectural Engineering
- 3 years of ENERGY STAR Portfolio Manager experience
- Office Administration Certificate

### Responsibilities:
- Implements and maintains the government-wide energy management and reporting system (ENERGY STAR Portfolio Manager).
- Gathers the relevant benchmarking data including building details, occupancy details, energy sources and energy billing information. Designs reports and dashboards. Develops and implements processes, including working with utility companies on data sharing and data transfer.
- Collaborates with utility companies and fuel suppliers to obtain billing and metering information. Collaborates with all Parts of government to obtain building details and occupancy information.

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**Figure 1: Energy management approach**

- **People**
- **Technology**
- **Information**

1. **Assess current situation**
2. **Set goals and targets**
3. **Implementation and operation**
4. **Review, evaluate and celebrate**
5. **Continual improvement**

*ISO 50001*
A key tool used by the branch is ENERGY STAR Portfolio Manager, a benchmarking tool. Benchmarking is the first critical step in managing a building’s energy performance. Use of this tool is made possible thanks to a financial contribution by Natural Resources Canada (NRCan).

The Energy Management approach prioritizes a model that is sustainable, with the objective of using the minimum possible energy while maintaining and/or improving patient, student and staff comfort levels in accordance with facility standards.

This comprehensive approach includes establishing:

- baselines and benchmarks;
- goals for reduction of utility consumption;
- recommendations for initiatives to meet energy savings targets and goals;
- implementing approved measures and optimizing operations; and
- monitoring and verification to ensure goals are met.
BENEFITS AND OUTCOMES
The collaborative and continuous improvement approach to energy management reduces energy consumption while producing several key benefits (Figure 2: Key Benefits).

Figure 2: Key Benefits

BENCHMARKING
Assessing the current situation – known as energy benchmarking – is that first critical step in managing a building’s energy performance.

“You can’t manage what you don’t measure”

Benchmarking provides a better understanding of how much energy is consumed and allows for comparison of energy consumption year over year. It also provides knowledge that allows for better decision making about energy performance and project priority.

Several factors affect a benchmark such as occupancy (including hours of operation, the number of staff, the number of students (in schools)), the ability to provide mechanical cooling, clinical (such as MRIs) and laundry equipment in healthcare facilities.

To ensure government accountability for energy consumption and corresponding greenhouse gas emissions, SNB implemented the energy management and reporting system ENERGY STAR Portfolio Manager in 2018, with financial support from Natural Resources Canada.

ENERGY STAR® PORTFOLIO MANAGER®
ENERGY STAR Portfolio Manager is a simple to use, web-based tool supported by Natural Resources Canada (NRCan). It is used to monitor and benchmark energy, water and waste use in buildings. Energy information allows for reporting greenhouse emissions from buildings as a result of energy consumption.

Energy data is entered from all energy sources, on a quarterly basis at minimum, by SNB. Energy sources include electricity, natural gas, propane, wood, wood pellets, oil, and diesel consumed by government-owned and operated facilities.

All New Brunswick schools, healthcare facilities, community colleges and several government-owned buildings have been entered into the system (Table 1: Number of Government-Owned Facilities in Portfolio Manager). It is estimated that more than 700 GNB-owned facilities will be entered by March 31, 2022.
Table 1: Number of Government-Owned Facilities in Portfolio Manager

<table>
<thead>
<tr>
<th>Department or Part of Government</th>
<th>Number of facilities as of March 30, 2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools</td>
<td>299</td>
</tr>
<tr>
<td>Healthcare facilities</td>
<td>64</td>
</tr>
<tr>
<td>Community colleges</td>
<td>26</td>
</tr>
<tr>
<td>Department of Transportation and Infrastructure-owned facilities</td>
<td>118</td>
</tr>
<tr>
<td>TOTAL</td>
<td>540</td>
</tr>
</tbody>
</table>

The ENERGY STAR Score rates the energy performance of commercial buildings relative to similar buildings nationwide. Expressed as a number on a simple 1-100 scale, the score rates performance on a percentile basis. A building with a score of 60 performs better than 60% of its peers. A high score means better energy efficiency, resulting in less energy use and fewer greenhouse gas emissions.

Portfolio Manager can report the benchmarks, baselines and current situation, and makes reporting of efficiency gains easily accessible. The key performance indicator is the ENERGY STAR score.

By creating a dashboard to see monthly or year-over-year changes, facility staff can observe and celebrate their successes (Figure 3: Portfolio Manager Dashboard).

Dashboards are customizable, and trends such as Weather Normalized Energy Utilization can be graphically represented. For example, energy performance of all Horizon sites has shown a steady decrease in consumption year over year (Figure 4: Horizon Weather Normalized Widget in the Portfolio Manager Dashboard).

SNB collaborates with the Department of Transportation and Infrastructure (DTI) Buildings Division to review performance from past energy project investments. Portfolio Manager is valuable in confirming that energy initiatives supported by the DTI Energy Efficiency Program are meeting expectations.

Anglophone School District West’s John Caldwell School is an excellent example of investments leading to results. After upgrades were made to building management controls through the DTI Energy Efficiency Program, there was a marked reduction in greenhouse gas emissions (Figure 5: Greenhouse Gas Emission Reductions at John Caldwell School). After these initial improvements, further measures were implemented to optimize energy performance at the school.
ENERGY STAR® CERTIFICATION

ENERGY STAR certified buildings are verified to perform in the top 25 percent of buildings nationwide, based on weather normalized source energy use that considers building occupancy, hours of operation, and other key metrics. Buildings can only use the certification mark if they earn a score of 75 or higher on Natural Resources Canada’s (NRCan) 1 to 100 energy performance scale and are verified by a licensed professional engineer or registered architect. SNB provides this certification service.

The following facilities were 2020 ENERGY STAR Certified for their superior energy performance (Table 2: 2020 ENERGY STAR Certified buildings):

<table>
<thead>
<tr>
<th>Facility</th>
<th>2020 ENERGY STAR Score</th>
</tr>
</thead>
<tbody>
<tr>
<td>Horizon’s Saint John Regional Hospital</td>
<td>90</td>
</tr>
<tr>
<td>Horizon’s Dr. Everett Chalmers Regional Hospital</td>
<td>79</td>
</tr>
<tr>
<td>ASD-West: Bliss Carman Middle School</td>
<td>93</td>
</tr>
<tr>
<td>ASD-West: Royal Road Elementary School</td>
<td>81</td>
</tr>
</tbody>
</table>
Engagement and awareness

The most important contributor to energy management is people. Technology and information are key, but without engaged staff and stakeholders, we will not achieve our goals.

By engaging staff and stakeholders, we can achieve a cultural change where energy management becomes a part of day-to-day operational best practices. Staff engagement includes building capacity, providing knowledge and tools, encouraging and offering training, and celebrating successes.

TRAINING SESSIONS

In order to support our clients, SNB hosted four virtual training sessions in February and March 2021, with the financial support of NRCan. These sessions were designed to introduce ENERGY STAR Portfolio Manager to building facility and operational staff. Thirty-two attendees from across government participated, including staff from schools, healthcare facilities, community colleges, and other government Departments.

One-on-one training has also been key. Energy managers have been instrumental in assisting school district staff with building automation system training, including sessions in:

- Exterior lighting controls;
- Control system response;
- Understanding of sequence of operations for systems, i.e. reset control schedules, demand response; and
- Improved interface training for scheduling.

CELEBRATE AND COMMUNICATE

Communication and awareness support the success of energy management. It engages and recognizes staff for their accomplishments and supports a cultural change to energy management best practices.

Schools, government and healthcare facilities are promoting success in energy conservation and efficiency both internally and externally, i.e. social media (Figure 6: Social Media postings by ASD-West and Horizon).

Figure 6: Social Media postings by ASD-West and Horizon

[Image of social media posts showing energy savings and successes]
Energy Management within government has been highlighted for its success in various publications both internally and externally.

Horizon received NB Power’s 2020 Energy Efficiency Excellence – Legacy Award, in recognition of their long-standing commitment and contribution to energy efficiency in New Brunswick. This success is the result of collaboration between Horizon, the Department of Transportation and Infrastructure, and Service New Brunswick’s Energy Management branch.

**ENERGY DASHBOARDS**

Real-time energy dashboards (Figure 7: Bliss Carman Middle School Dashboard) were developed for three schools in conjunction with ASD-West facility staff and educators. These will display energy consumption and environmental information at schools to engage students and staff. This rotating screen promotes ENERGY STAR scores in K-12 schools, offers views of real-time energy and water consumption, and suggests tips for reducing energy at school and at home. The intent is to engage students, teachers, facility users, parents and other school staff in understanding their actions and how they impact a building’s energy performance.

Figure 7: Bliss Carman Middle School Dashboard
Energy efficiency investment and results

Measures implemented in fiscal year 2020-2021 will fully realize energy reduction in fiscal year 2021-2022.

**Investments**
The Department of Transportation and Infrastructure’s Energy Efficiency and Renewable Programs invested $5 million in government buildings in fiscal year 2020-2021.

Investments include:

- updating controls in schools, such as replacing pneumatic controls with direct digital controls (DDC) to allow for more accurate control of thermal and humidity levels;
- optimizing operations and infrastructure repairs at schools and healthcare facilities;
- implementing more environmentally friendly fuels, including phase 1 installation of a pellet boiler at Upper River Valley Hospital; and
- increasing use of energy metering to “make energy visible”, which will allow for real-time reaction to issues and anomalies in energy consumption and demand. For example, options are currently under evaluation for an Energy Management Information System in the Saint John Laundry plant.

**Energy Management Best Practices**
Energy managers support school districts in a number of ways to improve energy performance, including:

- supporting operators in maximizing snow day mode and holiday schedules, using setback strategies such as reducing temperatures and ventilation when schools are in low-occupancy mode because of school closures (Figure 8: School Closure Reductions);
- recommissioning of control modes/schedules with corrective action;
- monitoring and maximizing heat recovery operations;
- upgrading control system and HVAC to improve operations and zone control;
- providing one-on-one training in strategies to save on demand (kW), the rate at which electricity is consumed;
- improving graphics and control interfaces for rapid response and verification of operational modes;
- resolving offline controls and meter issues, facilitating controls access for operators and providing them with one-on-one training; and
- supporting COVID-19 response for building operations (Figure 8: School Closure Reductions).

**Figure 8: School Closure Reductions**

| Expanded holiday and snow day modes in school districts resulted in $1M cost avoidance and 3,500 tonnes of ghg reduction | COVID-19 school closure response resulted in $1.2M cost avoidance and 4,100 tonnes of ghg emission reduction |

Investments in Fiscal Year 2020-2021

<table>
<thead>
<tr>
<th>Category</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schools</td>
<td>$1,776,000</td>
</tr>
<tr>
<td>RHAs</td>
<td>$733,000</td>
</tr>
<tr>
<td>Community Colleges</td>
<td>$349,000</td>
</tr>
<tr>
<td>Other (SNB DTI etc.)</td>
<td>$2,090,000</td>
</tr>
</tbody>
</table>
ACHIEVING RESULTS

Energy reduction is a combined result of operational improvements and energy efficiency investments made in previous years. Investments made within the year will typically not yield full energy reduction until one year post-completion.

Cost avoidance is calculated by applying the actual energy rates for a given year to the total amount of energy reduction for that year. Energy reduction is measured against an Energy Baseline Year that has been normalized for weather, to ensure that the calculated energy reduction is the result of upgrades and operational improvements, and not because of a change in weather. For example, a warmer winter would also result in less energy use over the winter and is not included in the energy reduction.

An Energy Baseline Year is the timeframe used to capture the energy baseline for performing weather normalization and comparing future energy analysis. The baseline year is typically adjusted every four or five years in consideration of timelines, “new” normal operations, and implementation of energy initiatives.

SNB Energy Managers are active with energy management strategies in schools and in Horizon Health Network facilities. Table 3: Reductions against weather normalized baseline year demonstrates the consistent success of DTI Energy Efficiency investments combined with energy management best practices. Figure 9: Reduction in greenhouse gas emissions by school district and healthcare facility, provides further detail on reductions in greenhouse gas emissions in school districts and healthcare facilities.

*Reduction when schools were unoccupied due to COVID-19 and responded by switching to unoccupied mode ($1.2M cost avoidance) form part of this total.

**Table 3: Reductions against weather normalized baseline year**

<table>
<thead>
<tr>
<th>Department/Part of Government</th>
<th>Energy Reduction (ekWh)</th>
<th>Cost Avoidance ($)</th>
<th>GHG emission reduction (etonnes)</th>
</tr>
</thead>
<tbody>
<tr>
<td>NB Schools*</td>
<td>28,000,000</td>
<td>$2,500,000</td>
<td>7,880</td>
</tr>
<tr>
<td>Horizon Health Network</td>
<td>18,000,000</td>
<td>$1,400,000</td>
<td>4,488</td>
</tr>
<tr>
<td>Saint John Laundry</td>
<td>4,300,000</td>
<td>$700,000</td>
<td>1,100</td>
</tr>
</tbody>
</table>

*Reduction when schools were unoccupied due to COVID-19 and responded by switching to unoccupied mode ($1.2M cost avoidance) form part of this total.

**Figure 9: Reduction in greenhouse gas emissions by school district and healthcare facility**

Several energy reduction measures in schools have contributed to the 7,880 tonnes of reduction shown in Table 3. The following are examples of implemented measures and their results in several schools.
Simple improvements such as mitigating leakage of cold air into the gym will yield results.

- Removed old and leaky air dampers in the gym and installed new, tight-sealing dampers.
- Programmed heating and ventilation system for night setback.

Corrected schedules and modes where equipment was not responding to controls programming. Implemented demand reduction strategies.
Proper scheduling means that heating and ventilation systems are turned on only when required and turned off during unoccupied times such as overnight and weekends. (Some weekends have occupied times and schedules are adjusted for areas and times of occupancy.)

Infrastructure upgrades, in conjunction with Building Automation System optimizations and energy efficiency training, resulted in a 35.6% reduction in greenhouse gas emissions.

Ecole Abbey-Landry (DSF-S) Extended holiday scheduling resulted in a sharp decrease in energy consumption over the year-end holiday break period.
COVID-19 AND HEALTHCARE FACILITY OPERATIONS

Operations were impacted at a number of healthcare facilities as a result of the COVID-19 pandemic. The pandemic drove an increase in the number of isolation rooms, as well as modified ventilation requirements, including designated areas for potential COVID-19 patients. In some cases, modifications were made to the air handling unit systems to intake 100% fresh air and exhaust air 100%. In the colder seasons, this greatly increased the demand on heating systems. Although energy consumption increased in some cases, energy monitoring allowed for confirmation that the increase was directly correlated to these COVID-19 mitigation measures.

As well, meeting operational needs formed the priority in healthcare facilities during the pandemic and thus energy initiatives were limited.

Effects of COVID-19 on Energy Consumption (Miramichi Regional Hospital)

NEXT STEPS

In the coming year, the SNB Energy Management branch will:

- complete data entry in the energy management and reporting system for all government-owned facilities (approximately 740 buildings total);
- continue to monitor and report on energy consumption, costs and projects, as well as on carbon dioxide emissions for all government-owned facilities;
- begin monitoring water consumption and costs;
- continue collaborating with DTI to find energy investment opportunities;
- continue to engage staff with Energy Management Information Systems (EMIS) and building analytics, and search out other opportunities for sharing best practices;
- re-certify SJRH and DECH for 2021 ENERGY STAR Certification, and certify one additional healthcare facility; and
- re-certify Bliss Carman Middle School and Royal Road Elementary School for 2021 ENERGY STAR Certification, and certify two additional schools in NB.

SNB applied for and was successful in receiving Natural Resources Canada (NRCan) funding to implement ISO 50001: Energy Management Systems (EnMS). The objective of this project is to implement an EnMS in accordance with all the criteria of the ISO 50001 standard to reduce costs, improve energy performance and, in turn, reduce greenhouse gas emissions. This process will be separate for schools and healthcare facilities as they are different parts of government with different leadership and organizational structures. The target completion date is March 31, 2022.
Conclusion

SNB’s Energy Management branch can claim numerous successes in the 2020-2021 fiscal year, in pursuit of its mandate to help government set and meet energy conservation goals. The database of government building data logged in ENERGY STAR Portfolio Manager was significantly expanded, training sessions were conducted for staff in government-owned facilities, and energy conservation efforts were maximized in all 7 NB school districts. In addition, Horizon Health won a 2020 NB Power Energy Efficiency Excellence Award, thanks in part to the contributions of SNB Energy Management. These efforts have resulted in a 13,800-tonne reduction in emissions during this fiscal year in government-owned facilities.

By engaging all stakeholders and focusing on a culture of improvement and recognition, Energy Management creates measurable improvements in energy conservation and has laid the foundation for further success in the coming years.