



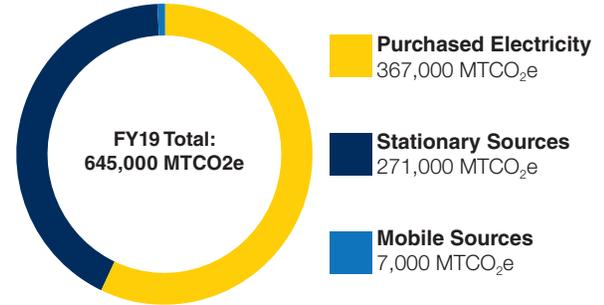
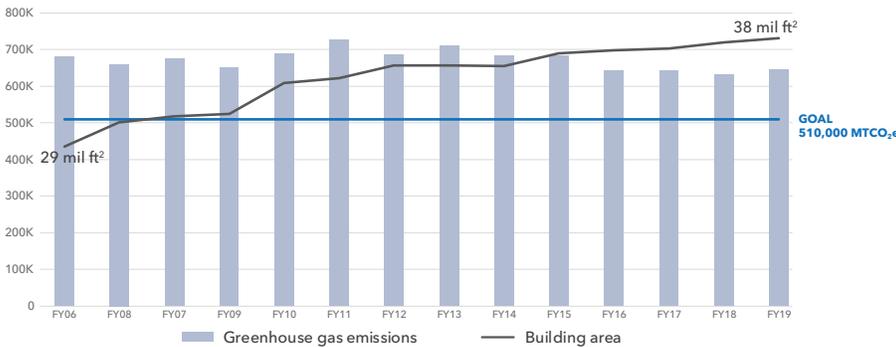
Sustainability Goal Update

Climate Action

DECEMBER 2019

Greenhouse Gas Reduction: Reduce greenhouse gas emissions 25% by 2025. **Status:** 5% Reduction

University of Michigan Greenhouse Gas Emissions
Metric Tons Carbon Dioxide Equivalent (MTCO₂e)



TREND: Energy conservation has offset campus growth. Fugitive natural gas emissions (such as leaks), which are not included in the current goal, are being evaluated for future inclusion.

Key Initiatives	Key Accomplishments	Next Steps
Central Power Plant Expansion	A cumulative reduction of more than 400,000 metric tons of CO ₂ is expected within the first 10 years of operation. Construction began summer 2019.	Estimated project completion: winter 2021
Wind Power Purchase Agreement	Finalized agreement to purchase 200,000 MWh/year of wind energy from DTE. GHG reductions are estimated at 100,000 metric tons CO ₂ annually.	Expected completion of wind farm construction: fall 2021
Renewable Energy Demonstration Projects	Approval and prize distribution completed for 5 projects.	Determine outcome of 1 additional project.
Energy Conservation	Since 2006, U-M has reduced energy use in general fund buildings by 17% while increasing building space by 2 million square feet.	Maintain Energy Management Program and explore innovation opportunities.

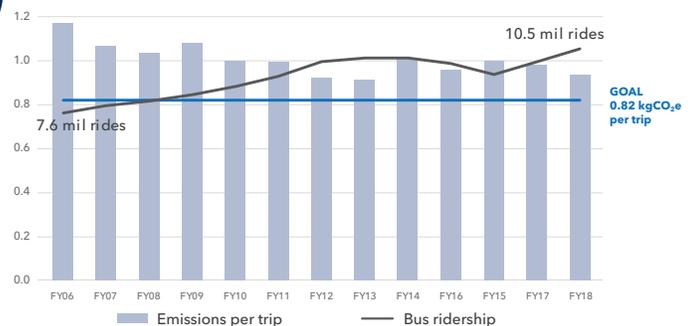
Fuel Efficiency: Decrease carbon intensity of passenger trips on U-M transportation options by 30%.

Status: 20% Reduction

Key Initiatives

- Began one-year pilot to assess Spin e-scooters as a mobility solution and gather data to inform transportation decisions.
- President's Commission on Carbon Neutrality is researching commuting and fleet electrification.
- Continue promoting vanpool, carpool, bus riding, and walking.

University of Michigan Passenger Trip Emissions
kg Carbon Dioxide Equivalent/trip



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Sustainability Goal Update

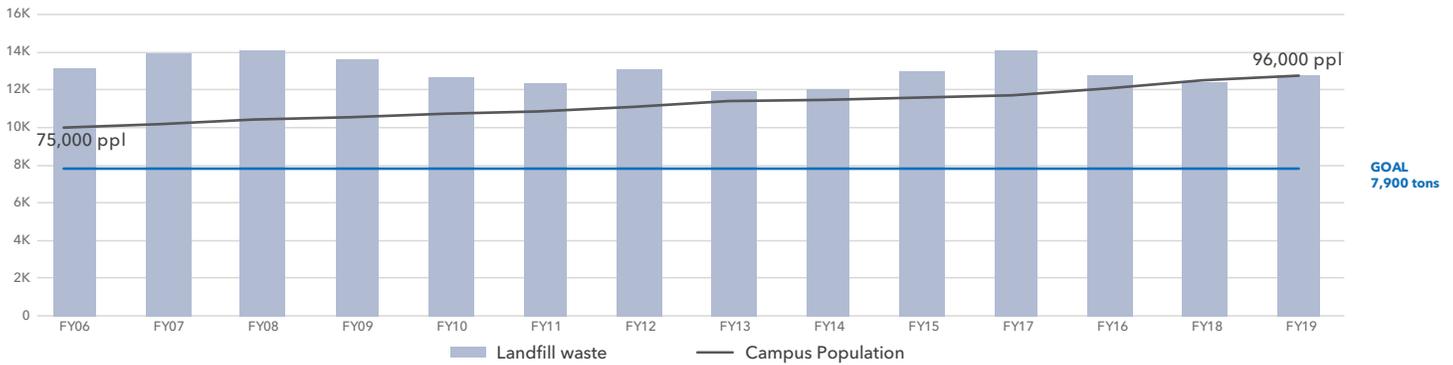
Waste Reduction

NOVEMBER 2019

Goal: Reduce the amount of waste sent to landfills 40% by 2025.

Status: 3% Reduction

University of Michigan Waste to Landfill (Tons)



		FY2016	FY2017	FY2018	FY2019
Tons to Recycling		4,500	5,200	5,900	5,600
Tons to Compost	Ann Arbor Compost	620	780	1,000	1,140
	Mulch	540	610	560	640
Tons to Landfill Goal 7,900		14,100	12,800	12,400	12,800
Total Diverted		29%	34%	38%	37%

Direction: Rapid expansion of composting is helping offset increased landfill waste, but continued growth mitigates significant overall waste reduction.

Key Initiatives

Composting

Service expansion

- Expanded compost service to over 40 new buildings, bringing the total to 105 buildings (up from 64 in FY18).
- Over 500 kitchens are composting—300% increase from FY18. All 22 on-campus cafes are composting.
- OCS and Student Life collaborated to make composting available in all residence halls in fall 2019.

Zero waste events

- OCS supported 478 individual staff events with approximately 76,000 attendees—173% increase over the previous year. Also directly supported 59 large student events on behalf of Student Sustainability Initiative.
- 94 departments and groups hosted zero waste events.

Michigan Medicine Waste Reduction

- Food prep waste from the patient kitchens and vendor-operated kitchens is now being composted.
- Vendor research to possibly expand single stream recycling on the Medical Center Campus is ongoing.
- Analyzed waste flow through Michigan Medicine's Ann Arbor locations to identify potential intervention points.

Bin Standardization

Completion expected by the end of CY19. Only 2 of 384 buildings remain.

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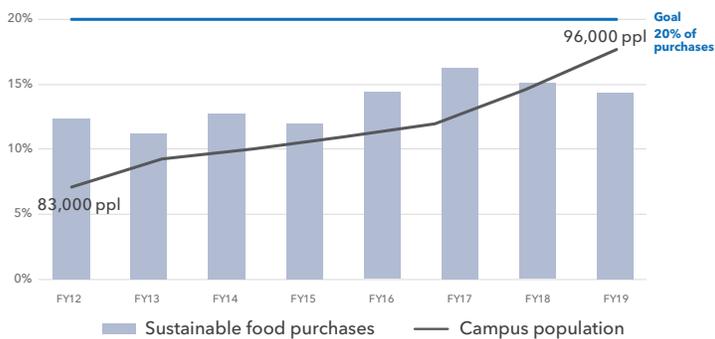
Healthy Environments

NOVEMBER 2019

Sustainable Food: Purchase 20% of U-M food from local and sustainable sources by 2025.

Status: 14% Purchased

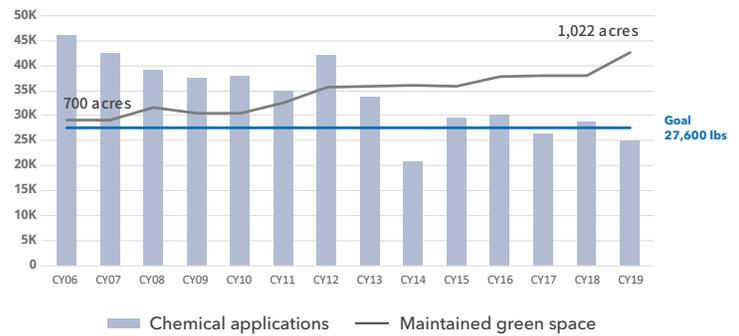
University of Michigan Sustainable Food Purchase
Percent of Total Food Spend



Protecting the Huron River: Protect the Huron River through stormwater control strategies and reduce chemical applications to campus landscapes by 40% by 2025.

Status: 46% Reduction

University of Michigan Chemical Applications
Pounds of Active Ingredient



Key Initiatives

Next Steps

MDining continues purchasing produce from local farmers directly and through a distributor. The Campus Farm is selling directly to campus locations.

To reduce carbon emissions, a FY20 focus will be on increasing plant-based foods and reducing meat consumption.

Key Initiatives

Next Steps

Continued to expand naturalized areas (prairies, woodlots, and lower maintenance areas) and pollinator habitat. Weather also contributed to exceeding goal in 2019 by enabling reduced herbicide use.

Grounds Services is piloting fully organic treatment on the Diag to assess feasibility of broadening this approach.



Sustainability Goal Update

Community Engagement

NOVEMBER 2019

Key Initiatives	Purpose	Key Accomplishments	Next Steps
Zero Waste at Michigan Stadium U-M Athletics, Office of Campus Sustainability	Raise awareness of waste reduction behavior by making football games zero waste.	Diverted 77.6 tons of waste from landfill (diversion rate of 81%) in the 2019 season. Launched new volunteer training program.	Continue process improvements and training to reduce contamination.
Planet Blue Student Leaders Student Life	Work with staff to implement sustainability projects, collaborate with student organizations and university departments, and engage their peers (on and off campus) in sustainability programming.	PBSL focused on peer-to-peer education through Planet Blue Ambassador training, holding sustainability events, and waste audits. Piloted off-campus housing donations to Salvation Army to reduce waste.	Support compost rollout to all residence halls. Scale off-campus surplus donations, including cookware recovery for Maize and Blue Cupboard. Focus on energy efficiency and the intersections of DEI and sustainability.
Planet Blue Student Innovation Fund Graham Sustainability Institute	Fund projects that promote long-term campus sustainability, while supporting student initiatives and learning.	Approved one project in FY19: Matthaei Botanical Gardens Living Wall. The living wall aims to use space creatively and promote vertical gardening techniques while demonstrating sustainable architecture that can reduce carbon emissions and purify the air.	Continue fostering sustainability awareness and learning. Encourage collaboration and communication between administration and students, and between student groups.
Sustainability Cultural Indicators Program (SCIP) Graham Sustainability Institute, Institute for Social Research	Measure and track the culture of sustainability at U-M. Survey results are shared with the campus community and used to inform campus sustainability programming, research, and teaching.	More than 25,000 students, faculty, and staff have responded since 2012 launch. SCIP is the leading sustainability cultural indicators survey, promoted as an exemplar by the Association for the Advancement of Sustainability in Higher Education and the Association of Academic Survey Research Organizations. 171 institutions in 30 countries have accessed SCIP materials to inform their own campus efforts.	SCIP questionnaires will be updated in 2020; carbon neutrality will be addressed. Funding supports one student survey (fall 2020 to support STARS certification) and one faculty/staff survey (fall 2021). This will allow for better comparisons with previous fall data collections.
Planet Blue Ambassadors Graham Sustainability Institute	Encourage all faculty, staff, and students to become engaged in sustainability on campus and lead by personal action. Ambassadors form a network to advance U-M's sustainability commitments and move toward a campus-wide ethic of sustainability.	Currently there are 5,600 certified Ambassadors. Participants have logged 43,500 actions estimated to reduce 9 million lbs of carbon dioxide, 600,000 lbs of waste, and 52 million gal of water. Updated online dashboard to incorporate actions related to well-being and DEI. Conducted student awareness survey.	Working with the Office of New Student Programs to incorporate sustainability into orientation. Increasing faculty engagement. Exploring the idea of a mini training or re-certification component. Moving the PBA webpages off the Planet Blue website.
U-M Sustainable Food Program	Student-led coalition that works across campus to support all of the sustainable food student group efforts. Started the Campus Farm as a flagship project. Hosts Harvest Fest and other events annually.	Successfully convened stakeholders and supported scaling up of Maize and Blue Cupboard from student group to institutionally supported program. Raised awareness of sustainable food issues through "Waste Dinner."	Continue fostering sustainability awareness and learning. Encourage collaboration and communication between administration and students, and between student groups.