

Sustainability at UTM

UTM Campus Council

May 23, 2023



UNIVERSITY OF
TORONTO

UNIVERSITY OF TORONTO MISSISSAUGA



UNIVERSITY OF
TORONTO
MISSISSAUGA

Sustainability
Office

DEFY
GRAVITY

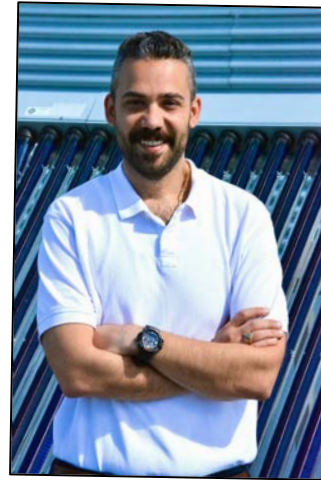
Agenda

1. Sustainability Office
2. Sustainability Strategic Plan
3. 2021-22 Sustainability Progress Report
4. At a Glance: Some Accomplishments Over the Past Year
5. Carbon Action Plan (*in progress*)
6. Next Steps

Who We Are

- Part of the Facilities Management & Planning Department
- Guided by the Sustainability Strategic Plan
- Operations and Academics

Our **vision** is to foster a culture of sustainability to become a world leader in sustainable practice.



Ahmed Azhari
Managing Director
Operations, Sustainability
and Asset Management



Beverley Ayeni
Sustainability Manager,
Strategic Initiatives



Arash Ghorayshi
Sr. Energy
Engineer



Samantha Diorio
Sustainability
Coordinator



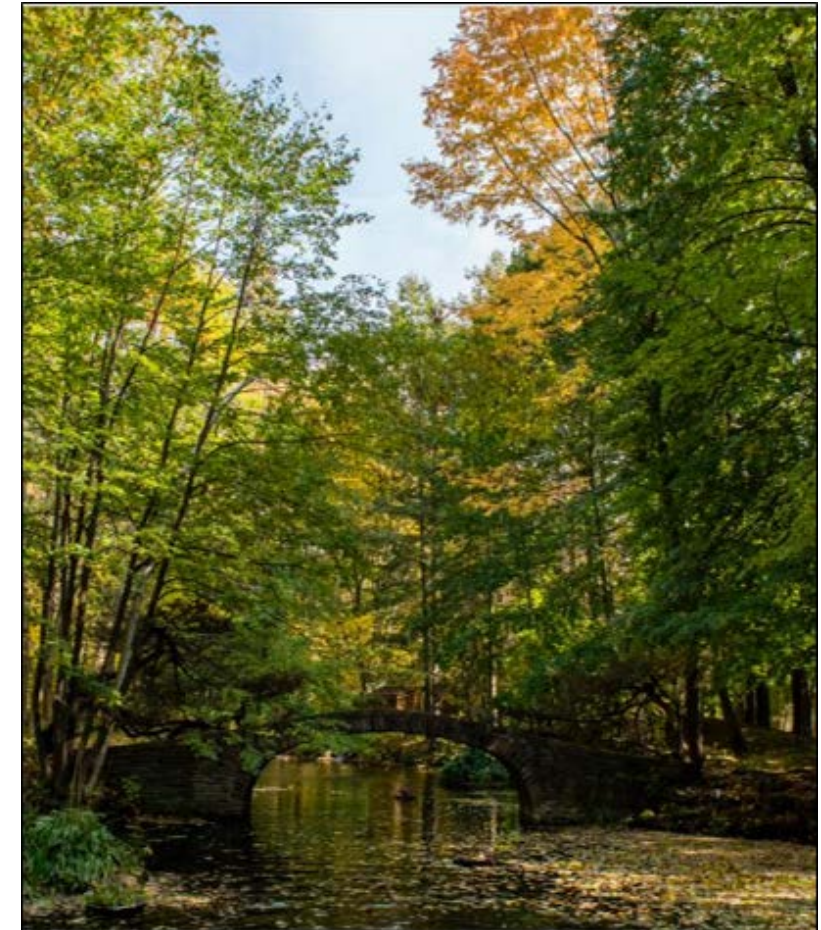
Sustainability Strategic Plan

Principal's Sustainability Advisory Committee (PSAC)

- In December 2017, during the creation of the Academic Plan, 17 members of the UTM community united to form a Sustainability Pathways Working Group (SPWG). Over the course of six months, SPWG conducted a wide-ranging discussion focused on incorporating sustainability in all areas of campus life: academic programs, research initiatives, campus outreach
- In 2019, the Principal's Sustainability Advisory Committee (PSAC) was formed
- Developed a long-term [Sustainability Strategic Plan](#) for the UTM campus

Five Pillars

1. Academic Programs & Curriculum
2. Research
3. Campus Engagement
4. Civic Engagement
5. Human Resources and Infrastructure
 - Facilities/Built Environment
 - Food & Dining
 - Procurement
 - Wellness/Well-being
 - Waste
 - Transportation



Sustainability Strategic Plan
Fostering a Culture of Sustainability 2030

Our First Progress Report

Jan 2021 – April 2022

A few highlights...

- Global Sustainability Certificate
- Campus as a living lab, and experiential learning projects
- Sustainability Week 2021 & 2022
- Lecture ME Series!
- Piloting new 4-1 waste bins
- OZZI reusable container program
- Local honey and produce harvested by Hospitality Department

Our Progress in Snapshot: Targets



Sustainability Strategic Plan
Progress Report January 2021 – April 2022



28

Completed



7

Accelerated



11

Paused



8

In progress



2

Ongoing



46

Planned

At a Glance: Some Accomplishments Over the Past Year

A few highlights...

- Inventory of Sustainability Scholars
- Sustainability, and Waste Ambassador programs
- Our Climate is Changing Adams Celebration Panel Discussion hosted at UTM
- PEYA's Amazing Green Race, Litter pick-up with City of Mississauga
- Sustainable Change Program launch
- Green Revolving Fund
- Furniture recycling
- Salt reduction through brining equipment
- Evaluating alternative fuel options for campus fleet

Our Progress in Snapshot: Targets





Carbon Action Plan

Pillar 5: Facilities and Built Environment

University Climate Change Coalition UC3 2030

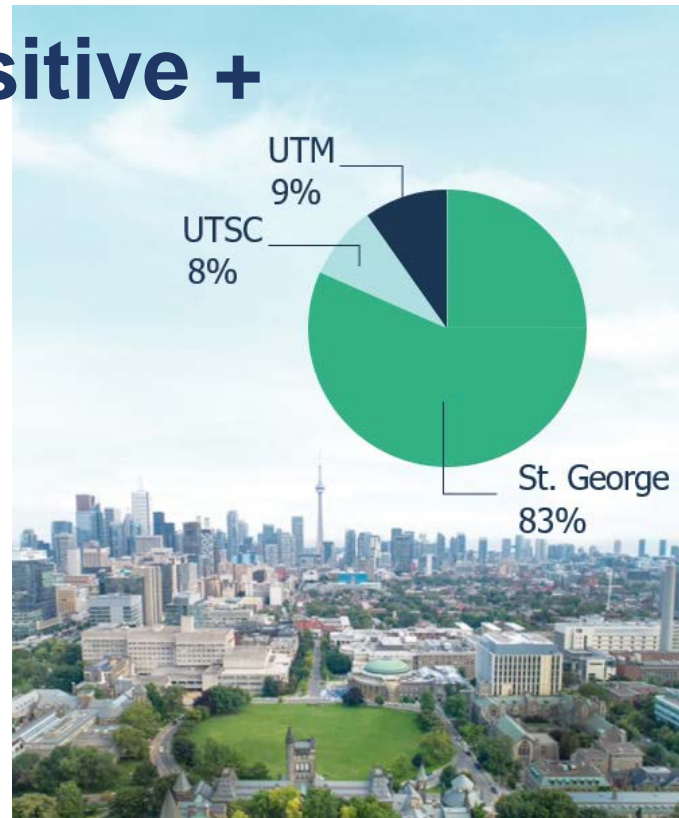


U of T has a long-standing commitment to operational sustainability and environmental stewardship that continues to grow in momentum. In 2018, the University of Toronto joined the University Climate Change Coalition (UC3); a group of 19 leading research universities in North America committed to reducing greenhouse gas (GHG) emissions on their own campuses and in their communities. In line with this commitment, the University of Toronto set a goal to reduce GHG emissions **37 per cent** by **2030**, below a **1990 baseline level**.

“Climate change remains one of the world’s greatest challenges, and the University of Toronto community—our brilliant students and alumni, faculty and staff—are working hard to meet that challenge.”

- President Meric Gertler

A Climate Positive + Campus 2050



The University of Toronto St. George campus will become climate positive by **2050**. We commit to reducing more greenhouse gases than we emit, creating a net benefit in our community. Our carbon and energy master plan describes how we will design and build our utility infrastructure to significantly reduce our operating carbon footprint— a critical first step on our path to becoming a climate positive campus.

“The University of Toronto is committed to taking decisive action against climate change, one of the most pressing challenges of our time”

- President Meric Gertler



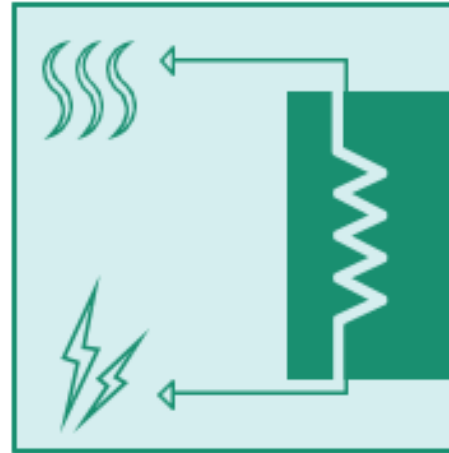
Framework

PRODUCE



Clean Energy &
Carbon Capture

DISTRIBUTE



Efficient
Distribution

CONSUME



Reduced
Consumption



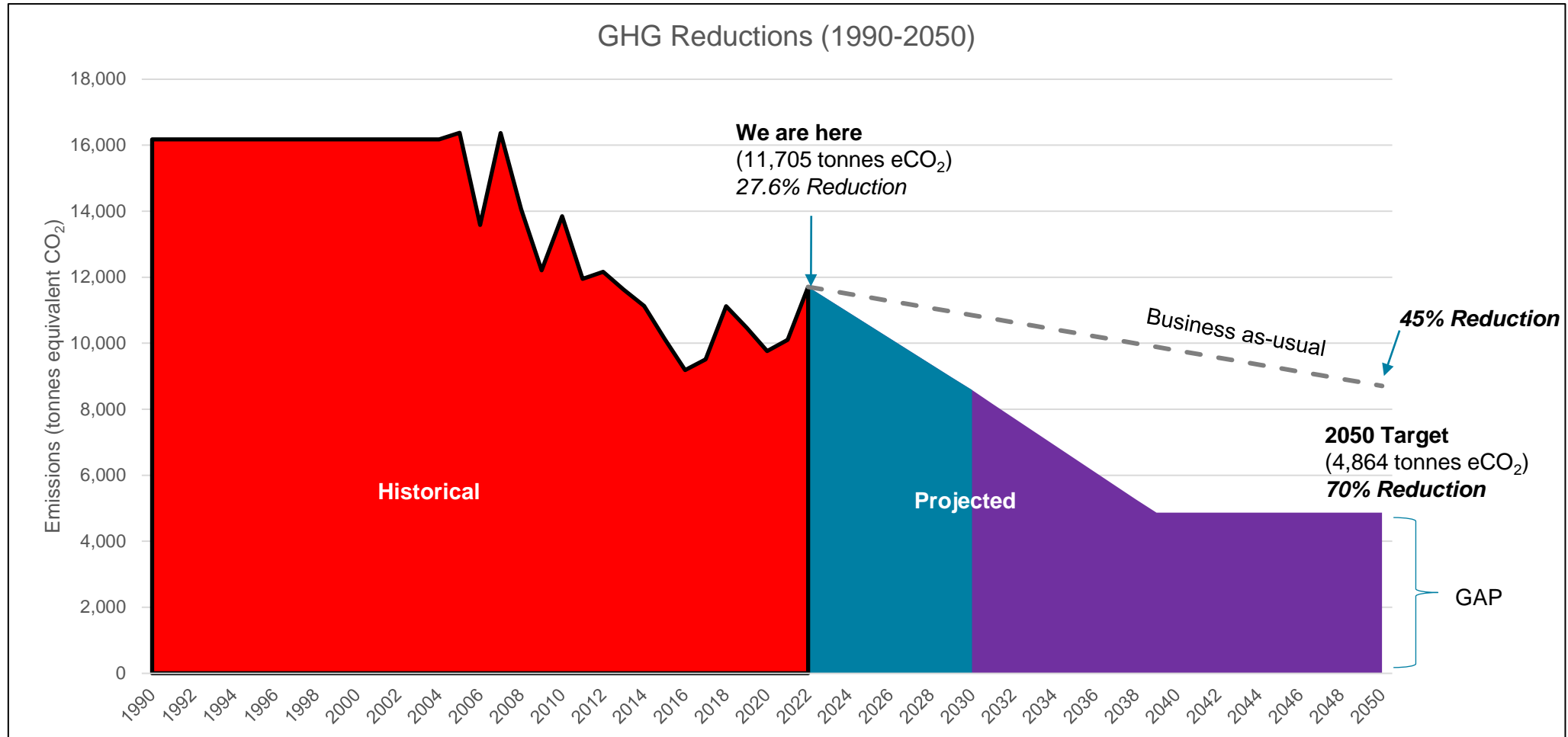
Clean Energy &
Carbon Capture

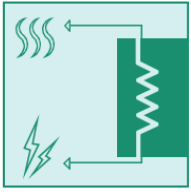
PRODUCE

Utilities Master Plan



- CUP** - Central Utility Plant
- SAB** - Stand-alone Building Plant
- - Chilled Water
- - Low Temperature Hot Water
- - Ground Water

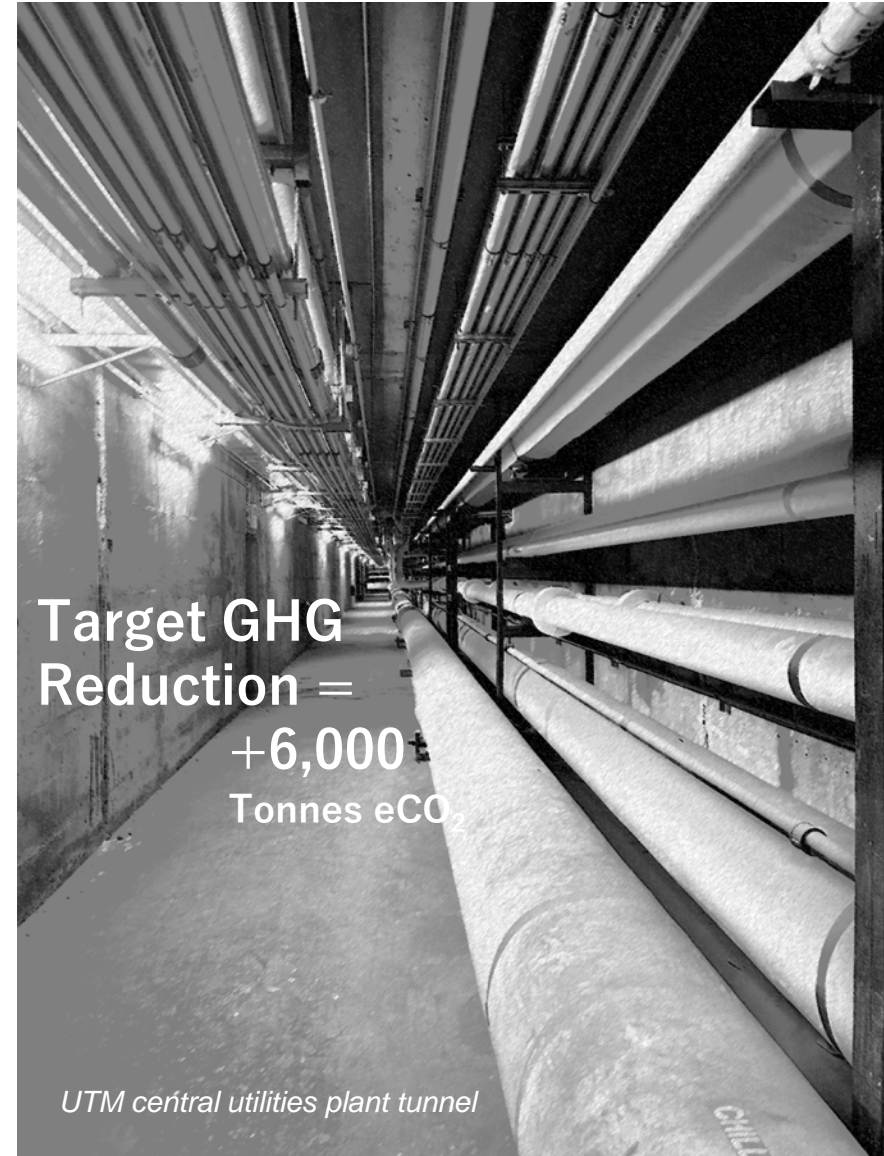




Efficient
Distribution

DISTRIBUTE

Electrification & Steam to Hot Water Conversion



Target GHG
Reduction =
+6,000
Tonnes eCO₂

UTM central utilities plant tunnel



Reduced
Consumption

CONSUME

Campus Wide Energy Audits

239

of ECMs
(Energy
Conservation
Measures)



1 Year to
Complete



2.5 Million
sq ft of
Buildings



30 Buildings
Audited



27 ASHRAE
level II audits



3 ASHRAE
level III audits

Next Steps



**Consolidate Utilities
Master Plan and
Campus Wide Energy
Audits into one Carbon
Action Plan**



Get involved, reach out

- **STTPA Oct 11th-13th, 2023**
- **Sustainability Week**
- **Campus Engagement**



**Transform
infrastructure to
support
decarbonization and
electrification of heating
systems**

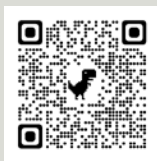


**Implement short- and
medium-term Energy
Conservation Measures**

Thank you!

Connect with us!

sustainability.fmp@utoronto.ca



@sustainableutm