2021 Town Gown Report

to the City of Cambridge

February 1, 2022
Glen Shor

Executive Vice President and Treasurer
Housing

New Vassar Residence Hall
Academic Projects

Joe Higgins

Vice President for Campus Services and Stewardship
Vassar Street Corridor

Metropolitan Warehouse Renovation

Stephen A Schwarzman College of Computing

Fort Washington Crossing at West Campus Graduate Dormitory

Grand Junction Community Path

Vassar Street Tree Renewal & Extension

Pacific Street Crossing at Vassar Street Residence Hall

Albany Street Crossing at Upgraded Central Utilities Plant
Wayfinding

Phase 1: Beacon installation at Kendall Square
Capital Renewal

Zesiger Sports and Fitness Center Pool Renewal

Building 7 dome restoration

Albany Garage
Project Highlights

Hayden Library and Courtyard

Music Building

Earth and Environment Building
Commercial Projects

Michael Owu
Managing Director, Real Estate
Kendall Square

314 Main St.  
Fall 2020

238 Main St.  
Fall 2021

165 Main St.  
Spring 2022

200 Main St.  
Fall 2025

Photo: Albert Vecerka, Esto  
Rendering: Elkus Manfredi Architects
New DOT Volpe Facility & 730-750 Main Street
Volpe Redevelopment
Sustainability

Julie Newman

Director of Sustainability
The ‘super wicked problem’ of climate change is our Earthshot

We must find affordable, equitable ways to bring every aspect of the global economy to net-zero carbon no later than 2050.

By L. Rafael Reif

Updated April 19, 2021, 3:00 a.m.
MIT unveils a new action plan to tackle the climate crisis
The Institute commits to net-zero emissions by 2026, charts course marshaling all of MIT’s capabilities toward decarbonization.

David L. Chandler | MIT News Office
May 12, 2021

MIT has committed to net-zero emissions by 2026, and charts a course marshaling all of MIT’s capabilities toward decarbonization.

Image: Christopher Haring
Meeting the World’s Climate Challenge

To achieve net-zero direct carbon emissions by 2050 + adapt to effects we can’t prevent:

• **GO AS FAR AS WE CAN, AS FAST AS WE CAN**, with the tools we have now. Tools include science and technology, policy, markets, infrastructure, and behavioral and cultural changes.

• **INVEST IN, INVENT, AND DEVELOP** the suite of new tools, including science and technology breakthroughs and new institutions and policies needed to deploy them rapidly, wisely and equitably.

• **EDUCATE AND EMPOWER THE NEXT GENERATION**, those who are inheriting this problem and will be the people who must ultimately solve it.
Reducing MIT’s Climate Impact: 14 Commitments

Mitigation & Resiliency
1. Building Energy Efficiency
2. Resiliency & Adaptation
3. Rooftop Solar
4. Net-Zero 2026 PPA
5. AI to Reduce Energy
6. Carbon Offset Program for business travel

EV Infrastructure
7. Zero Emissions Fleet
8. EV Charging
9. Zero Emission Shuttle Buses

Greenhouse Gas Portfolio Expansion
10. Scope 3 Emissions
11. Add in Off-Campus Emissions FY23

Climate Leadership
13. DLC Climate & Sustainability Plans FY23
14. Carbon Footprint Working Group 2050

*Fast Forward: MIT’s Climate Action Plan for the Decade (published 2021)
Net-zero by 2026

- **2014 Baseline**: 213,428 MTCO2e
- **2021 Baseline**: 191,292 MTCO2e
- **Near Term Offset Program**
- **Net-Zero Goal**: 2026

**Current Status**
- 21% below baseline GHG emissions

**Key Strategies**
- **Campus Growth** with efficient design
- **Central Utilities** enhancements
- **Efficiency Gains** from buildings, fuel switching, greener grid
- **Large-scale Offsite Renewables**
- **On Site Solar**

**Near Term**

**Where We Are Currently**
21% Below Baseline GHG Emissions
A Goal of Eliminating Direct Emissions by 2050

...recognizing that making this happen will depend on significant advances in carbon-reducing technologies and a decarbonized electrical grid in New England.

To advance toward this goal, we are taking steps now:
- A new carbon footprint working group to begin developing a roadmap to decarbonization
- Deep energy reduction in existing buildings
- Leading-edge design in new buildings and renovations
- Converting campus distribution systems
- On-campus renewable energy
- Electrification of transportation
- Electrification of buildings
- AI-enabled energy systems
- Behavior change
- Scenario planning for breakthrough technologies
Deep Energy Retrofits
Buildings 46, 76, 68, 32, E25, E14

Reduce MIT emissions by 10-15%
Solar on Roofs

Increase renewable energy installations (primarily solar) on campus by a minimum of 400% by 2026 (from 100kw to 500kw)

Reduce MIT emissions by ~2-3%
Electric Vehicle Infrastructure

• Initiate the conversion of campus shuttle bus vehicles to zero-emission buses by 2026.
• Increase campus car-charging stations by a minimum of 200% (from 120 to 360) by 2026.
• All future MIT fleet purchases of light-duty vehicles will be zero emission, subject only to availability.
Modeling Shared Data: Campus + City
Net-zero Alignment

MIT: Net-Zero by 2026/2050

Cambridge/Boston: Net-Zero by 2050

Massachusetts: Net-Zero by 2050

Net-Zero by 2050

YOU
Community Support

Sarah Gallop
Co-Director, Office of Government & Community Relations
FO: Clifford Cook, Data Manager
Cambridge Community Development Department

FROM: Sarah Gilling, Office of Government and Community Relations

DATE: May 29, 1999

Subject: Town Gown Report for 1997

On behalf of MIT, I am pleased to transmit to the City of Cambridge the attached Town Gown Report for 1997. If you have any questions about the contents of this submission, please contact me at 253 0002.

Thank you.

Quarter Century of Town Gown Submissions

Housing
Sustainability
Building activity
Transportation
City collaboration
Notable milestones
Diversity, Equity, and Inclusion
On Campus and in the Community

Strategic Action Plan for Diversity, Equity, and Inclusion

Volpe Equity and Inclusion Workshops

Inclusion Drives Innovation

Small and Diverse Business Program
Open Space Programming

- Programs and events
- Collaborations and community partners
- ‘A Community Reflects’ public art
- Future programs
MIT and Cambridge Public Schools

- Selected current initiatives:
  - City of Cambridge Global Local Challenge
  - MIT Impact Scholarships
  - Scanning Electron Microscope Explorations with CPS
  - Charles River Floating Wetlands Educational Kits
  - Pathways to Invention
  - Community collaborators
The Job Connector by MIT

- Virtual and in-person programming
- My Brother’s Keeper partnership
  - Career Pathways
  - Summer Youth Empowerment Program
- 2020-2021 Workshops
  - Prepare for it Now
  - Career Readiness
  - Introduction to Construction and the Building Trades
Thank you!