UWinnipeg Sustainability Performance Report

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1.0 Executive Summary

1.1 Performance

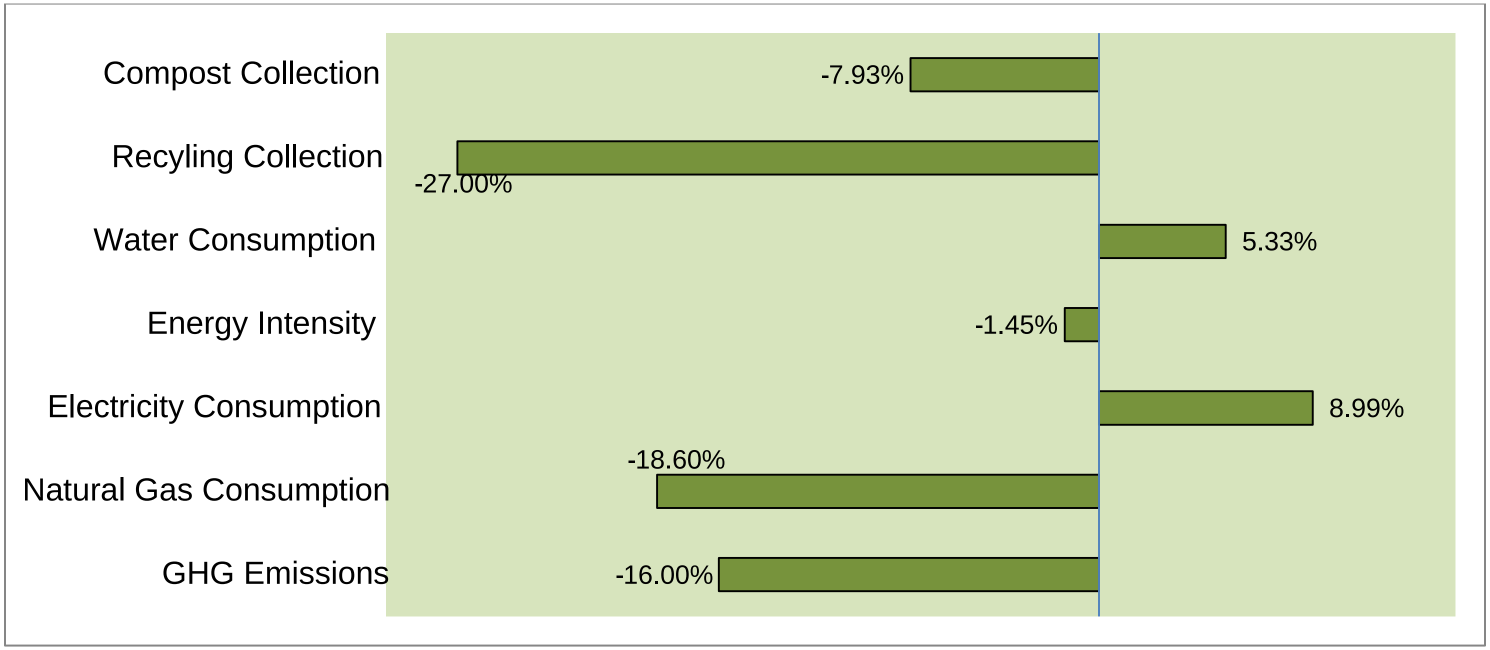

Figure 1 Sustainability Performance Summary for The University of Winnipeg from April 1st, 2012 to March 31st, 2013 showing percent change over FY2011 for compost collection, recycling collection, water consumption, energy intensity, electricity consumption, natural gas consumption and greenhouse gas (GHG) emissions. GHG emissions and natural gas consumption are normalized for weather.

Throughout FY2012, the initial action plans committed to in the *UWinnipeg Sustainability Strategy* provided the roadmap for action related to campus sustainability at UWinnipeg. Details on the status of each action can be found in the body of this report, while the performance metrics in Figure 1 and those provided in more detail in relevant report sections speak to the results achieved through the University's efforts.

Table 1 Space inventory at University of Winnipeg from 1990-2012 including buildings/housing leased and owned (m^2).

Year	Buildings Leased	Buildings Owned	Housing Owned	Housing Leased	Total Area Occupied	Total Owned Space	Total Leased Space
1990	NA	87,644	0	0	87,644	87,644	NA
2005	5,221	95,648	1,774	3,538	106,182		

3.0 Performance

Each aspect of sustainability performance over FY 2012 was guided by the Initial Action Plans that were published in the *UWinnipeg Sustainability Strategy.* A report on the status of each action plan is included in Appendix A. The Campus Sustainability Council has also developed action plans for FY2013. They are included in Appendix B.

3.1 Air, Energy & Water

In FY2012, several years of efforts to plan and manage greenhouse gas emissions and 63(s)55n1s1 Ei5(ix Ae)6(v)-4(eral)13( )] TJ.7slishtiactioa2(ns)e

While GHG emissions were not 6% below 1990 emission levels by the end of the fiscal year, the final stages of the energy retrofit efforts on u ‰ µ • Á Œ } u ‰ o š } À Œ š Z • µ u u Œ } (î ì í ï X t] š Z š Z ((} Œ š • } u ‰ operating to a projected À Œ •] š Ç [annual utility consumption that is significantly lower than that required to meet the Kyoto target. The campus can be satisfied that its first target has been met and focus its efforts on achieving a 10% reduction in emissions against a 1990 baseline by 2016.

Total campus energy consumption was reduced by 3% over last year. This reduction included an 18.6% drop in natural gas consumption over the fiscal year. A portion of this reduction in natural gas use is the result of the use of the hybrid heating system. Electricity consumption increased 9% over the year; however, a lighting retrofit in the Duckworth Centre and a significant ventilation system upgrade promise to counteract this increase in the coming year.

Table 5 Energy consumption breakdown for University of Winnipeg from FY2006 to FY2012 including stationary fuel, vehicle fuel, natural gas (weather adjusted) and hydro (kWh or kWh equivalent). The intensity (kWh/m^2) is also reported.

Type (kWh)	2006	2007	2008	2009	2010	2011	2012
Stationary Fuel	0	0	58,320				

Figure 3

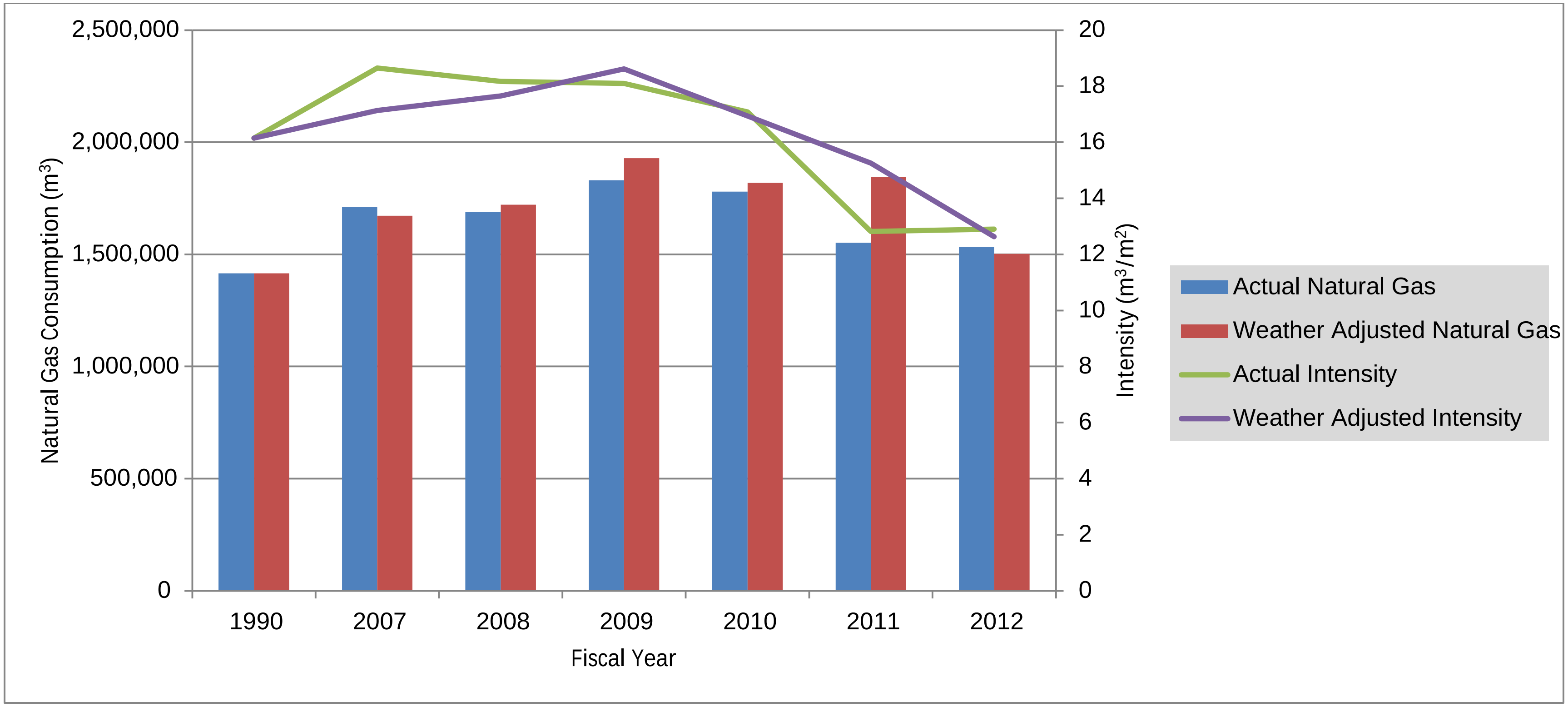

Figure 4 Natural gas consumption for University of Winnipeg from FY1990 to FY2012 including real annual consumption and weather adjusted consumption (m^3). The intensity (m^3/m^2) is also shown.

Table 7 Electricity consumption (kWh) for the University of Winnipeg from FY2007 to FY2012. The intensity (kWh/m^2) is also reported.

Electricity Consumption	2007	2008	2009	2010	2011	2012
Electricity (kWh)	14,118,810	12,501,378	14,702,975	16,864,380	22,284,140	24,287,065
Intensity (kWh/m^2)	145	128	142	157	184	204

Figure 5 Electricity consumption (kWh) for the University of Winnipeg from FY2007 to FY2012. The intensity (kWh/m^2) is also shown.

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Despite ongoing progress on a water retrofit to bathrooms on campus, water consumption increased approximately 5% this year. A significant contribution to this resulted from the near doubling of water consumption in the Richardson College for the Environment & Science Complex over last year. This increase is likely attributed to a dramatic increase in humidification requirements in the building. Funds have been allocated to make changes to humidification controls in order to address this issue.

Table 8 Water consumption (L) for University of Winnipeg from FY2006 to FY2012.

Water Consumption	2006	2007	2008	2009	2010	2011	2012
Amount (L)	47,388,592	43,897,460	80,113,761	74,714,597	69,452,051	69,914,000	73,638,940

The summer (Jun-

3.2 Waste, Grounds & Cleaning

Table 10 Comparison of municipal solid waste and total recycled waste (metric tonnes) for the University of Winnipeg in FY2012.

Waste Type	Amount (t)
Municipal Solid Waste*	248.0
Recycling	147.3
Total Waste	395.3
Diversion Rate	37-42%

*expect signification margins of error; see discussion above for explanation of diversion rate range.

Waste audit data also suggests an overall capture rate of 73.38%. Fine mixed paper and corrugated cardboard have the highest capture rates (88.23% and 89.50% respectively). The high capture rates for these two categories contribute significantly to the overall capture rate. Box board has the lowest (29.8%). Other paper, PET bottles/packaging, aluminum and steel cans, and HDPE bottles have capture rates ranging from 35.55% to 49.79%.

Progress has been made in developing stronger monitoring mechanisms to ensure the ongoing use of greener cleaning products on campus, despite ongoing challenges. While the majority of cleaning products in use are EcoLogo certified at present, it is clear that some cleaning functions are regularly demanding products that d}v}š u š šZ hv]À Œ•]šÇ[• PŒ v The University remains]vPu š Œ]š Œ]X committed to using 100% EcoLogo certified cleaning products. The Campus Sustainability Office is developing stronger partnerships with cleaning staff, and is developing t

3.3 Procurement & Waste Reduction

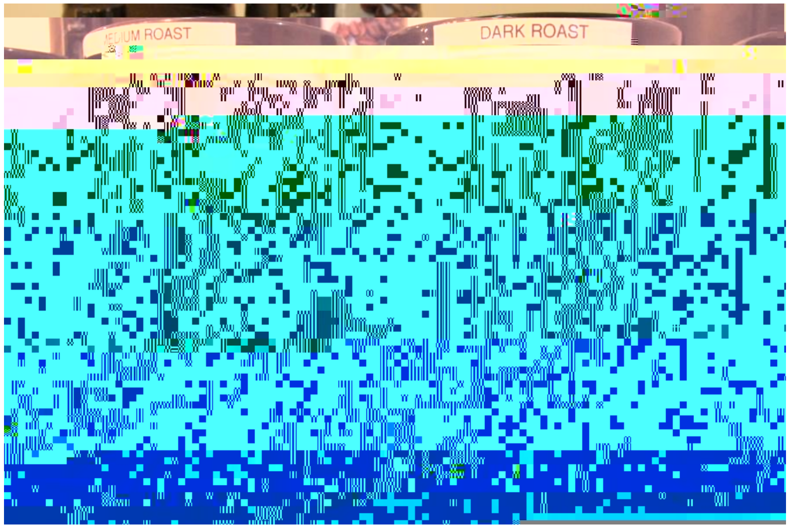

Figure 9 Diversity Food Services continues to serve only organic, locally roasted, fair trade coffee and works to purchase sustainable produce from local farmers. 100% recycled paper is now used in all offices on campus.

Practices such as including sustainability criteria in the evaluation of RFPs, prioritizing local suppliers, and/or the purchase of products
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purchases on campus remain elusive. Efforts to develop these mechanisms are ongoing. See appendices for details.

Gina Sylvestre t In Transit: Using mobile methods to inform safer winter walkways in Winnipeg

Jan Stewart t Community partners for sustainable education in South Sudan

Bruno Silvestre t Advances in cleaner production t integrating cleaner production into sustainability strategies

Gabriel Nemoga t Pan-Indigenous conceptions of the Mother Earth, development and sustainability

Terry Duguid t Understanding policy enablers and barriers to the adaptive management and resilience of coastal communities in the Hudson Bay Inland Sea regions

4.0 Challenges

Waste Diversion: In FY2012, Z hv]À Œ•]šÇ v}µvš Œ ÁZ š u]PZš }v•] Œ Z‰ Œ(š •š}Œu[Á]šZ initiatives: unexpected changes in bin servicing contracts, severely deteriorated bin infrastructure, and rising expenses for supplies that diverted f]v v] o Œ •}µŒ • Á Ç (Œ}u }uuµv] š]}v v µ š]}vX dZ • Z o o vPycling rates since it]v šZ hv began tracking this information. A major bin infrastructure upgrade is planned for FY2013, with key support provided from the Winnipeg Foundation and the Canadian Beverage Container Recycling Association. Ongoing bin servicing and supply costs continue to be a matter of very significant concern.

Data collection and management: dZ hv]À Œ•]šÇ[• ility Management System was established in 2006 and has served as the (}µv š]}v }(šZ hv]À Œ•]šÇ[• •µ•š]v]o]šÇ ‰ Œ(}Œu v u}v]š}Œ]vP l areas of ‰}Œš]vP •]v šZ sustainability management have suffered from difficulties compiling and tracking data. While some degree of difficulty exists for most areas of data collection, waste, procurement and transportation have presented particular challenges. In addition to these challenges, the University is increasingly participating in third party reporting programs such as The Climate Registry and STARS (Sustainability Tracking, Assessment, and Rating System). The result is reporting overload in the Campus Sustainability Office alongside a desire to build on the University[• Æ]•š]vP strengths in data collection and management by strengthening internal data quality accountability and auditing mechanisms. These efforts will align well with an overall enhancement of institutional data management at the University; however, they will require close attention to be successful.

Integration of campus development planning and sustainability management: dZ hv]À Œ•]šÇ[•]o]šÇ š} • š]š• <Ç}š} š Œ

5.0 Conclusion

The University of Winnipeg celebrates a very significant achievement this year. In 2005 we set a greenhouse gas emission reduction target. We can now say that we performed all work required to ensure that it is met.

This achievement is, first and foremost, an achievement in sustainability management and governance. In FY2012, several years of strategic efforts to plan and manage greenhouse gas emissions and energy consumption resulted in significant reductions. The University was strongly focused on executing its energy retrofit to main campus buildings over the fiscal year. These efforts, along with the first heating season which
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A.3 Procurement & Waste Reduction

Target: Reduce solid, hazardous, and electronic waste.
Target: University strives for better practices in sustainable procurement.

Action	Timeline	Status
Investigate options for Mass/Volume/Composition based procurement tracking system.	Summer 2012 t hire summer student to develop basic tracking tool. Fall 2012 t assess feasibility of implementing basic tracking tool.	No changes since February due to work load challenges in & because next steps require further integration of sustainability data monitoring priorities with other institutional data-related efforts. Campus-wide data management improvements are currently underway.
Revised administrative policies relative to procureme reflect better practices in sustainable procurement practices.	FY2012	Sustainability content recommendations included in new procedure.
Investigate opportunities to replicate Diversity Foods model for other areas of campus operations.	FY2011/2012	Class project in the Faculty of Business and Education investigated potential business models for a social enterpris cleaning company. Presentations delivered at end of acade year. Findings in line with internal research conducted elsewhere. Social enterprise not viable for cleaning at the time.
Green Office Certification program includes criteria f waste reduction.	See Goal #8	Criteria included.
Student peer-to-peer waste reduction education programming in place.	See Goal #9	Scheduled to begin over spring/summer of 2013. Lack of funds available for staff in CSO have delayed this project. If fundraising successful, initial stages or program development will take place over the fall of 2013.

Action	Timeline	Status
Increase post-consumer content of all paper products purchased on campus (pending quality testing, increase to: 50% post-consumer content for office paper and letter head; 100% recycled content for business cards).	FY2012	Exceeded target: New shipment of FSC certified 100% post-consumer fibre Certified EcoLogo, Processed Chlorine free paper manufactured using biogas energy received. r

Appendix B: FY 2013-14 Action Plans

B.1 Air, Energy & Water

Target: Reduce GHG emissions to 6% below 1990 levels by 2012 and to 10% below 1990 levels by 2016; reduce energy intensity of operations to 18% below 2005 levels by 2016; reduce water consumption

Action	Champion	Other key participants & their roles
Install smart meters (water, gas & hydro) and energy dashboard softwar 013		

Action	Champion	Other key participants & their roles
Celebrate Kyoto Achievement	Vice-President, Human Resources, Audit & Sustainability	Sr. Executive Officer & Advisor to the President; Student (TBA); Director, CSO; Member of Faculty (TBA)
Finish current building retrofit projects (T21 boiler, HVAC in C/H & L/H, Controls Upgrade)	Chief Engineer; Controls Technician	

B.2 Waste, Grounds & Cleaning

Target: Achieve 65% waste diversion by 2016; University demonstrates best practices in cleaning and groundskeeping.

Action	Champion	Other key participants & their roles
Purchase a cardboard baler	Director, Physical Plant	Director, CSO (technical advice/research); Service workers (service worker input)
Purchase a food dehydrator or other organics handling machine	Director, CSO	Director, Physical Plant (operational approval); Associate Vice-President Finance & Operations (financial approval)
Establish UWinnipeg's community E-waste drop off	Director, CSO	d Z • ŒÀ] •V WZÇ•] o Wo všV ^KV
Upgrade compost/recycling/waste bins in main campus buildings and revise collection/servicing practices on main campus	Outreach & Office Assistant, CSO	CSO (best practice assurance, communication & education, development); Physical Plant (approval of operational plan); UWSA (student input, communication); Compost collection contractor (confirm functionality with existing compost collection capacity); Cleaning contractors (bin servicing plan buy-in); Communications (communication support and sign development); external partners (funding)
Establish process for Physical Plant and CSO to receive quarterly reports of all quantities and types/brands of cleaning products used on campus. Ensure return to use of 100% EcoLogo products (address potential need for exceptions on a case-by-case basis)	Director, Physical Plant	Director, CSO (technical advice/research); Cleaning contractor (compliance/reporting)

Action	Champion	Other key participants & their roles
Ongoing pesticide-free grounds keeping	Director, Physical Plant; Executive Director, Facilities	Service workers

B.3 Procurement, Finance & Waste Reduction

Target: University strives for better practices in sustainable procurement (& finance).

Action	Champion	Other key participants & their roles
Review procurement indicators. Purpose: establish a baseline.	Director, CSO	Director Purchasing Services
Develop sustainability elements for RFP evaluation grids	Director Purchasing Services (final decision, owner)	Director, CSO (technical/research support)
Identify greener office supplies as priority products for UW office supply orders	Director Purchasing Services (final decision, owner)	Director, CSO (technical/research support)
Maintain EPEAT tracking for computers (target 75% EPEAT Gold in FY 2013)	Director Purchasing Services (final decision, owner)	Director, CSO (technical/research support)
Determine best approach for meeting STARS criteria for a vendor code of conduct outlining UW expectations for environmental and social responsibility	Director Purchasing Services (final decision, owner)	Director, CSO (technical/research support)
Ensure GHG impacts are incorporated into new online travel claim system	Director, CSO	Financial services; Institutional analysis; Pr8.61 377.

Action	Champion	Other key participants & their roles
Participate in Campus Commuter Challenge	BikeLab	Outreach & Office Assistant, CSO
Explore possibility of holding 1st Canadian Tour de Fat	EcoPIA	BikeLab Director, CSO

B.5 Governance, Finance & Administration

Target: Sustainability Planning and governance reflect better practices in campus sustainability and is integrated into University planning an governance procedures and processes; University provides tools and resources for greening university administrative systems.

Action	Champion	Other key participants & their roles
Policy and Indicator Review planned for FY2014	Director, CSO	Executive Director, Corporate Secretary and General Counsel Office; Corporate Secretary and General Counsel (Legal Counsel), A new Sust. Policy working group
Complete GHG Inventory verification process with The Climate Registry (report filed in June 2013)	Director, CSO	Chief Engineer; Finance; Housing; individuals with responsibility over University vehicles
Register with STARS and compile first report	Director, CSO; point people for each area to be identified	TBD

Action	Champion

B.6 Academics

Target: Active culture of sustainability teaching, learning, research, and work.

Action	Champion	Other key participants & their roles
Compile inventory of sustainability research and courses as discussed with Senate	Director, CSO	Departments & Faculties (cooperation); Academic Working Group(input, feedback); CSO staff (administrative support)
Establish a Campus Sustainability course (emphas		