



The **Sustainability Tracking, Assessment & Rating System™** (STARS) is a transparent, self-reporting framework for colleges and universities to measure their sustainability performance.

Reporting Tool

Overall Rating	Expired
Overall Score	Expired
Liaison	Andrew Horning
Submission Date	June 30, 2015
Executive Letter	<a href="#">Download</a>

STARS v2.0

INSTITUTIONAL CHARACTERISTICS
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IC-1: Institutional Boundary
IC-2: Operational Characteristics
IC-3: Academics and Demographics
ACADEMICS
CURRICULUM
AC-1: Academic Courses
AC-2: Learning Outcomes
AC-3: Undergraduate Program
AC-4: Graduate Program
AC-5: Immersive Experience
AC-6: Sustainability Literacy Assessment
AC-7: Incentives for Developing Courses
AC-8: Campus as a Living Laboratory
RESEARCH
AC-9: Academic Research
AC-10: Support for Research
AC-11: Access to Research
ENGAGEMENT
CAMPUS ENGAGEMENT
EN-1: Student Educators Program
EN-2: Student Orientation
EN-3: Student Life
EN-4: Outreach Materials and Publications
EN-5: Outreach Campaign
EN-6: Employee Educators Program
EN-7: Employee Orientation
EN-8: Staff Professional Development

# University of Michigan

## OP-1: Greenhouse Gas Emissions

Status	Score	Responsible Party
✓	Expired	<b>Kenneth Keeler</b> Senior Sustainability Rep Office of Campus Sustainability

"---" indicates that no data was submitted for this field

Does the institution's GHG emissions inventory include all Scope 1 and Scope 2 GHG emissions?:

Yes

Does the institution's GHG emissions inventory include all Scope 3 GHG emissions from any of the following categories?:

	Yes or No
Business travel	No
Commuting	No
Purchased goods and services	No
Capital goods	No
Fuel- and energy-related activities not included in Scope 1 or Scope 2	No
Waste generated in operations	No

Does the institution's GHG emissions inventory include Scope 3 emissions from other categories?:

No

A brief description of the methodology and/or tool used to complete the GHG emissions inventory:

In house Annual Environmental Reporting tool used to calculate GHG emissions based upon energy purchases.

Has the GHG emissions inventory been validated internally by personnel who are independent of the GHG accounting and reporting process and/or verified by an independent, external third party?:

## PUBLIC ENGAGEMENT

- EN-9: Community Partnerships
- EN-10: Inter-Campus Collaboration
- EN-11: Continuing Education
- EN-12: Community Service
- EN-13: Community Stakeholder Engagement
- EN-14: Participation in Public Policy
- EN-15: Trademark Licensing
- EN-16: Hospital Network

## OPERATIONS

### AIR & CLIMATE

- OP-1: Greenhouse Gas Emissions
- OP-2: Outdoor Air Quality

### BUILDINGS

- OP-3: Building Operations and Maintenance
- OP-4: Building Design and Construction
- OP-5: Indoor Air Quality

### DINING SERVICES

- OP-6: Food and Beverage Purchasing
- OP-7: Low Impact Dining

### ENERGY

- OP-8: Building Energy Consumption
- OP-9: Clean and Renewable Energy

### GROUNDS

- OP-10: Landscape Management
- OP-11: Biodiversity

### PURCHASING

- OP-12: Electronics Purchasing
- OP-13: Cleaning Products Purchasing
- OP-14: Office Paper Purchasing
- OP-15: Inclusive and Local Purchasing
- OP-16: Life Cycle Cost Analysis
- OP-17: Guidelines for Business Partners

### TRANSPORTATION

- OP-18: Campus Fleet
- OP-19: Student Commute Modal Split
- OP-20: Employee Commute Modal Split
- OP-21: Support for Sustainable Transportation

### WASTE

- OP-22: Waste Minimization
- OP-23: Waste Diversion
- OP-24: Construction and Demolition Waste Diversion
- OP-25: Hazardous Waste

Yes

A brief description of the internal and/or external verification process:

Verified in house via peer review process.

Scope 1 and Scope 2 GHG emissions::

	Performance Year	Baseline Year
Scope 1 GHG emissions from stationary combustion	317,015 <i>Metric Tons of CO2 Equivalent</i>	282,702 <i>Metric Tons of CO2 Equivalent</i>
Scope 1 GHG emissions from other sources	7,967 <i>Metric Tons of CO2 Equivalent</i>	7,461 <i>Metric Tons of CO2 Equivalent</i>
Scope 2 GHG emissions from purchased electricity	382,442 <i>Metric Tons of CO2 Equivalent</i>	329,705 <i>Metric Tons of CO2 Equivalent</i>
Scope 2 GHG emissions from other sources	0 <i>Metric Tons of CO2 Equivalent</i>	0 <i>Metric Tons of CO2 Equivalent</i>

Figures needed to determine total carbon offsets::

	Performance Year	Baseline Year
Institution-catalyzed carbon offsets generated	0 <i>Metric Tons of CO2 Equivalent</i>	0 <i>Metric Tons of CO2 Equivalent</i>
Carbon sequestration due to land that the institution manages specifically for sequestration	0 <i>Metric Tons of CO2 Equivalent</i>	0 <i>Metric Tons of CO2 Equivalent</i>
Carbon storage from on-site composting	0 <i>Metric Tons of CO2 Equivalent</i>	0 <i>Metric Tons of CO2 Equivalent</i>
Third-party verified carbon offsets purchased	7,444 <i>Metric Tons of CO2 Equivalent</i>	0 <i>Metric Tons of CO2 Equivalent</i>

A brief description of the institution-catalyzed carbon offsets program:

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A brief description of the carbon sequestration program and reporting protocol used:

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A brief description of the composting and carbon storage program:

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A brief description of the purchased carbon offsets, including third party verifier(s) and contract timeframes:

University of Michigan purchases renewable energy credits through DTE Energy's Green Currents program from wind energy created by two wind turbines located in northern Michigan.

Figures needed to determine "Weighted Campus Users":

	Performance Year	Baseline Year
Number of residential students	10,585	11,256

Management
WATER
OP-26: Water Use
OP-27: Rainwater Management
OP-28: Wastewater Management
PLANNING & ADMINISTRATION
COORDINATION, PLANNING & GOVERNANCE
PA-1: Sustainability Coordination
PA-2: Sustainability Planning
PA-3: Governance
DIVERSITY & AFFORDABILITY
PA-4: Diversity and Equity Coordination
PA-5: Assessing Diversity and Equity
PA-6: Support for Underrepresented Groups
PA-7: Support for Future Faculty Diversity
PA-8: Affordability and Access
HEALTH, WELLBEING & WORK
PA-9: Employee Compensation
PA-10: Assessing Employee Satisfaction
PA-11: Wellness Program
PA-12: Workplace Health and Safety
INVESTMENT
PA-13: Committee on Investor Responsibility
PA-14: Sustainable Investment
PA-15: Investment Disclosure
INNOVATION
INNOVATION
IN-1: Innovation 1
IN-2: Innovation 2
IN-3: Innovation 3
IN-4: Innovation 4

Number of residential employees	0	0
Number of in-patient hospital beds	Performance Year 990	Baseline Year 990
Full-time equivalent enrollment	43,710	39,993
Full-time equivalent of employees	42,277	35,137
Full-time equivalent of distance education students	753	500

Start and end dates of the performance year and baseline year (or three-year periods):

	Start Date	End Date
Performance Year	July 1, 2013	June 30, 2014
Baseline Year	July 1, 2005	June 30, 2006

A brief description of when and why the GHG emissions baseline was adopted:

An FY2006 baseline was adopted in order to coincide with the university’s sustainability goals.

Gross floor area of building space, performance year:

35,472,141 *Square Feet*

Floor area of energy intensive building space, performance year:

	Floor Area
Laboratory space	2,898,602 <i>Square Feet</i>
Healthcare space	1,771,627 <i>Square Feet</i>
Other energy intensive space	574,779 <i>Square Feet</i>

Scope 3 GHG emissions, performance year::

	Emissions
Business travel	---
Commuting	---
Purchased goods and services	---
Capital goods	---
Fuel- and energy-related activities not included in Scope 1 or Scope 2	---
Waste generated in operations	---
Other categories (please specify below)	---

A brief description of the sources included in Scope 3 GHG emissions from "other categories":

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A copy of the most recent GHG emissions inventory:

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The website URL where the GHG emissions inventory is posted:

<http://ocs.umich.edu/14AERawdata.html>

A brief description of the institution's GHG emissions reduction initiatives, including efforts made during the previous three years:

University of Michigan has a GHG reduction goal of 25% by 2025. Current initiatives include energy reduction efforts such as the Planet Blue Energy Management teams who are responsible for identifying and implementing energy conservation measures across campus, as well as community awareness programs such as the Sustainable Office and Sustainable Laboratory programs that meet face to face with university faculty and staff to help develop sustainable behaviors. Recently, a team of faculty, staff, and students has been formed to review GHG reduction efforts, and propose a list of recommendations to University leadership.

The information presented here is self-reported. While AASHE [staff](#) review portions of all STARS reports and institutions are welcome to seek additional forms of review, the data in STARS reports are not verified by AASHE. If you believe any of this information is erroneous or inconsistent with credit criteria, please review the [process for inquiring](#) about the information reported by an institution and complete the [Data Inquiry Form](#).



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