



THE UNIVERSITY OF
WINNIPEG

Sustainability

Campus Sustainability Annual Report

2022-2023

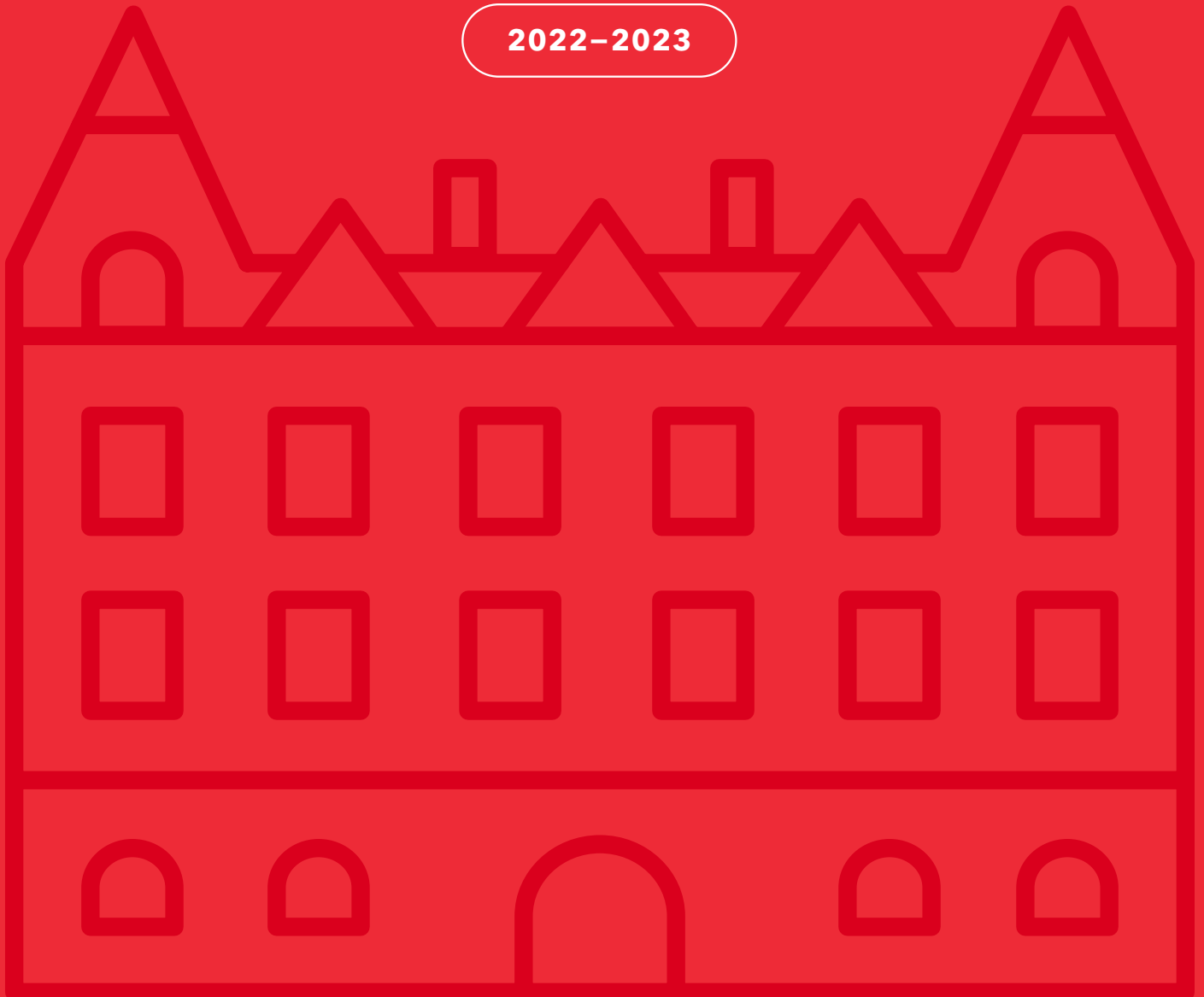




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What is Sustainability Reporting?

Sustainability reporting refers to the ongoing efforts made by an institution, organization or business to monitor, measure, and benchmark quantitative and qualitative indicators of various environmental, social, economic, and cultural impacts associated with their operations and outputs. At The University of Winnipeg, our commitment to robust sustainability reporting reflects the responsibility we take for how our institution impacts people and ecosystems. We know that we cannot improve our sustainability performance and maximize our net social, economic and environmental benefits without identifying and tracking key indicators over time.

Institutional sustainability reporting seeks to measure progress in three core goal areas:

- › **Environmental** - the goals and indicators pertaining to our institution's ecological performance and its efforts to minimize environmental and climatic impacts.
- › **Social** - the goals and indicators pertaining to institutional relationships between management, staff, students, customers and communities affected by our operations.
- › **Governance** - the goals and indicators pertaining to our institution's leadership, internal controls, audits, and overall governance practices.

The Annual Sustainability Report is our way of synthesizing large amounts of data we collect about our social and environmental initiatives throughout the year, and sharing important findings with everyone on campus. Annual sustainability reports allow us to mark our progress, celebrate our accomplishments, and identify challenges and opportunities, ensuring that we regularly refocus our resources on the right projects in the right way.

Scale, Scope and Indicators

At UWinnipeg, sustainability reporting considers all activities happening within campus spaces and associated impacts and outcomes. Our institution has published an Annual Campus Sustainability Report every year since 2006, with initial reporting requirements established in the University's first Campus Sustainability Policy. Since 2006, sustainability reporting has expanded to include a greater range of indicators, including those that look at environmental education, community impact and equity, diversity and inclusion. This is reflective of our efforts to integrate holistic sustainability management and wide-ranging strategic sustainability goals, established in the 2012 and 2017 institutional Sustainability Strategies.

This report provides a review of the University of Winnipeg's environmental performance and other sustainability impacts during the fiscal year 2022 (April 1, 2022 - March 31, 2023) (FY2017). UWinnipeg's Campus Sustainability Office (CSO) prepared this document using a wide range of sustainability indicators and metrics to assess:

- › The day-to-day operations and management of all the University's owned and leased space, including capital construction and renovations, and all university programs and services
- › All university programs, initiatives and events, and all "arms-length" agencies, corporations, institutes, research centres, or other entities to which University policies may generally apply
- › The routine activities of students, faculty, and staff on campus

This report considers the environmental impacts of the University's buildings and operations, such as resource consumption, waste generation, and emissions. It also considers the contributions made by research, education, engagement, and community partnerships to broader sustainability objectives. This approach reflects our commitment to leading on sustainability by taking responsibility for our environmental footprint and leveraging the many ways in which universities mobilize knowledge, foster innovation, and inspire change.

The list of sustainability indicators and metrics currently guiding our reporting practices are outlined in 2017 Strategy Appendices.

As we enter a new strategic planning cycle at UWinnipeg, our sustainability metrics and reporting will continue to evolve. Our targets and reporting practices will continue to be informed by established global sustainability frameworks, including Leadership in Energy and environmental design (LEED), the United Nations Sustainable Development Goals (SDGs), and the Sustainability Tracking, Assessment and Rating System (STARS) for post-secondary institutions. With over 60 reporting fields, STARS, in particular, offers an effective approach for understanding sustainability in all sectors of higher education, allowing for comparison over time and among participating institutions. You can see UWinnipeg's current and past STARS ratings - reports.aashe.org/institutions/university-of-winnipeg-mb/report/

Institutional Characteristics

Campus Size

UWinnipeg occupies over 156,000 square meters on 15 acres of land in downtown Winnipeg.

	Total Occupied Space	Owned Space	Leased Space
1990	90,137 m ²	90,137 m ²	-
2021	156,811 m ²	147,112 m ²	9,698 m ²
2022	156,811 m ²	147,112 m ²	9,698 m ²

Campus Population

Enrollment data indicates that that equivalent of 8,945 full-time students attended UWinnipeg during the 2023-2024 academic year. UWinnipeg also employees an equivalent 863 full-time staff. With UWinnipeg offering virtual-on-site hybrid teaching and work environments, it is difficult to know how many people are on campus on any given day.

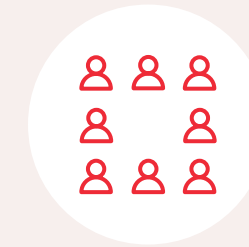
Fiscal Year	Students (FCE) Full course load equivalence	Students (FTE) Full-time equivalence	Staff (FTE) Full-time equivalence
2012	32,951	7,559	824
2013	32,906	7,679	810
2014	32,135	7,496	854
2015	32,241	7,563	832
2016	31,696	7,576	832
2017	31,722	7,680	869
2018	31,893	7,790	869
2019	33,178	8,100	840
2020	33,675	7,987	858
2021	33,318	7,828	858
2022	31,540	7,553	863

Changes in Environmental Impact Indicators



+25%

Greenhouse Gas Emissions
Since 2021



+10%

Staff and Students
Since 2021



+43%

Energy Consumption
Since 2021

+63%

Owned Space
Since 1991

-28%

Energy Intensity
Since 1991

+20%

Energy Costs
Since 2021



+46%

Water Consumption
Since 2021



+44%

Landfill Waste
Since 2021



+47%

Waste Diverted from
Landfill Since 2021

Sustainable Facilities Management Highlights

- › UWinnipeg conducted a campus-wide internal waste audit with the goal of identifying factors contributing to contamination and ways for improving overall waste reduction and landfill diversion (see page 14)
- › Sustainability staff improved our recycling program by focusing on materials that cannot be sent to municipal recycling facilities. Working with industry partners, UWinnipeg recycled:
 - 5 tonnes of electronic waste
 - 331 kgs of dead batteries
 - Over 20,000 disposable masks
 - 13 tonnes of scrap metal
 - 5.5 kgs of used pens
- › We renewed our commitment to sustainable building maintenance by hiring the Dexterra Group for contracted cleaning services

Education and Research Outcomes

- › UWinnipeg students filled over 2,900 combined seats in 76 sustainability courses. 77% of graduates in 2022 took at least one sustainability-related course while completing their degree.
- › More than 20 UWinnipeg faculty members conducted sustainability research, publishing over 30 peer-reviewed articles

Environmental Engagement and Leadership Development

- › The CSO hosted three workshops for staff as part of our Green Office Program Lunch and Learn Series
- › The CSO Partnered with Indigenous UWinnipeg, University of Winnipeg Students' Association (UWSA), and University of Winnipeg Indigenous Students' Association (ISA) to host a screening of the Freedom Road docuseries, exploring truth and reconciliation in relation to Winnipeg's drinking water, which comes from the Shoal Lake 40 First Nation
- › The 2023 Internal Waste Audit employed over 20 student auditors, offering them paid, hands-on experience in sustainable facilities management.

Community Impacts

- › September 2022: The University established a new position – Program Officer in Equity, Diversity, Inclusion, Anti-Racism, and Decolonization – and welcomed Larissa Wodtke to the role. Wodtke oversaw UWinnipeg's Dimension Program, ensuring that UW's research ecosystem met and exceeded EDI standards.
- › December 2022: The Wii Chiiwaakanak Learning Centre made the holidays a little brighter for more than 200 attendees with its annual holiday dinner and toy drive. The event was supported by UWinnipeg's Diversity Food Services, who also donated food to several foodbanks across the city.

Sustainable Campus Operations

Energy, Emissions and Responding to Climate Change

UWinnipeg's 2022-2023 energy and greenhouse gas emissions (GHGs) performance serves as an important reminder that our building systems do not operate in a vacuum. Despite our best efforts and our continued investment in green energy alternatives and emissions reduction strategies, there are environmental and economic factors beyond our control that can contribute to significant and unanticipated fluctuations in our climate footprint from year to year.

As seen in Figure 1, emissions increased by 26% to 2,664 TCO₂e along with a slight increase in our emissions intensity (emissions per square metre of owned campus space). In 2021-22 we nearly reached our 2017 goal of meeting 5% of energy needs with nonconventional green renewables.

Unfortunately, as seen in Figure 2, 2023-22 saw a downturn in the productivity of our biomass and solar panel energy systems – together they produced 1.3% of all energy consumed on campus. This not only means less energy from green renewables, but also an increased reliance on conventional hydro electricity and natural gas which come with higher carbon emissions.

As the global climate emergency continues to worsen, it's clear that our institution will need to become more energy resilient, while also contributing to global emissions reductions targets. That's why Facilities Management, Planning and Sustainability continue to pursue innovations for UWinnipeg's energy system, focusing on new net-zero technologies that can allow us to produce more renewable energy on-site.

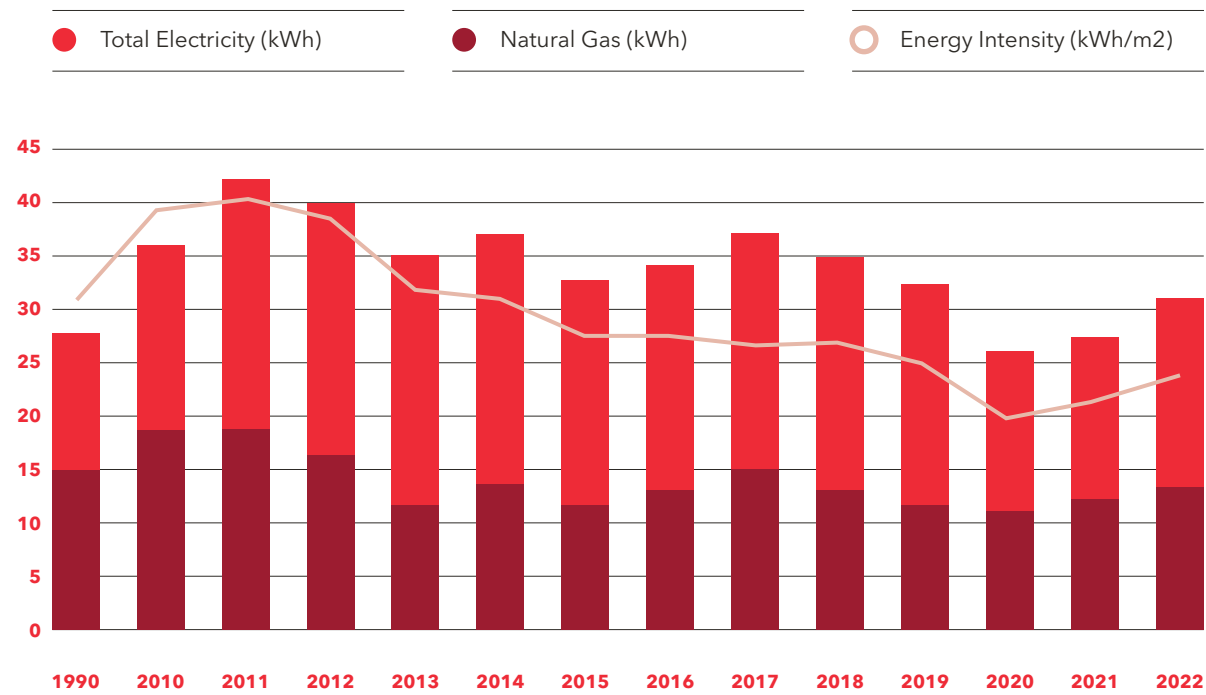
CO₂e, or Carbon Dioxide Equivalent, is a unit of measurement used to compare the impact of GHGs on the environment. CO₂e provides a unified way to express the contribution of each GHG to climate change. It is based on a GHG's global warming potential (GWP). The GWP of CO₂ is set to 1 and the GWPs of other GHGs are expressed relative to CO₂.

Energy Intensity is an indicator of efficiency calculated by dividing the total energy consumed by the building in one year by the total floor area of all buildings owned by UWinnipeg.

Emissions Intensity compares emissions generated by buildings to the size of those buildings. It is calculated by dividing the total energy consumed by the building in one year by the total floor area of all buildings owned by UWinnipeg.

Weather Adjusted refers to energy and emissions totals that have been adjusted to reflect year to year variations in outside air temperature. Normalizing for changes in yearly weather allows us to more accurately compare the efficiency of our energy systems from one year to the next.

UWinnipeg's energy consumption breakdown 1990-2022

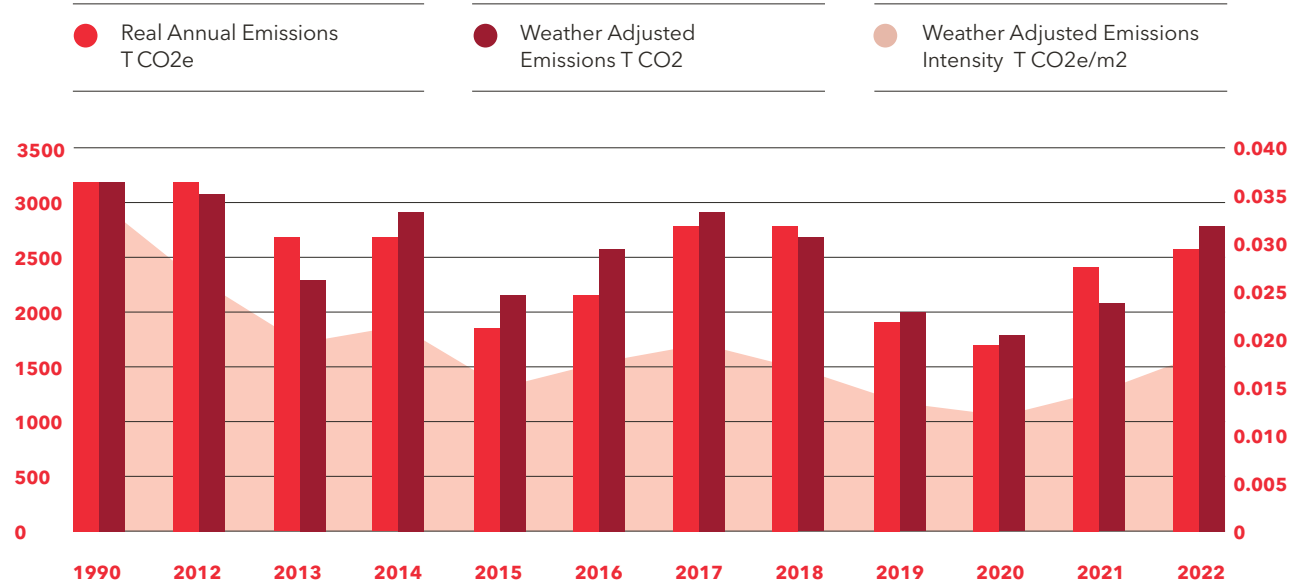


UWinnipeg's 2022 greenhouse gas emissions breakdown by source

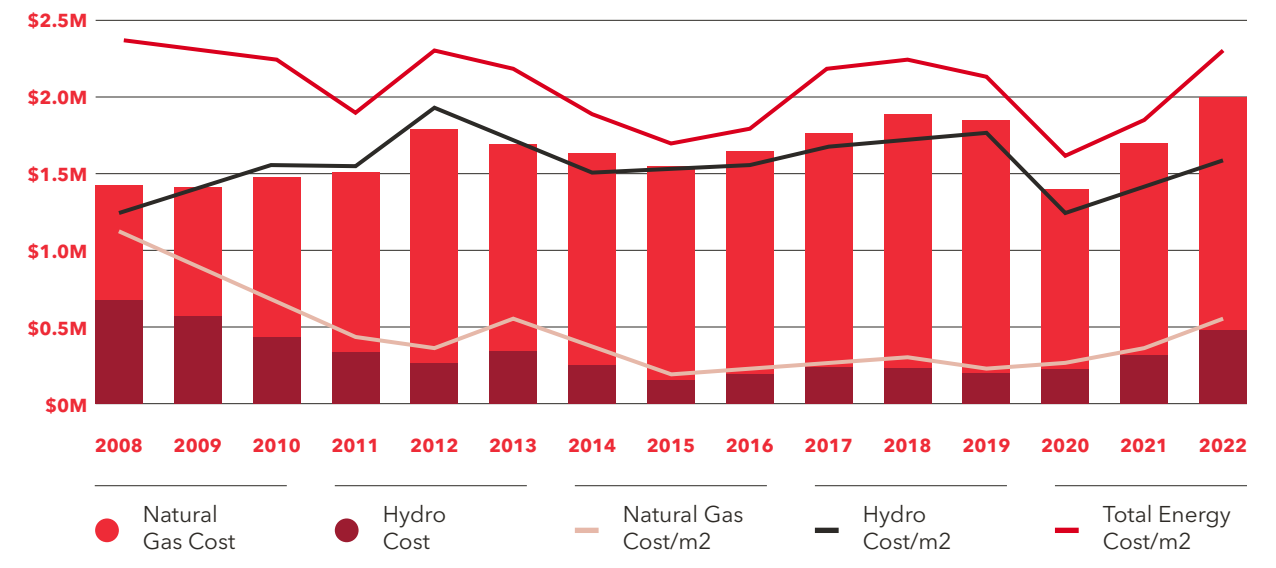


Natural Gas	2590	/	97.28%	Biomass	38	/	50.6%
Stationary Fuel	0.033	/	3.81%	Electricity	16	/	48%
				Fleet Vehicles	18	/	1.1%

UWinnipeg's real and weather-adjusted greenhouse gas emissions 1990-2022



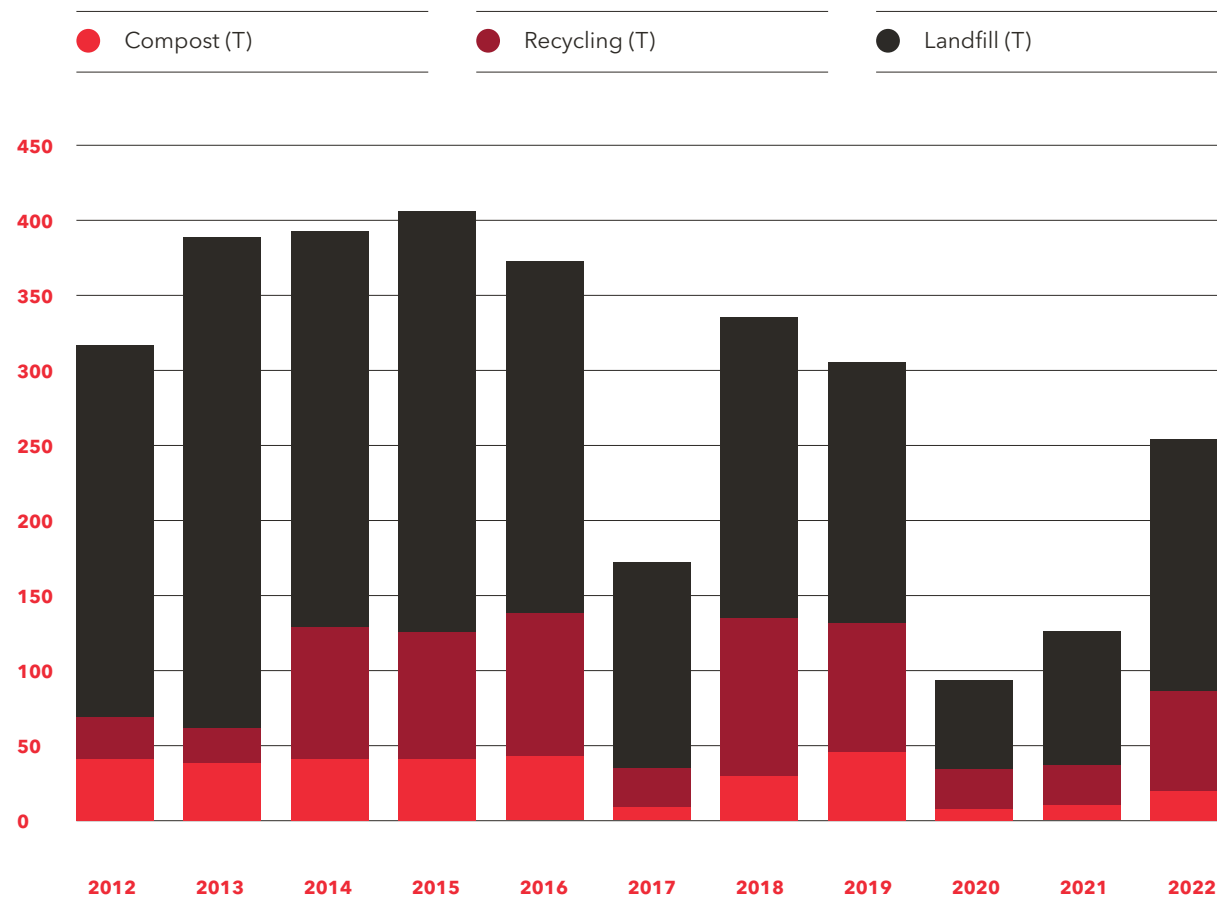
Breakdown of UWinnipeg's energy costs 1990-2022:



Waste Management

In 2022, UWinnipeg continued to prioritize its waste management program with investments in infrastructure, the renewal of key industry partnerships, and ongoing education across campus. As seen in the graph below, which is based on data provided by waste haulers, our total waste volumes are returning to pre-pandemic levels, with the majority of waste sent to landfill. In 2022, the CSO led a campus-wide waste audit, which allowed for a deeper understanding of our overall waste profile and the levels of contamination found in our three main waste streams. While hauler data tells us how much waste is ending up in landfill, recycling and compost facilities, waste audits allow us to see precisely what types of cross-contamination are occurring in each stream.

UWinnipeg’s hauler data waste stream profiles for 2013-2022



UWinnipeg Sustainability and Facilities management staff had the opportunity to tour Green for Life’s state-of-the art recycling facility in April, 2022. We learned about the impacts of contamination on the recycling process, and saw first-hand how individual recycling actions add up to renewable resources.



Non-conventional Recycling at UWinnipeg

In addition to using the City of Winnipeg’s commercial/residential recycling services, UWinnipeg also facilitates the recycling of materials that are not blue box acceptable. These initiatives include utilizing Call2Recycle, which is a free battery recycling service. This organization helps us keep hundreds of kgs of batteries from our landfills. TerraCycle is another organization we utilize on campus, they manage many programs that allow us to recycle gloves used for labs, disposable masks, and recycle writing utensils. Throughout campus there are two glove recycling locations, five mask recycling locations, and three writing utensil recycling locations. Facilities Management and Technology Services work together to ensure all UWinnipeg-generated computer waste goes to Mother Earth recycling. Facilities staff diligently collect and store scrap metal, which is taken to the scrapper periodically throughout the year.

Recycling Collection Stream	Amount Collected
Electronic waste	5t
Batteries	231 kg
Scrap Metal	13t
Pens	5.5 kg
Masks and Gloves	More than 25,000 items

To complement our non-conventional recycling programs, the CSO hosted the third annual McFeetors Hall Resident’s Giveaway. Working together, the CSO, Campus Living, and Facilities Management collect gently used items from students who are moving out of dorms at the end of the academic year. The program collects everything from bedframes, bookshelves and electronics to clothing, kitchen utensils and cleaning supplies. In 2022, we even found new homes for two fully functioning electric stoves. Items are donated to several charitable organizations in Winnipeg including Centre Flavie, Oyate Tipi, and Main Street Project. This initiative diverts a significant amount of material from landfill, while providing those in need with household essentials.

Waste Audit 2023

February 2023 marked the seventh waste audit conducted at UWinnipeg since 2006. Waste audits provide the data necessary to monitor and improve our waste management performance. Waste audits are how we monitor a wide range of indicators, including the total amount of organic, recyclable, and landfill waste generated on campus, the amount of organic and recyclable materials wrongfully sent to the landfill, areas on campus with high rates of improper disposal, and items from our campus food provider that most commonly end up in the wrong bins. Equipped with the findings of waste audits, sustainability managers can focus on making necessary improvements to infrastructure, and develop specific outreach and engagement strategies.

Methodology

Over a five-day period, a team of student waste auditors, led by CSO staff, analyzed all organic, recyclable, and landfill waste generated at UWinnipeg before it left campus. The process involved collaboration between facilities managers and contracted cleaning staff, who worked to transport waste bags throughout campus to our sorting centre in the Lockhart underground parking garage.



Student employees sort bags of waste during the February 2023 UWinnipeg Waste Audit

Findings from the 2023 Waste Audit



40%

Organic materials make up 40% of all waste leaving campus. However, only 28% of all organic materials are sent for composting.



35%

Only 35% of waste generated on campus should be going to landfill. Yet, 59% of all campus waste goes to Brady Road Landfill.



70%

70% of all recyclable materials discarded on campus end up in the correct stream.



55%

Just over half (55%) of all waste generated at UWinnipeg goes into the correct waste stream



64%

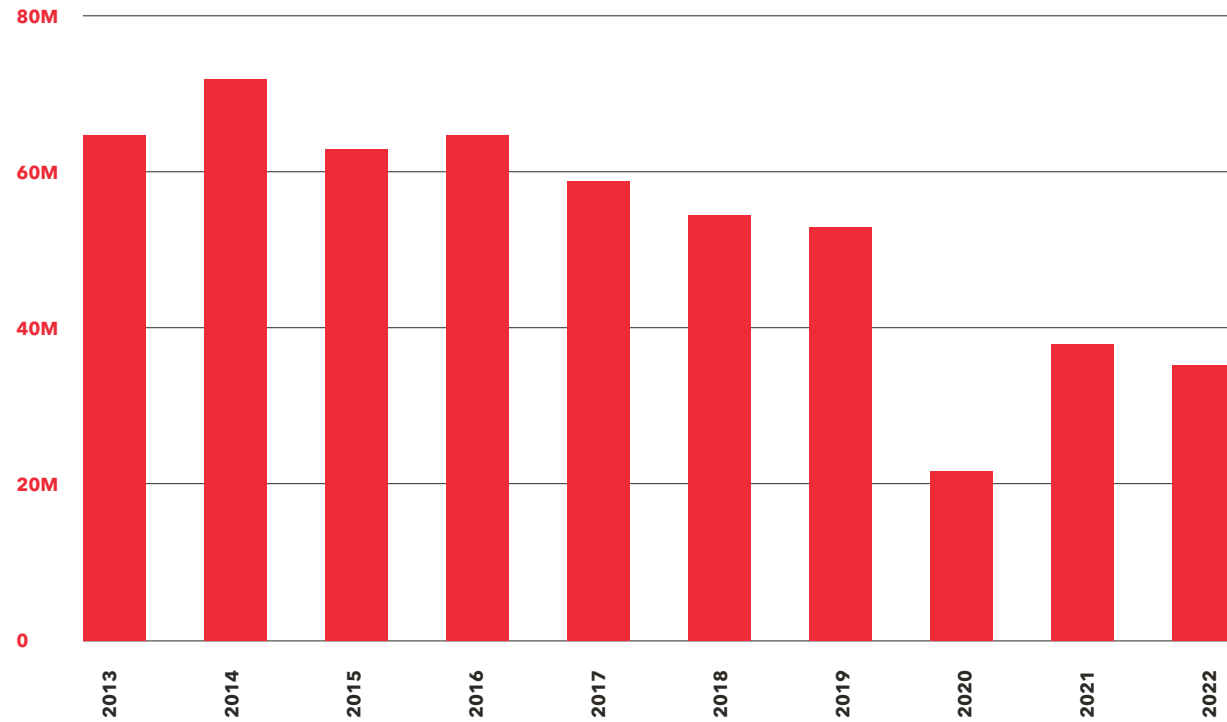
64% of all organic waste generated on campus ends up in the landfill stream, with an additional 8% ending up in the recycling stream.



70%

70% of all waste found in single-stream bathroom bins is paper towels, which could be composted.

Water Consumption



Graph shows water consumption at UW for the last ten years. For historical data going back to 2008, see Appendix



As seen in the graphic above, UWinnipeg’s water use dropped significantly in the first year of the COVID-19 pandemic (2020). Water use has since increased but not to pre-pandemic levels with remote work and study options resulting in lower daily campus population numbers.

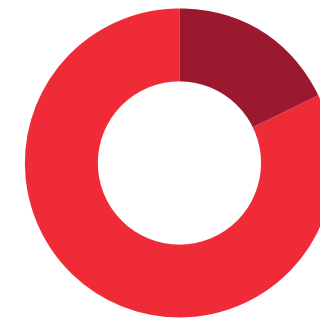
Indoor and Outdoor Maintenance

Wherever possible, our Facilities team continues to employ environmentally-responsible management practices for all indoor and outdoor spaces at UWinnipeg, as called for in the sustainable campus management guidelines. Furthermore, sustainable approaches are always considered for new developments and renovations at our institution.

Sustainable facilities management achievements from 2022:

- › Electricians completed a lighting upgrade project, replacing outdated lights with high-efficiency LED bulbs at a rate of two to one.
- › We continued working with two social enterprises for waste disposal, Compost Winnipeg and Mother Earth Recycling. Compost Winnipeg supported our efforts to improve our compost collection efficiency and increase our collection capacity to meet post-COVID-19 demand increases, adding a new collection location at AnX/Rice and increasing the total number of pickup bins at our main campus pickup location.
- › After working with Bee Clean Building Maintenance for more than 20 years, UWinnipeg awarded a new contract to the Dexterra Group. Dexterra brings over 75 years of commercial cleaning experience to the table and is committed to social and environmental responsibility. Dexterra is Certified in ISO 9001 - Quality Control, ISO 14001 - Environmental, ISO 45001 - Occupational Health & Safety. Sustainability staff worked with Dexterra’s management team to ensure adherence to our Sustainable Cleaning Guidelines, and trained cleaning staff on our multi-stream waste bin processes.

Percent Cost of Natural and Non-natural Cleaning Products



●	Natural	82%
●	Non-natural	18%

Certifications



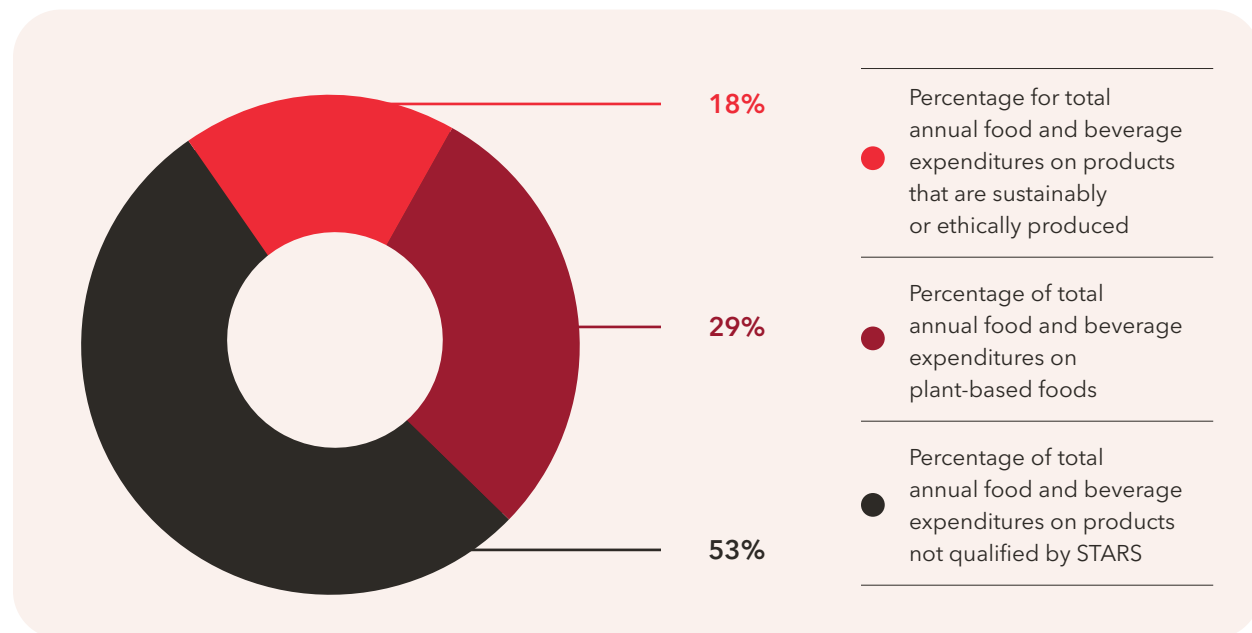
Campus Food Services

Diversity Food Services continued to rebound from the COVID-19 Pandemic downturn in 2022, while remaining committed to its social and environmental principles. Diversity re-opened all campus outlets to support the regular return to classes, which involved hiring/onboarding and training roughly eighty new employees between August and October.

During the 2022 fiscal year, UWinnipeg’s food service provider made a substantial investment in the renovation of the Riddell Hall Servery. They also implemented new supply chain strategies to ensure continued support for local and sustainable businesses during the current economic downturn.

Diversity also grew its off-campus business, acquiring Sleepy Owl Bakery, rebranding catering with the introduction of Spruce Catering, and returning to FortWhyte Alive. These off-campus initiatives ensure employees have work for the whole year, thus reducing turnover and lowering costs.

Diversity also revisited their menus to increase the total volume of vegetarian and vegan dishes offered to help manage the impact of massive inflation that has plagued the meat and poultry markets. Plus, all chicken products are now halal certified.



Investing in Sustainable Communities

Equity, diversity, and inclusion

UWinnipeg’s Human Rights and Diversity Office (HRDO) continues to make progress on equity, diversity, and inclusion (EDI), as well as the general improvement of social sustainability on campus. In the spring of 2019, UWinnipeg was awarded an EDI Institutional Capacity Building Grant as part of the (EDI) Institutional Capacity-Building program from the Canadian Government. This year, the grant was used to support various EDI education sessions and a Gap Analysis/Review of our Accessibility for Manitobans Act compliance and overall accessibility.

The University continued its work under the Dimensions Pilot Program, which aims to assess systemic barriers in post-secondary environments, particularly those experienced by members of traditionally underserved, marginalized and excluded groups. The University was awarded Stage 1- Foundation recognition by the Dimensions program for its efforts to promote EDI.

The University’s Employment Equity and Diversity Policy was updated with input from the Employment Equity Advisory Committee and work began on a comprehensive employment equity plan. Academic Hiring Guidelines aimed to increase representation rates of equity-deserving scholars have continued, with all Faculty of Arts hires and others being designated or preferred. Most faculty hiring was supported by dedicated Employment Equity Consultants who receive training from the HRDO/HR about unconscious bias and equitable hiring practices.

The University’s Sexual Violence Prevention Policy has been under review, with extensive consultations being held across campus along with a review of best practices.

In collaboration with the Accessibility for Manitobans Act Steering Committee, the University’s Accessibility Plan was also updated in 2022, incorporating feedback from its community and departmental self-audits. Additional accessibility resources were also added to the HRDO website and comprehensive accessibility training sessions were provided to staff and faculty.

Sustainability Education and Research

At UWinnipeg we care about environmental education and leadership development, not only for students in classroom settings, but for all campus users who want to make a difference and be part of making a more sustainable world.

Sustainability Education

UWinnipeg has long been known as an institution offering quality education programs in social and environmental fields of study, and a wide range of courses that focus on or include sustainability concepts across virtually all departments. In 2018, we began systematically tracking sustainability course offerings, and last year, we developed the tools needed to track the rates at which our students complete and graduate with these courses.

The CSO now maintains a list of all offered courses that meet the definitions of sustainability-focused (SF) and sustainability-related (SR) established in AASHE's STARS reporting framework. In 2021, the CSO worked with Technology Services and Enrollment to flag all SF and SR courses attendance and get a first look at student sustainability education on campus. This data is now pulled on an annual basis, and the reporting software allows us to look at enrollment back to 2017.

In 2022, there were over 2,000 seats filled in a total of 76 sustainability-focused, and sustainability-related courses at UWinnipeg. In total, 50 of 54 academic programs graduated students who had taken at least one sustainability course as part of their degree.

Table 3. Graduates who have taken at least one sustainability-focused or sustainability-related class as compared to total graduate population, 2017-2022.

	2017	2018	2019	2020	2021	2022
Total graduates with at least one SF or SR course	1,407	1,445	1,403	1,386	1,531	1,417
Total graduates	1,750	1,754	1,668	1,603	1,707	1,845
Total seats filled and completed in SF/SR courses	3,498	3,486	3,576	3,553	2,822	2,907
% graduated with at least one SF or SR course	80%	82%	84%	86%	90%	77%

The HRDO continued to offer educational sessions on sexual violence prevention and responding to disclosures, respect in the workplace, conflict resolution, accessibility, unconscious bias, and others. The HRDO also helped arrange training from other experts, including Anti-Oppression training, Creating Inclusive Workplaces keynote, and Microaggressions workshop. They also held a teach-in about 2SLGBTQ+ awareness and contemporary issues, which included the history of Two-Spirit people and creation of inclusive workplace environments for Two-Spirit people.

The HRDO also participated as a member of the Manitoba Flexible Learning HUB's Project Board and an online EDI module for Manitoba post-secondary faculty was completed, with another module in the works.

Indigenization

Wii Chiiwaakanak Learning Centre receives federal funding to support STEAM programming

The Wii Chiiwaakanak Learning Centre received Government of Canada funding to support their science, technology, engineering, arts, and mathematics outreach programming. Thanks to the CanCode program, Angeline Nelson, Director of Community Learning and Engagement, says the Centre is receiving \$367,000 across three years.

The federal program aims to equip Canadian youth, with a focus on inclusion of underrepresented groups, with the skills they need to be prepared for further studies, including advanced digital skills and science, technology, engineering, and math courses, leading to the jobs of the future.

UWinnipeg launches new Indigenous language certificates

Three new Indigenous language certificates, which complement the Bachelor of Arts in Indigenous Languages major (launched in 2021), were announced for the 2022 Fall Term. These certificates are equipping the next generation of Indigenous language teachers, who are working to revitalize languages that carry a world of culture, history and meaning.

With flexible delivery options that include online courses, these certificates provide a pathway for students who are not ready or able to commit to a full degree or who wish to embed a specific Indigenous languages certificate into a current degree.

Experiential and Work-Integrated Learning

UWinnipeg continues to support experiential and work-integrated learning opportunities for our students and knows that these are especially valuable for students looking to enter sustainability-related fields. The 2022 Experiential Learning Fund supported several course-based and research initiatives on campus. Other highlights in this area include the Indigenous Ethnobotany Field School and the English department's Writing in the City course.

Sustainability Research and Knowledge Mobilization

Thanks to the work of our faculty and research centres, which focus on a wide range of topics, a substantial amount of sustainability-related research continues to flow from our institution. A non-exhaustive scan of activities happening within academic departments and research centres found that UWinnipeg-based scholars produced at least 30 peer-reviewed articles, exploring everything from ecotoxicology and wildlife preservation to climate adaptation and social sustainability. In all, more than 20 UWinnipeg faculty members from 10 different departments published research on sustainability-related subject matter.

Here are some of the highlights of UWinnipeg's sustainability research from 2022

- › Understanding the reproductive habits of parasitic fish in the Great Lakes - Dr. Sara Good
- › Reducing phosphorus runoff in Lake Winnipeg - Dr. Darshani Kumaragamage
- › Dr. Ryan Bullock renewed as Canada Research Chair in Human Environmental Interactions

In 2022, the Research Office committed to systematically tracking sustainability-related research projects at UWinnipeg using their Research Starts Here questionnaire. This form which all researchers are required to complete for each new research project, now includes the following question pertaining to sustainability:

Does this project do any of the following?

- › Address the concept of sustainability (meeting our own needs without compromising the ability of future generations to meet their own needs).
- › Further our understanding of the interdependence of ecological and social/economic systems.
- › Have a primary and explicit focus on a major sustainability challenge. This includes (but is not limited to) climate change, global poverty and inequality, natural resource depletion, and environmental degradation.

Now, the Research Office can determine the total number of research projects that address sustainability and also determine which departments/faculties these researchers are from.

The Prairie Climate Centre

The Prairie Climate Centre (PCC) - one of UWinnipeg's largest research centres, and one of Canada's leading outlets for climate change adaptation research - also made major contributions to sustainability research and Knowledge Mobilization

Atlas views

The Climate Atlas of Canada remains our most significant knowledge mobilization tool - braided through almost all the Centre's activities - with 150,382 unique visitors from around the world and close to a million page views over the 2022-2023 fiscal year. Most of these visitors are new (83.4%), with repeat users making up the difference (16.6%). Of these visitors, 81% are Canadian, 8.3% American, and the remaining from numerous countries. Our users are mostly younger adults (between 18-34 years of age) and roughly split between men (46.8%) and women (53.2%).

YouTube Views

The PCC also produces high quality and high impact videos, using YouTube as a social media tool to connect with a wide range of audiences. This knowledge mobilization approach garnered 56,000 unique views over the 2022-2023 fiscal year, with over 2,400 hours of video watched.

Presentations

The PCC team delivered more than 50 presentations in 2022-2023 to diverse groups ranging from STEAM Clubs for Grades 3-5, to members of the Chinese consulate, to various government, community, and academic partners.

Engagement and Leadership Development

The CSO makes a conscious effort to engage the campus community in a variety of ways. This includes online and in-person events and communications. Sustainability staff were present at many campus events throughout 2022, including Roll Call and Orientation, talking to students about sustainable practices and how they can get involved with environmental leadership opportunities.



Fiscal Year	Newsletters Mailed	% of recipients who opened newsletter	% who followed an embedded link
FY2021	6,180	25	6
FY2022	7,957	25	6

Campus Engagement

The CSO hosted numerous events this year targeted to staff, faculty, students, and community members. We engaged hundreds of individuals throughout a multitude of CSO-hosted and CSO-supported events in FY2022, and we connected with approximately 2,000 individuals through our newsletter throughout the year.

- › **April 2022**
 - Seed Starting and Gardening with the UWinnipeg Green Office Program
 - Happy Houseplants with the UWinnipeg Green Office Program
 - GFL Tour with the CSO and Facilities
 - Earth Day engagement
 - The 3rd Annual McFeetors Hall Residents' Giveaway
- › **June 2022**
 - Commuter Challenge presented by Green Action Centre
- › **August 2022**
 - UWinnipeg Orientation
- › **September 2022**
 - UWSA Roll Call 2022
 - Eco Team Orientation

- › **October 2022**
 - UWinnipeg partook in Main Street Project's Socktober Campaign
 - The Sustainable Programs Coordinator attended the Storefront MB Charrette for Downtown and the Exchange District
 - UW Eco Team Community Clean Up: 25kgs of waste cleaned up from the community
- › **November 2022**
 - UWinnipeg Sustainability Tour with the UWinnipeg Green Office Program
 - Going Circular Film Screening with the Circular Economy Club of Winnipeg
- › **January 2023**
 - The Rights of Nature Film Screening for UWSA's Snowed In: presented by the UW Eco Team and the CSO
 - The Campus Sustainability Coordinator moderated the Climate Justice and Sustainability event presented by the Research Office
- › **February 2023**
 - UW Waste Audit: the CSO hired approximately 20 students to conduct the 2022 UWinnipeg Waste Audit
- › **March 2023**
 - The CSO supported the UWSA's Unsheltered Relatives Initiative and handed out meals to community members around Downtown and the Exchange District
 - Freedom Road Series Film Screening: this was a highly collaborative event, where over 80 people from on campus and in the community gathered to watch a documentary on Shoal Lake 40 First Nation to learn about the impact that the development of Winnipeg's drinking water system had on the community. This was a multi-stakeholder event that saw eight departments and organizations, as well as UWinnipeg alumni come together in the planning and support of this event.

Conclusion

The Campus Sustainability Office would like to thank you for taking the time to read our Annual Performance Report. We appreciate all of the individuals and departments at UWinnipeg who are dedicated to improving our institution’s social and environmental impact, and to all campus community members who support this work by making sustainable choices every day. This report marks the first time that the Campus Sustainability Office worked with UWinnipeg’s Marketing and Communications team to publish the sustainability report as an officially designed university document. The standard is now set for all sustainability-related publications moving forward.

2022 brought new challenges to our sustainability management work, but it also was a year of improvement and success. While greenhouse gas emissions rose slightly over previous years, this does not indicate an overall upward trend. Facilities managers are optimistic that we will return to a downwards emissions trajectory in 2023, with a number of upgrades in the works, and with the potential construction of a new Student Success Centre opening up possibilities for the development of an earth energy system on campus.

In 2022, Facilities and Sustainability staff worked together to complete the seventh campus-wide waste audit to happen at UWinnipeg since 2007, and to plan much-needed upgrades to our waste collection systems. The CSO worked hard to engage staff, faculty and students throughout the year on a wide range of social and environmental topics, while creating meaningful co-curricular leadership and learning opportunities on and off campus. We are looking forward to expanding these programs and connecting them through a holistic framework for enhancing sustainability education and supporting students aiming to become sustainability change-makers.

If you have any questions or ideas related to campus sustainability, or you would like to be involved with our Office’s work, please contact us at sustainability@uwinnipeg.ca.

Appendix

UWinnipeg’s energy consumption breakdown 1990-2022

Fiscal Year	Stationary Fuel (kWh) Diesel	Vehicle Fuel (Gasoline + Diesel)	Natural Gas kWh (weather adjusted)	Total Electricity (kWh)	TOTAL	Total Owned Space	Energy Intensity (kWh/m2)
FY1990	-	47,302	14,979,688	12,159,626	27.187M	90,137	302
FY2007	-	27,047	17,692,420	13,935,414	31.655M	96,004	330
FY2008	58,320	75,015	18,212,494	12,326,236	30.672M	95,273	322
FY2009	1,625	76,159	20,412,307	14,522,600	35.013M	98,750	355
FY2010	1,625	89,891	19,122,245	16,644,876	35.859M	103,826	345
FY2011	1,625	64,784	19,337,721	22,193,651	41.598M	119,028	349
FY2012	1,625	145,868	15,901,281	24,156,504	40.205M	117,649	342
FY2013	1,625	151,020	11,772,471	23,037,343	34.962M	116,682	300
FY2014	3,125	114,880	14,440,035	21,967,443	36.525M	130,183	281
FY2015	1,625	115,862	10,675,015	22,281,803	33.074M	133,762	247
FY2016	1,625	121,101	13,126,645	21,075,316	34.325M	138,964	247
FY2017	22,289	61,831	15,168,331	20,809,147	36.062M	147,112	245
FY2018	22,289	73,577	13,459,238	21,594,068	35.149M	147,112	239
FY2019	22,289	78,581	11,558,213	21,248,620	32.908M	147,112	224
FY2020	8,451	93,646	10,708,151	16,159,135	26.969M	147,112	183
FY2021	16,241	113,162	11,175,065	17,299,742	28.604M	147,112	194
FY2022	1,218	70,502	14,446,882	17,394,558	31.913M	147,112	217

UWinnipeg's real and weather-adjusted greenhouse gas emissions 1990-2022

Fiscal Year	Real Annual Emissions (T CO2e)	Weather Adjusted Annual Emissions (T CO2e)	Target (T CO2e)	Owned Area (m2)	GHG Emission Adjusted (T CO2e/m2)
FY1990	3,130	3,130	2,943	90,137	0.035
FY2008	3,688	3,572	2,943	95,273	0.037
FY2009	3,701	3,882	2,943	98,750	0.039
FY2010	3,529	3,605	2,943	104,937	0.034
FY2011	3,107	3,664	2,943	120,933	0.030
FY2012	3,130	3,070	2,943	119,555	0.026
FY2013	2,686	2,330	2,819	118,587	0.020
FY2014	2,636	2,791	2,819	132,089	0.021
FY2015	1,836	2,130	2,819	135,667	0.016
FY2016	2,170	2,529	2,819	140,870	0.018
FY2017	2,672	2,866	2,819	147,112	0.019
FY2018	2,586	2,553	2,819	147,112	0.017
FY2019	1,908	1,992	2,819	147,112	0.014
FY2020	1,721	1,810	1,566	147,112	0.012
FY2021	2,474	2,120	1,566	147,112	0.014

UWinnipeg's 2022 greenhouse gas emissions breakdown by source

GHG Emissions (T CO2e)	FY2022	
Natural Gas	2590	97.28%
Biomass	38	1.42%
Fleet Vehicles	18	0.69%
Electricity	16	0.61%
Stationary Fuel	0.033	0.00%
Refrigerants	0	0.00%
Total	2662	

Breakdown of UWinnipeg's energy costs 1990-2022:

Fiscal Year	Natural Gas Cost	Hydro Cost	Total Energy Cost	Nat. Gas Cost/m2	Hydro Cost/m2	Total Energy Cost/m2
FY2005	\$700,108.15	\$708,084.62	\$1,408,192.77	\$7.29	\$7.37	\$14.66
FY2006	\$664,453.00	\$745,970.00	\$1,410,423.00	\$6.92	\$7.77	\$14.69
FY2007	\$630,609.00	\$762,078.00	\$1,392,687.00	\$6.57	\$7.94	\$14.51
FY2008	\$691,615.44	\$718,719.33	\$1,410,334.77	\$7.26	\$7.54	\$14.80
FY2009	\$576,094.37	\$839,021.19	\$1,415,115.56	\$5.83	\$8.50	\$14.33
FY2010	\$466,609.40	\$1,008,052.14	\$1,474,661.54	\$4.45	\$9.61	\$14.05
FY2011	\$332,560.45	\$1,152,969.26	\$1,485,529.71	\$2.75	\$9.53	\$12.28
FY2012	\$310,902.23	\$1,453,737.19	\$1,764,639.42	\$2.60	\$12.16	\$14.76
FY2013	\$396,770.93	\$1,297,554.08	\$1,694,325.01	\$3.35	\$10.94	\$14.29
FY2014	\$316,231.45	\$1,265,225.51	\$1,581,456.96	\$2.39	\$9.58	\$11.97
FY2015	\$219,439.58	\$1,313,463.80	\$1,532,903.38	\$1.62	\$9.68	\$11.30
FY2016	\$245,188.20	\$1,378,487.46	\$1,623,675.66	\$1.74	\$9.79	\$11.53
FY2017	\$274,424.37	\$1,557,656.14	\$1,832,080.51	\$1.87	\$10.59	\$12.45
FY2018	\$281,060.16	\$1,609,492.96	\$1,890,553.12	\$1.91	\$10.94	\$12.85
FY2019	\$247,230.83	\$1,627,446.52	\$1,874,677.35	\$1.68	\$11.06	\$12.74
FY2020	\$274,065.03	\$1,150,011.73	\$1,424,076.76	\$1.86	\$7.82	\$9.68
FY2021	\$348,045.79	\$1,316,140.03	\$1,664,185.82	\$2.37	\$8.95	\$11.31
FY2022	\$561,969.49	\$1,451,288.64	\$2,013,258.13	\$3.82	\$9.87	\$13.69



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