Harvard Faculty of Arts & Sciences
FY 13 End-Year Executive Summary

KEY ACCOMPLISHMENTS

Adopted a holistic approach spanning across most FAS tubs and departments to:

- Standardize infrastructure and signage: 80 e-waste collection locations; 350 additional recycling bins.
- Engage the community: Freecycles, monthly movie screenings
- Connect building managers, facilitate information sharing and unify efficiency efforts: the Operations & Maintenance forum, sector meetings, centrally facilitating energy conservation measures.

Conducted ECM funding analysis to inform FAS’s strategic GHG planning and ECM investments.

Provided new tools and resources for FAS-wide distribution: LEDs, water pitchers, freezer cleaning sets.

Achieved unprecedented media presence: 7 News + stories in the Gazette, 120 facebook posts, 480 FAS related tweets, over 3500 pageviews of FAS pages.

GREENHOUSE GAS REDUCTION PROGRAM

Highlights

- Initiated and led discussions about supporting GHG reduction efforts in FAS’s non-core groups.
- Enabled continuous best practices sharing across FAS sectors through sector meetings and conversations with building managers. Sample cross-sector projects included: steam traps surveys, door seals improvement.

ECM Facilitation Highlights

<table>
<thead>
<tr>
<th># of buildings where ECMs were explored or implemented</th>
<th>$77,035 Projected annual savings from implemented projects ($)</th>
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<tbody>
<tr>
<td>26</td>
<td>236 Projected annual GHG reductions from implemented projects this year (kWh)</td>
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<tr>
<td>6000 LEDs purchased through a new agreement with NSTAR, at $2/bulb; 2000 LEDs distributed to Freshmen, GSAS dorms and office staff. Savings to the FAS, @ $14/bulb: $204,000</td>
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Facilitated implementation of energy conservation measures in office and residential buildings.
Researched new technologies and available rebates. Acted as a liaison between building managers, vendors and contractors.

Projected savings from completed and planned projects in FY13: $77,035
COMMUNITY ENGAGEMENT: LABS

Overview

- **Key outreach programs continued and expanded:**
  - Green Lab Certification Program, FAS Freezer Preventative Maintenance Program, Shut the Sash Competition

- **New Labs Reuse List** for lab equipment and supplies has been embraced by the research community. The webpage was viewed over 570 times in February alone. Over 80 items have been posted to date.

- **New pilot programs** established in response to researcher feedback, including reuse areas at HSCRB and a styrofoam recycling study at MCB.

- Facilitated 4 Lab Sector Meetings in FY13. Excellent participation and feedback leading to valuable follow up opportunities.

- **Average compliance for Shut the Sash is 68%**, up from 57% in 2012 as a result of targeted outreach efforts

Collaborations with SEAS

- Conducted a study to determine the potential savings associated with expanding the Shut the Sash fume hood competition to ESL. The results show that most fume hood savings are already being realized.

- Next, the ~80 freezers at SEAS will be enrolled in the FAS Freezer Preventative Maintenance Program.

- Kicked off collaborations with two community events- a Freecycle in March and a trivia night in April.

Campaign Highlight: HSCRB Lab Cleanout

- 4 reuse stations set up (one on each floor of Sherman-Fairchild) for lab equipment and supplies

- 11 freezer kits—consisting of foam gloves and an ice scraper—were distributed to promote regular de-icing and sample cleanouts

- 1 lab signed up for Freezer PM Program— for a total of 9 participating labs at HSCRB

Key Outreach Statistics

- Hosted two lab-oriented Frecycles, one in September 2012 and one in April 2013. Over 130 items were reused or recycled at each event.

- Assisted with first lab move/cleanout. More than 3 hampers (~100 cubic feet each) of equipment was recovered for reuse.

- Facilitated 4 Lab Sector Meetings to promote best practice sharing between building operations teams at FAS.

- Conducted 3 lab walkthroughs and achieved 1 Green Lab Certification since June 2012 for Green Lab Certification Program.

Upcoming Program Expansion

- **Freezer kits** (ice scrapers & gloves) will be distributed across FAS to encourage freezer cleanouts, and stakeholders will be trained to properly care for their units.

- **Lab Recycling Pilot Program** underway in two labs at EPS. Procedures were developed in close collaboration with Harvard Recycling and Environmental
COMMUNITY ENGAGEMENT: OFFICE BUILDINGS

Overview
- **Implemented methodical approaches** to reducing impact, such as consolidating the best practices from Green Office and partnering with departments to initiate them on large scales.
- **Engaged senior staff in FAS’s strategic buildings** through the recycling competition and green office program.
- **Develop resources and tools** to make sustainability practices easier, such as our E-waste expansion and online map.

Ongoing Campaigns

Green Office
- **48 Green Offices total**, with 4 more in the process.
- **Dean of Social Science** was our most recent Green Office addition.

Waste Reduction
- **5 FreeCycles Events**: over 800 community member attendees and 4000 pounds of items diverted from landfills.
- **Recycling competition expanded to 5 strategic buildings**, engaging over 600 staff, faculty and graduate students. Marked improvement in the % of recycling in the trash from pre and post audits.

NEW: Staff Engagement
- **350 staff** took recycling quiz.
- **40 staff and celebrity professors** participating in Earth Month Photo Booth.
- **Eco Citizens Campaigns**: 2 film screenings with accompanying activities for offices around focus topics.

NEW: E-Waste Campaign Expansion
- **Expanded to 70 locations** across the FAS.
- Partnership with EH&S and Harvard Recycling to improve Electronic Waste collection and labeling.
- Developed an online includes map of e-waste locations.

NEW: Monthly TED Talk Series.
- Screenings and discussions of topic focused TED Talks.
- Featured screening of *Forks over Knives*, in partnership with the Food Literacy Program. Veggie quiz and raffle. Quote from one of the participants: “I feel like a new man after watching this movie”.

Expanded the Pool of Resources Available to the Community:
- Glass pitchers for departmental events
- Task Lights LEDs

NEW: Departmental Outreach programs
- Initiated with Music Department and Anthropology-improved recycling signage in 30 locations, added composting and electronic waste disposal, distributed 30 LED light bulbs to staff and grad students.
COMMUNITY ENGAGEMENT: STUDENTS

Overview
- Increased student participation in events and campaigns
- Continued effective Opening Days programming to catch the attention of freshmen as they enter Harvard.
- Developed new and improved existing educational tools for REP Enthusiasts (REPs) to make sustainability more accessible to students: recycling quiz, Sustainability Pledge, energy quiz, and carbon footprint evaluation tool.
- Expanded activities to GSAS Residence Halls, a collaboration between the FAS Green Program, GSAS Student Services, and Facilities.

Program Highlights: Freshmen
- **1400** attendees at the third annual Freshman Green Fair, matching previous years. **18 participating booths**, increased from **15** student groups, fields of concentration, and offices.
- **3 NEW fall events/campaigns added**, including a REP-EAC-FDO co-sponsored Environmental Immersion Weekend for 20 freshmen at Harvard Forest and a personal energy use flashcard quiz.
- **34.4%** of trash audited could have been recycled. (Down from **41%** in FY 12.) Results publicized in the Waste Audit Harlem Shake video and at Mt. Trahsmore.

Program Highlights: Upperclassmen
- **34%** of upperclassmen took the NEW Recycling Quiz, with **74%** and **70%** participation in the top two houses (Cabot and Leverett, respectively).
- **20%** of upperclassmen take the Cooler Smarter carbon footprint calculator in the one week contest, with **78%** and **72%** participating in the top houses (Cabot and Mather, respectively).
- Over **80%** of Sustainability Pledge participants pledged to observe holiday setbacks and wash clothes in cold water; over **60%** pledge to take shorter showers.
- **3.8%** reduction in electricity usage among the Houses relative to previous three years’ average. Over **10%** reduction in the top House (Winthrop).

COMMUNITY ENGAGEMENT: Athletics

Recycling and Waste Reduction Strategy
- Since 2006, reduced the amount of trash produced during the first two months of school alone by over 40 tons.
- Recycling during football game days has increased from **2%** in 2008 to over **30%** today.
- Recycled over **24,000 gallons** of material at the H/Y game alone.
- Piloting permanent recycling bins in the fields.

Community Engagement
- 5 fall teams will be donating used athletic gear instead of trashing it at the end of the season.
- Video featured on the jumbotron during the H/Y game.

Sustainability Pledge: Highlights

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<th>Action</th>
<th>Percent</th>
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<td>shorter showers</td>
<td></td>
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<tr>
<td>holiday break setbacks</td>
<td></td>
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<tr>
<td>wash clothes in cold...</td>
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Percent of participants who “already do” or “will do” these actions.

Who is the coolest, smartest house?
Which house will have the most participants evaluate their carbon footprint?

New Resources
- 4 new infographics and fun facts, including the life of electronics waste and Blackstone Co-generation.
- 8 out of 39 Student Sustainability Grant submissions awarded to College and GSAS students.