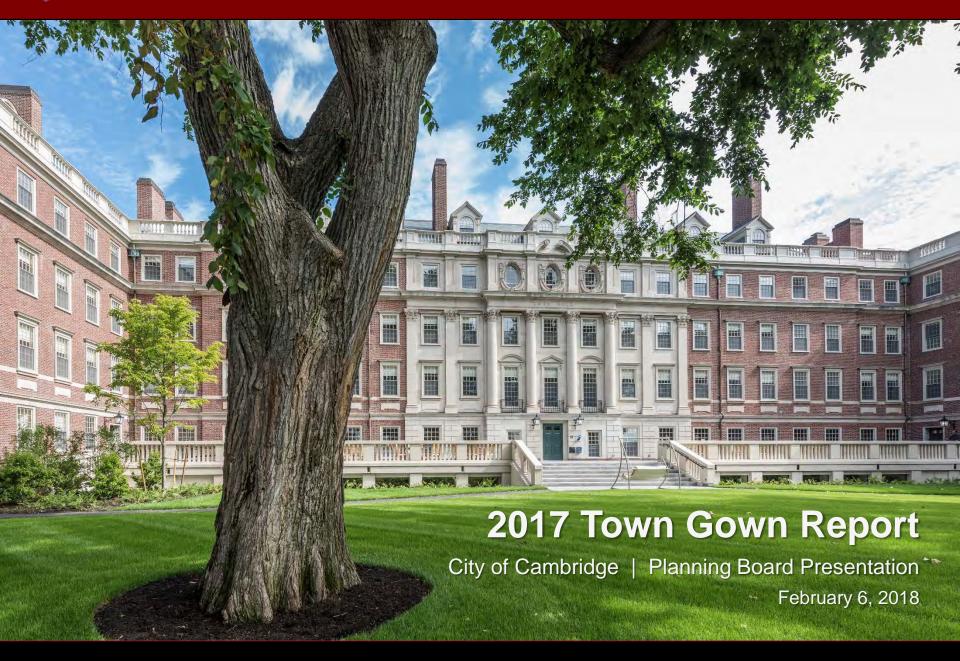
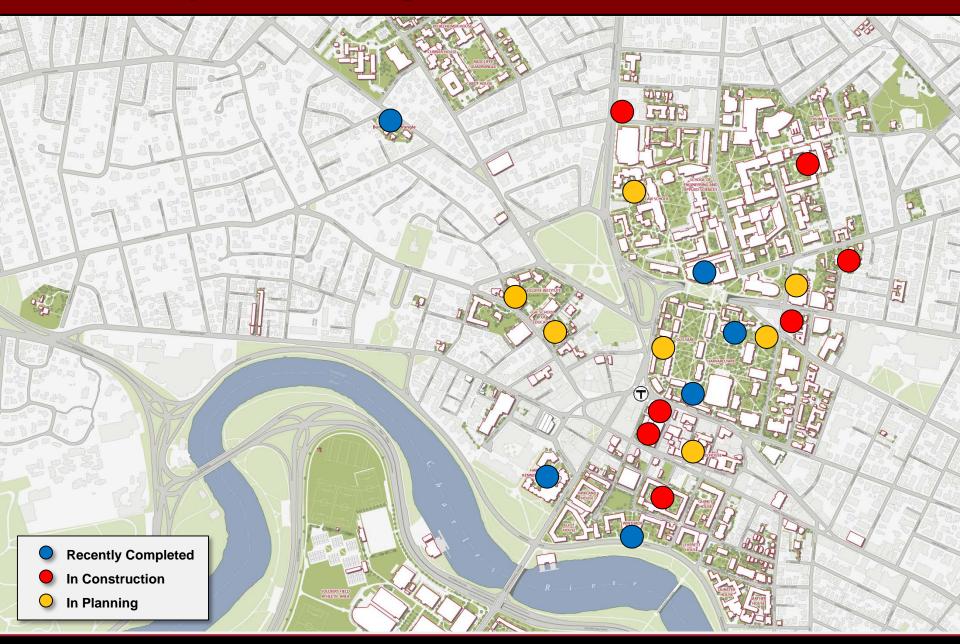
# THE HARVARD UNIVERSITY



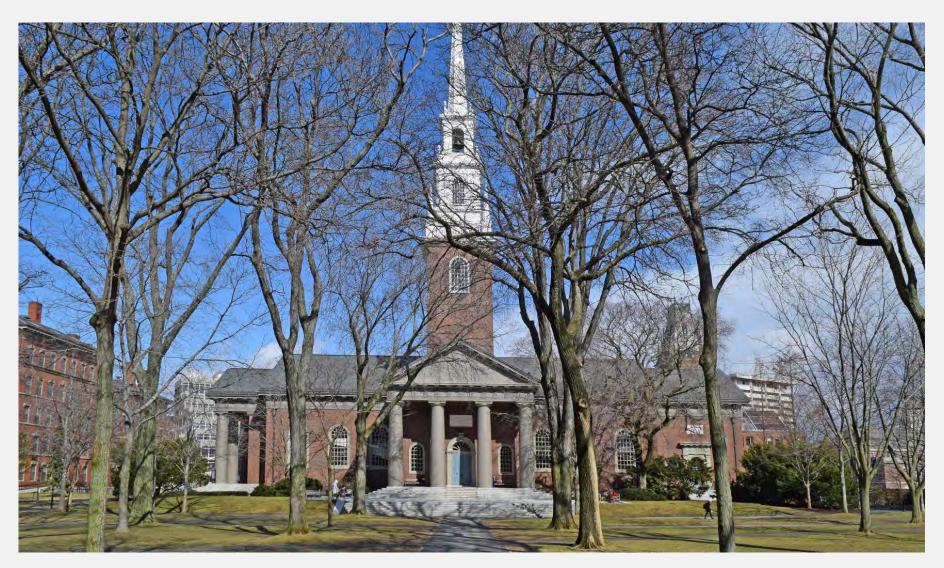
# **Current Projects in Cambridge**



## Faculty of Arts and Sciences



Interior renovation and new accessible entrance | Kennedy & Violich Architecture



Building system upgrades, renovation of space, and accessibility improvements | Payette



Building system upgrades, renovation of space, and accessibility improvements | Payette



Exterior restoration, HVAC and building systems upgrades | Baker/Wohl Architects

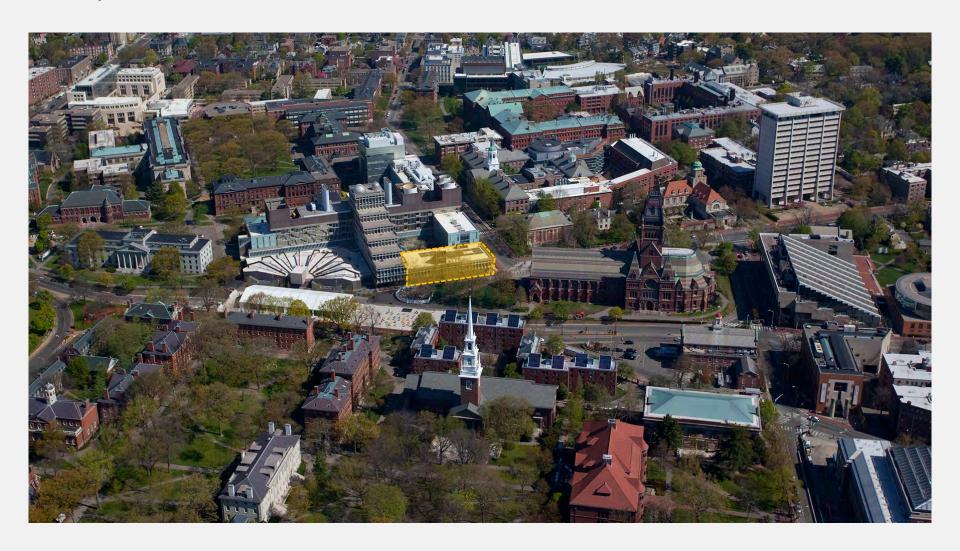
## Faculty of Arts and Sciences



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

# **Cabot Science Library** — Renovation

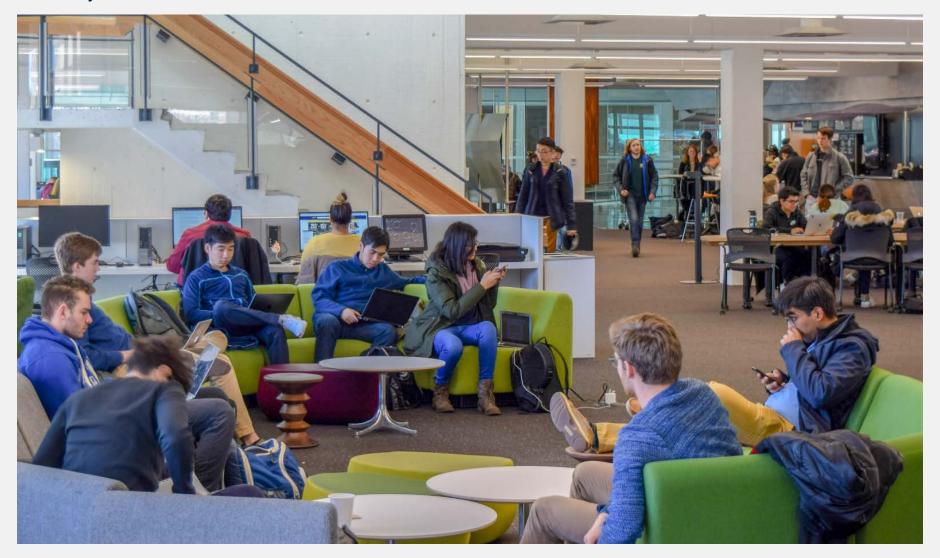
## Faculty of Arts and Sciences



Creation of collaborative learning environment | Mack Scogin and Merrill Elam

# **Cabot Science Library** — Renovation

# Faculty of Arts and Sciences



Creation of collaborative learning environment | Mack Scogin and Merrill Elam

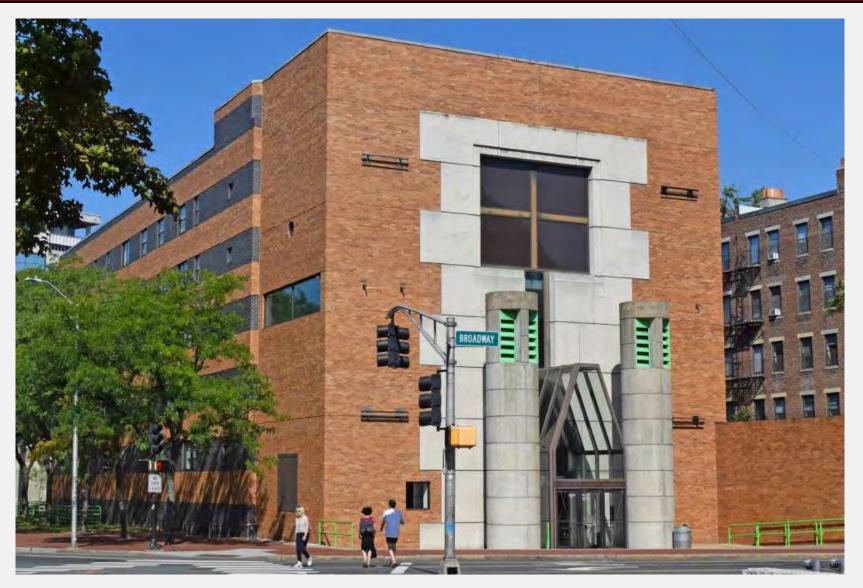
# **Cabot Science Library** — Renovation

## Faculty of Arts and Sciences

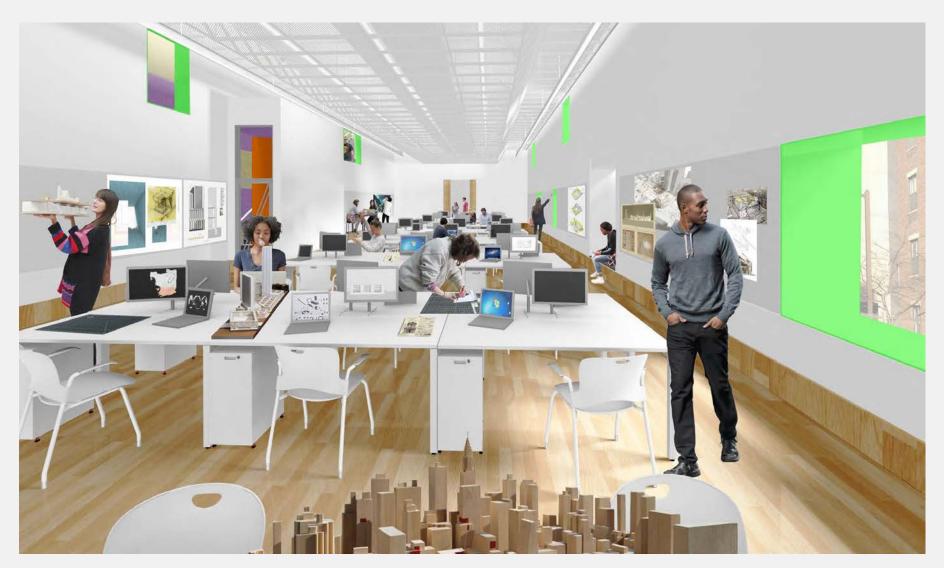


Creation of collaborative learning environment | Mack Scogin and Merrill Elam

# Arthur M. Sackler Building — Renovation



Renew building systems and accommodate new uses | designLAB



Renew building systems and accommodate new uses | designLAB

## Graduate School of Design



Sustainable retrofit of wood-frame building | Snøhetta

## Graduate School of Design



Renovation of teaching facilities | TBD

#### Harvard Law School



New space for HLS public service programs · NBBJ

#### 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



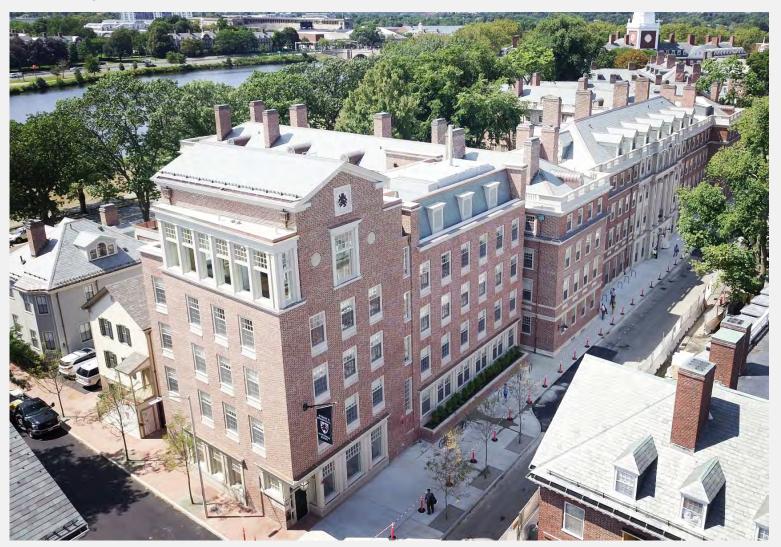
Construction of new academic space | Robert A.M. Stern Architects

# **Smith Campus Center**

## Harvard Campus Services



Creation of a campus center | Hopkins Architects



Comprehensive renewal of undergraduate House | Beyer Blinder Belle



Comprehensive renewal of undergraduate House | Beyer Blinder Belle

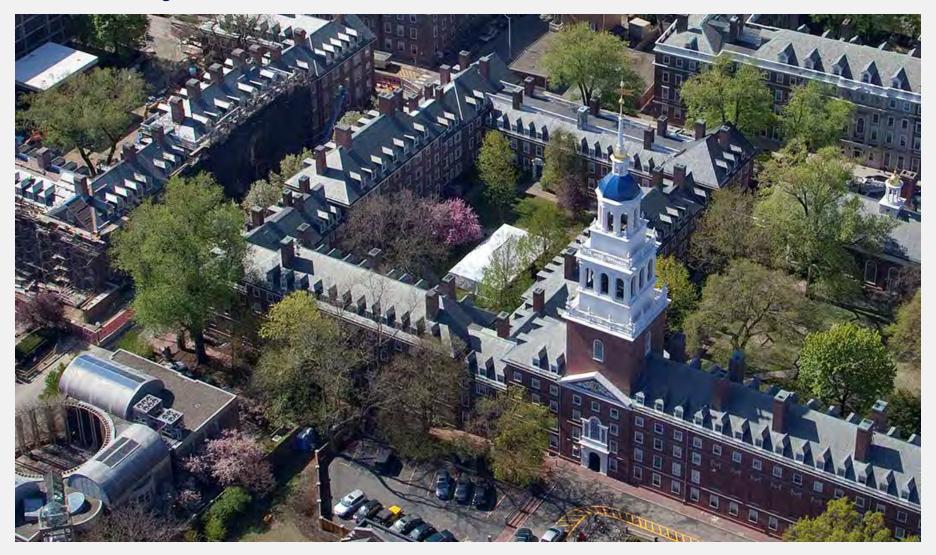








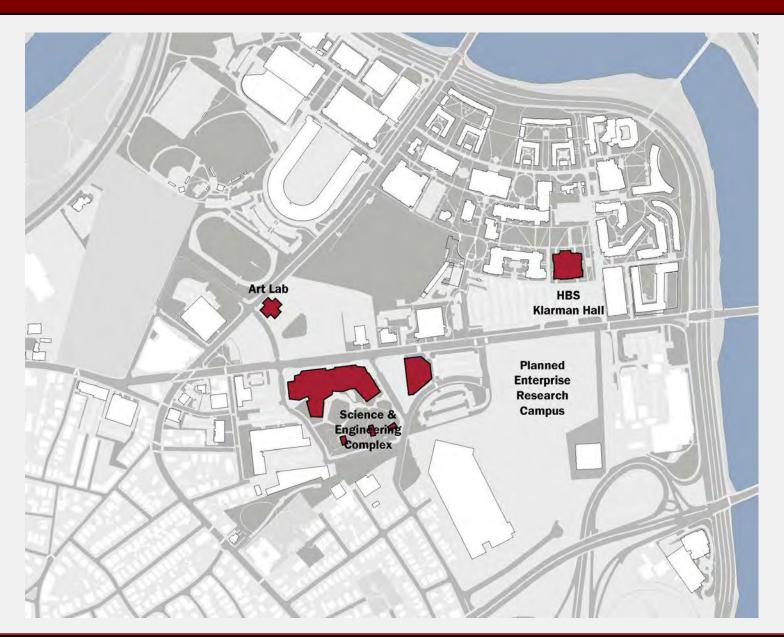
Comprehensive renewal of undergraduate House | Beyer Blinder Belle



Comprehensive renewal of undergraduate House | KieranTimberlake



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



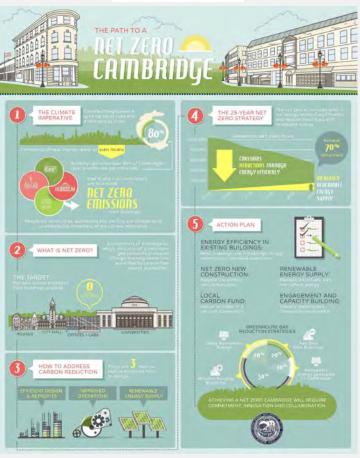
# Campus Sustainability

# Focused on climate, health, and living lab



# Accelerating solutions through multi-sector partnerships

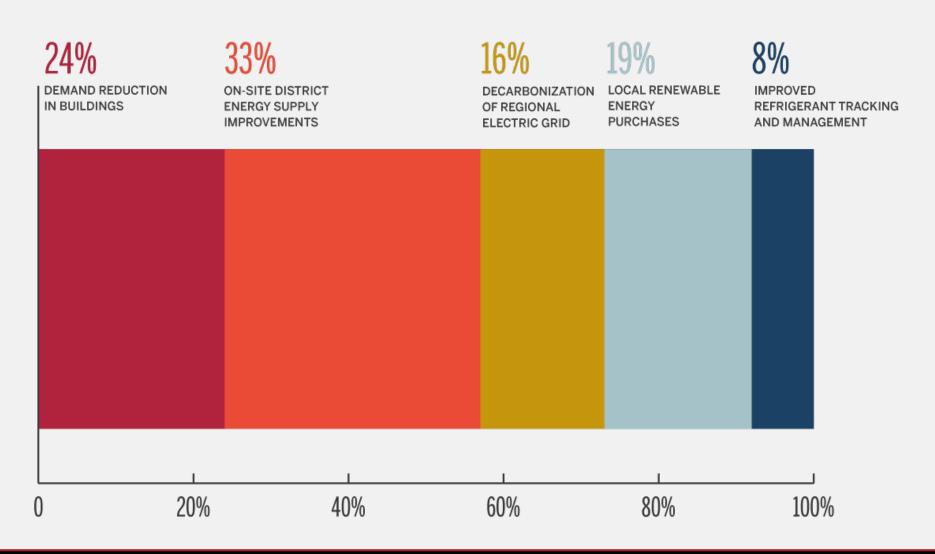




- Vice-chair, Cambridge Compact for a Sustainable Future
- Chair of Net Zero Labs Working Group first corporate/ university lab benchmarking study.
- Recruited and manage two student fellows working on Energy Storage and Marketbased Incentives in support of City's Net Zero goals.
- Served on Net Zero Task Force
- Dedicated advisors on Low Carbon Energy Supply group and Local Carbon Offsets group.
- Hosted two regional climate resiliency tabletop exercises (2013 & 2018).
- Faculty advising city staff on climate vulnerability, Net Zero planning & sustainability.

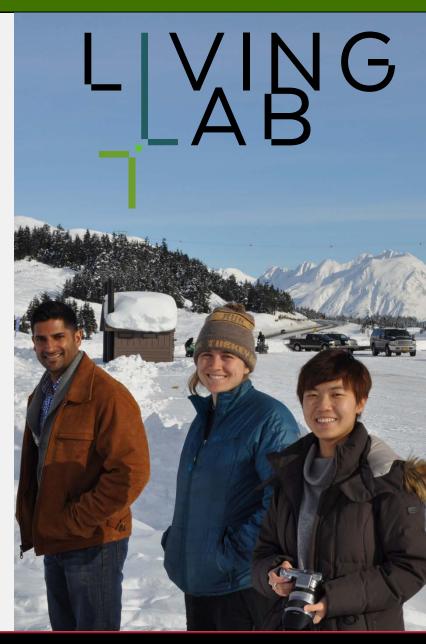
# Acting on climate with ambitious goals

#### 30% reduction by 2016 from a 2006 baseline, including growth



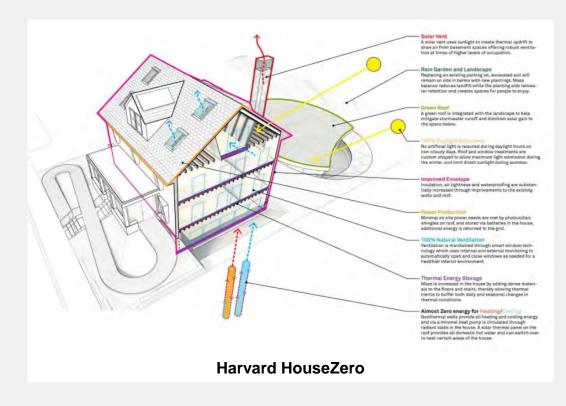
# Campus as a test bed

- \$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.

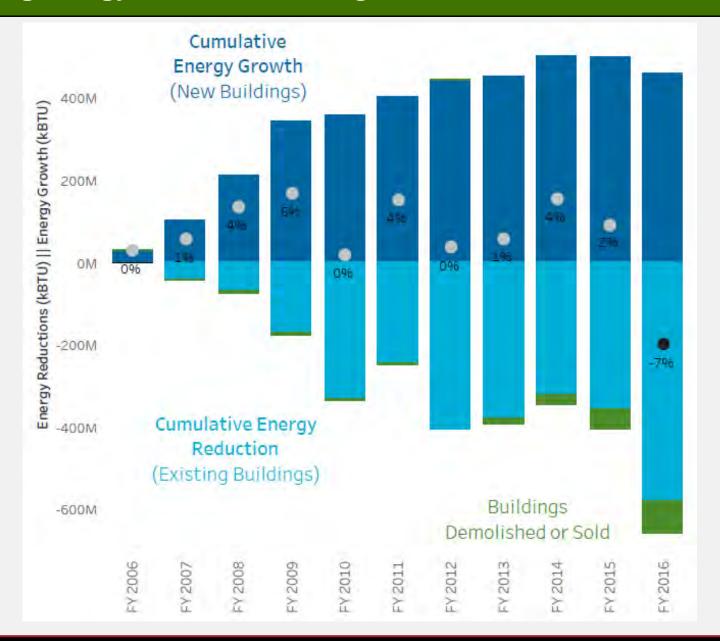


## Climate action innovations

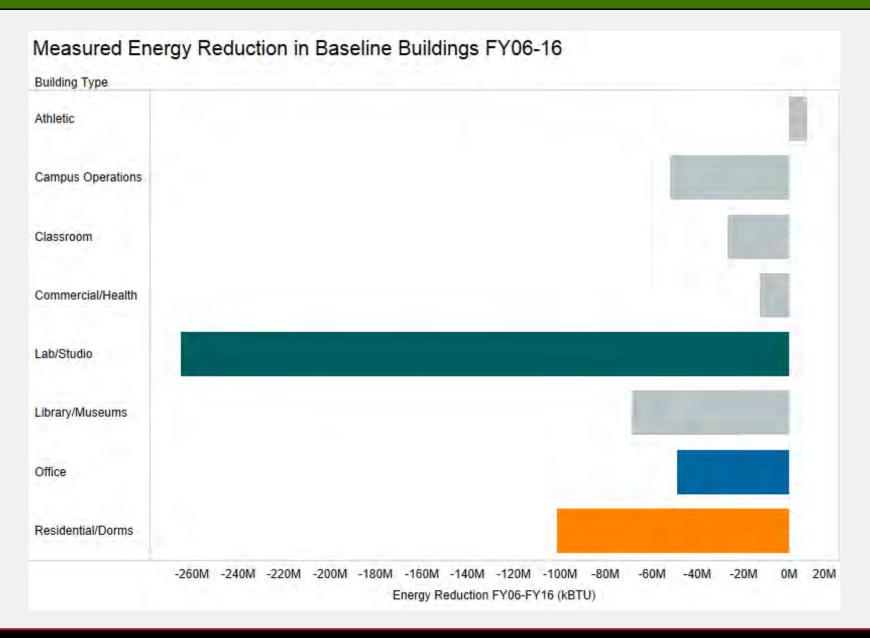
- GSD HouseZero in Cambridge targeting the most rigorous efficiency standards ever achieved by a retrofit.
- One of the first Universities to complete a GHG inventory using real-time energy production data from ISO NE.
- Partnering with innovators like Watt
   Time to study how this data can inform building 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.



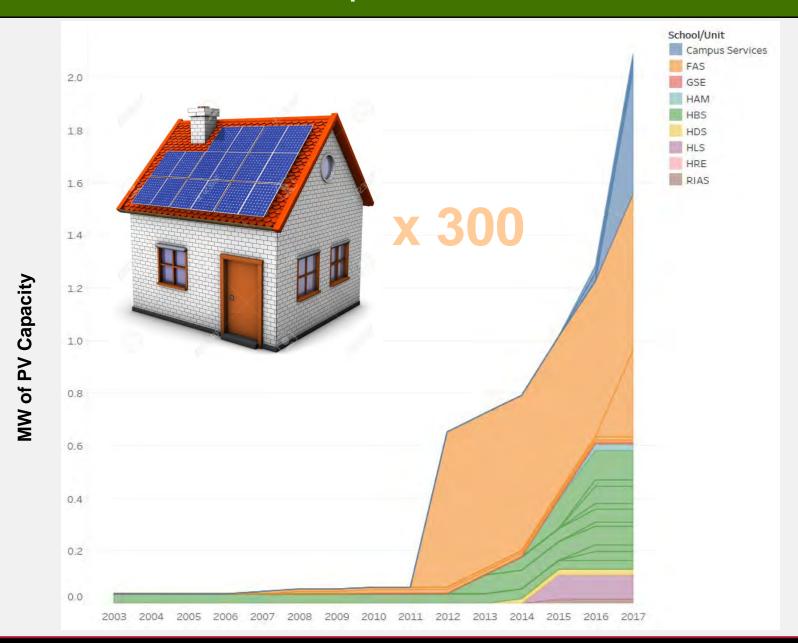
# Reducing energy even as demand grows



# Targeting reductions in energy intensive labs pays off



# Over 1.5 MW of installed rooftop solar

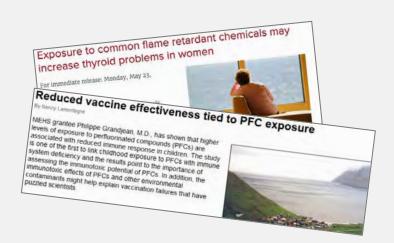


# **Healthier Building Materials Academy**

- 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 <u>50+</u> 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 resiliency and preparedness planning

- 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 abovegrade 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