St. Joseph's Continuing Care Centre of Sudbury
Energy conservation and demand plan

January 2025 – December 2029



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Introduction

St. Joseph's Continuing Care Centre (SJCCC) is a 55000 square feet 64-bed class E and class G hospital that opened on June 1, 2009, as the first stand-alone continuing care facility in the North East Ontario Health region. St. Joseph's Continuing Care Centre contributes to an expanded continuum of care for the Sudbury area and will nurture the body, mind, and spirit of all patients at various stages of their life journey.

On April 6, 2020, in response to a community need for additional capacity to respond to the threat of COVID-19, 30 additional AHF beds were opened at an alternate location as an expansion to the services already provided at St. Joseph's Continuing Care Centre on South Bay Road. Further expansion was completed on October 5th for a total number of 60 beds at the Elm Street location.

JCCC is building a new facility with 72 rehabilitation beds. The first phase of 36 beds will open in fall 2024, with the remaining 36 beds to follow in late fall 2025. This will facilitate the transition of the 60 beds from the Alternate Health Care Facility to a new permanent location.

SJCCC offers specialized care to persons in need of rehabilitative, supportive, or transitional care to enhance their functional abilities. We aim to assist patients in returning to independent living, whether that means going back home, moving to a retirement residence, or transitioning to an assisted living facility. Our approach focuses on rehabilitative and restorative care, tailored to each patient's specific requirements. This includes daily participation in functional activities, engagement in therapy programs to regain independence in tasks like dressing and grooming, and utilizing therapy resources like a gym, kitchen, and laundry facilities to support higher-level tasks. Additionally, patients receive personalized discharge planning to facilitate a successful transition back into the community.

Our Mission
As a Catholic organization, we faithfully continue the healing Mission of Jesus and respond to the needs of the whole person - body, mind and spirit.

Our Vision
Enriching Quality of Life…compassionate care, innovation and discovery.

Our Values
Guided by our core values of ***Dignity***, ***Excellence***, ***Service*** and ***Integrity*** we will promote spiritual, physical, emotional and social well-being.

SJCCC's energy conservation and demand management (CDM) plan targets performance improvements for the main site on South Bay Road and the newly constructed site on Lasalle Boulevard, as well as the alternate health care facility at the Clarion Hotel. The CDM encompasses improvement strategies in energy consumption, systems, and equipment upgrades, as well as environmental education while remaining consistent with SJCCC's Commitment Statement and Strategic Objectives. SJCCC will remain compliant with the new Electricity Act, O-Reg 507/18 and the Green Energy Act 2009, O-Reg 397/11.

Goals and Objectives

St. Joseph's Continuing Care Centre remains steadfast in its commitment to enhancing energy efficiency and curbing Greenhouse Gas emissions (GHG). The 2025 to 2029 Strategic Plan underscores SJCCC's pledge to uphold accountability in all interactions and diligently steward all resources.

SJCCC intends to capitalize on financial incentive initiatives such as the Hospital Infrastructure Renewal Fund (HIRF) and Hospital Energy Efficiency Program (HEEP) to facilitate equipment upgrades and efficiency enhancements. Certain opportunities may necessitate exploration of alternative funding avenues, with decisions made on a case-by-case basis following comprehensive cost-benefit evaluations.

1. Awareness
   SJCCC will demonstrate its commitment to environmental stewardship by actively engaging our Senior Management team and Environmental Services in guiding and contributing to initiatives concerning waste stream management, construction and product consumption, energy conservation, and educational and research endeavors. Additional efforts will be made to educate all staff members, from Senior Management to frontline personnel, on reducing greenhouse gas emissions and implementing sustainable practices in the workplace.

2. Building Innovation / Initiatives
   1) Multiple initiatives will be launched to enhance overall energy efficiency. Improvements to plant engineering services responsible for heating and cooling will directly impact electricity and natural gas consumption. These endeavors, requiring substantial financial investment for equipment and installation and are intended for long-term benefits. Additionally, efforts will persist in enhancing building insulation to bolster energy efficiency.

   2) We will arrange for an updated energy audit encompassing both main locations and conduct a peer benchmarking among our sites to compare efficiencies and identify best practices from each location.

   3) Concurrently, we will undertake a Solar Energy Feasibility Study to meticulously evaluate the technical and financial viability of integrating solar energy. This study will ascertain potential energy generation capacity, cost savings, return on investment, and identify any potential challenges or risks associated with the project, facilitating well-informed decisions regarding implementation.

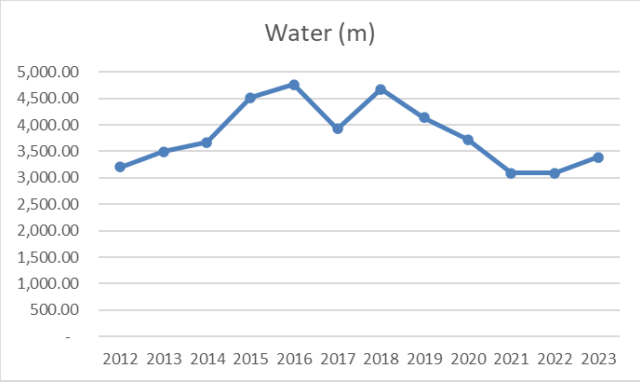
   4) Ongoing assessment and implementation of smaller-scale projects will persist to diminish energy usage. We will continue to monitor the efficiency of building automation systems to maximize the benefits of Variable Frequency Drives (VFD) on fans and motors, thereby moderating energy consumption by regulating motor speeds rather than relying on the traditional on/off approach. Additionally, we will prioritize replacing conventional pumps and motors with energy-efficient units. We will also continue to replace older appliances with Energy Star rated equipment.

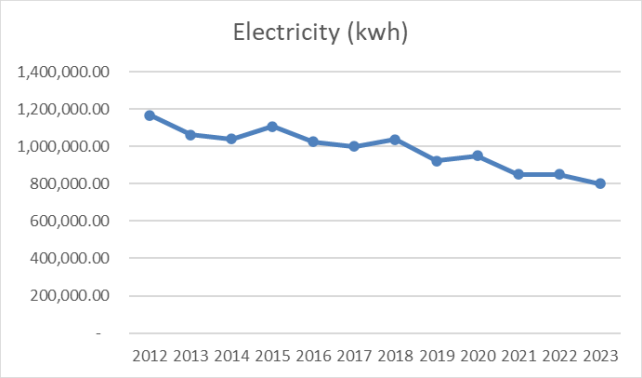
Initiatives

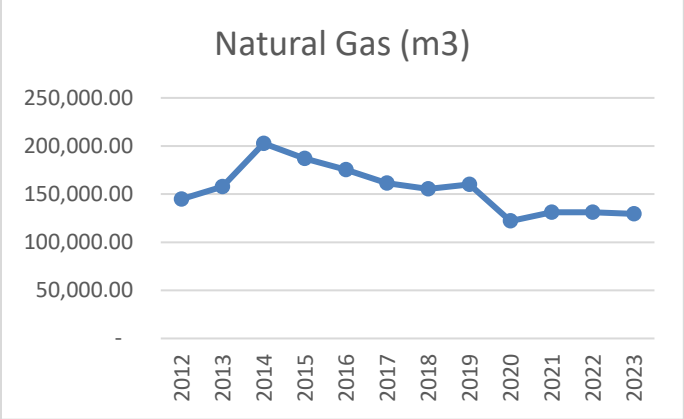
Site	Initiative	Energy component	Goals	Anticipated year of completion
SBR	Improve building insulation	Natural Gas Electricity	50% completion of soffit insulation and ventialtion	2025
	Energy Audit	Natural Gas / Electricity / Water		2026
	Solar Energy Feasibility Study	Electricity		2028
	Replacement of mechanical equipment with energy efficient units.	Electricity	Replace Chiller	2029

3. Consumption

Year	Water (m)	Electricity (kwh)	Natural Gas (m3)
2012	**3,200.00**	**1,166,286.33**	**144,672.01**
2013	**3,497.00**	**1,061,466.63**	**157,574.41**
2014	**3,673.00**	**1,039,320.00**	**202,706.06**
2015	**4,520.00**	**1,107,540.00**	**187,030.73**
2016	**4,760.00**	**1,023,840.00**	**175,288.02**
2017	**3,931.00**	**999,024.12**	**161,391.77**
2018	**4,677.00**	**1,037,551.49**	**155,518.37**
2019	**4,137.00**	**923,309.64**	**159,943.89**
2020	**3,722.00**	**949,371.12**	**122,005.06**
2021	**3,093.23**	**849,710.16**	**131,269.00**
2022	**3,093.23**	**849,710.16**	**131,269.00**
2023	**3,387.99**	**798,866.47**	**129,432.00**







Achievements

SJCCC South Bay Campus

Year	Project
2017	Parking light LED conversion
2019	Public Washrooms converted to hands free lighting and plumbing fixture.
2021	Upgrade to buildings automation system
2023	Conversion of all buildings lighting fixtures to LED
2023	Replacement of 68 windows
2024	Re-insulated a 50-foot span on the Northeast side of the building

By putting these measures into practice, we not only diminish our ecological impact but also improve cost-effectiveness and operational efficiency. We recognize that every small action adds up to significant change. We are steadfast in our commitment to conservation and collective efforts for a more sustainable future. Gratitude extends to all our staff for their dedication to this vital cause.