



UNIVERSITY
of TORONTO



Annual Sustainability Report

2007



Executive Summary



Over the past year, the University of Toronto has taken significant steps to increase sustainability and coordinate environmental planning across all three campuses.

In particular, the establishment of the Sustainability Board has brought together representatives from each campus in order to better coordinate, plan and execute energy and resource conservation efforts. Furthermore, students, staff and faculty at Scarborough are working to institute a sustainability hub for their campus, similar to those that exist at Mississauga and St. George.

The main reason for the success of current sustainability initiatives at the university continues to be the dedication, knowledge and resourcefulness of the students, staff and faculty at each campus. In 2006, thousands of U of T community members were actively engaged in a vast array of sustainability programs employing a hybrid of research, application and education. It is these unique and synergistic approaches that have rapidly increased the diversity and efficacy of sustainability efforts at the university.

Grant applications totaling greater than 1.5 million dollars were submitted, and over twenty articles were published on the topic of sustainability at U of T, in media from the Toronto

Star to VIA Rail magazine. Major projects at all three campuses were undertaken in 2006, including a large naturalization project at Scarborough, a fare-free bus pass at Mississauga and the lighting and chiller retrofit at St. George. Most recently, the university received a B- rating from the Sustainable Endowments Institute, placing it within the top quartile of the one hundred colleges and universities evaluated in the United States and Canada.

In the near future, the development of the tri-campus Sustainability Plan will set ambitions and targets for the next three years. In addition, rigorous measurement techniques will be employed to evaluate the effectiveness of programs in achieving the goals outlined by the Plan. Finally, the development of funding mechanisms and partnerships to support the initiatives at each campus will be key to the success of the university's efforts.



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Introduction



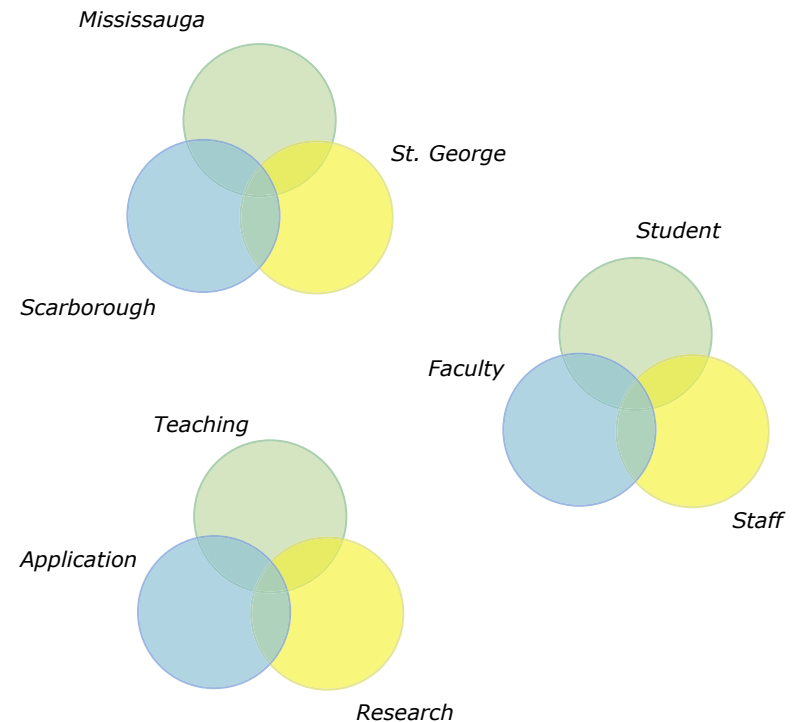
Sustainability has emerged as a vital issue for universities with- in Canada and the United States over the last several years.

At the University of Toronto, the Environmental Affairs Office (EAO) at the Mississauga campus was established in May of 2004, with the Sustainability Office (SO) at the St. George campus following shortly thereafter, in November of the same year. The University of Toronto Scarborough is working to set up an analogous office in 2007.

Unique in a number of ways, each campus has taken a slightly different approach to sustainability and as a result, there exists a rich array of projects, programs and partnerships stemming from these initiatives across the university as a whole. In recognition of this, the administration has established a Sustainability Board, bringing together representatives from each campus. The aim of this board is to coordinate and foster partnerships on sustainability within the university, transfer knowledge, set goals and directions, and ultimately increase the effectiveness of existing and future initiatives. The Board is currently revamping the Sustainability Plan for the university with these factors in mind.

Student, staff and faculty engagement across all three campuses continues to be the keystone to the Sustainability Plan. In fact, the collaborative and synergistic effects of the sustainability initiatives at each campus may be conceptualized as

three intersecting and overarching concepts:



Organizational Structure



The Sustainability Board unites representatives from all three campuses to coordinate and provide broad-based support for sustainability initiatives across the university. A listing of the board members is included in Appendix A.

Central hubs to coordinate these efforts exist at both the Mississauga and St. George campuses, named the Environmental Affairs Office (EAO) and the Sustainability Office (SO) respectively. The Scarborough campus is actively working to establish its own office by the fall of 2007.

The organization of each hub varies, as summarized below:

Scarborough

- Working to hire a full-time coordinator;
- Numerous volunteers (129 for naturalization projects);
- Engagement with Facilities Management staff in numerous initiatives;
- Strong support from students, faculty and staff; and,
- Significant faculty involvement, especially from Environmental Science.

Mississauga (Environmental Affairs Office)

- A full-time coordinator;

- 60 volunteers;
- 250 members of the Green Team;
- 8 part-time students;
- 21 work study students in 2005-06 and 34 in 2006-2007;
- 4 full-time summer student employees; and,
- Significant faculty involvement.

St. George Campus (Sustainability Office)

- Director;
- A full-time project manager;
- Six full-time coordinators;
- 31 work study students in 2005-2006 and 33 in 2006-07;
- Eight part-time staff;
- 75 volunteers;
- Significant involvement of faculty and staff;
- 12 independent coursework students;
- 50 students involved through classes; and
- 70 students engaged as Rewire Coordinators.

An organizational chart for the Sustainability Office is included in Appendix B.

Partnership Development



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The generosity of the numerous funding agencies and partners involved with each campus has been critical to the success of sustainability initiatives. Of course, the widespread support and range of invaluable relationships within the University of Toronto community continues to be one of the greatest resources and strengths of sustainability at the university.

Grants

The SO, EAO and UTSC enjoy financial support from numerous organizations. Over the past year, applications worth over 1.2 million dollars were submitted to granting agencies.

Scarborough receives generous financial support from Evergreen. During its start-up phase the Scarborough Sustainability Office (SSO) will receive financial and organizational support from the Office of the Vice-President and Principal, the Chief Administrative Officer, as well as organizational support the Sustainability Office.

The Environmental Affairs Office (UTM) enjoys generous support from:

Evergreen
Pendle Fund of the Community Foundation of Mississauga

EcoAction (Environment Canada)
Smart Commute Mississauga
HIVA Environmental Fund
Habitat Stewardship Program

The Sustainability Office currently receives generous financial support from:

University of Toronto
Conservation Bureau (Ontario Power Authority)
Toronto Atmospheric Fund
City of Toronto Better Buildings Partnership
TD Friends of the Environment Foundation
Natural Resources Canada
Human Resources and Skills Development Canada
EcoAction (Environment Canada)
ECO Canada

Beyond the support of the university administration, the SO is privileged to receive significant assistance from several faculties and departments at the university, including: Campus and Facilities Planning, Facilities and Services, the Faculty of Arts and Science and the Faculty of Applied Science.

Each campus has enjoyed significant success in outreach to the University of Toronto, municipal, national and international



communities. The establishment of the Sustainability Board will increase the efficiency and effectiveness of intra-campus knowledge transfer and communications. Please See Appendix C for a summary of granting activities in the area of campus sustainability.

Partnerships

Scarborough:

Manulife Financial

Mississauga (Environmental Affairs Office):

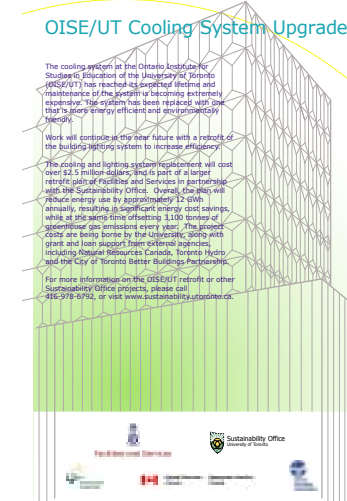
Peel Environmental Network, Smart Commute Mississauga, Sierra Youth Coalition, Education for Sustainability, University of Toronto Environmental Resource Network (UTERN), the City of Mississauga, the Riverwood Garden Council Park, Peel Environmental Youth Alliance and the Greater Toronto Area Hydrogen Village.



Above: SO Robarts display in August 2006

Right: Via Rail Magazine excerpt

Far Right: OISE Retrofits poster designed by Sustainability Office staff





Above: Launch ceremony of Rewire in September 2006. From left to right: President David Naylor, Philip Jessup, Peter Love, Richard Lü, Beth Savan, Matto Mildenberger, and Leah Stokes.

Right: Bikechain moves into the International Student Centre in June 2006.

Sustainability Office (St. George):

Citizens' Environment Watch, UTERN, Environmental Students Union, Toronto Hydro, the Northeast Campus Sustainability Consortium, World Wildlife Fund, Forest Stewardship Council, the University Health Network and Indeco Strategic Consulting.

Internal Media

The internet is one of the main tools used at the university to communicate about sustainability. Both the EAO and the SO feature newly designed websites at:

www.utm.utoronto.ca/green
www.sustainability.utoronto.ca

Between January and December of 2006, the SO website received over 5,200 unique visitors, up slightly from the same period in 2005.

At Mississauga, the EAO has published guides on simple environmentally friendly practices and recycling. The SO publishes the Green Note, a quarterly newsletter, along with pamphlets containing general information. On occasion, the EAO and SO distribute information through respective listservs, each



with hundreds of subscribers.

The SO has utilized display cases in high-traffic areas such as Robarts Library and the Sidney Smith building to raise awareness of sustainability initiatives. Additionally, the SO has also designed and distributed a number of educational posters communicating the details of energy and resource conservation projects in partnership with Facilities and Services (F&S). Finally, all three campuses enjoy widespread U of T media coverage, through college and campus newspapers and radio stations, such as the Varsity, the Bulletin, U of T Magazine, the Medium and CIUT.

External Media

Sustainability at each of the three campuses has been highlighted in radio, print, locally, nationally and internationally. Articles have appeared in such varied print media as the Toronto Star, NOW magazine, the Annex Gleaner, the Association for the Advancement of Sustainability in Higher Education Bulletin, the Sustainable Endowments Institute Report, the Mississauga News, VIA Rail magazine, the Canadian Centre for Pollution Prevention Guide, the Royal Architectural Society of Canada Magazine and the Electricity Distributors Association Weekly. Please See Appendix D for more information.

Events

Representatives from the University of Toronto have organized or been invited to speak in numerous fora. These opportunities highlight the university's efforts to increase sustainability, while strengthening inter-institutional relationships. Staff from the EAO and the SO attended the Association for Advancement of Sustainability in Higher Education Conference in Tempe, Arizona in October of 2006. The event attracted over 600 participants from universities and colleges across North America; staff from the SO delivered two papers to an audience of approximately 40 people.

Eight staff members from the SO also attended the North-east Campus Sustainability Consortium held at Yale University in November 2006, delivering a paper to approximately 20 participants. The conference was attended by over 300 sustainability professionals predominantly from the north-eastern American states and Canadian provinces.

Representatives from the EAO and the SO attended the Sierra Youth Coalition national conference in the fall of 2006 at the University of Prince Edward Island, as well as the provincial conference held at Trent University. The EAO presented to an audience of 30 people on two occasions.

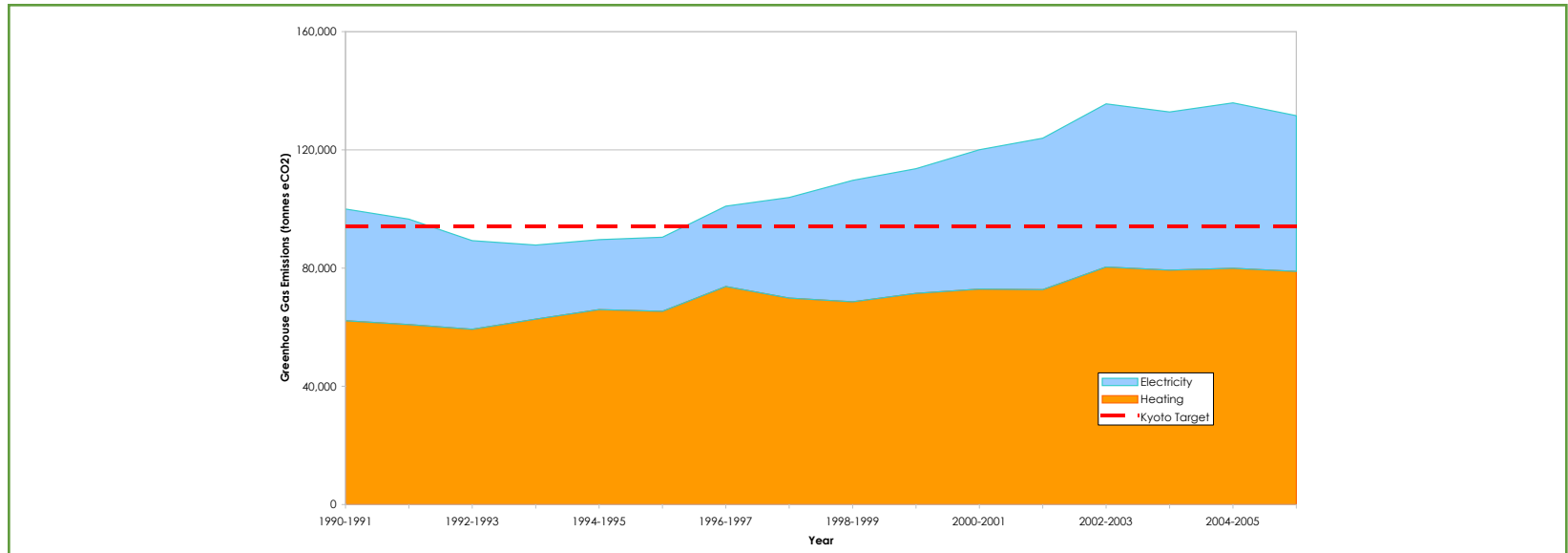
In addition to conferences, staff from the SO and the EAO frequently organize well attended outreach, educational and training events. For instance, representatives from each campus held a tri-campus bike ride in September 2006, attended by 20 people, and the Rewire project at the SO regularly trains over 50 volunteers on a quarterly basis. In total, sustainability initiatives at the three campuses have reached thousands of staff, students, faculty and community members. Please see Appendix E for a full listing.

Recognition of Achievement

In January 2007, the Sustainable Endowments Institute released a report ranking the sustainability of the 100 best-endowed public and private universities in the United States and Canada. The University of Toronto received a grade of B-, placing it in the top quartile of those schools evaluated; of particular note was the A grade received by the university administration for leadership in sustainability.

The new Student Centre at UTSC received awards from Green Toronto and the Ontario Council of Architects for green building design. Nominations are also being submitted for the City of Toronto's Green Award, as well as the City of Mississauga's Communities in Bloom Award.

Measurement and Assessment

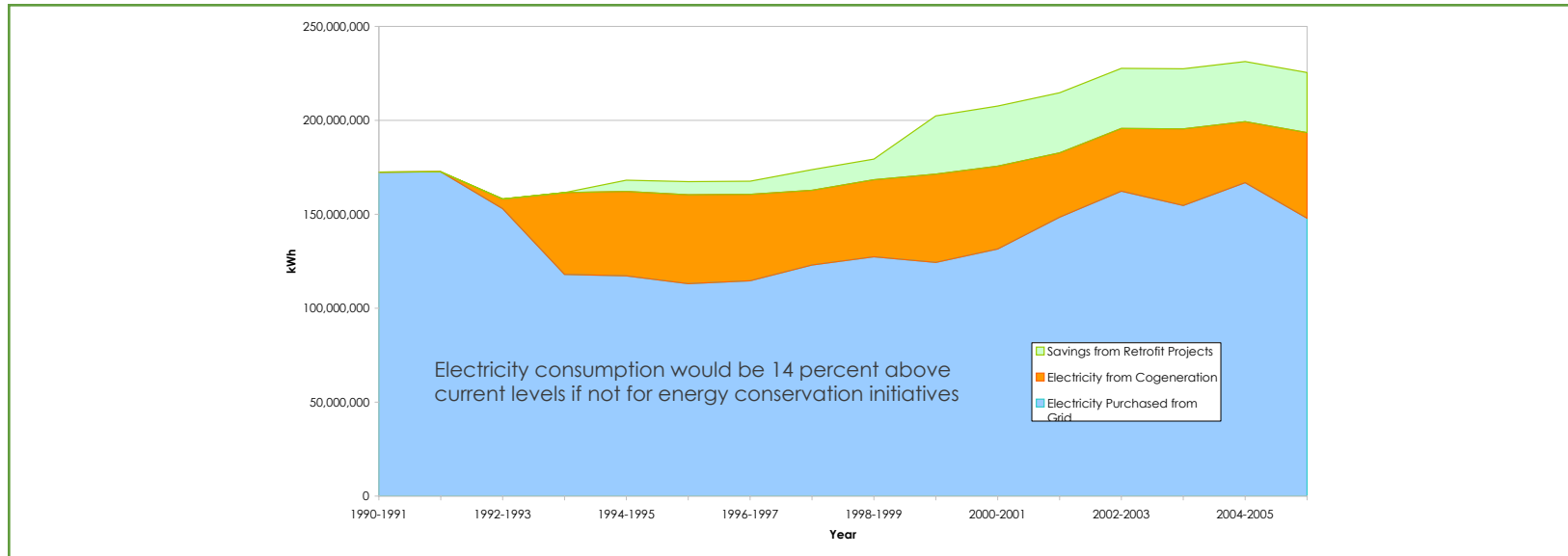


Above: St. George Campus CO₂ equivalent emissions (excluding federated colleges)

Greenhouse Gas Inventory

Accurately monitoring emissions and resource use is fundamental to the success of sustainability initiatives in identifying opportunities, prioritizing projects and evaluating program effectiveness. The three-year Sustainability Plan is currently being revised to reflect and enhance the integration of sustainability efforts at all three U of T campuses. Using tools such as those outlined below, the plan will provide a framework to evaluate each of the three campuses.

Among institutions of higher learning, the University of Toronto is a leader in the measurement of greenhouse gas emissions. The recently completed greenhouse gas inventory for the St. George campus (excluding the federated colleges), giving a building by building picture of emissions (www.sustainability.utoronto.ca/greenhouse_gas). The results of the inventory indicate that emissions are in-line with Canada as a whole, above Kyoto targets by 35 percent. University staff are working to expand the inventory in scope (to transportation and waste) as well as to the federated colleges, UTM and UTSC.



Above: St. George Campus electricity usage, production, and savings from retrofit projects

Ecological Footprint Analysis

Over the past three years, students have developed a UTM-specific Ecological Footprint Analysis for the Mississauga campus. Most recently, this analysis determined that UTM uses the equivalent of over 8,500 hectares to operate annually, a number which has increased over time.

Campus Sustainability Assessment Framework

The SO is coordinating research on the sustainability of practices across the St. George campus using the Sierra Youth Co-

alition's Campus Sustainability Assessment Framework (CSAF).

This assessment, composed of over 170 research-based indicators of sustainability, will paint a broad picture of the environmental and social health of the campus that will be used to engage students and inform the direction of projects at the Sustainability Office. This tool will also be useful for comparisons to other universities and for measuring project effectiveness. In the 2006-2007 academic year, students in three courses (ANT 450, ENV 421, APS 112) will undertake a portion of the research required to complete the CSAF for the St. George campus.

Ways and Means



Numerous projects and initiatives that address sustainability are underway at all three campuses, enhanced by the integration of research, learning and implementation. These initiatives use the university as a living laboratory to test a myriad of sustainability strategies, an approach that has proven to be successful in engaging students, faculty and staff while improving campus sustainability. What follows are more detailed descriptions of just some of the key projects being implemented at each of the campuses, organized into the following categories: transportation; technology and retrofits; buildings and lands; and behaviour and policies.

Transportation

Scarborough

Bike Movement

The University of Toronto Scarborough (UTSC) Bike Movement is dedicated to promoting bicycle culture on campus by bringing together cyclists and non-cyclists alike to facilitate the uptake of cycling as a mode of transportation and recreation. As over 90 percent of students commute to the Scarborough campus daily, bicycles have a significant potential to be a practical alternative to motorized transportation.

Mississauga (Environmental Affairs Office)

Bikeshare

BikeShare was established on the Mississauga campus in 2004 and provides students and faculty with a free bicycle rental and repair service at UTM. The program is funded by the university and is run by student staff and volunteers. Students and faculty are able to sign out a bicycle free of charge for up to 24 hours. In addition, BikeShare offers a bicycle repair service in which students and staff can bring in their bikes for repair. Ultimately, BikeShare promotes active transportation, thereby improving public health and local air quality while decreasing vehicular congestion on the Mississauga campus.



University Bus Pass

In late January and early February 2007, a referendum to approve a university bus pass (UPass) in partnership with Mississauga Transit (MT) occurred. With the highest voter turnout in campus history, over 80 percent of full-time undergraduate students and over 70 percent of full-time graduate students voted to approve the pass. The UPass will cost \$89 and provide un-

limited access to all service routes on MT for an eight month period, making the Mississauga campus the first student body in the Greater Toronto Area to achieve such a result through a referendum.

It is expected that the UPass will reduce greenhouse gas emissions by decreasing the number of low occupancy vehicle trips to the Mississauga campus. This initiative should also increase local air quality and decrease traffic congestion around UTM.

Carpooling and Rideshare

The UTM Carpool & Rideshare Program, launched in 2003/04, in partnership with Smart Commute Mississauga, provides an on-line database that enables students, faculty and staff to easily search for colleagues interested in sharing the cost of commuting to the campus. The program includes an Emergency Ride Home service for those who must unexpectedly leave campus during the day. Ninety-seven parking spaces have been reserved in preferential locations to encourage participation in the program. Each purchased Carpool permit offsets the demand for, at minimum, one additional parking space. The program is being monitored throughout the coming year to uncover areas for improvement and to measure program effectiveness.





Sustainability Office (St. George)

Bikechain

Bikechain continues to be one of the most successful examples of community engagement on the St. George campus. After being housed for one year in the parking garage of the Ontario Institute for Studies in Education, Bikechain moved to the basement of the International Student Centre, where it operates year-round. The new location is more visible, accessible, and convenient, and has proven to be an excellent catalyst to engage international students.

In spite of a tremendous effort on the part of volunteers and staff at the SO and EAO, a referendum for levy funding to support the Bikechain permanently was unsuccessful as quorum for the vote was not reached. However, volunteers were able to secure over 5,000 nomination signatures and a total of 88% of the voters said yes to the question. Through this unsuccessful campaign a higher level of student awareness was achieved, laying the groundwork for a successful referendum in the spring 2007 elections.

Bikechain currently has a roster of approximately 35 volunteers, 7 staff and 50-60 users per week, and has held nine workshops, and reached over 500 people through participation in numerous information events.

Transportation research

In conjunction with a fourth year independent study project (ENV491Y) and a second year research opportunity program (ENV299Y), the SO is undertaking research on the St. George campus to inform the development of an effective plan to reduce single occupancy vehicle related emissions from campus-associated transportation. By the summer of 2007 this research project will:

- Determine baseline modal data specific to the St. George campus;
- Examine opportunities for Transportation Demand Management using cost-benefit analyses;
- Engage focus groups to determine the attitudes and behaviours of members of the university community with respect to travel to and from the downtown campus;
- Place these findings within a broader context through an in-depth literature review; and,
- Provide the foundation for a sustainable transportation plan.



Technologies and Retrofits

Scarborough

Numerous progressive retrofit projects are in progress at the Scarborough campus, including a lighting retrofit, and a phased replacement of energy inefficient doors and windows. In addition, a sustainable roof (high insulation value, renewable materials) has been installed on the Athletic Centre, and centralized heating and cooling equipment has been replaced with energy efficient, CFC-free models. A program has also been established to remove transformers that contain PCBs.

Mississauga (Environmental Affairs Office)

UTM first became involved in the area of energy technology by recognizing the need for a cohesive Canadian approach to commercialization of emerging energy concepts. In 2003, the Centre for Emerging Energy Technologies (CEET) was launched with the aim of acting as a platform upon which research, teaching and public education initiatives may be built.

Over the past year, CEET has been investigating the effectiveness of emerging technologies at the Mississauga campus,

including microturbines and solid oxide fuel cells.

Solar Energy

Mississauga recently installed a photovoltaic solar array on the exterior wall of the South Building, consisting of 35 photosensitive panels with a total peak output power rating of over 4.5 kW. Output from the array is being monitored, and can be viewed in real-time on the internet at: http://www.utm.utoronto.ca/~solardat/Day_Graph.png.

In addition, the Mississauga campus uses an electric visitors cart outfitted with two solar panels that capture energy to drive the cart, a highly visible demonstration project at the campus.



Sustainability Office (St. George)

Lighting and Chiller Retrofit

With generous financial support from Toronto Hydro, the Better Buildings Partnership and Natural Resources Canada, work has begun on the 20 million dollar lighting and chiller retrofit at the St. George campus. This project will replace lighting systems in Robarts Library, the Ontario Institute for Studies in Education and the Medical Sciences Building. The project will also replace 18 chillers on the campus, increasing their efficiency by 30 percent and safely disposing of the CFC's currently being used in the outdated chillers.

This project will save the university 1.3 million dollars and reduce its greenhouse gas emissions by 3,100 tonnes of eCO₂ annually, equivalent to removing 600 cars from the road.

Water Efficiency

Facilities and Services drastically reduced water wastage at the Ontario Institute for Studies in Education by installing motion sensor-based systems. At a capital cost of \$25,000 this retrofit of 15 washrooms will save an estimated 7 million litres of water and \$10,000 per year, resulting in an expected payback



period of three years. Measurements are being conducted before and after the retrofit in order to verify exact savings.

Wind Energy

Along with Sustainability Office and Hart House staff, a graduate student in Urban Planning has initiated a pre-feasibility study for erecting a wind turbine on university property in Caledon Hills. More specifically, the study is investigating the various regulatory, political, technical, and economic constraints of erecting a wind turbine, comparing commercially available turbines and recommending optimal locations.

While area development restrictions may be problematic, it may be economically viable to install a 150-300 kW capacity wind turbine on the property, which would generate between 250 and 350 MWh annually. Final recommendations from the report are expected in the spring of 2007.

Buildings and Lands

Scarborough

New Construction

All new buildings constructed on the Scarborough campus since 2002 have used advanced construction techniques to

achieve high levels of energy efficiency. The Student Centre includes numerous measures intended to reduce energy and water consumption and as well as overall impact on the environment. Sustainable technologies used in the building include dual flush toilets, passive solar techniques, air and water heat recovery systems and recycled steel beams from the Royal Ontario Museum. It is estimated that these technologies reduce the buildings water use by 20%, and energy use by up to 40%, compared to a conventional building.

The Arts and Administration building is also extremely efficient and showcases many environmental features to reduce energy and water consumption. Similar to the Student Centre, this building incorporates a green roof, an underground cistern to collect rainwater, automated lighting controls and improved access to public transit.

Stormwater Management

Landscape elements designed to remove silt and pollution from surface runoff water, or bioswales, have been included in the design of the Student Centre as well as the Arts and Administration building. A similar feature is to be included in a major redesign of parking facilities. These features will prevent the introduction of harmful elements typically found in run-off, such as lead, chromium, cadmium, as well as phosphates, ni-



trates and pesticides.

Naturalization

Last year, UTSC partnered with the Evergreen Foundation and Manulife Financial in a major naturalization initiative on campus that led to the planting of almost 700 trees and native plants. Over 120 volunteers participated in the program. The naturalized areas will absorb greenhouse gases, improve stormwater management, and enhance the biodiversity and natural beauty of the campus. This program will be continued and expanded in 2007.

Mississauga (Environmental Affairs Office)

New Construction

The most recently constructed buildings at the Mississauga campus have utilized advance construction techniques to achieve high levels of energy and resource efficiency. An initial assessment of the early designs for the Recreation, Athletics and Wellness Centre (RAWC), as well as the Academic Learning Centre, indicated that the latter project had a high potential to meet LEED standards, and as such, the project is being registered as a candidate for LEED certification.

While certain aspects of the design of the RAWC, particularly the inclusion of the aquatic center, did not make LEED registration practical, the building is nevertheless a very resource and energy efficient, and includes features such as a green roof. LEED standards are being considered in the design of other upcoming building projects at UTM, such as Oscar Peterson Hall, a new student residence scheduled to open in the fall of 2007.

Naturalization

With the support of students, university grounds staff, the City of Mississauga and the Credit Valley Conservation Authority, UTM has partnered with Evergreen to establish a major naturalization initiative. In 2006, over 230 volunteers planted 380 trees and 1,900 wildflowers - twenty locations have been designated as protected, re-naturalized areas on campus. Future plans include broader community outreach, further partnership with Evergreen for landscape planning, a Jefferson Salamander Recovery project, as well as an Old Field Recovery project.

In addition, a design for a stormwater management pond that will collect all of the surface water runoff from the campus was approved. The site will feature a naturalized perimeter, provide some water for irrigation and will be used as an



educational tool for hydrologic studies by geography field students. These initiatives will both beautify the campus and help to restore its ecological integrity.

Sustainability Office (St. George)

Roofing

After reviewing numerous options, Facilities and Services has chosen to employ a sustainable roofing standard (high insulation value, highly reflective, long life, LEED compatible) for all new and replacement roofs. To date, Facilities and Services has installed this sustainable roofing on: the Fisher Rare Books Building, Architecture Landscape and Design, Mechanical Engineering, Music, Koffler Multi-Faith Building, Sidney Smith (tower), along with portions of McLennan Physics, Dentistry, and Simcoe Hall.

Stormwater Management

The SO has applied for funds from the Toronto and Region Conservation Authority's Community Program for Stormwater Management to undertake a pilot project to install filters on a number of parking lot storm drains across the campus. If the application is successful, the filters will be collected by students to evaluate their performance removing pollutants such

as fats, oils, grease, hydrocarbons, heavy metals, and other suspended solids from parking lot runoff.

Behaviour and Policies

Mississauga (Environmental Affairs Office)

Green Star

The Green Star conservation program is a student driven initiative led by the Green Team that educates the UTM community on the environmental and societal benefits of energy conservation. Green Star reminder stickers are placed on items such as printer trays with recycled/reused paper, near light switches, on computer monitors, recycling bins, and thermostats. Ultimately, the Green Star project aims to improve the environmental aspects of administrative practices and purchasing policies at UTM.



St. George (Sustainability Office)

Rewire

Rewire is an innovative campaign that encourages students, faculty and staff at the University of Toronto to reduce their

energy use. The Rewire Project is based on the principles outlined by Douglas McKenzie-Mohr in his book entitled "Fostering Sustainable Behaviour" and is a synthesis of social marketing strategies that can be implemented as a single plan. The goal is to develop and launch a replicable electricity conservation strategy that persuades participants to make simple changes in their behaviours, reducing electricity consumption by up to 10 percent. Currently, Rewire is being piloted in seven residences, three offices, several common areas, classrooms, and labs, reaching over 3,000 students, staff and faculty at the St. George campus. Research and program evaluation is being conducted through electrical metering, focus groups and surveys.



In 2007, the SO will focus on streamlining and improving the effectiveness of this unique and highly visible project. Rewire is possible in large part due to the generous financial support of the Toronto Atmospheric Fund, EcoAction, the Ontario Power Authority, the Better Buildings Partnership and Human Resources and Skills Development Canada.



ReSource

In partnership with the Toronto Dominion Friends of the Environment Foundation and UTERN, the goal of the ReSource project is to identify, evaluate and implement methods to reduce paper consumption by staff, faculty and students on the St. George campus. ReSource will carefully monitor and evaluate the effectiveness of different methods to reduce paper consumption, including: increasing the reuse of single-sided paper, facilitating and encouraging double-sided printing (duplexing), using electronic media to communicate and store data without paper, and changing attitudes and socially accepted behaviours around paper use.

This project is expected to engage 220 staff, faculty, and students at three St. George campus sites (Forestry, Music, Advancement) in 2007. Results will be measured by metering paper consumption, combined with paper audits and pre and post intervention surveys. The most effective measures will be developed into a replicable program can then be adapted and implemented across the entire university.



Appendices

Appendix A: Sustainability Board Members

Elizabeth Sisam, Assistant Vice President, Campus and Facilities Planning (co-chair)

Ron Swail, Assistant Vice-President, Facilities and Services (co-chair)

Ray deSouza, Chief Administrative Officer, UTM

Kim McLean, Chief Administrative Officer, UTSC

Nick Zouravlioff, Chief Capital Projects Officer

Beth Savan, Director, Sustainability Office

Bruce Dodds, Director, Utilities and Building Operations

Jim Derenzis, Director, Facilities Management UTSC

Tenley Conway, Professor, UTM

Ted Relph, Professor, UTSC

Anne Macdonald, Director, Ancillary Services

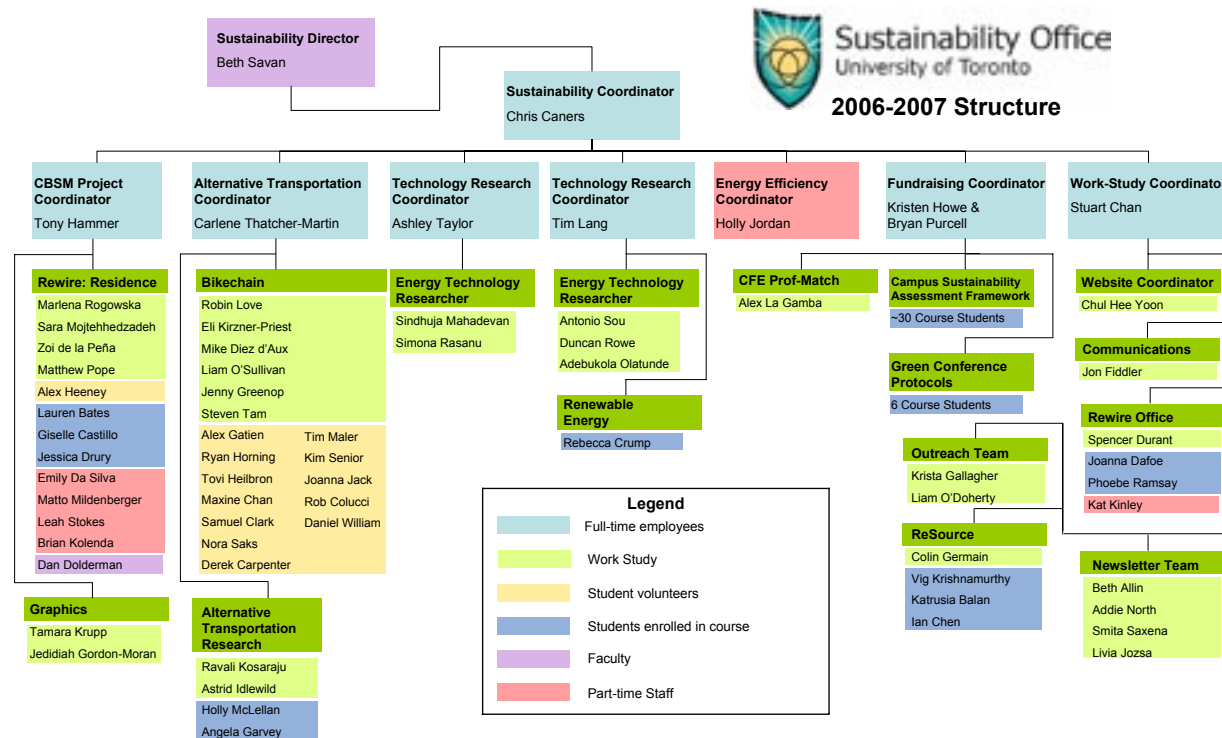
Ray Cheung, Manager, Property Management

Alec Macisaac, Manager, Ancillary Services

Catherine Riggall, Vice-President, Business Affairs (ex-officio)

Vivek Goel, Vice-President and Provost (ex-officio)

Appendix B: Sustainability Office Organizational Structure



Sustainability Office • www.sustainability.utoronto.ca • (416) 978-6792 • sustainability@utoronto.ca

Appendix C: Grant Activities

<i>Agency</i>	<i>Submitted</i>	<i>Value</i>	<i>Status</i>
Mississauga (Environmental Affairs Office)			
HIVA Environmental Fund	02/06	\$5,000	Granted
Habitat Stewardship Program	02/06	\$15,000	Granted
EcoAction (Environment Canada)	02/06	\$5,000	Granted
Community Foundation of Mississauga Pendle Fund	06/06	\$15,000	Granted
Student Experience Program (U of T)	02/07	\$78,100	Pending
Habitat Stewardship Program (Environment Canada)	02/07	\$12,000	Pending
Total		\$130,100	
St. George (Sustainability Office)			
Infrastructure Canada – PRRS	08/06	\$110,000	Not Accepted
Knowledge Impacting Society- SSHRC	01/06	\$600,000	Not Accepted
Natural Resources Canada	01/06	\$48,000	Accepted
299Y Student Research	01/06	\$22,500	Accepted
EcoAction (Environment Canada)	02/06	\$45,000	Not Accepted
Human Resources and Skills Development Canada	02/06	\$2,000	Not Accepted
Ontario Power Authority	02/06	\$54,400	Accepted
Human Resources and Skills Development Canada	03/06	\$1,358	Accepted
Information Technology Courseware Development Fund	03/06	\$2,000	Not accepted

EcoCanada	07/06	\$12,000	Accepted
Ontario Centres of Excellence	07/06	\$13,500	Pending
Better Buildings Partnership	08/06	\$10,000	Accepted
SEF (jointly with Centre for Environment)	09/06	\$141,000	Accepted
Social Sciences and Humanities Research Council	10/06	\$96,000	Pending
Toronto Dominion Friends of the Environment	10/06	\$9,000	Accepted
EcoAction (Environment Canada)	10/06	\$44,578	Deferred
City of Toronto – Stormwater Management	11/06	\$12,125	Pending
299Y Student Research	01/07	\$9,000	Pending
EcoCanada	01/07	\$12,000	Accepted
SEF (jointly with Centre for Environment)	01/07	\$75,700	Pending
EcoAction (Environment Canada)	02/07	\$41,078	Pending
Toronto Community Foundation	02/07	\$30,000	Pending
Total		\$1,390,000	

Summary

Grand Total Submission	\$1,520,000
Successful	\$349,000
Pending	\$376,400

Appendix D: Media Exposure

Tri-Campus

U of T Magazine	06/06	Forest Friendly: U of T Magazine goes green
NOW Magazine	08/06	Making the green grade
The Varsity	01/07	One community cycling group crashes, and another struggles on
The Bulletin	02/07	U of T sustainability leader: U.S. Report
The Varsity	02/07	U of T 's Green gets B-
Toronto Star	02/07	U of T ranked high for environmental conduct
Sustainable Endowments Institute	01/06	College Sustainability Report Card

Scarborough

Royal Architectural Society of Canada	05/06	How Green Is My University?
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Mississauga (Environmental Affairs Office)

The Medium	02/06	Welsh minister studies UTM tech
The Medium	02/06	Flatland jam' wheels into CCIT
The Varsity	03/06	Composting team wants UTM to think green
Toronto Star	05/06	Deals on wheels for U of T students
The Medium	11/06	UTM cleans itself up – one meeting place at a time
The Medium	11/06	UTM Residence Launches Energy Conservation Website
Environews	11/06	UTM develops ecological footprint calculator

St. George Campus (Sustainability Office)

The Varsity	03/06	Sustainability Office builds more efficient campus
The Varsity	03/06	Campus Cycle Shop grows up
The Bulletin	05/06	Bike Safety Essential on campus and off
Toronto Star	05/06	U of T's Green Revolution
The Bulletin	06/06	Rewiring Campus
SAC Clubs Directory	08/06	Sustainability Office Advertisement
Via Rail Magazine	08/06	Greening a campus
Toronto Star	09/06	Students push power savings
The Varsity	09/06	Rewire launched to reduce energy use
EDA Weekly	09/06	University of Toronto harnesses the power of social marketing
CIUT Campus Radio	09/06	Beyond the Classroom (Kristen Howe and Stuart Chan)
Canadian Center for Pollution Prevention	09/06	Consume This! Buying that matters
AASHE Bulletin	09/06	University of Toronto Uses Social Marketing to Promote Energy Conservation
U of T Magazine	12/06	Trash Talk
CIUT Campus Radio	01/07	Interview with Beth Savan

Appendix E: Events Attended and Organized

<i>Event</i>	<i>Attendance</i>	<i>Date</i>
Joint		
SYC National Conference	200	08/06
AASHE Conference	650	09/06
SYC Provincial Conference	200	09/06
Tri-campus bike ride	20	09/06
Mississauga (Environmental Affairs Office)		
University of Ontario Institute for Technology Tour		
Hydrogen Village Booth at Canadian National Exhibition		
United Way Charity Nature Walk		
EcoBuzz High School Environmental Conference		
Peel Environmental Youth Alliance Meeting		
St. George Campus (Sustainability Office)		
SO Open House	60	03/06
U of T Sustainable Energy Fair	50	04/06
Dan Leckie Forum	60	05/06
CUI Waste to Energy Forum	100	06/06
Bikechain Open House	60	06/06

City of Toronto Bike Showcase	50	08/06
Rewire Coordinator Training	50	08/06
Bikechain Levy Campaign	5000	08/06
Bikechain Workshop	10	09/06
Rewire Launch	70	09/06
SAC Clubs Fair	80	09/06
Biking in Toronto Seminar	6	09/06
Local Flavour Plus Launch	50	09/06
Intuit Networking	12	09/06
National Development and Reform Commission	30	08/06
Conservation Showcase	100	09/06
CBN/Bikechain/MEC Bikeswap Fundraising Event	20	09/06
Planet in Focus Film Festival	30	11/06
Northeast Campus Sustainability Consortium	300	11/06
Cycling in Toronto Workshop (Architecture)	15	11/06
Student Family Housing Environment Day	30	11/06
Film Screening of An Inconvenient Truth	35	11/06
NRCan's Building Energy Labelling Forum	100	12/06
National Roundtable on Economy and the Environment	100	12/06
Environmental Studies Career Day	30	01/07
CUHI's Spotlight on Urban Health Seminar Series	30	01/07
CUI Transportation in Toronto	100	01/07
SO Volunteer Training	30	01/07
Rewire Coordinator Retraining	40	01/07
International Day	20	02/07



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