

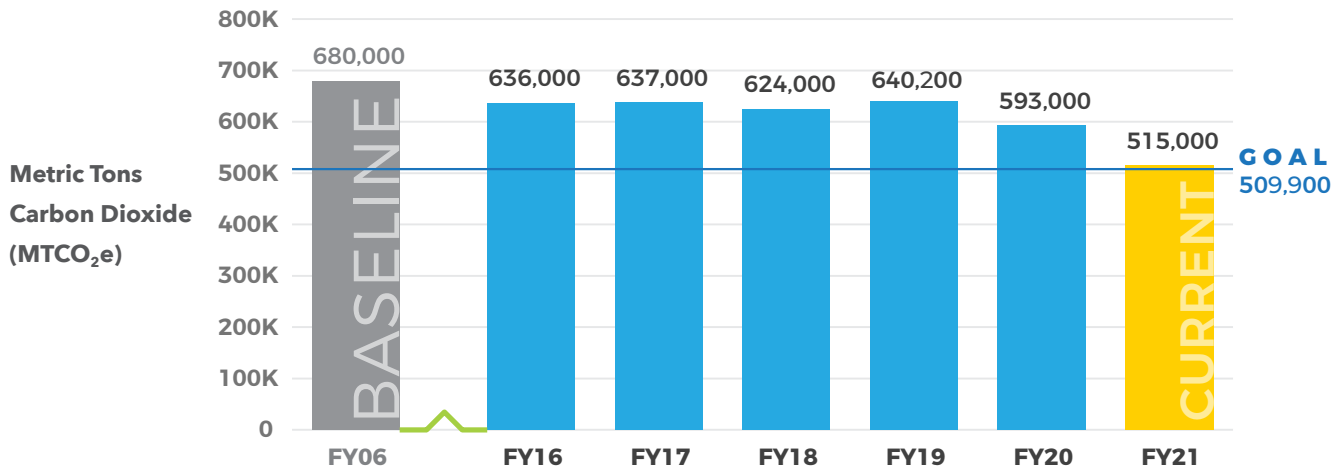


FY21 SUSTAINABILITY GOAL FACT SHEET

Climate Action: Greenhouse Gas Reduction

GOAL: REDUCE GREENHOUSE GAS EMISSIONS 25% BY 2025

STATUS: 24% REDUCTION



This chart represents emissions for the Ann Arbor campus, including auxiliary units.

COVID-19 IMPACT

Energy consumption in general fund buildings decreased 11.3% in FY21 compared to FY19. Occupancy levels decreased significantly across all building types. The operation of HVAC systems in laboratory buildings was unchanged during the pandemic regardless of building occupancy.

KEY INITIATIVES

- **Energy conservation:** Development and execution of energy conservation measures in general fund buildings slowed dramatically with the pandemic, but increased in FY22 as new projects were funded and launched.
- **Wind power purchase agreement:** Began sourcing energy from new DTE wind parks in spring 2021, reducing U-M's emissions by more than 100,000 metric tons of CO₂ annually.
- **Central Power Plant expansion:** A new highly-efficient turbine is expected to begin operation in early 2022, reducing emissions by approximately 400,000 metric tons of CO₂ within the first 10 years of operation

NEXT STEPS

U-M will soon achieve its 2025 greenhouse gas reduction goal, established in 2011. Concurrently, efforts toward U-M's recently unveiled carbon neutrality commitments are underway.

Highlights include:

- Launching a revolving energy fund for energy conservation projects starting with \$25 million over five years. An initial set of energy conservation projects, across all U-M campuses and auxiliary units, was funded in FY22.
- Launching a selection process to secure all purchased electricity (Scope 2 emissions) from renewable sources by 2025.
- Planning geothermal heating and cooling systems for the Leinweber Computer Science and Information Building.

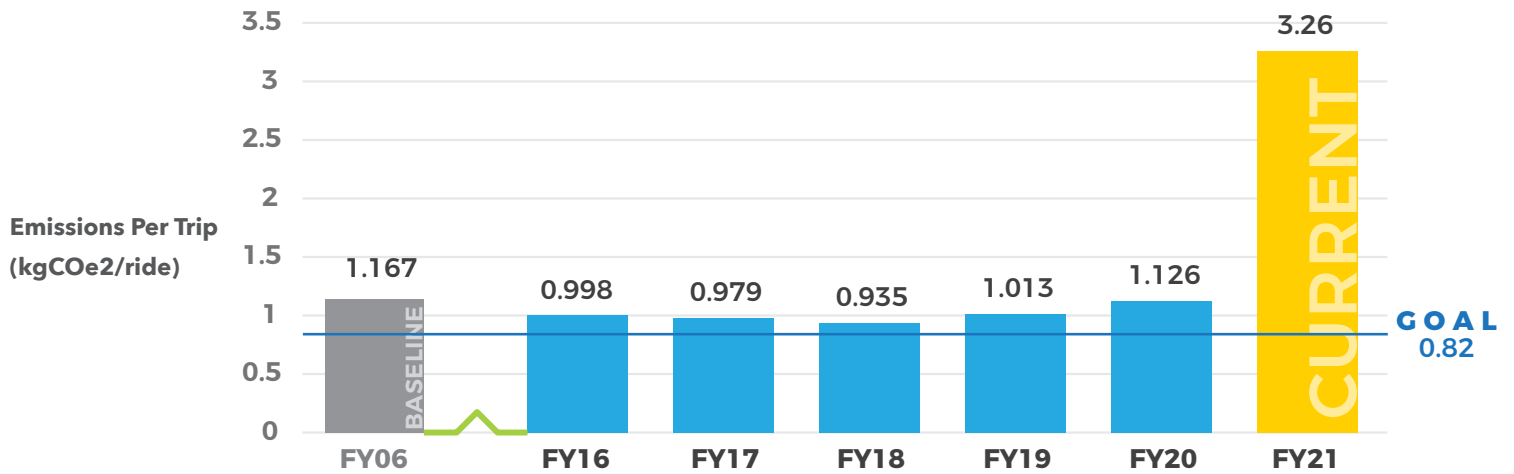


FY21 SUSTAINABILITY GOAL FACT SHEET

Climate Action: Fuel Efficiency

GOAL: DECREASE CARBON INTENSITY OF PASSENGER TRIPS ON U-M TRANSPORTATION OPTIONS BY 30% BY 2025.

STATUS: 0% REDUCTION



COVID-19 IMPACT

Goal is measured as vehicle carbon output per bus passenger trip. Ridership was down 75% from FY20 and buses ran with fewer passengers to promote social distancing, so goal progress was out of reach.

KEY INITIATIVES

- Purchased four electric buses to be delivered in 2022, as a step toward decarbonizing the U-M vehicle fleet.
- Expanded daily parking pass options to support remote work and reduced commuting.

NEXT STEPS

- Planning fleet and bus electrification to decarbonize the entire vehicle fleet by 2040.

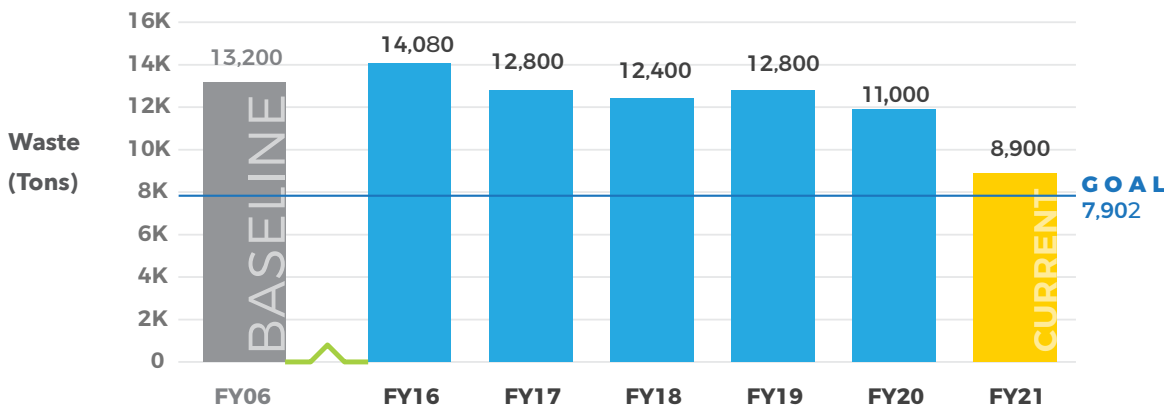


FY21 SUSTAINABILITY GOAL FACT SHEET

Waste Reduction

GOAL: REDUCE THE AMOUNT OF WASTE SENT TO LANDFILLS 40% BY 2025

STATUS: 32% REDUCTION



DIVERSION RATE

WASTE DIVERTED FROM LANDFILL BY COMPOSTING AND RECYCLING

42%

COVID-19 IMPACT

Overall waste decreased, as expected. The diversion rate stayed roughly the same despite expectations that the proportion of landfill waste would increase. COVID-related waste was less than expected and those who remained on campus continued to prioritize recycling and composting.

At University of Michigan Health, a trend toward single-use devices due to increased infection concerns has been detrimental to waste reduction goals.

KEY INITIATIVES

Office of Campus Sustainability

- Launched "Adopt a Compost Bin" pilots to expand public-facing compost bins.
- With Athletics and other campus partners, improved zero waste efforts at football games.
- Implemented measures to reduce contamination at zero waste events.

University of Michigan Health

- Won Environmental Excellence Award from Practice Greenhealth (international organization recognized as a leader in health care sustainability).
- Composted more than ever before (124 tons) in first full year of collecting post-consumer compost (leftover food from patient trays).

NEXT STEPS

Office of Campus Sustainability

- Run a compost awareness campaign to encourage more use of existing infrastructure and decrease contamination.
- Hold focus groups to engage students in fine-tuning compost program.
- Conduct waste sorts for three major building types to inform future priorities.
- Enhance opportunities to reduce waste through purchasing.

University of Michigan Health

- Begin a unique medical plastics recycling pilot in FY22 and explore a long-term solution for expansion of medical plastics recycling.
- Pilot reusable sharps containers and transitioning away from foam drinking cups on patient floors.



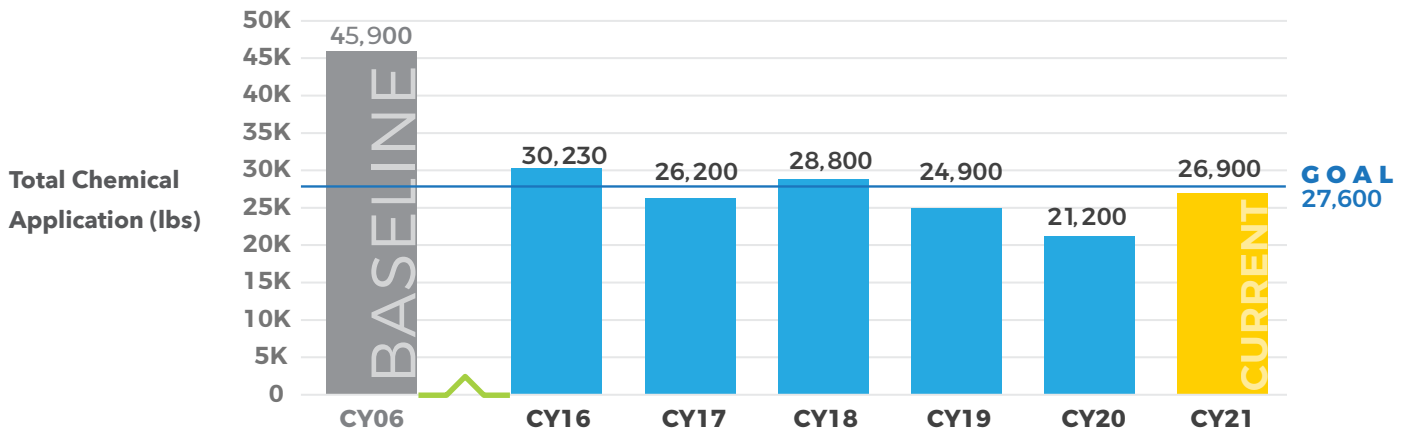
FY21 SUSTAINABILITY GOAL FACT SHEET

Healthy Environments

PROTECTING THE HURON RIVER

GOAL: PROTECT THE HURON RIVER THROUGH STORMWATER CONTROL STRATEGIES AND REDUCE CHEMICAL APPLICATIONS TO CAMPUS LANDSCAPES BY 40% BY 2025

STATUS: 41% REDUCTION



COVID-19 IMPACT

Additional fertilizer and chemical applications were necessary to help the grounds rebound after unusually low applications in 2020 due to COVID priorities and staffing issues, yet the goal was met.

NEXT STEPS

Continue piloting alternative methods of maintaining grounds, including shifting to more environmentally friendly materials and techniques.

SUSTAINABLE FOOD

A workstream associated with U-M's central carbon neutrality efforts has convened to develop a road map for U-M's approach to sustainable food purchases. The 2025 goal measures local food, whereas the future goal (to be established by 2025) will be based on carbon footprint.

While this work progresses, U-M has discontinued the current time-intensive tracking process to dedicate more time and resources to establish new targets and accounting methodologies.

EVOLUTION OF GOAL TRACKING

2025 GOAL

LOCAL FOOD PURCHASING

FUTURE CARBON NEUTRALITY SCOPE 3 GOALS

CARBON FOOTPRINT OF FOOD

Although annual metrics will not be added to this goal for the next couple of years, U-M's commitment to purchasing sustainable food remains strong. All of the systems in place to attain the current goal will continue for the foreseeable future.



FY21 SUSTAINABILITY GOAL FACT SHEET

Community Engagement

	Purpose	Key Initiatives	Next Steps
Planet Blue Ambassadors	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.	<ul style="list-style-type: none"> • Currently there are 7,600 certified Ambassadors. • Began the work of expanding the program to Flint and Dearborn. 	<ul style="list-style-type: none"> • Communicate to U-M community members about campus sustainability and carbon neutrality efforts and ways to engage. • Set up the structures to allow for PBA programming on all three campuses.
Student Sustainability Coalition	Promote a sustainable campus culture by bringing people together to achieve social change. SSC uses the Collective Impact Framework to create a mutually defined common agenda and shared vision that unifies campus-wide student sustainability efforts.	<ul style="list-style-type: none"> • Drafted a common agenda for student sustainability efforts at U-M. • Hosted two listening sessions to collect feedback on the PCCN final report. • Awarded \$43,000 to three Planet Blue Student Innovation Fund projects: sustainable period products, direct air carbon capture, and energy generating workout machines. 	<ul style="list-style-type: none"> • Pilot a student sustainability summit as a way to build connections and encourage collaboration between student groups. • Continue to promote U-M sustainability programs and resources to students.
Planet Blue Student Leaders	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.	<ul style="list-style-type: none"> • Engaged peers in year-long behavior change campaigns related to energy, water, waste, and off-campus housing. • Produced a podcast, blog posts, and other forms of creative multimedia storytelling. • Supported the work of campus sustainability partners. 	<ul style="list-style-type: none"> • Grow network of collaborators and participants. • Develop peer-to-peer behavior change initiatives on compost contamination, reduction, sustainable apparel sourcing, laundry conservation habits, and increasing the shelf-life of perishable foods.
U-M Sustainable Food Program	Organize and amplify student voices calling for a more just and sustainable food system. Collaborate with food, environmental, and social justice-oriented groups across campus. Consists of a paid student leadership team and a network of affiliated student organizations and individual collaborators.	<ul style="list-style-type: none"> • Launched on-campus Farm Stand in collaboration with the Campus Farm, serving nearly 800 unique customers in fall 2021. • Annual HarvestFest celebration in September 2021 had 800+ attendees. • Mini-grants for student organizations doing food justice projects. • Host annual Rooting For Change: Student Food Justice Summit. 	<ul style="list-style-type: none"> • Continue to build out Farm Stand operations and learning opportunities. • Expand number of student participants in working groups. • Build out opportunities for experiential learning and dialogue for U-M students focused on food justice and DEI.
Sustainability Cultural Indicators Program (SCIP)	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.	<ul style="list-style-type: none"> • Consulted with various stakeholders to update the survey to include Flint and Dearborn, address carbon neutrality, and adjust food and travel questions. 	<ul style="list-style-type: none"> • Analyze and report data collected in late fall 2021.
Earthfest	Celebrate sustainability initiatives across U-M and the surrounding communities, while providing an inclusive platform to educate and engage the campus community on opportunities to support sustainability on campus and in our daily lives.	<ul style="list-style-type: none"> • Returned to the Diag for an in-person event with highly engaged attendees. • Added "Earthfest+" events hosted by partner organizations to promote interactive, hands-on opportunities. 	<ul style="list-style-type: none"> • Continue adapting Earthfest to university's sustainability priorities. • Build upon past efforts to diversify planning committee.
Zero Waste Stadium	Reduce waste and build a culture of sustainability by making football games zero waste.	<ul style="list-style-type: none"> • Diverted 60.75 tons of waste from the landfill, with a 73% diversion rate. • Implemented a post-game compost sorting process. • Piloted special signage to further educate fans on how to properly dispose of waste. 	<ul style="list-style-type: none"> • Continue zero waste collection process improvements. • Continue staff and volunteer training program. • Implement new signage and zero waste messaging in the 2022 season.