Grays Hall — Renovation

Faculty of Arts and Sciences

Recently Completed

Grays Hall

Interior renovation and new accessible entrance | Kennedy & Violich Architecture
Memorial Church – Renovation

Building system upgrades, renovation of space, and accessibility improvements | Payette
Building system upgrades, renovation of space, and accessibility improvements | Payette
Massachusetts Hall – Renovation

Exterior restoration, HVAC and building systems upgrades | Baker/Wohl Architects
Robinson Hall — Renovation

Faculty of Arts and Sciences

Improve accessibility and life safety systems | Symmes Maini & McKee Associates
Recently Completed

Faculty of Arts and Sciences

Cabot Science Library – Renovation

Creation of collaborative learning environment | Mack Scogin and Merrill Elam
Faculty of Arts and Sciences

Cabot Science Library – Renovation

Recently Completed

Creation of collaborative learning environment | Mack Scogin and Merrill Elam
Faculty of Arts and Sciences

Creation of collaborative learning environment | Mack Scogin and Merrill Elam
Renew building systems and accommodate new uses | designLAB
Renew building systems and accommodate new uses | designLAB
20 Sumner Road — Renovation

Graduate School of Design

Sustainable retrofit of wood-frame building | Snøhetta
Gund Hall – Renovation

Graduate School of Design

Renovation of teaching facilities | TBD
Harvard Law School

New space for HLS public service programs · NBBJ
Lewis International Law Center — Renovation

Harvard Law School

Building maintenance and upgrades, create additional offices and meeting space | Deborah Berke Partners
Schlesinger Library – Renovation

Radcliffe Institute for Advanced Study

Improve library facilities and exterior restoration | Kennedy & Violich Architecture
Campus Addition – New Construction

Harvard Kennedy School

Construction of new academic space | Robert A.M. Stern Architects
Campus Addition – New Construction

Harvard Kennedy School

Construction of new academic space | Robert A.M. Stern Architects
Smith Campus Center

Harvard Campus Services

Creation of a campus center | Hopkins Architects
Winthrop House – House Renewal

Recently Completed

Harvard College

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

Harvard College

Recently Completed

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

Recently Completed

Harvard College

Comprehensive renewal of undergraduate House  |  Beyer Blinder Belle
Adams House – House Renewal

Harvard College

Comprehensive renewal of undergraduate House | Beyer Blinder Belle
Harvard in Cambridge Public Schools

Harvard programs available in every public school in Cambridge

- All CPS 7th graders participate in Harvard's college awareness program
- CPS students attend performances at the A.R.T.
- CRLS marine bio students intern in Harvard research labs
- Cambridge Harvard Summer Academy serves as the official CPS summer school
- All CPS juniors participate in a Harvard Life Science Program

CPS and Harvard work together to create opportunities for educators.

- Fellowship provides CPS teachers & administrators with full funding for a Master's degree
- CRLS and Harvard Art Museums partnership incorporates art into high school curricula
Modeling the transition to a healthier, fossil fuel-free future

Campus Sustainability
Focused on climate, health, and living lab

4 GOALS with a specific target and timeframe
8 STANDARDS to align our community around a consistent approach
33 COMMITMENTS to set strategic priorities where we want to lead into the future
Accelerating solutions through multi-sector partnerships

- Vice-chair, Cambridge Compact for a Sustainable Future.
- Chair of Net Zero Labs Working Group – first corporate/university lab benchmarking study.
- Recruited and manage two student fellows working on Energy Storage and Market-based Incentives in support of City’s Net Zero goals.
- Served on Net Zero Task Force
- Dedicated advisors on Low Carbon Energy Supply group and Local Carbon Offsets group.
- Faculty advising city staff on climate vulnerability, Net Zero planning & sustainability.
30% reduction by 2016 from a 2006 baseline, including growth

- 24% Demand Reduction in Buildings
- 33% On-Site District Energy Supply Improvements
- 16% Decarbonization of Regional Electric Grid
- 19% Local Renewable Energy Purchases
- 8% Improved Refrigerant Tracking and Management
Campus as a test bed

- $700,000 Campus Sustainability Innovation Fund launched October 2016.

- Second year offering an interactive, multi-disciplinary (6 Harvard graduate schools) Climate Solutions Living Lab Course led by Harvard Law School’s Emmett Environmental Law and Policy Clinic in partnership with Office for Sustainability. Featuring leading companies and experts.

- The Healthier Building Materials Academy, a formal partnership between the Office for Sustainability and Harvard faculty from three graduate schools.
Climate action innovations

- **GSD HouseZero** in Cambridge – targeting the most rigorous efficiency standards ever achieved by a retrofit.

- One of the first Universities to complete a **GHG inventory using real-time energy production data** from ISO NE.

- **Partnering with innovators** like Watt Time to study how this data can inform building operations and renewable procurement.

- **First University to join the Rocky Mountain Institute Business Renewables Center** (BRC), a group that is working to streamline corporate renewable purchasing.
Reducing energy even as demand grows
Targeting reductions in energy intensive labs pays off

<table>
<thead>
<tr>
<th>Building Type</th>
<th>Energy Reduction FY06-FY16 (kBTU)</th>
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<tbody>
<tr>
<td>Athletic</td>
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<tr>
<td>Campus Operations</td>
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<tr>
<td>Classroom</td>
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<tr>
<td>Commercial/Health</td>
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<tr>
<td>Lab/Studio</td>
<td>-260M -240M -220M -200M -180M -160M -140M -120M -100M -80M -60M -40M -20M 0M 20M</td>
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<tr>
<td>Library/Museums</td>
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<tr>
<td>Office</td>
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<tr>
<td>Residential/Dorms</td>
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</tbody>
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Over 1.5 MW of installed rooftop solar
Partnership between faculty at Harvard Center for Health and Global Environment and Office for Sustainability.

Twenty major capital project pilots underway, including new construction and renovation.

Collaborate with 50+ manufacturers for increased transparency and proven change in material ingredients.

Integrated healthier building material requirements into Green Building Standards.

Founding partner of Google’s Portico tool. OFS has a formal partnership with Google.
• Climate Preparedness Working Group.
• Hosted two regional tabletop resiliency and emergency management exercises (2013 & 2018).
• Pilot climate resiliency study of Allston campus.
• Allston District Energy Facility relocated to above-grade location to improve reliability and resiliency.
• Resiliency strategies incorporated into major capital projects including House Renewal and Harvard Kennedy School transformation project.
Resources for Additional Information

**PLANNING**
Harvard Planning Office
www.planningoffice.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/plan

Sustainability Report
www.green.harvard.edu/report