

UTM Climate Positive Climate Change Mitigation Strategy

Ahmed Azhari

Acting Executive Director, FM&P

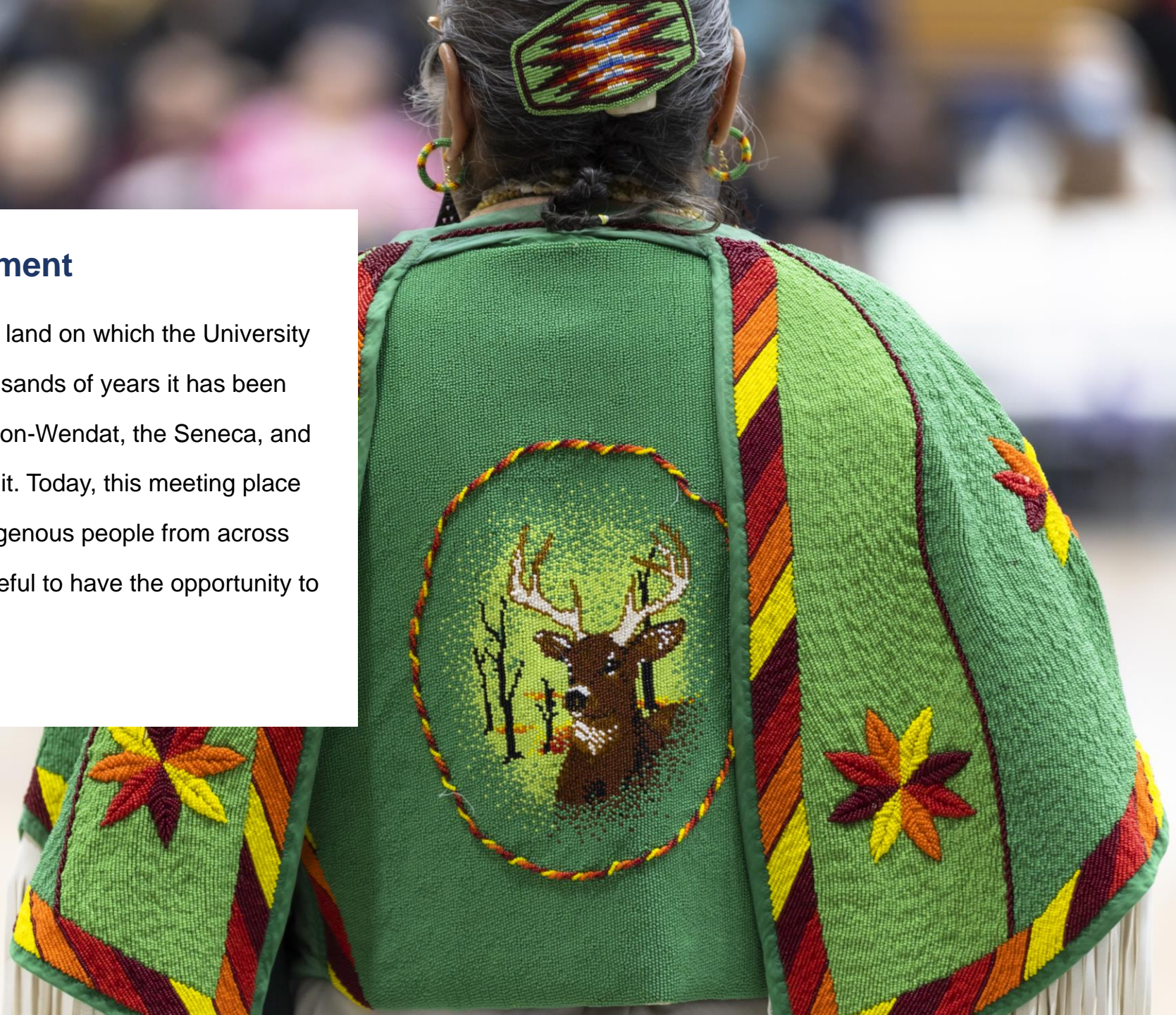
Managing Director - Operations, Sustainability and Asset Management

CAMPUS AFFAIRS COMMITTEE MEETING
Thursday, October 19th, 2023



Land Acknowledgement

We wish to acknowledge this land on which the University of Toronto operates. For thousands of years it has been the traditional land of the Huron-Wendat, the Seneca, and the Mississaugas of the Credit. Today, this meeting place is still the home to many Indigenous people from across Turtle Island and we are grateful to have the opportunity to work on this land.



UTM's Climate History

UTM'S KEY MILESTONES

A horizontal timeline with seven colored circles (yellow, yellow, blue, dark blue, yellow, yellow, green) marking key milestones. Each milestone includes an icon, a date, and a title.

- 2019 April**
 UTM Energy Conservation & Demand Management (CDM) Plan
 (Icon: Lightbulb with brain/circuitry)
- 2019 October**
 U of T Low Carbon Action Plan (LCAP)
 (Icon: Bar chart titled 'Low-Carbon Action Plan 2019-2024')
- 2020 July**
 UTM Utilities Master Plan
 (Icon: Buildings)
- 2021 January**
 UTM Sustainability Strategic Plan
 (Icon: Forest landscape)
- 2021 November**
 UTM Campus Master Plan
 (Icon: Plant sprout)
- 2022 March**
 UTM Strategic Framework
 (Icon: Circular diagram with 'U of T' logo and various strategy pillars)
- 2023 February**
 UTM Campus Wide Building Energy Audit Report
 (Icon: Audit checklist)

VISION

“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.”



Meric Gertler
President
University of Toronto

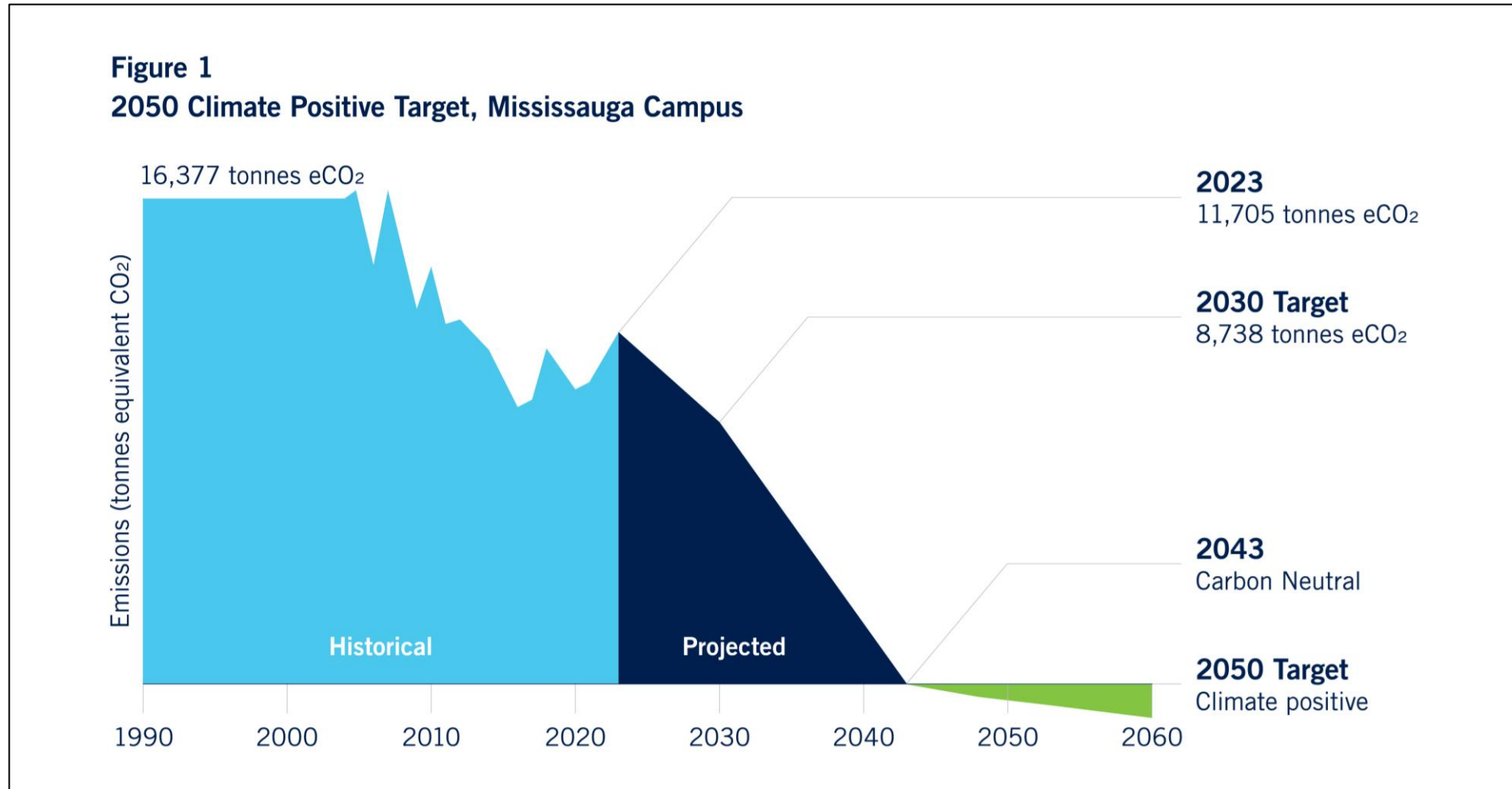
“Climate change is one of the grand challenges of our lifetime; and time isn’t on our side. But we have the power to act now.”



Alexandra Gillespie
Vice-President and Principal
University of Toronto Mississauga

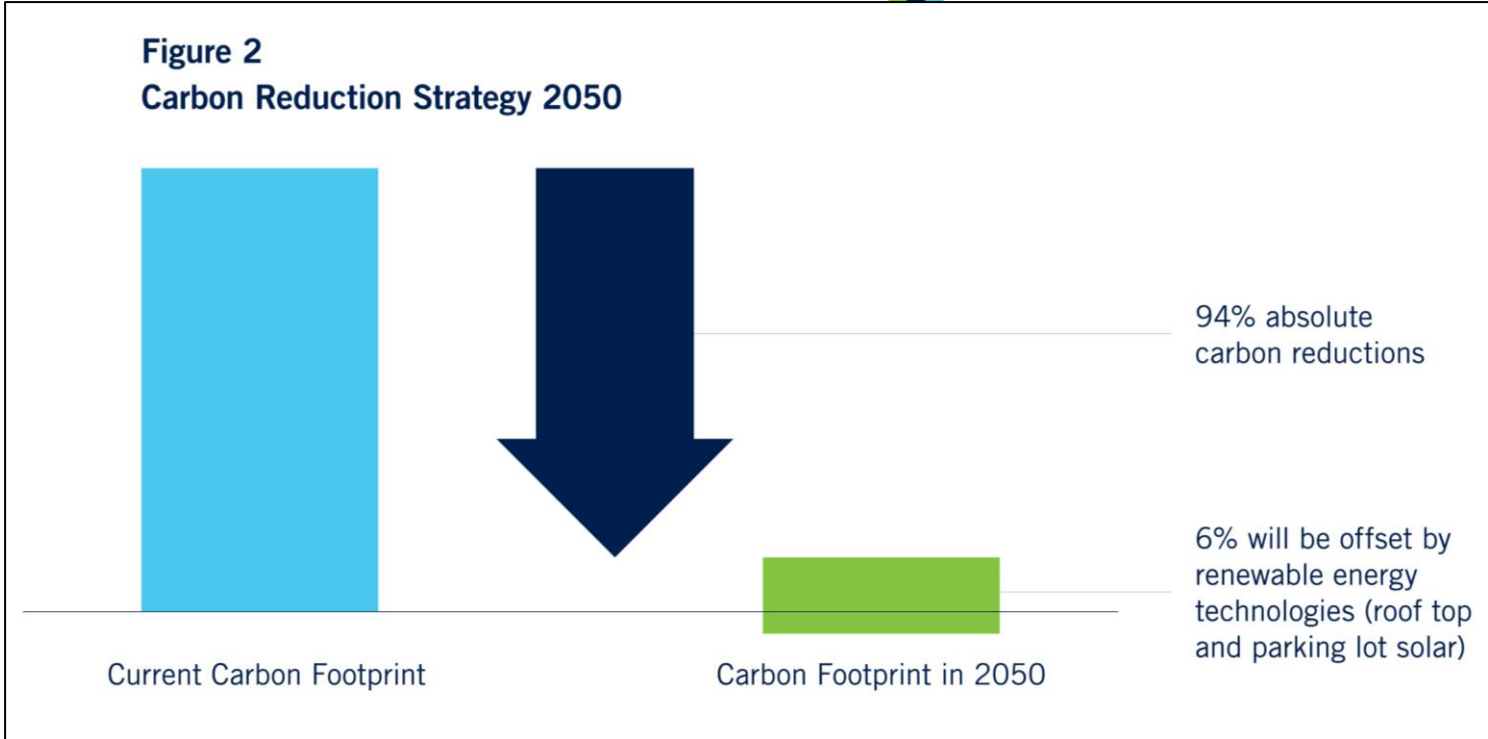


Achieving Climate Positive



Reducing Absolute Carbon Emissions

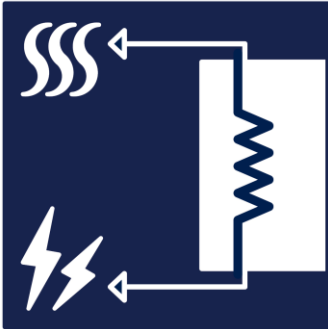
Our 2050 climate positive goal will be achieved through at least 94% absolute carbon reductions on-campus.



Framework



1. CONSUME



2. DISTRIBUTE



3. PRODUCE



CONSUME

240
of ECMs
(Energy
Conservation
Measures)



1 Year to
Complete



2.5 Million
sq ft of
Buildings

Campus Wide Energy Audits



30 Buildings
Audited

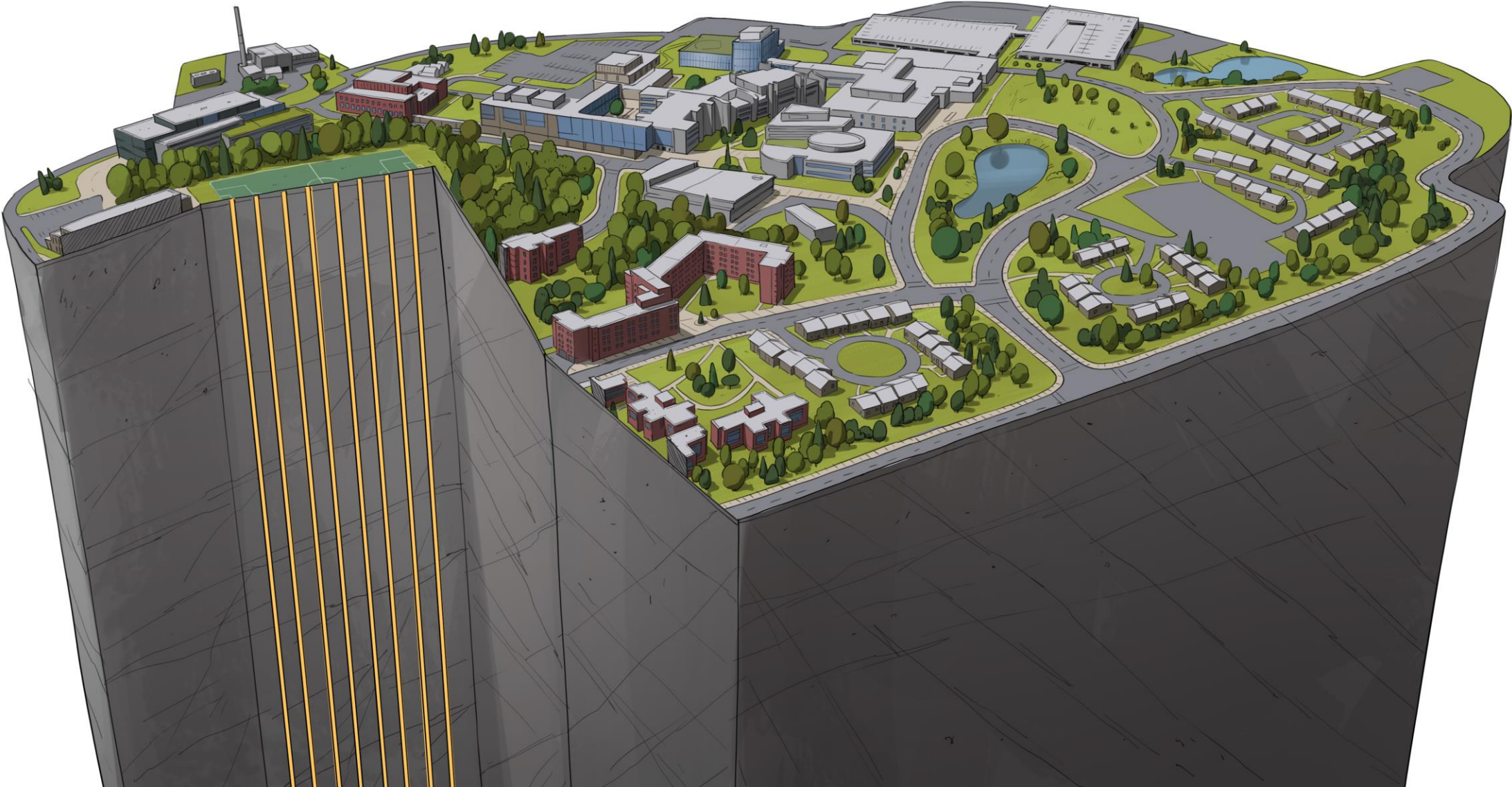


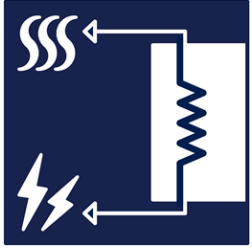
27 ASHRAE
level II audits



3 ASHRAE
level III audits

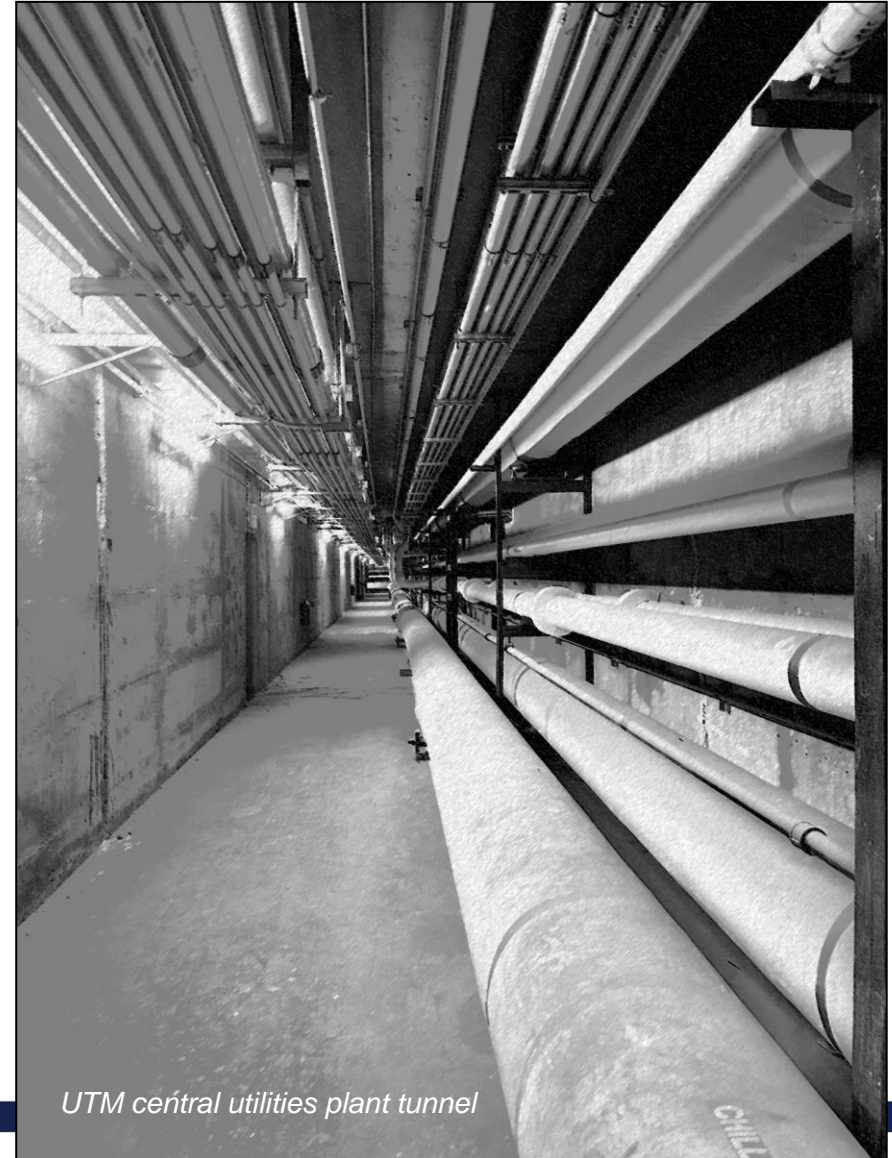
UTM's First Geothermal System





DISTRIBUTE

Electrification & Steam to Hot Water Conversion

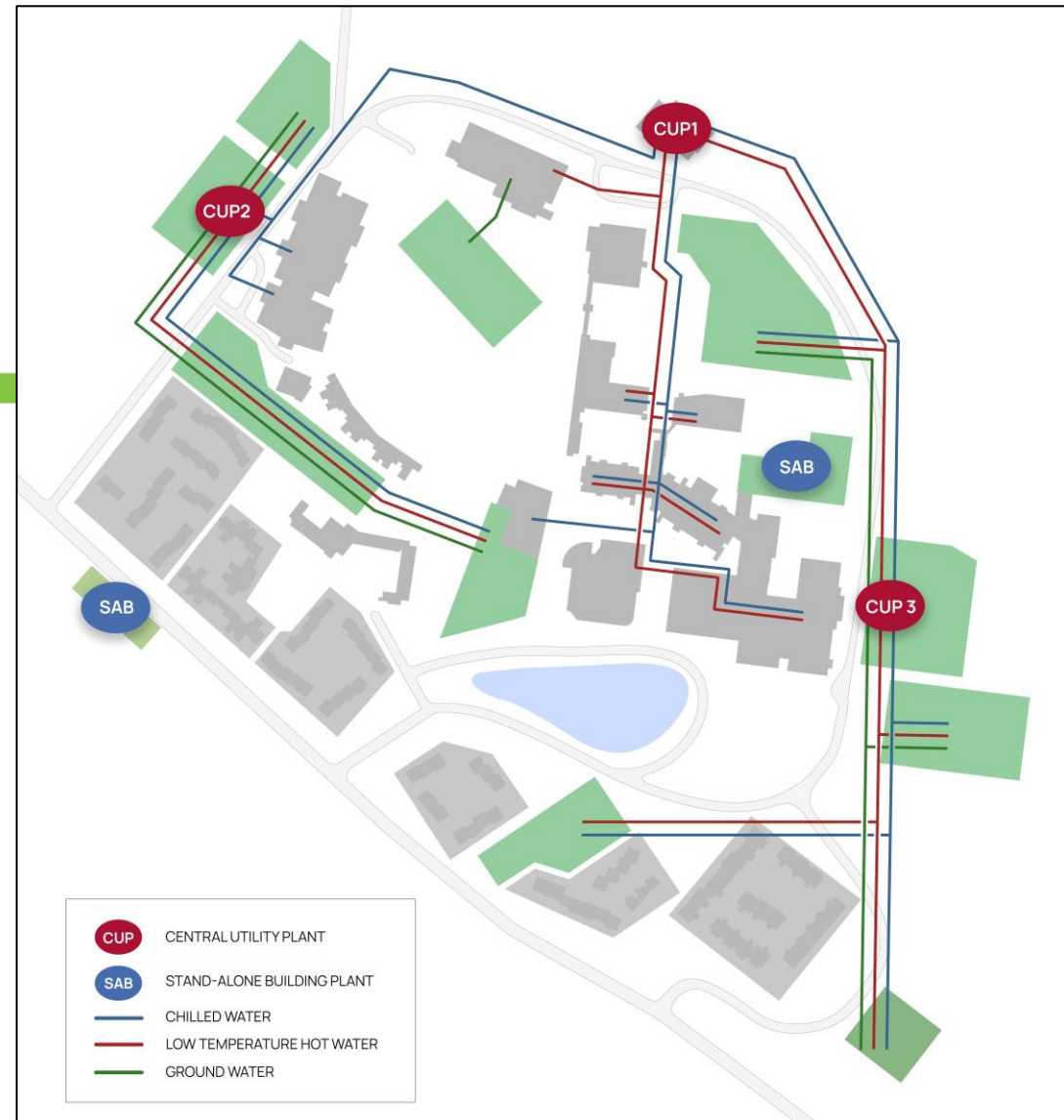


UTM central utilities plant tunnel

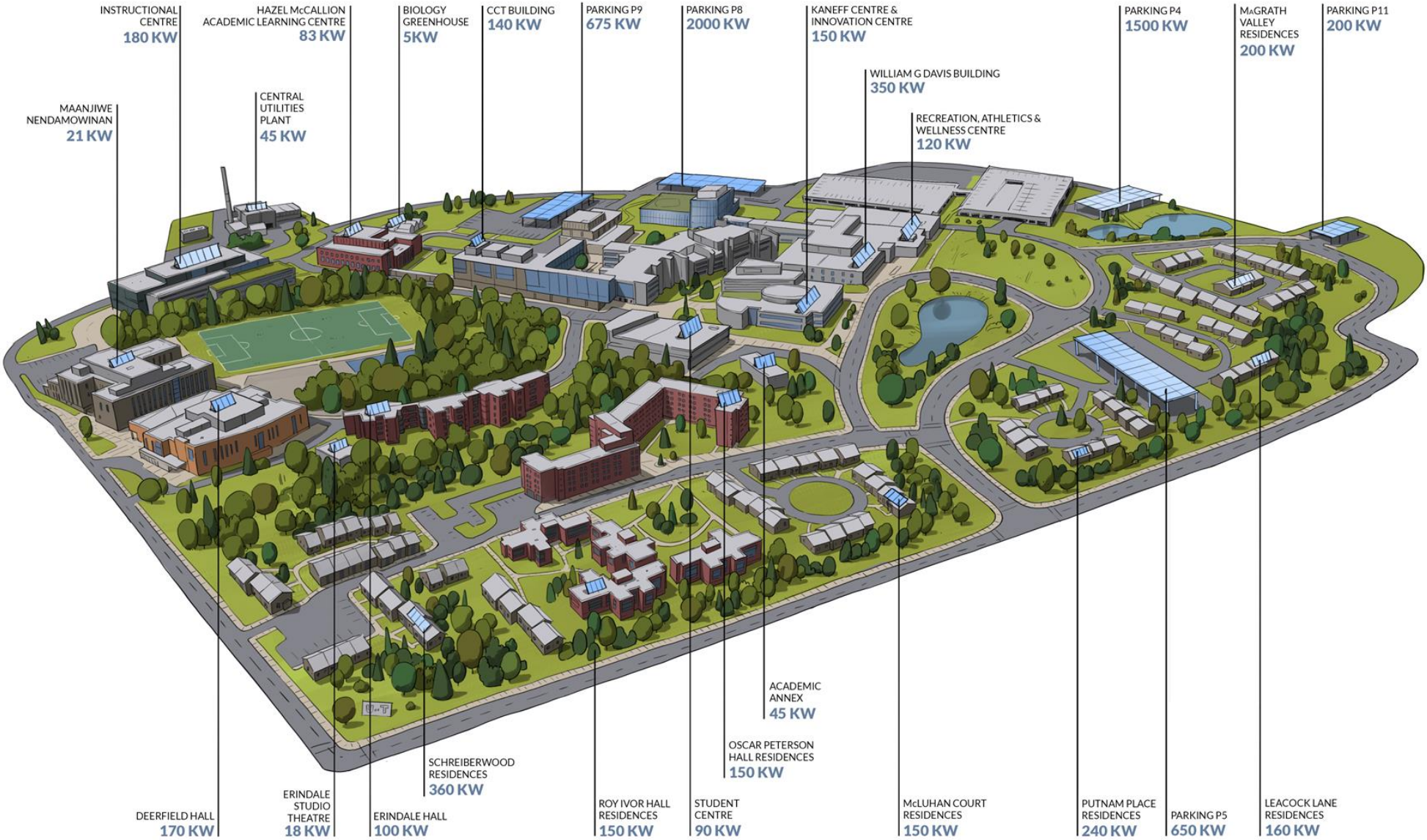


PRODUCE

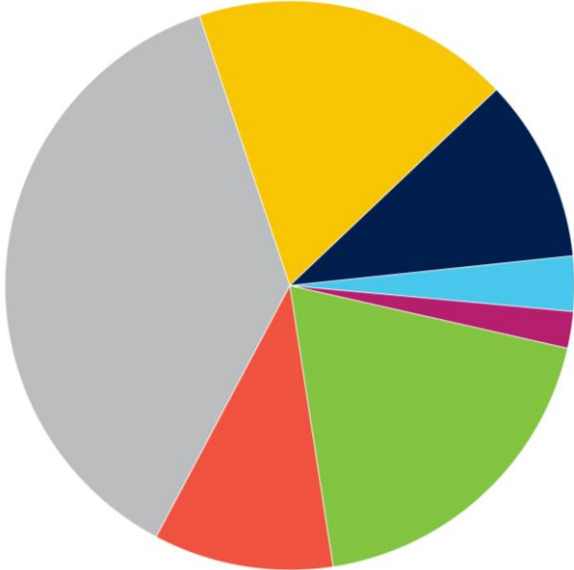
Utilities Master Plan



Expanding Solar Power on Campus



UTM's Path Forward



2050 CLIMATE POSITIVE TARGET, MISSISSAUGA CAMPUS

- Lighting
- Renewables
- Water Conservation
- Parking Lot PV
- Building Envelope
- Controls
- HVAC



“To realize this positive change, we need a big investment—of resources, time, and expertise. UTM is ready to do it, alongside our research, community, government, and public partners.

We have an amazing opportunity to extend U of T’s leadership as one of the world’s most sustainable universities and to achieve our climate positive goals together.”



Deborah Brown
Chief Administrative Officer
University of Toronto Mississauga



Thank you!

Connect with us!

sustainability.fmp@utoronto.ca



@sustainableutm