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Sustainability Planner  
Office of the Architect  
May 18, 2011



**2011**  
**UNIVERSITY OF VIRGINIA**  
**SUSTAINABILITY ASSESSMENT**

**Summer 2010 – Sustainability Assessment Survey**

**Fall 2010 – Assessment Research and Benchmarking**

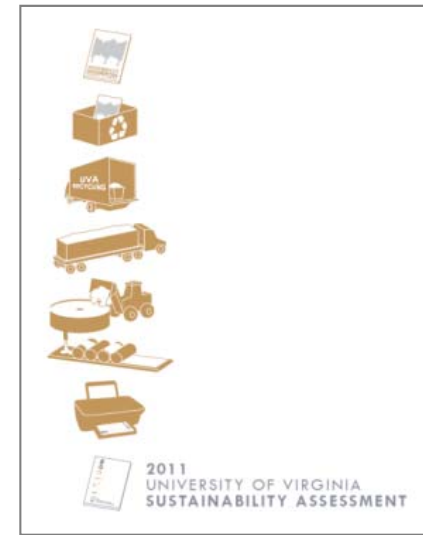
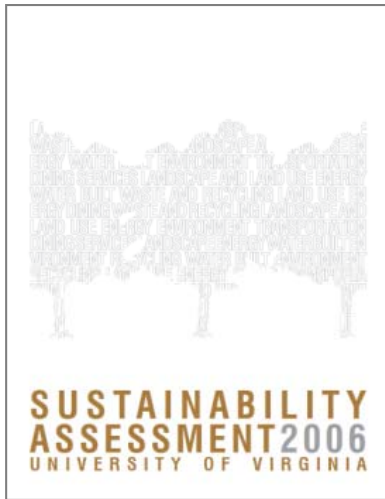
**Winter 2011 – Development of Assessment Text**

**Spring 2011 – Committee on Sustainability Review**

**May 26, 2011 – Presentation to Committee for Adoption**

**June 2011 – Assessment Release**







## Strategy for Sustainability

Key actions to advance sustainability at the University



## Governance and Culture



## Academics and Learning



## Management Centers



Land Use



Energy



Built Environment



Water



Transportation



Waste and Recycling



Food



**ACTION 1** Approve a comprehensive set of objective, measurable goals for sustainability designed to focus priorities and drive change.

**ACTION 2** Adopt a concise, motivating sustainability vision:

*The University of Virginia considers sustainability an institutional and an individual value. We are committed to actions that mutually promote the health of our institution, community, and environment. To achieve this vision, the University supports system-wide collaboration, shared priorities, and frequent assessment of progress.*

**ACTION 3** Create an interdisciplinary center for sustainability, of form to be determined, to establish an internal and external focal point for sustainability and to foster collaboration among faculty, students, staff, and administrators.

**ACTION 4** Standardize an approach to utilize the Grounds as a teaching tool through collaboration between operational and academic units on areas of shared interest.

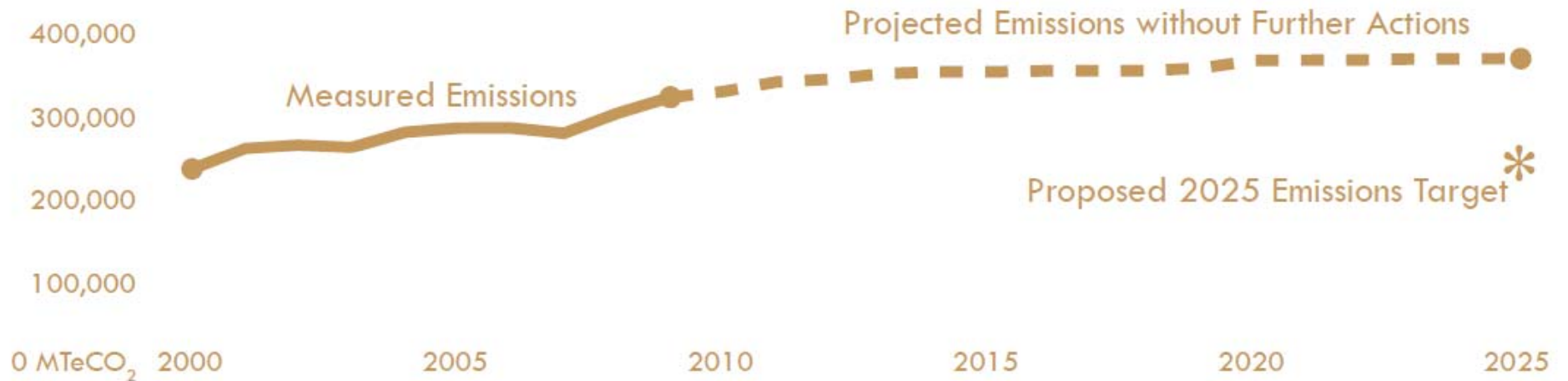




**Category 1: Education and Research**

**Category 2: Operations**

**Category 3: Planning, Administration and Engagement**



The proposed greenhouse gas emissions target has focused attention on actions that reduce emissions





Charge

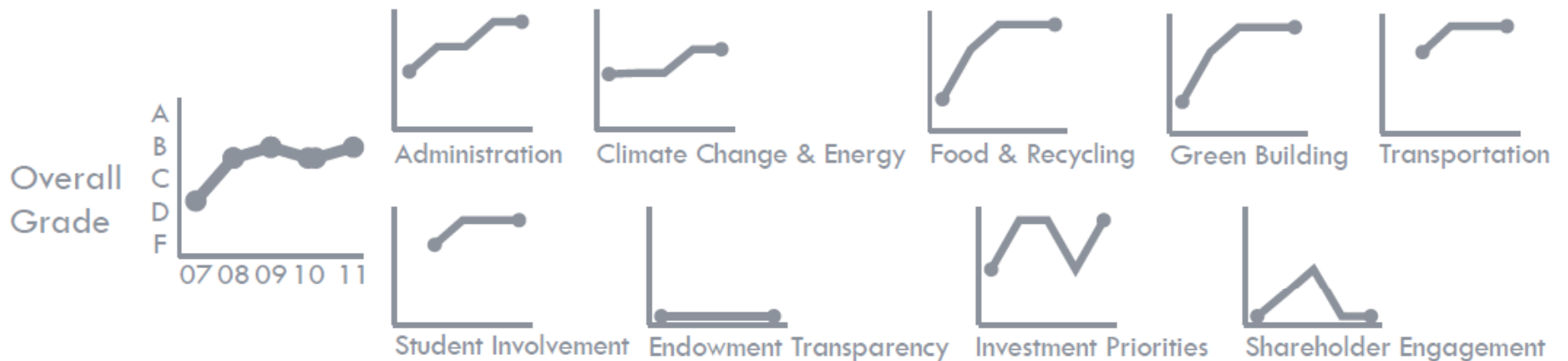
Membership

Committees Home

## Committee on Sustainability

### Charge

The Committee on Sustainability advises the President and Executive Vice President and Chief Operating Officer, through the Architect for the University, on all matters related to the overall quality, diligence, and progress of the University's commitment to sustainability in the broad sense of environmental, economic, and social impacts, and their relationship to the future of the University. In carrying out this charge, the Committee shall be engaged in the following:



5 years trends in UVA grades on Sustainable Endowment Institute's College Sustainability Report Card





SUSTAINABILITY · UVA



SUSTAINABILITY at the UNIVERSITY of VIRGINIA

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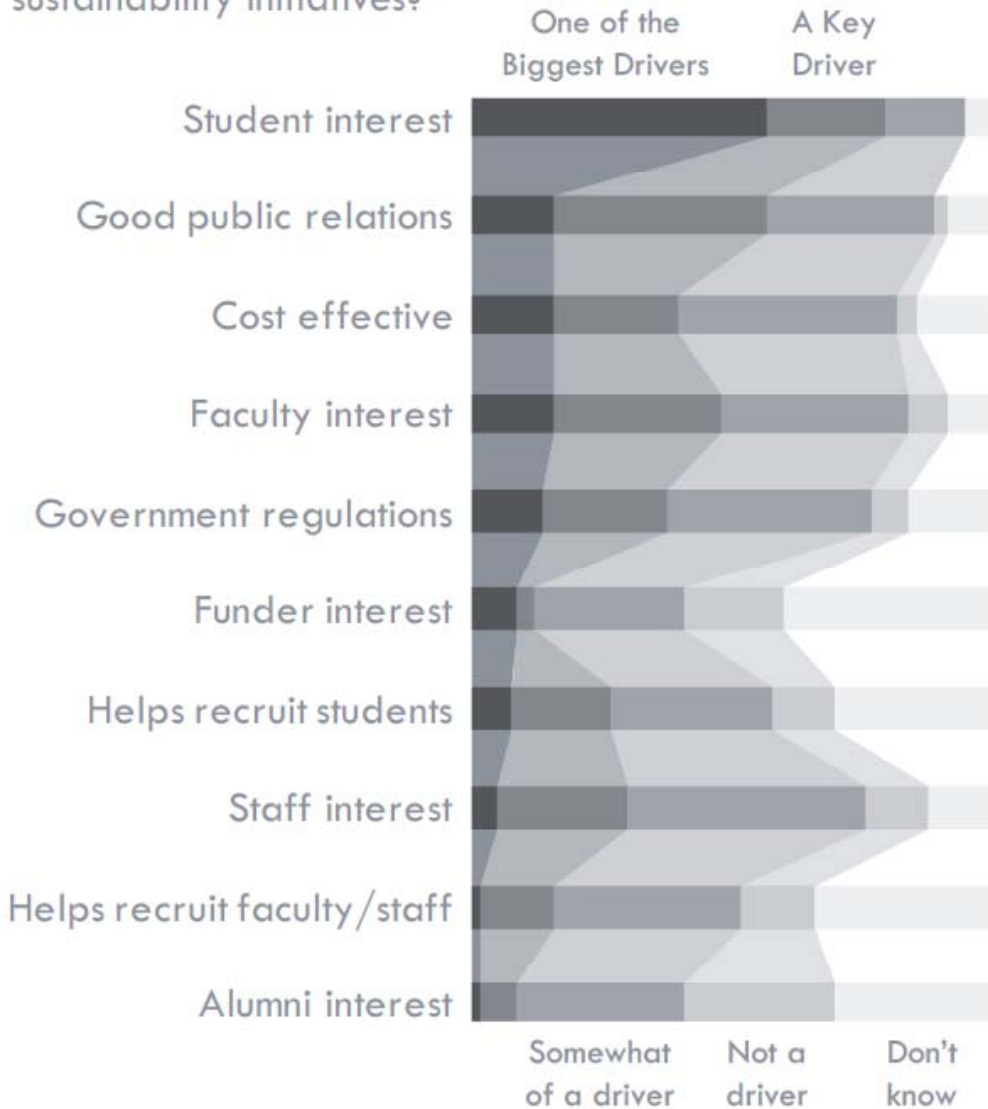
- + [Apply to become a Sustainability](#)



GOVERNANCE AND CULTURE



To what extent has each of the following played a role in encouraging the University to implement sustainability initiatives?



# SustainaUnity



**Welcome to SustainaUnity at UVA!**





# GOVERNANCE AND CULTURE



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## U.Va. Launches Interdisciplinary Minor in Global Sustainability

February 11, 2011 — The University of Virginia has launched an interdisciplinary minor in global sustainability, open to students from all the undergraduate schools at the University.

: @ U.Va.

Students who meet the program requirements are eligible to graduate with the minor this May. The [Office of the Provost](#) approved the curriculum initiative on Jan. 28.

150 students



Enrollment Growth in the Global Sustainability Course (\*Enrolled as of May 1, 2011)



# Progress since 2006



Biodiversity Analysis



TDM Plan



UVA Grounds Plan



Precinct Plans



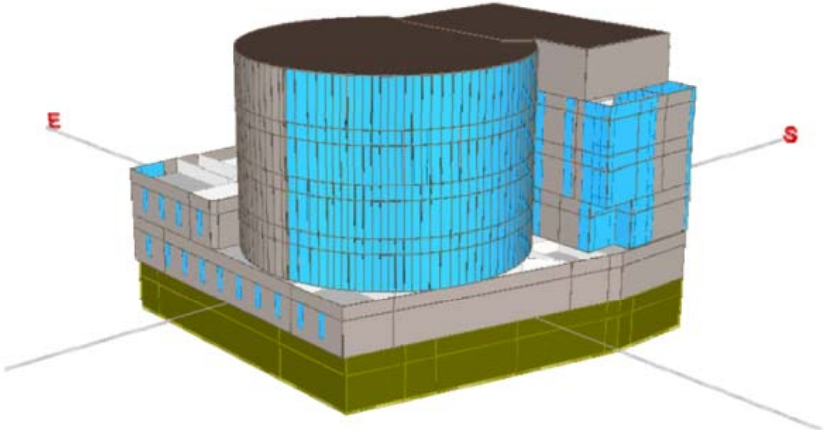
Health System Area Plan

Numerous plans supported the Grounds Plan, which established a framework for finer scale plans



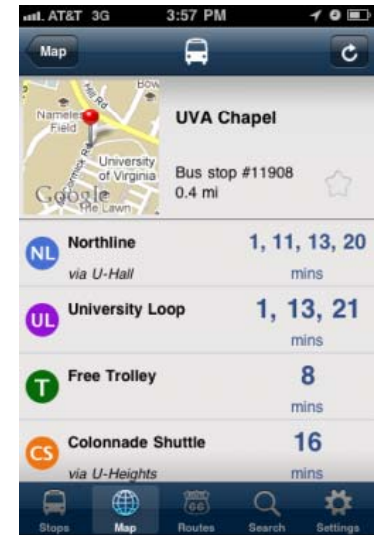
LAND USE

Progress since 2006 ● ● ● ● ● ● ●



BUILT ENVIRONMENT

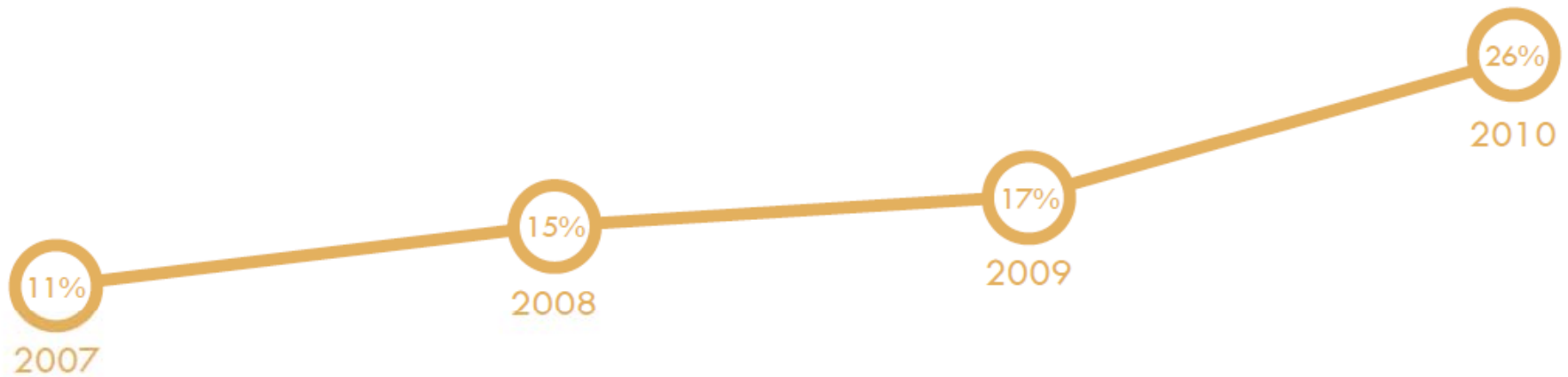
# Progress since 2006



Progress since 2006



# Local Food Hub

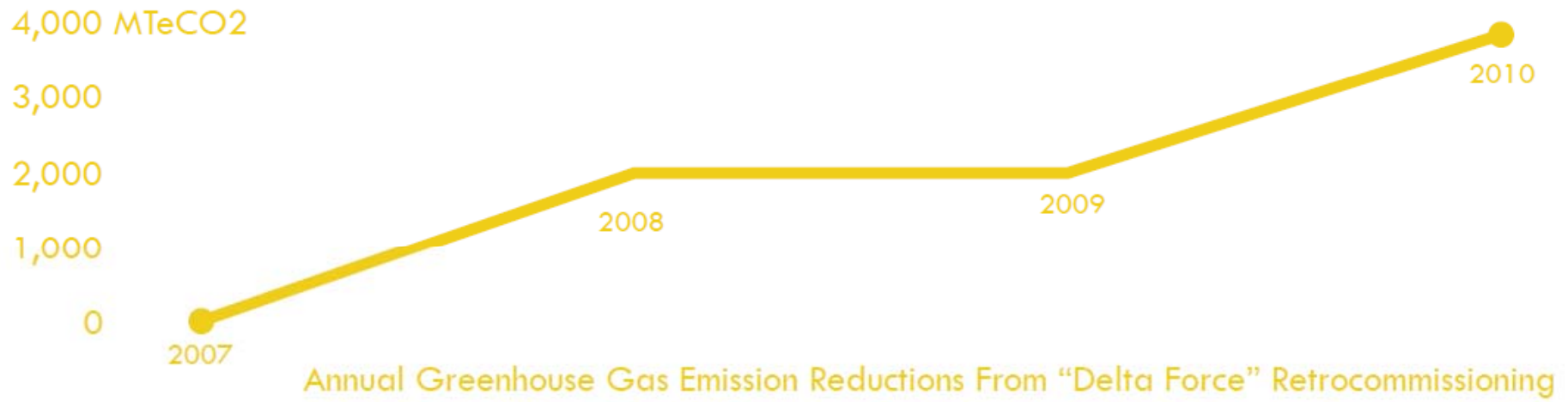


UVA Dining/ARAMARK Sustainable Food Purchases as a Percentage of All Food Purchases



FOOD

# Progress since 2006



ENERGY



# Progress since 2006



Runk Dining Hall Water Consumption by Semester: 2003-2010



WATER

Progress since 2006 ● ● ● ● ◐ ◐ ◐ ◐ ○ ○ ○ ○



WASTE AND RECYCLING

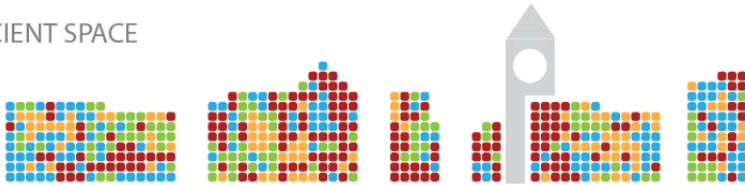
# Harvard Zero Waste Events



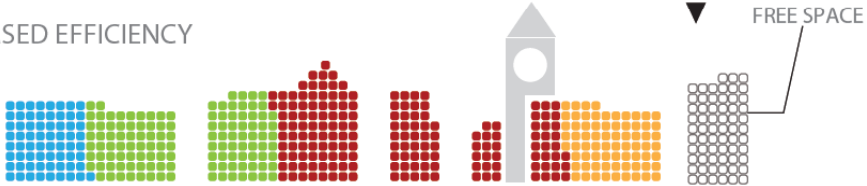
 SPACE PLANNING AND MANAGEMENT: TREATING SPACE AS A RESOURCE



INEFFICIENT SPACE



INCREASED EFFICIENCY








# Cornell Carbon Action Plan








# Dickinson Campus Farm



## 2011 RECOMMENDATIONS: FOOD

RECOMMENDATION	TIMELINE	SYNERGIES
Ensure that catering operations utilize recyclable plates and materials and provide products in bulk as opposed to single-serving containers.	Immediate	
Implement sustainable dining programs consistently across all UVA food-service facilities, such as reusable take-out containers, incentive programs, and local, vegetarian, and organic food options.	1-2 years	
Implement practice to always provide recycling containers at catered events, and introduce an option for local food and/or zero-waste.	1-2 years	
Provide additional filtered water bottle filling stations at 10 or more locations around Grounds, including at athletics venues.	1-2 years	
Initiate a large-scale garden on underutilized University or Foundation properties to provide fresh produce to the University and farming-related educational opportunities to the University Community.	2-4 years	
Implement food waste composting at 80% or more of University dining locations.	2-4 years	



## 2011 RECOMMENDATIONS: ACADEMICS AND LEARNING

RECOMMENDATION	TIMELINE	SYNERGIES
Complete a comprehensive inventory of sustainability research initiatives.	Immediate	
Launch a regular sustainability speakers series.	Immediate	
Ensure that students have the necessary tools to extend course-initiated sustainability projects and research into multi-year efforts.	1-2 Years	
Determine the form of an interdisciplinary center for sustainability and initiate steps to fund and create.	1-2 Years	
Develop a standard approach to utilize the Grounds as a teaching tool through collaboration between operational and academic units on areas of shared interest.	1-2 Years	
Introduce an undergraduate student area requirement for sustainability.	2-4 Years	
Provide faculty incentives, e.g., tenure support, compensation, for the development of sustainability coursework and interdisciplinary collaboration on sustainability.	2-4 Years	

## 2011 RECOMMENDATIONS: GOVERNANCE AND CULTURE

RECOMMENDATION	TIMELINE	SYNERGIES
Approve a comprehensive set of objective, measurable goals for sustainability designed to focus priorities and drive change.	Immediate	
Adopt a high-level, motivating sustainability vision for the University.	Immediate	
Develop funding mechanisms and launch the Green Initiatives Funding Tomorrow (GIFT) Program	Immediate	
Establish a Sustainability Marketing Position in the Office of Public Affairs	1-2 Years	
Develop and implement reminder and interpretive signage around Grounds.	1-2 Years	
Complete the Sustainability House, a sustainability-themed University-operated residence.	2-4 Years	

## 2011 RECOMMENDATIONS: ENERGY

RECOMMENDATION	TIMELINE	SYNERGIES
Formally adopt a UVA greenhouse gas reduction target	Immediate	
Make information on building energy consumption and carbon emissions at all University buildings publicly-available using a user-friendly web application or similar format.	Immediate	
Implement the high-priority recommendations of the Alternative Energy Study, including energy conservation, green building, solar thermal, geothermal, heat recovery, and cogeneration projects.	Varied	
Transition responsibility for LEED building energy modeling from outside consultants to in-house capability. Ensure position is present in all stages of project design and construction, including value engineering and post-occupancy measurement and verification of building performance.	1-2 Years	
Continue to expand upon Delta Force efforts towards the goal of retro-commissioning 10% of University buildings each year.	1-2 Years	
Formalize "carrots and sticks" approach to utility consumption and apply broadly to all University units.	1-2 Years	
Initiate projects to renovate 2 or more energy-intensive laboratory buildings to reduce air exchange rates, remove unused fume hoods, retrofit remaining fume hoods, and replace constant volume air handling units.	2-4 Years	
Form a partnership with renewable energy providers to identify opportunities to create on- or off-site renewable energy projects through long-term purchase agreements.	2-4 Years	

