Supporting Academic Programs and Research
Housing Harvard’s Affiliates
Planning & Development Priorities

Promoting Campus-wide Sustainability
Improving Campus Infrastructure
Current Projects in Cambridge

- Recently Completed
- In Construction
- In Planning
Dunster House – *House Renewal*

Harvard College
Dunster House – *House Renewal*

Comprehensive renewal of undergraduate House · *KieranTimberlake*
Dunster House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House • KieranTimberlake
Dunster House – *House Renewal*

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Dunster House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House • KieranTimberlake
Dunster House – House Renewal

Comprehensive renewal of undergraduate House · KieranTimberlake
Winthrop House – *House Renewal*

Harvard College
Winthrop House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House · Beyer Blinder Belle
Winthrop House – *House Renewal*

Comprehensive renewal of undergraduate House · *Beyer Blinder Belle*
Winthrop House – *House Renewal*

Harvard College

Comprehensive renewal of undergraduate House · *Beyer Blinder Belle*
Winthrop House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House · Beyer Blinder Belle
Winthrop House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House · Beyer Blinder Belle
Lowell House – House Renewal

Comprehensive renewal of undergraduate House • Kieran Timberlake
Smith Campus Center Facade Restoration

Harvard Campus Services

Building facade restoration · Bruner/Cott
Smith Campus Center

Harvard Campus Services

Creation of a campus center · Hopkins Architects
Creation of a campus center · Hopkins Architects
Smith Campus Center

Harvard Campus Services

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Creation of a campus center · Hopkins Architects
Smith Campus Center

Harvard Campus Services

Creation of a campus center · Hopkins Architects
Harvard Campus Services

Creation of a campus center · Hopkins Architects
Construction of new academic space · Robert A.M. Stern Architects
Campus Development

Harvard Kennedy School

Construction of new academic space · Robert A.M. Stern Architects
Construction of new academic space · Robert A.M. Stern Architects
Longfellow Hall

Harvard Graduate School of Education

Partial renovation and addition · Baker Design Group
9 Ash Street

Harvard Graduate School of Design
9 Ash Street

Harvard Graduate School of Design

Recently Completed

Restoration of historic house • Thomas Pfifer and Partners
Allston Campus

Projects in Planning

- Recently Completed
- In Construction
- In Planning

- Bright-Landry Hockey Center
- Harvard Stadium
- Ruth Mulan Chu Chao Center
- Klarman Hall
- Charlesview
- Continuum
- Science and Engineering Complex
- Greenway

HARVARD UNIVERSITY

2015 Town Gown Report | City of Cambridge | Planning Board Presentation | February 2016
Harvard programs are available in every public school in Cambridge.

Each year, students from Cambridge Public Schools take part in:

- approximately 100 mentoring and enrichment programs,
- visit the University’s museums, or
- learn from Harvard educators
Curriculum-based initiatives engaging every student at various grade levels

Grade 4: Science curriculum at Harvard Museum of Natural History

Grade 5: History curriculum at Harvard Peabody Museum of Archaeology & Ethnology

Grade 6: Science curriculum - Harvard Graduate School of Education’s EcoMUVE program

Grade 7: Project Teach to develop a college-going identity for students by working with teachers, students, and families

Grade 8: Harvard John A. Paulson School of Engineering and Applied Sciences’ Annual Science & Engineering showcase
Highlights of Harvard-CRLS Programs

Cambridge Harvard Summer Academy (CHSA)
Created to address the achievement & opportunity gaps, CHSA offers students remedial and enrichment classes and serves as CPS’ summer school program. CHSA opened its doors during the summer of 2001. To date, program has served approximately 4,500 students.

Crimson Summer Academy (CSA)
Since 2004, CSA has been an academically rigorous enrichment program designed to offer economically challenged students tools to prepare and excel in college. To date, 65 students from Cambridge have graduated from CSA and 100% have matriculated to a four-year college.

Harvard Program Incorporated into CPS Science Curriculum
All Cambridge Rindge and Latin School (CRLS) Biology teachers use the Harvard Museum Natural History program on evolution as part of the CRLS science curriculum.

Extension School Scholarships
In the past five years, 115 CRLS students have received scholarships to enroll at the Harvard Extension School to take advanced courses not offered at CRLS.

Marine Biology Internship
Through a partnership co-developed by CRLS teacher Paul McGuinness, Harvard supplements the school’s Marine Biology course by training, mentoring and placing CRLS students in Harvard labs for research opportunities with Harvard Professor Peter Girguis.
Leveraging the power of interdisciplinary knowledge to create powerful solutions across the globe.

...in the lab

...in the classroom

...on our campus
• Launch Harvard Global Institute, $3.75M grant to China climate project.

• First round of 7 multidisciplinary research projects funded by through $12M Climate Change Solutions Fund.

• Planetary Health Alliance led by T.H. Chan faculty and supported by the Rockefeller Foundation and Wildlife Conservation Society.

• Harvard Project on Climate Agreements team participates in Paris COP21 conference.
• T.H. Chan School of Public Health and Harvard Medical School sign White House pledge to teach nexus of climate and health.

• Secondary Field of Energy and Environment.

• Over a dozen climate and energy focused initiatives or centers across Harvard’s 12 Schools.
Holistic Sustainability Plan

“The Plan... recognizes our shared responsibility to build and operate a campus that contributes to the well-being of every member of our community.”

– President Drew Faust
Reducing Our Footprint: 4 Goals

**GREENHOUSE GAS EMISSIONS**
- **OUR GOAL**: 30% reduction by 2016
- **OUR PROGRESS**: 21% reduction as of FY 2014

**WASTE PER CAPITA**
- **OUR GOAL**: 50% reduction by 2020
- **OUR PROGRESS**: 27% reduction as of FY 2014

**WATER USE**
- **OUR GOAL**: 30% reduction by 2020
- **OUR PROGRESS**: 21% reduction as of FY 2014

**LANDSCAPING**
- **OUR GOAL**: 75% organic by 2020
- **IN PROGRESS**: Establishing the baseline
Climate Leadership: Science-based Goal Since 2008

- **Based on science** – Includes all Kyoto gases, ambitious target based on what science says is necessary.

- **Absolute goal** (net of growth) – 3 million square feet of growth since FY2006.

- **Leading with “all-inclusive” boundary** – Includes all properties within operational control in North America.

- **Aggressive short-term target** – Set to spur immediate action.

- **Long-term commitment** – Fostering continual improvement toward carbon neutrality.
Cleaner Energy Supply

Expansive improvements to central utilities, including fuel switching and co-generation, have reduced emissions by over 32,000 MTCDE = annual electricity use of 4,402 homes
Renewable Energy Investment

- One of first large-scale PPAs – 12MW wind power in Maine.
- 1MW+ of solar installed to date.
- Solar thermal, geothermal, and cogeneration systems.
- University-wide renewable energy study.
Standards Drive University-wide Alignment

Buildings and Resilience

- **GREEN BUILDING STANDARDS** (2009+)
- **CLIMATE PREPAREDNESS STANDARDS** (2016)
- **UNIVERSITY-WIDE CLIMATE PREPAREDNESS PLAN** (2020)

Best-in-class Sustainable Operations

- **GREEN IT STANDARDS** (2017)
- **ENVIRONMENTALLY PREFERRED PRODUCTS PLAN** (2018)
- **GREEN CLEANING STANDARDS** (2020)
- **SUSTAINABLE LANDSCAPING STANDARDS** (2020)

Enhancing Well-Being

- **SUSTAINABLE AND HEALTHFUL FOOD STANDARDS** (2020)
“The certification of Harvard’s 100th LEED building is very impressive and meaningful,” said Rick Fedrizzi, CEO and founder of USGBC. “As a pre-eminent leader in higher education, research, and the development of the leaders of tomorrow, Harvard is a proving ground for new ideas. The fact that the institution pursues and embraces LEED demonstrates their commitment to sustainability in all of their endeavors.”
Partnering With Faculty to Enhance Well-Being

- Healthy products disclosure required in Green Building Standards.
- Harvard becomes first University to sign flame retardant-free furniture pledge, acting on research and regulatory shift.
- Sustainable and Healthful Food Standards (in progress).
Preparedness and Resiliency

2016 CLIMATE PREPAREDNESS STANDARDS

2020 UNIVERSITY-WIDE CLIMATE PREPAREDNESS PLAN

Source: Cambridge Vulnerability Assessment
• Integrating campus challenges into the classroom (CS50, SEAS, ES96, etc…).

• Partnering with faculty and students in using campus for active research projects.

• Student grants providing seed funding for innovative ideas.

• Experiential learning opportunities engage students in real-world challenges.
Amplify Impact by Collaborating on Shared Solutions

- Co-Chair Cambridge Compact for a Sustainable Future
- Co-Chair International Sustainable Campus Network working group (affiliated with WEF Davos).

Project examples:
- Renewable energy purchasing
- Climate preparedness modeling
- MA Green High Performance Computing Center
Resources for Additional Information

PLANNING
Harvard Planning & Project Management
www.hppm.harvard.edu
Construction Mitigation
www.construction.harvard.edu

HARVARD IN THE COMMUNITY
www.community.harvard.edu

SUSTAINABILITY
Office for Sustainability
www.green.harvard.edu
Harvard University Sustainability Plan
www.green.harvard.edu/commitment/our-plan