

Unity Health Toronto Sustainability Plan 2024-29

Fulfills the O. Reg. 25/23 Energy Conservation and Demand Management Plan 2024-29, and expands to non-building energy use related greenhouse gas emissions

Published July 1, 2024

A Message from the Executive Team

As the climate continues to change, we will see impacts to our health and well-being, and in turn, our healthcare system. The strong interconnectedness between environmental and human health drives us to continue on our sustainability journey. The Unity Health Toronto 2019-24 Strategic Plan formally commits to addressing environmental issues by investing in our future, building a nimble culture that makes decisions through a value lens, and being stewards of the environment by reducing the impact we have on the planet. As a part of this commitment, we are delighted to share the strides we are making through the Unity Health Toronto Sustainability Plan 2024-29, highlighting some of the steps we are taking on our journey towards sustainable and net-zero healthcare.

Over the past decade, Unity Health has successfully implemented major energy conservation and demand management projects. These experiences allowed Unity Health to identify additional energy conservation and demand management opportunities. The Unity Health Toronto Sustainability Plan 2024-29 will allow St. Joseph's, St. Michael's, and Providence to apply this knowledge as we continue to be a leader in energy conservation and demand management.

We encourage each of you to contribute actively to the success of this plan by adopting energy-efficient practices, embracing innovation, and collectively working towards a greener and more sustainable future. Thank you for your ongoing commitment to Unity Health's mission and values.



Dean Martin

Executive Vice President of Corporate Services & Chief Financial Officer
Sponsor of the Environmental Sustainability Advisory Committee



Michael Keen

Vice President of Facilities and Planning

Table of Contents

1	Introduction.....	1
1.1	Organizational Integration.....	2
1.2	Beyond Building Energy Use.....	2
2	Goals and Objectives for 2024-29.....	4
2.1	Sustainability Strategy, Goals and Objectives	5
2.2	Partnerships and Collaboration	9
3	Review of 2019-23.....	10
3.1	Annual Energy Consumption	10
3.2	Annual Greenhouse Gas Emissions	12
4	Energy Use Intensity (EUI) and GHG Intensity Benchmark	13
4.1	Network-Wide Benchmarks.....	13
4.2	Benchmark with Peers.....	15
5	Current and Proposed Measures	17
5.1	Previous Measures.....	17
5.2	Current Measures	19
5.3	Proposed Measures	21
6	Renewable and Ground Source Energy	22
7	Conclusions and Next Steps.....	22
	Appendix A: Unity Health Toronto Energy Consumption and Greenhouse Gas Emission, 2017-23.....	23

List of Tables

Table 5-1. Top 10 Energy and GHG Reduction Measures, 2019-24.....	17
Table 5-2. Examples of Current Measures (not inclusive)	19
Table 5-3. Proposed Measures, 2024-29.....	21

List of Figures

Figure 1-1. Unity Health's Carbon Footprint.....	3
Figure 2-1. Unity Health's Strategic Plan 2019-26.....	4
Figure 2-2. Unity Health's Sustainability Strategy.....	5
Figure 3-1. Energy Use Distribution Per Site, 2023.....	10
Figure 3-2. Annual Energy Use and Square Footage, 2011-23.....	11
Figure 3-3. GHG Emissions from Use of Electricity, Natural Gas and Steam, 2011-23	12
Figure 4-1. Unity Health Toronto Energy Usage Intensity (EUI) Benchmark, 2023	13
Figure 4-2. Unity Health Toronto GHG Intensity Benchmark, 2023	14
Figure 4-3. Energy Use Intensity Benchmark, Health Organizations with Operations Located in Toronto, 2021.....	15
Figure 4-4. GHG Emissions Intensity Benchmark with Health Organizations with Operations Located in Toronto, 2021.....	16

1 Introduction

In the last five years, Unity Health Toronto (Unity Health) has embarked on a transformative journey towards sustainable healthcare. Climate change is not only a threat to the environment and economy; it is also a threat to public health. Reducing greenhouse gas (GHG) emissions aligns with our mission to providing compassionate physical, emotional and spiritual care to all in need.

Building on the Energy Conservation and Demand Management (ECDM) Plan 2019-24, Unity Health has continuously expanded initiatives to address the broader impact that our healthcare operation poses on the climate crisis. In addition to addressing GHG emissions produced from energy consumption, Unity Health has started to assess how we can influence GHG emissions associated with clinical practice, supply chain, and transportation.

The Unity Health Toronto Sustainability Plan 2024-29 (Sustainability Plan) builds on and furthers the ECDM Plan 2019-24, and continues to fulfill Ontario Regulation 25/23 of the Electricity Act to publish an updated five-year ECDM Plan by July 1st, 2024. We will continue to evolve the Sustainability Plan over the next 5 years as the industry advances. We strive to contribute to a healthier, more sustainable future for our community and patients.

1.1 Organizational Integration

Founded on August 1st, 2017, Unity Health brought St. Joseph's Health Centre (St. Joseph's), St. Michael's Hospital (St. Michael's), and Providence Healthcare (Providence) into one corporate entity. While each site had its own ECDM Plan prior to the amalgamation, the ECDM Plan 2019-24 was the first integrated ECDM Plan across all three sites.

As we implemented energy conservation measures, we have learned that each campus faces its own challenges and presents site-specific opportunities. We are streamlining our internal processes guided by the ISO 50001 framework, scaling best practices from one campus to the others.

During the development of the Sustainability Plan, the Energy and Sustainability Team took the lead and engaged with stakeholders from Planning and Redevelopment, Operations and the Environmental and Sustainability Advisory Committee, and incorporated the feedback.

1.2 Beyond Building Energy Use

One of the most important and bold steps we made, was to expand our scope beyond scope 1 and 2 GHG emissions to include scope 3 GHG emissions. Our next five-year plan will expand GHG reduction efforts into scope 1, 2, and 3 GHG emissions coming from sources other than the use of energy.

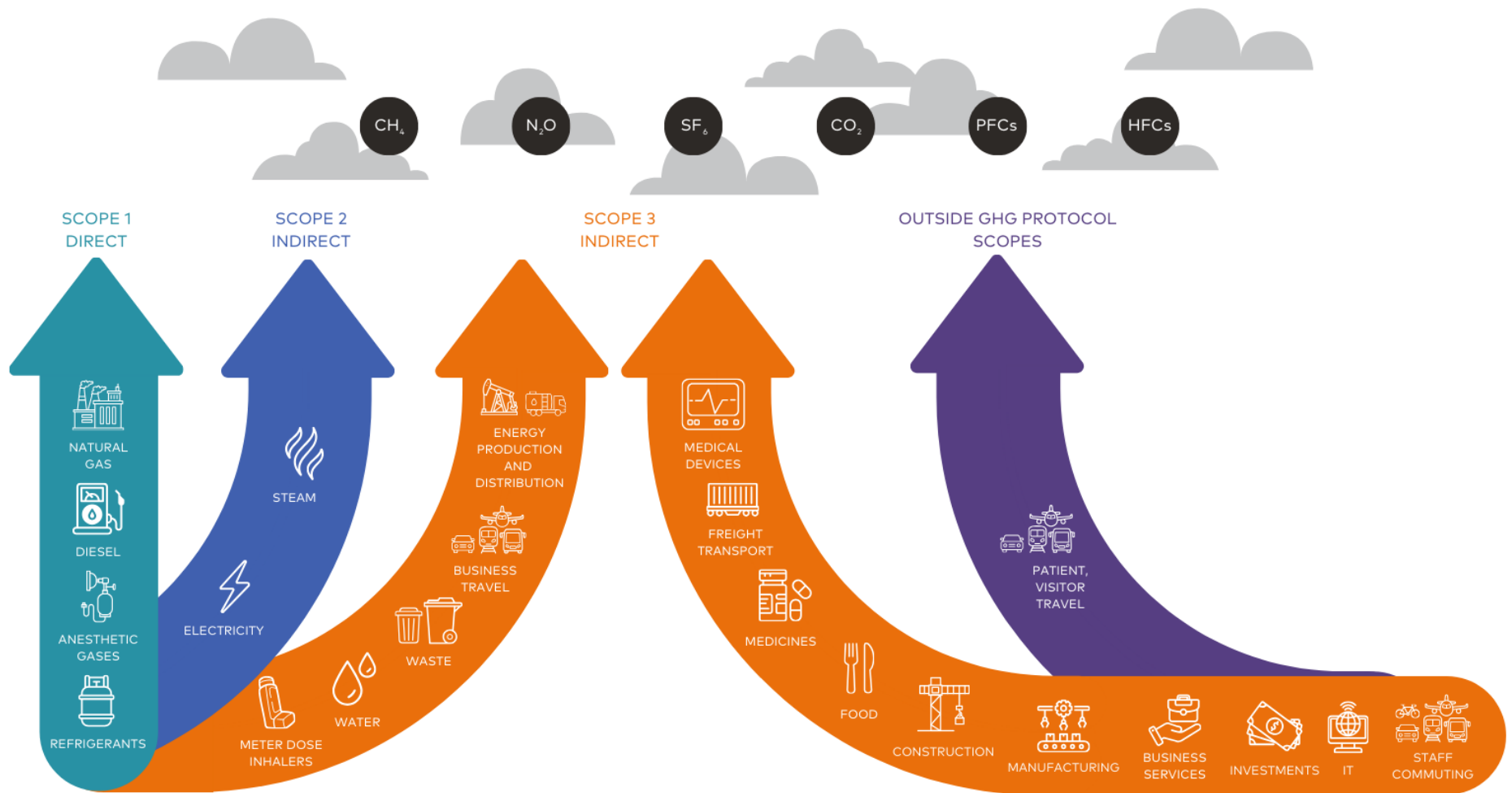


Figure 1-1. Unity Health's Carbon Footprint.

2 Goals and Objectives for 2024-29

As part of Unity Health's [Strategic Plan 2019-26](#), one of nine strategic components is *investing in our future* – we will build a more nimble culture that makes decisions through a value lens and will be stewards of the environment by reducing the impact we have on the planet on our journey towards sustainability and net-zero healthcare.



Our Mission

Unity Health Toronto is a Catholic health care organization providing compassionate physical, emotional and spiritual care to all in need. We advance excellence in health care through world-class education, research and innovation.

Our Values

COMMUNITY
EXCELLENCE
COMPASSION
HUMAN DIGNITY
INCLUSIVITY

Figure 2-1. Unity Health's Strategic Plan 2019-26.

2.1 Sustainability Strategy, Goals and Objectives

Our Sustainability Strategy was founded on four key pillars: energy, redevelopment, procurement, and culture and engagement, with specific goals established for each.



Figure 2-2. Unity Health's Sustainability Strategy.

We will continue to inventory scope 1 (direct) GHG emission sources, including natural gas, diesel, anesthesia gases, and refrigerants, and scope 2 (indirect) GHG emission sources, including electricity and steam. We will work to expand the GHG inventory to include diesel used in auxiliary equipment (e.g. snow plows), and follow industry trends to expand the GHG inventory to sources that we are not able to quantify with current knowledge. We are exploring the next step on evaluating our organization's ability to be resilient as it relates to impacts of climate change. These goals are integral to our overall strategy, requiring collaboration and dedication from all levels of our organization. Unity Health remains steadfast in integrating sustainability into our operations, and the Sustainability Plan serves to guide our efforts.

Energy

Existing Facilities: Reduce GHG Emissions by 50% by 2040.

We are committed to a substantial reduction of GHG emissions from our existing facilities. By 2040, our aim is to achieve a 50% reduction without purchasing carbon credits, demonstrating a long-term commitment to sustainability and environmental stewardship. This target aligns with the goals of the broader industry, Federal government, and the City of Toronto, and underscores our dedication to making a meaningful impact on climate change.

Existing Facilities: Reduce GHG Emissions by 20% by 2030.

In the short term, we will implement measures to steadily reduce our GHG emissions, showcasing our commitment to continuous improvement and a proactive approach to mitigating our environmental impact.

Redevelopment

Set and Monitor Sustainability Targets and Key Performance Indicators for Each Project.

While it is a significant undertaking, we are committed to not increase total organizational GHG emissions as Unity Health continues to grow and increase the square footage of our portfolio to serve more patients. We will set and monitor targets and key performance indicators that support the Sustainability Plan for each redevelopment project, thereby leveraging our need for ongoing capital redevelopment at Unity Health as an opportunity to enhance sustainability in our existing facilities.

Procurement

Build Awareness of the Impacts of Climate Change on Procurement and Supply Chain.

Many severe climate events have affected Canada in the recent past, and they are increasing in severity and frequency. In the past, climate events have affected healthcare procurement and supply chains. We will engage with our internal and external stakeholders to build awareness of these impacts. By understanding the vulnerabilities and challenges posed by climate change, we can proactively address risks and adapt strategies to ensure continuity and efficiency. Educating our staff and partners about these impacts helps us to develop informed, forward-thinking approaches that not only mitigate adverse effects but also capitalize on opportunities for innovation and sustainability.

Engage with Our Suppliers to Communicate Our Sustainability Values to Learn and Collaboratively Advance Our Climate Mitigation and Resiliency Efforts.

By fostering open dialogue and partnership with our suppliers, we can ensure that our commitment to environmental stewardship is reflected throughout our supply chain. This collaborative approach not only helps us learn from each other's experiences and innovations but also strengthens our collective impact. Together, we can implement best practices, reduce our environmental impact, and build a supply chain that remains resilient during climate events, so that we can continue to deliver the best care experiences.

Incorporate Equity, Diversity, and Inclusion (EDI), and Sustainability Scoring into the Procurement Criteria.

At Unity Health, we recognize that racism, discrimination and inequity are fundamental barriers to people realizing their full potential. Our Council on Anti-Racism, Equity and Social Accountability is actively working at all levels of the organization to address and remove these obstacles. As part of this effort, we are dedicated to incorporating equity, diversity, and inclusion (EDI), as well as sustainability scoring into the procurement criteria.

Reduce Food-Related GHG Emissions – Reduce Red Meat Menu Options by 60% and Increase Plant-Forward Menu Options by 60% by 2030; Reduce Food and Disposable Item Waste by 75% by Weight by 2035.

Animal and plant-based proteins contribute to 80 to 90% of an organization's food-related GHG emissions¹. Unity Health is committed to track the quantities of food purchases by weight, and actively work to reduce our food-related GHG emissions to support and align with the Paris Climate Agreement.

Risk

Bring Awareness and Visibility to Climate Change Risks.

The corporate risk register reflects the highest risks and the highest emerging risks – climate change is one of those risks we have been monitoring since 2021. Corporate risks are discussed and validated quarterly with the Executive Team and respective board committees with assigned accountability. We will continue to work with departments across the organization to bring awareness and visibility to risks that climate change poses to Unity Health and the healthcare sector.

¹ Coolfood, The Coolfood Pledge, retrieved on June 13, 2024 from <https://coolfood.org/pledge/>

Culture and Engagement

Continue to Build Capacity and Knowledge Across the Organization to Reduce Direct and Indirect GHG Emissions.

As a part of our Strategic Plan 2019-26, we are committed to building a culture that makes decisions through a value lens and capacity to reduce our environmental impact. We have been actively engaging with various departments throughout Unity Health to advocate for the integration of sustainability within current practices. We are committed to continue this crucial effort to ensure we take a holistic approach, engaging with all employees to communicate and align with our Sustainability Plan.

2.2 Partnerships and Collaboration

The pathway towards net-zero GHG emissions takes joint effort. We will continue to grow our networks together and share knowledge in order to accelerate decarbonization in both our organization and the healthcare industry. As part of this effort to foster collaboration on a collective goal towards net-zero, we are active members of several sustainability communities, including industry-specific and general not-for-profit organizations. Our approach is to adopt the best practices in our organization and leverage the collective strength to elevate industry standards.

During a peer scan, we drew inspiration from both our Canadian counterparts and international organizations. Healthcare is an essential service for everyone, regardless of location. Thus, while collaborating with our local networks, we do not limit ourselves to Canadian practices. We continue to explore decarbonization pathways on a global scale, with the ambition to become a national and a global leader in sustainable healthcare.

3 Review of 2019-23

3.1 Annual Energy Consumption

Unity Health owns and operates three campuses. St. Michael's Hospital Campus is the largest of the three campuses, consisting of St. Michael's Hospital, Health Centre and Administration Offices, and Li Ka Shing Knowledge Institute. This campus contributes to 61% of the organization's energy use, while St. Joseph's Health Centre contributes to 27%, and Providence Healthcare contributes to 12%.

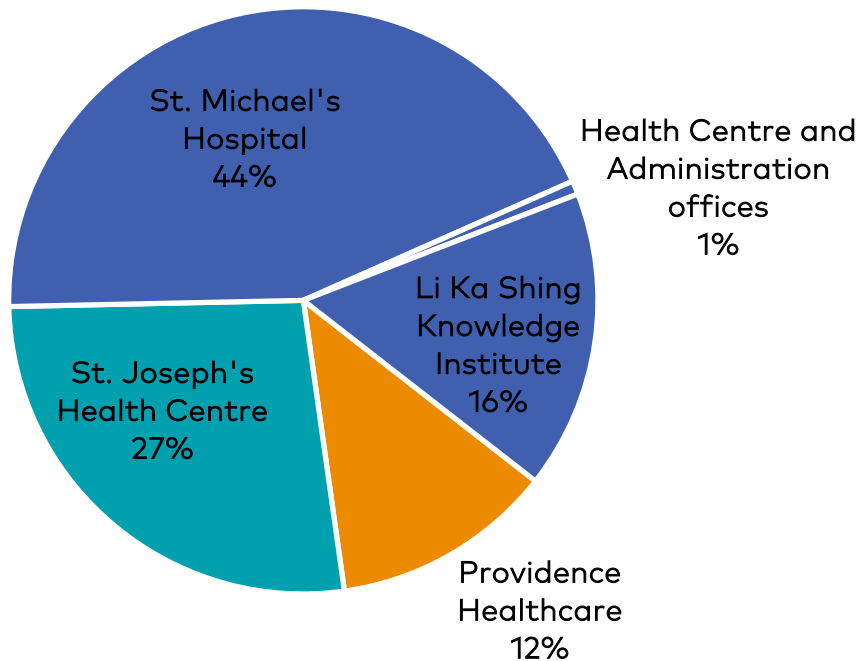


Figure 3-1. Energy Use Distribution Per Site, 2023

In the ECDM Plan 2019-24, Unity Health committed to a reduction of 2,000 MWh annually. Despite having met or exceeded this target, our overall energy use still increased due to hospital redevelopment and COVID pandemic operation.

At the beginning of the COVID pandemic, Unity Health implemented work-from-home policies in March 2020. We observed a small decrease in energy use, likely associated with reduced office use. After the first few months of pandemic shutdowns, Unity Health quickly adopted pandemic operation protocols to allow safe return to normal service levels. Protocols included stopping of return air re-circulation and switching to 100% fresh air intake. Such operation required significant increased energy use to heat or cool outdoor air. Unity Health also installed many new lab and diagnostic equipment, such as MRIs and additional plug loads, to increase COVID testing capacity and turnaround times.

As a result, our energy use increased in 2021 and 2022. In 2023, we have phased in return to normal operation, where we observe a decrease in energy use.

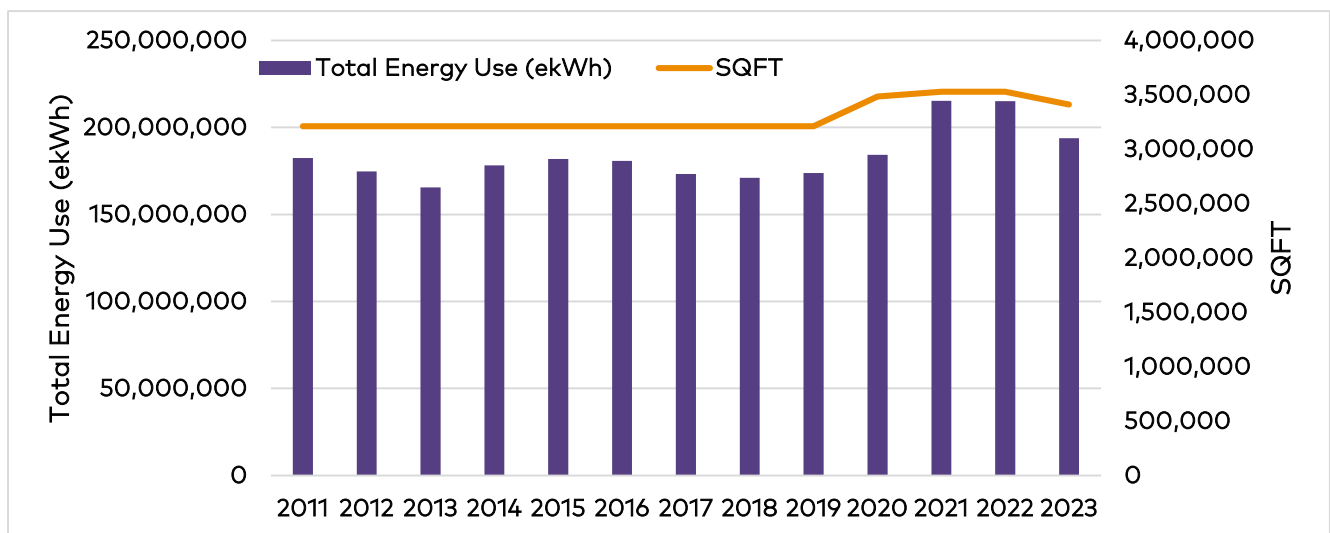


Figure 3-2. Annual Energy Use and Square Footage, 2011-23

In 2020, Unity Health took occupancy of the new Peter Gilgan Patient Care Tower at St. Michael’s Hospital, adding 9% of square footage to our portfolio. In fall 2022, demolition of St. Michael’s Hospital’s Shuter Wing started. Although the wing only contributed to 3% of total square footage, the wing is the oldest and had the highest energy intensity among all buildings.

3.2 Annual Greenhouse Gas Emissions

Unity Health's GHG emissions trended down from 2011. The post-COVID pandemic (i.e. 2023) emissions returned to levels similar to pre-COVID pandemic (i.e. 2020), and were 15% below emissions in 2011.

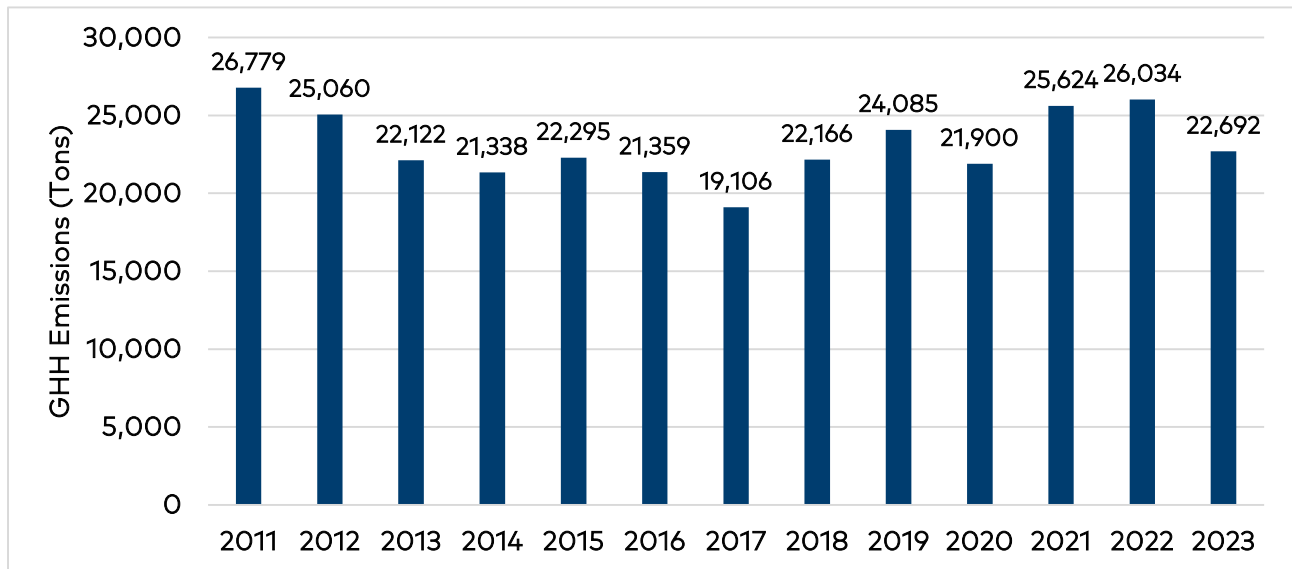


Figure 3-3. GHG Emissions from Use of Electricity, Natural Gas and Steam, 2011–23.

GHG emissions are determined by energy use, as well as impacted by the GHG intensity of the grid. Unity Health purchases steam from a district heating supplier, and continuously advocates for the vendor to transition to a low-carbon solution.

4 Energy Use Intensity (EUI) and GHG Intensity Benchmark

4.1 Network-Wide Benchmarks

Among Unity Health's portfolio, Li Ka Shing Knowledge Institute has the highest EUI and GHG intensity. The building is a research building consisting of boardrooms, labs, and an animal vivarium. It is common for research buildings have a higher energy intensity.

The Health Centre and Administration Offices have the lowest intensities. The building hosts day clinics operating 9 a.m. to 5 p.m., Mondays to Fridays. The building uses heat pump technology as part of the HVAC system, which has low energy use, scoring 100 in the Energy Star Portfolio in the medical office category.

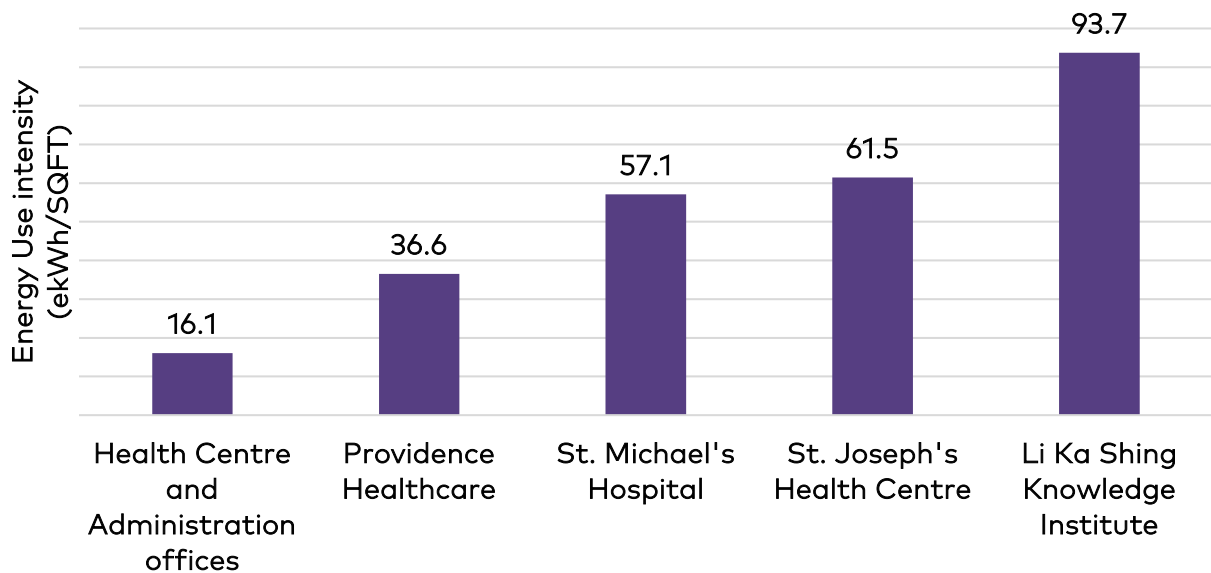


Figure 4-1. Unity Health Toronto Energy Usage Intensity (EUI) Benchmark, 2023.

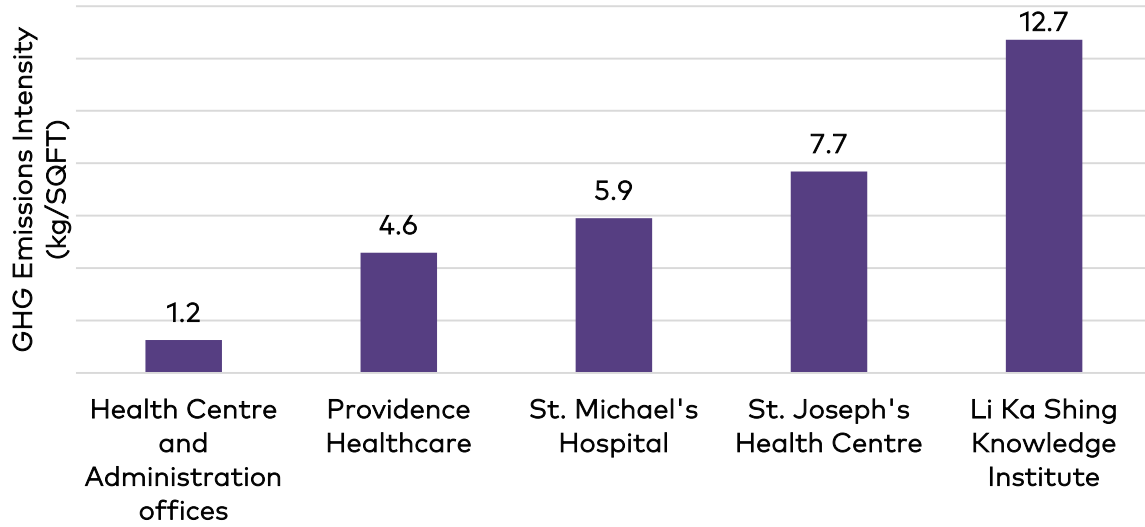


Figure 4-2. Unity Health Toronto GHG Intensity Benchmark, 2023.

4.2 Benchmark with Peers

The Ministry of Energy posts energy use and GHG emissions for the Broader Public Sectors. Unity Health retrieved reported data for healthcare organizations, which operate in Toronto. As shown in Figures 4-3 and 4-4, Unity Health’s EUI was slightly above the median and GHG intensity was the fourth highest.

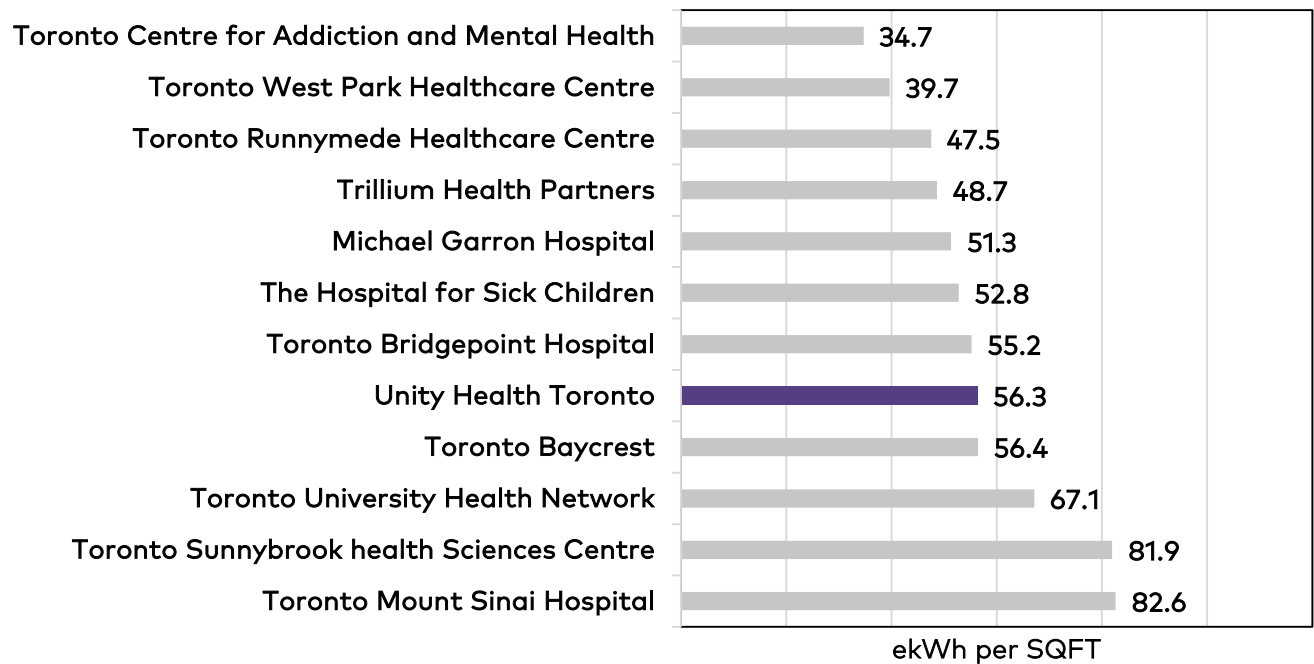


Figure 4-3. Energy Use Intensity Benchmark, Health Organizations with Operations Located in Toronto, 2021 equivalent kWh per square footage².

² Ontario Open Data, Energy use and greenhouse gas emissions for the Broader Public Sector, retrieved on May 1, 2024 from <https://data.ontario.ca/dataset/energy-use-and-greenhouse-gas-emissions-for-the-broader-public-sector>

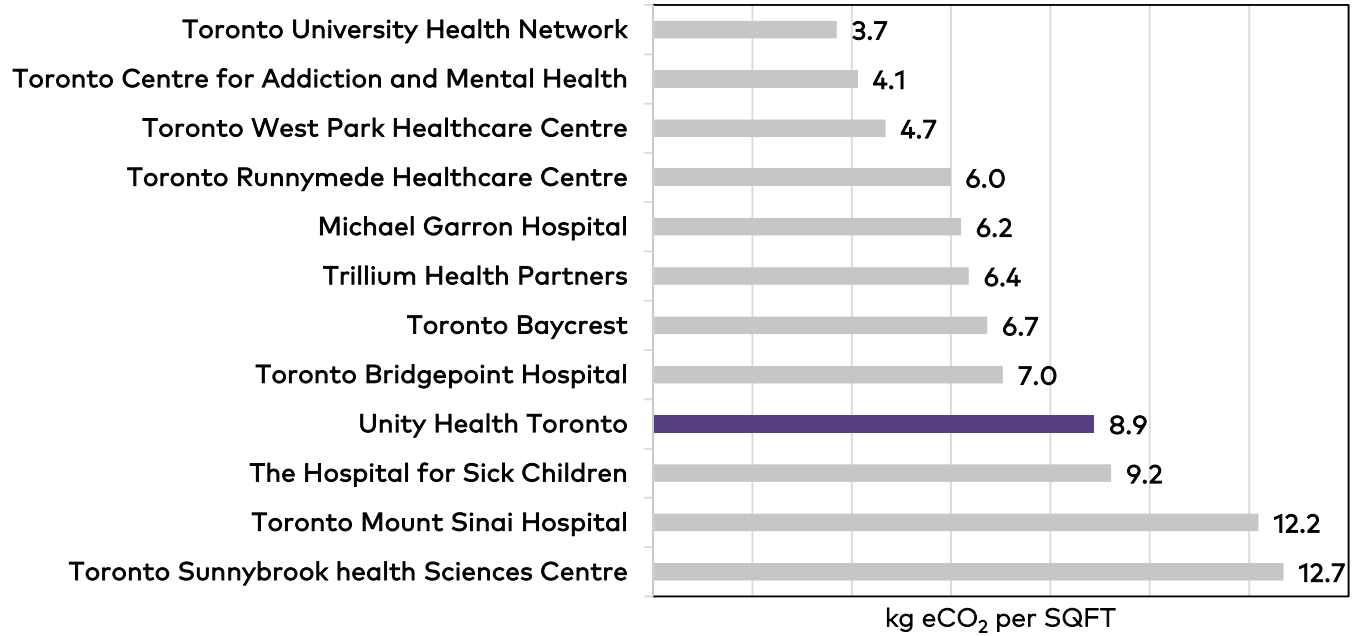


Figure 4-4. GHG Emissions Intensity Benchmark with Health Organizations with Operations Located in Toronto 2021, kg eCO₂ per square meter³.

³ Ontario Open Data, Energy use and greenhouse gas emissions for the Broader Public Sector, retrieved on May 1, 2024 from <https://data.ontario.ca/dataset/energy-use-and-greenhouse-gas-emissions-for-the-broader-public-sector>

5 Current and Proposed Measures

5.1 Previous Measures

Between 2019 and 2024, Unity Health has implemented 142 projects and Save On Energy incentive applications. The projects are categorized by the type of measure implemented. Table 5-1. shows 10 major measures we have implemented, including the top four energy reduction measures.

Table 5-1. Top 10 Energy and GHG Reduction Measures, 2019-24.

GHG Reduction Measure	Description	Annual Energy Savings	Annual Cost Savings
GHG Emissions Reduction Roadmap	Developed first high-level roadmap towards 50% GHG emissions reduction.	N/A	N/A
ISO 50001 Gap Assessment	Completed Gap Assessment outlined by US Department of Energy 50001 Ready Program.	N/A	N/A
Lighting Retrofit	Replace CLF T8 and potlights to LED across all campuses.	3,707 MWh	\$520,000
VFDs for Motors	Installed VFDs and programmed on pumps and Air Handling Units at St. Michael's Hospital and St. Joseph's Health Centre.	3,319 MWh	\$460,000
Chiller Replacement	Replaced end-of life chillers with high-efficiency chillers	507 MWh	\$50,000
Boiler Replacement	Replaced end-of-life boiler with high-efficiency boiler.	249,500 m ³ natural gas	\$75,000
Formation of the Environmental Sustainability Advisory Committee (ESAC)	Formal amalgamation of Green Teams at the three sites to the ESAC, with associated Terms of Reference.	N/A	N/A

Reduction of Anesthetic Gases	<ol style="list-style-type: none"> 1. Removed desflurane from stock and practice at St. Joseph's and St. Michael's. 2. Maintenance of central nitrous oxide distribution system at St. Michael's. 	N/A	N/A
Sustainability Communications Strategy	Developed and implementing a Sustainability Communications Strategy.	N/A	N/A
Improved Waste Diversion	Implemented and continue to scale the single-use medical device and PVC recycling programs, supplies and equipment donations, and general recycling and organic waste.	N/A	N/A

5.2 Current Measures

With most of the low-hanging fruit already picked, Unity Health is shifting to leverage and integrate with hospital infrastructure renewal, redevelopment, and renovation projects to improve energy efficiency. Table 5-2 highlights some of the projects and initiatives that we are presently working on.

Table 5-2. Examples of Current Measures (not inclusive).

Measure	Description	Project Timeline
GHG Emissions Reduction Roadmap	Continue to enhance the initial GHG Emissions Reduction Roadmap.	Ongoing
Steam Room Insulation	Insulate pipes in the steam chamber at St. Michael's to reduce heat loss.	September 2025
Lighting Retrofit	Operations team to continue to replace burned out CFL with LED lamps.	Ongoing
Boiler Plant Replacement	Replace end-of-life boiler with high-efficiency boiler at Providence Healthcare.	March 2025
ISO 50001 Ready	Address the gaps identified in the ISO 50001 Gap Assessment. Enhance the Plan-Do-Study-Act process to improve the energy management system.	Ongoing
Implement and Enhance Construction Guideline	Consult on infrastructure renewal, renovation, and redevelopment projects.	Ongoing

BAS Training	Provide BAS training to building operators.	Ongoing
Enhance organizational energy management knowledge	Provide training to building operation team.	Ongoing
Expand GHG emissions inventory	Expand GHG inventory when new methodologies emerge.	Ongoing
Organization-Wide Sustainability Integration	Continue to integrate sustainability within current departmental practices throughout the organization.	Ongoing

5.3 Proposed Measures

Deep energy retrofit projects can take years to plan. Unity Health has initiated assessing the feasibility of various energy management and GHG reduction measures. Table 5-3. summarizes proposed measures to continue in this effort.

Table 5-3. Proposed Measures, 2024-29.

Measure	Description	Expected Completion
Decarbonization Initiatives Phase 1	Procure a partner to improve energy efficiency, with the goal to build a foundation for future decarbonization (e.g. electrification).	March 2027
Major Redevelopment Projects Sustainability KPIs	Embed sustainability goals and project measures into early planning objectives and performance targets.	Planning Phase
Steam Use Reduction	<ol style="list-style-type: none"> 1. Reduce steam use at Li Ka Shing Knowledge Institute. 2. Optimize steam line at St. Michael's Hospital to reduce behind meter distribution loss. 	March 2029
Procurement	Build awareness of the impacts of climate change on procurement and supply chain.	Planning Phase
	Engage with our suppliers to communicate our sustainability values to learn and collaboratively advance our climate mitigation and resiliency efforts.	Planning Phase

	Incorporate EDI and sustainability scoring into the procurement criteria.	March 2026
	Reduce red meat menu options by 60% and increase plant-forward menu options by 60%.	2030
	Reduce food and disposable item waste by 75% by weight.	2035

6 Renewable and Ground Source Energy

Presently, Unity Health does not have a renewable energy source. Unity Health has conducted feasibility studies on installing rooftop solar photovoltaics (PVs), building integrated photovoltaics (BIPV), and wastewater heat recovery for redevelopment projects. Redevelopment projects will incorporate renewable energy sources where feasible.

7 Conclusions and Next Steps

Unity Health takes pride in quality healthcare and is a leader in adopting sustainable healthcare practices. We acknowledge and support the Net Zero GHG Emissions by 2050 target. We recognize that healthcare is one of the most carbon intense industries, given the nature of our 24/7 operations and strive to provide high quality healthcare to our patients while working to reduce our GHG emissions and impact on the planet.



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2011

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	599,035	168	9,657,896	1,549,900	—	3,877,143	6.5	43.6
St. Joseph's Health Centre	30 The Queensway	848,000	40	21,033,305	3,700,000	—	9,065,607	10.7	71.2
St. Michael's Hospital	30 Bond Street	1,283,543	168	40,631,127	8,307	46,326	10,453,917	8.1	55.2
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,436,868	46,055	—	228,689	2.53	21.3
Providence Healthcare	3276 St. Clair Ave. E	48,570	65	508,310	81,574	—	204,060	4.20	28.3
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	14,584,324	20,212	10,567	2,949,091	8.7	63.8



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2012

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	276 St. Clair Ave. East	599,035	168	9,490,598	1,395,181	—	3,549,243	5.9	40.6
St. Joseph's Health Centre	30 The Queensway	848,000	40	23,446,382	3,419,026	—	8,724,098	10.3	70.5
St. Michael's Hospital	30 Bond Street	1,283,543	168	40,836,026	16,795	35,487	8,856,649	6.9	49.8
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,351,200	47,889	—	220,309	2.43	20.6
Providence Healthcare	276 St. Clair Ave. East	48,570	65	499,505	73,431	—	186,802	3.85	26.4
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	12,762,480	14,892	16,424	3,523,107	10.4	69.2



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2013

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,408,550	1,455,340	—	3,612,320	5.6	39.3
St. Joseph's Health Centre	30 The Queensway	848,000	168	23,258,060	3,695,221	—	8,971,542	10.6	74.7
St. Michael's Hospital	30 Bond Street	1,283,543	168	37,009,860	16,904	11,487	6,899,974	5.4	43.8
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,284,549	34,503	—	162,873	1.80	18.2
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	11,383,540	11,992	29,348	2,475,076	7.3	55.7



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2014

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,259,351	1,487,201	—	3,182,218	4.9	38.7
St. Joseph's Health Centre	30 The Queensway	848,000	168	23,258,058	3,702,953	—	8,204,898	9.7	75.1
St. Michael's Hospital	30 Bond Street	1,283,543	168	40,252,508	16,888	43,598	7,666,190	6.0	53.5
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,301,980	37,640	—	123,257	1.36	18.8
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	11,000,939	13,642	12,271	2,161,373	6.3	56.1



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2015

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,394,376	1,359,287	—	3,210,532	5.0	38.4
St. Joseph's Health Centre	30 The Queensway	848,000	168	22,750,800	3,598,041	—	7,752,711	9.1	72.1
St. Michael's Hospital	30 Bond Street	1,283,543	168	40,012,866	25,914	51,830	8,832,533	6.9	57.5
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,228,518	37,341	—	120,412	1.33	18.0
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	11,319,724	17,265	13,657	2,378,562	7.0	59.8



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2016

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m ³)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,374,310	1,383,367	—	2,948,669	4.6	37.2
St. Joseph's Health Centre	30 The Queensway	848,000	168	22,482,505	3,619,777	—	7,661,969	9.0	72.0
St. Michael's Hospital	30 Bond Street	1,283,543	168	41,678,258	105,389	47,813	8,286,859	6.5	57.5
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,175,808	29,157	—	96,923	1.07	16.4
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	11,025,713	14,701	14,078	2,364,757	6.9	59.6



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2017

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	8,960,338	1,374,071	—	2,752,852	4.3	36.4
St. Joseph's Health Centre	30 The Queensway	848,000	168	20,804,700	3,442,388	—	6,868,151	8.1	67.7
St. Michael's Hospital	30 Bond Street	1,283,543	168	41,126,539	16,775	46,155	7,120,128	5.5	55.5
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,119,869	30,957	—	77,900	0.86	16.0
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,733,829	13,402	15,147	2,286,499	6.7	57.8



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2018

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,187,176	1,411,892	—	2,940,824	4.5	37.4
St. Joseph's Health Centre	30 The Queensway	848,000	168	20,735,430	3,624,573	—	7,465,406	8.8	69.9
St. Michael's Hospital	30 Bond Street	1,557,398	168	41,539,640	312,145	48,416	8,507,026	5.5	48.9
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,167,770	36,824	—	104,126	1.15	17.2
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,946,982	11,046	20,510	3,148,561	9.3	68.6



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2019

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m ³)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	9,024,339	1,443,185	—	3,003,523	4.6	37.6
St. Joseph's Health Centre	30 The Queensway	848,000	168	19,861,031	3,623,759	—	7,456,402	8.8	68.8
St. Michael's Hospital	30 Bond Street	1,557,398	168	38,617,514	22,236	71,279	11,067,121	7.1	54.6
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,192,171	36,714	—	105,742	1.17	17.5
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,213,912	9,923	15,579	2,451,960	7.2	57.0



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2020

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m ³)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	276 St. Clair Ave. East	647,604	168	9,076,028	1,509,683	—	3,085,214	4.8	38.8
St. Joseph's Health Centre	30 The Queensway	848,000	168	19,954,529	3,126,442	—	6,418,739	7.6	62.7
St. Michael's Hospital	30 Bond Street	1,557,398	168	43,968,109	15,990	65,329	10,175,313	6.5	55.5
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	1,022,077	31,045	—	84,704	0.94	14.9
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,199,896	8,434	13,651	2,136,154	6.3	53.2



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2021

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	8,945,206	1,480,244	—	3,046,647	4.7	38.1
St. Joseph's Health Centre	30 The Queensway	848,000	168	19,534,990	3,206,804	—	6,604,632	7.8	63.2
St. Michael's Hospital	30 Bond Street	1,603,179	168	44,556,111	19,256	56,097	10,748,652	6.7	61.7
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	967,555	37,731	—	98,365	1.09	15.1
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	8,937,806	687	28,889	5,125,682	15.1	108.2



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2022

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m ³)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	8,959,434	1,657,946	—	3,382,724	5.2	41.0
St. Joseph's Health Centre	30 The Queensway	848,000	168	18,957,612	3,171,001	—	6,520,834	7.7	62.1
St. Michael's Hospital	30 Bond Street	1,603,179	168	43,059,183	7,075	56,461	10,720,238	6.7	60.3
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	969,042	49,019	—	119,731	1.32	16.5
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,236,688	9	29,900	5,290,180	15.5	110.5



Unity Health Toronto
Energy Consumption and Greenhouse Gas Emission in 2023

Operation Name	Address	Total Floor Area (sq. ft.)	Weekly Hours of Operation	Electricity (kWh)	Natural Gas (m3)	District Heating (metric tonne)	GHG Emissions (kg)	GHG Intensity (kg/sqft)	Energy Intensity (ekWh/sqft)
1. Facilities used for hospital purposes									
Providence Healthcare	3276 St. Clair Ave. E	647,604	168	8,680,573	1,411,854	—	2,972,590	4.6	36.6
St. Joseph's Health Centre	30 The Queensway	848,000	168	19,262,544	3,093,137	—	6,519,792	7.7	61.5
St. Michael's Hospital	30 Bond Street	1,483,190	168	42,531,812	7,562	47,837	8,761,029	5.9	57.1
2. Administrative offices and related facilities									
Health Centre and Administration offices	61 Queen Street	90,514	40	995,265	43,264	—	112,968	1.25	16.1
Li Ka Shing Knowledge Institute	209 Victoria Street	340,382	40	9,084,248	0	25,955	4,325,846	12.7	93.7