

Energy and Sustainability Committee Meeting Minutes
November 26, 2012
2:00 – 3:00 p.m.
Room 325, Burruss Hall

Present: Fred Selby, Kayla Smith (for Sherwood Wilson), Savita Sharma (for Dwight Shelton), Jason Soileau, Denny Cochrane, Rial Tombes (for Frances Keene), Rob Lowe, Althea Aschmann, Georg Reichard, John Randolph, Matt Carter (for Becky Saylor), Catherine Goggins, and Drew Gallagher.

Absent: Mike Coleman, Bruce Ferguson, Nancy McGehee, Tom Tucker, Paul Winistorfer, Michael Painter, and James Dale.

Guests: Angie De Soto, Mark DiFilippo, Alyssa Halle, and Steve Mouras.

Call Meeting to Order and Welcome Guests

Chair Fred Selby called the meeting to order and welcomed the E&S Committee members and guests.

Approval of Agenda

The Committee approved the agenda as proposed.

Approval of Minutes

The Committee approved the minutes from the previous meeting.

Old Business

1. 2012-2013 Request for Proposal for Student Organization Sustainability Initiatives (Green RFP) Status Update

Denny Cochrane provided an update on the Green RFP Program. This year the Office of Energy and Sustainability received 20 proposals from nine student organizations. In accordance with the Green RFP Memorandum dated August 31, 2012, the Energy and Sustainability Committee (E&SC) has the responsibility to review and prioritize these proposals. To facilitate this process the Committee created a separate Green RFP Subcommittee that consists of Denny Cochrane (Chair), Nancy McGhee (Faculty representative) and Rob Lowe (Staff representative). The Green RFP Subcommittee conducted its initial review of all proposals on November 16, 2012. Using the same review process as last year, the Subcommittee recommends 10 proposals for approval and funding consideration, 6 proposals that while they had merit are not recommended for approval and funding consideration at this time, and 4 proposals that are not recommended for approval and funding consideration. The Subcommittee made a preliminary prioritization of only the 10 proposals that it recommends for approval and funding consideration. Before the results are presented to the full E&SC, Denny will provide this information to Jason Soileau (Assistant VP, Office of University Planning) and Dr. Sherwood Wilson (VP for Administration Services) for their review and comments. Both are ex-officio members of the E&SC and will oversee implementation of approved proposals. Once this process is completed, Denny will brief the Green RFP Subcommittee, and forward the prioritized list of Green RFP proposals to all E&SC

members for an electronic vote. The goal is to have the voting completed and the final results submitted to the Office of Budget and Financial Planning by the end of the 2012 fall semester.

2. Virginia Tech Climate Action Commitment and Sustainability Plan (VTCAC&SP) Subcommittee Update

Alyssa Halle, Graduate Assistant with the Office of Energy and Sustainability and member of the Energy and Sustainability Subcommittee, presented an initial review of the subcommittee's work to date. This subcommittee was established by the Energy and Sustainability Committee in February 2012 to review the status of the Virginia Tech Climate Action Commitment (VTCAC) Resolution and accompanying Sustainability Plan (collectively abbreviated as VTCAC&SP). The university is currently at the end of the "Immediate Phase: 2009-2012" of the original Sustainability Plan and entering the "Midterm Phase: 2013-2025." The subcommittee was charged to: 1) review the language in the VTCAC Resolution and recommend changes, if needed; and 2) review the status of the VTCAC&SP and recommend "next steps" for updating the Sustainability Plan. The purpose of this initial presentation was to provide a first briefing for the Committee members to review the proposed language changes to the VTCAC Resolution and the suggested next steps for reviewing the Sustainability Plan; minor suggested revisions were incorporated in the attached presentation (see E&SC 112612 Attachment 1 – "VTCAC 2012 Review & Recommendations Presentation (11 27 12).pptx"). The final review presentation and vote to approve the proposed language changes to the VTCAC Resolution will occur at the next Energy and Sustainability Committee meeting on Monday, January 28, 2013. Pending approval by the Energy and Sustainability Committee, the VTCAC Resolution changes are required to be reviewed and approved through the university governance system including: the Commission on University Support (and other related commissions) from February through March 2013 (allowing for first and second readings), University Council in April 2013 (allowing for first and second readings), and finally the Virginia Tech Board of Visitors at their June 2013 meeting.

All Committee members are encouraged to review the initial presentation and provide feedback and/or suggested changes, as they see fit. All changes will be reviewed and incorporated, as appropriate. Committee members are asked to provide their suggested changes electronically via email to Alyssa Halle (ahalle@vt.edu) and Fred Selby (selby@vt.edu) by the deadline of Monday, January 21, 2013. Fred Selby and Steve Mouras will continue to work to develop the process to finalize the recommended categories/subcommittees for the next steps of reviewing the Sustainability Plan.

3. OES Student Intern Program Update

Angie De Soto reported that the OES Internship Program is coming to a close for the semester and each of the project teams are on track to complete their fall work products by mid-December (see E&SC 112612 Attachment 2 – "SPOT Updates_ESC_11 26 12.pptx"). The students will be presenting on these fall work products in early December and information about these presentations will be sent out to the committee. The fall presentations and work products will be uploaded to the Campus Sustainability Portal site and a link will also be sent out to the E&S Committee members. Due to the resignation of our current Campus Sustainability Planner, a transition plan is being developed. The

internship program will continue in the spring semester with the part time support of Angie De Soto while a successor is found. Different scenarios for continuing the internship program beyond AY 12-13 are being developed and the path forward will be ultimately decided on by the OUP and OES leadership team.

4. Spring Sustainability Plan Revisit – Continued Discussion

Fred Selby introduced attendee Steve Mouras as the new Director of Transportation and also on an interim basis, Director of Sustainability and shared briefly the organizational changes occurring within the Office of Energy and Sustainability. The Committee was informed that Steve agreed to spearhead the next steps efforts in updating the Virginia Tech Climate Action Commitment and Sustainability Plan during the spring semester. Fred presented a listing of the original six Sustainability Plan action categories and their respective subcategories (see “E&SC 112612 Attachment 3 – “VTCAC&SP Action Categories.pptx”) and explained that after seeing how broad and how encompassing the action categories are, he believed that it would be too daunting of a task to try and tackle the whole document in one semester as previously discussed; he suggested instead a pared-down approach be undertaken. John Randolph recommended a small subcommittee be formed to review the Sustainability Plan and its categories/subcategories/actions over the December-January timeframe and recommend to the full Committee a course of action at the January 28, 2013 meeting. Steve Mouras agreed to organize and lead that subcommittee.

New Business

5. Open Discussion

No items were raised for open discussion.

Future Meetings

Dates: The remaining scheduled meeting dates for Academic Year 2012-2013 are as follows:

- January 28, 2013
- February 25, 2013
- March 18, 2013 (Moved up one week due to scheduled BOV meeting on March 25)
- April 29, 2013

Times and Location: All meetings will be held from 2:00 p.m. to 3:00 p.m. in 325 Burruss Hall unless noted above.

Adjourn

The meeting was adjourned.

Virginia Tech Climate Action Commitment Resolution 2012 Review & Recommendations



Energy & Sustainability Subcommittee Presentation
to the Energy & Sustainability Committee
November 26, 2012

Prepared by

Energy & Sustainability Subcommittee:

- **John Beach** – *Director of Utilities & Strategic Initiatives, Facilities Services*
- **Denny Cochrane** – *Sustainability Program Manager, Office of Energy & Sustainability*
- **Angie De Soto** – *Campus Sustainability Planner, Office of Energy & Sustainability*
- **Deborah Freed** – *Alternative Transportation Manager, Transportation & Campus Services*
- **Bruce Ferguson** – *New Construction Project Manager, University Design & Construction*
- **Lauren Grimes** – *Water Resources Engineer, Site & Infrastructure Development*
- **Alyssa Halle** – *Graduate Assistant, Office of Energy & Sustainability*
- **Bill Hess** – *Associate Director, Dining Services*
- **Leigh LaClair** – *Deputy Chief Facilities Offices, Facilities Services*
- **Rob Lowe** – *Environmental Engineer, Environmental Health & Safety*
- **Byron Nichols** – *Associate Director, Steam Plant Operations*
- **Anthony Purcell** – *Assistant Director, Dining Services*
- **John Randolph** – *Professor, Urban Affairs & Planning*
- **Georg Reichard** – *Associate Professor, Building Construction*
- **Fred Selby** – *Energy & Sustainability Manager, Office of Energy & Sustainability*
- **Mary Seyler** – *Buyer Senior, Purchasing Department*
- **Savita Sharma** – *Interim Assistant to the Vice President for Finance*
- **Rial Tombes** – *Sustainability Coordinator, Dining Services*

VTCAC&SP Overview

- The **Virginia Tech Climate Action Commitment Resolution** (VTCAC) is a 14-point university policy
- The **Sustainability Plan** (SP) is a working document that provides actions and measures to direct the university toward achieving the goals and targets in the VTCAC Resolution
- The Sustainability Plan is divided into three implementation phases:
 - “Immediate Phase” 2009-2012
 - “Midterm Phase” 2013-2025
 - “Long Term Phase” 2026-2050

VTCAC&SP Overview

- The university is now at the end of the “Immediate Phase” and entering the “Midterm Phase”
- The Energy & Sustainability Committee established a subcommittee to:
 - Review the language in the VTCAC Resolution and recommend changes, if needed
 - Review the status of the VTCAC&SP and recommend “next steps” for updating the Sustainability Plan

VTCAC Resolution Review & Approval Process

- Changes to the VTCAC Resolution must be reviewed and approved by the following:
 - **Energy & Sustainability Committee: Initial Review**
 - November 26, 2012
 - **VPAS & Legal Counsel**
 - December 2012 – January 2013
 - **Energy & Sustainability Committee: Final Review**
 - January 28, 2013

VTCAC Resolution Review & Approval Process

- Pending VPAS & Legal Counsel review, the changes to the VTCAC Resolution may need to be reviewed and approved by the following:
 - **Commission on University Support & other related commissions**
 - February – March 2013
 - First and second readings
 - **University Council**
 - April 2013
 - First and second readings
 - **Virginia Tech Board of Visitors**
 - June 2-3, 2013

VTCAC Resolution #1

- **Existing Language:**

- *Virginia Tech will be a Leader in Campus Sustainability.*

- **Recommended Changes:**

- *Virginia Tech will be a Leader in Campus Sustainability. Sustainability is an integral part of the fabric of the university as it pursues economic stability and affordability, social diversity and inclusion, environmental stewardship, expansion of knowledge, and education of future leaders.*

- **Rationale for Recommended Changes:**

- Addition of the new Virginia Tech sustainability vision to clarify what it means to “be a leader in campus sustainability.”

VTCAC Resolution #2

- **Existing Language:**

- *The university will represent the VTCAC&SP in the Virginia Tech Strategic Plan.*

- **Recommended Changes:**

- *Virginia Tech will represent the VTCAC&SP in the **university** Strategic Plan.*

- **Rationale for Recommended Changes:**

- Minor change in wording from "the university" to "Virginia Tech" for consistency with all Resolutions.

VTACAC Resolution #3

- **Existing Language:**

- *Virginia Tech will establish a target for reduction of campus GHG* emissions to 80% below 1990 emission level by 2050, and interim targets from 2006 emissions of 316,000 tons: ~~consistent with the Virginia Energy Plan, the Governor's Commission on Climate Change, the Town of Blacksburg, and the federal administration:~~ for 2012, 295,000 tons (on path to 2025 target); for 2025, 255,000 tons (2000 emission level); and for 2050, 38,000 tons (80% below 1990 emission level).*

- **Recommended Changes:**

- *Virginia Tech will establish a target for reduction of campus GHG emissions to 80% below 1990 emission level **of 188,000 tons** by 2050, and interim targets from 2006 emissions of 316,000 tons for 2012, 295,000 tons (on path to 2025 target); for 2025, 255,000 tons (2000 emission level); and for 2050, 38,000 tons (80% below 1990 emission level).*

- **Rationale for Recommended Changes:**

- Minor language changes to add the 1990 emission level and to remove references to programs that no longer exist.

* GHG – Greenhouse gas

VTCAC Resolution #4

- **Existing Language:**
 - *Virginia Tech will work toward these emission reduction targets through improved energy efficiency, reduction of energy waste, replacement of high-carbon fuels, and other measures identified in the VTCAC&SP.*
- **Recommended Changes:**
 - None

VTCAC Resolution #5

- **Existing Language:**

- *Virginia Tech will establish an Office of Sustainability to*
 - a. Coordinate programs for campus sustainability,*
 - b. Oversee implementation of the VTCAC&SP,*
 - c. Monitor annual electricity and other energy use and GHG emissions, and*
 - d. Working with faculty and departments, manage a campus-wide student internship and undergraduate research program using the campus as a sustainability laboratory*

VTAC Resolution #5 Cont'd.

- **Recommended Language Changes:**
 - *Virginia Tech will establish a **sustainability office** to:*
 - a. Coordinate programs for campus sustainability,*
 - b. Oversee implementation of the VTAC&SP,*
 - c. Monitor annual electricity and other energy use and GHG emissions,*
 - d. Working with faculty and departments, manage a campus-wide student internship and undergraduate research program using the campus as a sustainability laboratory, and*
 - e. **Coordinate communication regarding campus sustainability initiatives and programs to the university community and external audiences.***

VTAC Resolution #5 Cont'd.

- **Rationale for Recommended Changes:**

- Minor change of the wording "Office of Sustainability" to "sustainability office."
 - The goal is to keep the Resolution language general in nature to allow for unforeseen changes in the future. For example, the name of the original "Office of Sustainability" has already been changed to the "Office of Energy and Sustainability."
- Addition of 5.e to include communicating sustainability initiatives to the university community and external audiences.
 - This is already a major effort of the Office of Energy and Sustainability through programs such as AASHE STARS, The Princeton Review, and internal sources such as VT News articles and outreach. This should be a stated objective to reflect existing practices and further emphasize the importance of communicating sustainability initiatives.

VTCAC Resolution #6

- **Existing Language:**

- *Virginia Tech will pursue LEED* Silver certification or better and exceed ASHRAE* 90.1 2004 energy performance by 35% (ASHRAE 90.1 2007 by 30%) for all new buildings and major renovations. Capital budgets should account for future energy price, cost of building operation, return on investment, and environmental benefits of achieving this level of performance.*

- **Recommended Language Changes:**

- *Virginia Tech will improve the sustainability of its built environment by:*
 - a) Achieving LEED Silver certification or better for all eligible and applicable new buildings and major renovations.*
 - b) Pursuing LEED for Existing Buildings certification for its existing buildings.*

* LEED – Leadership in Energy and Environmental Design

* ASHRAE – American Society of Heating, Refrigerating, and Air Conditioning Engineers

VTCAC Resolution #6 Cont'd.

- **Rationale for Recommended Changes:**

- Relocated information regarding ASHRAE* to Resolution #7 with the intent of strengthening LEED* focus in #6 and campus energy focus in #7.
- Although the university has met its objectives on the LEED portion of Resolution #6, it has not been exceeding ASHRAE 90.1 by the 30-35% range indicated (LEED silver certification has been readily achieved without pursuing LEED's energy efficiency measures).
- Separation of Resolution into 6.a. to target new construction and 6.b. to target existing buildings.
- Addition of language addressing "LEED for Existing Buildings" to address LEED requirement to re-certify LEED buildings originally constructed under "LEED for New Construction" as "LEED for Existing Buildings" after five years in operation. Adding a "LEED for Existing Buildings" focus will ensure continued sustainability of recently-constructed and pre-LEED buildings.

* LEED – Leadership in Energy and Environmental Design

* ASHRAE – American Society of Heating, Refrigerating, and Air Conditioning Engineers

VTCAC Resolution #7

- **Existing Language:**

- *Virginia Tech will improve electricity and heating efficiency of campus facilities and their operations, including the heating and cooling infrastructure and operation, lighting efficiency, controls and operation, and equipment efficiency and controls.*

- **Recommended Language Changes:**

- *Virginia Tech will improve electricity and heating efficiency of campus facilities and their operations by:*
 - a. Exceeding the most current version of ASHRAE 90.1 energy performance by 20% for all new buildings and major renovations. Capital budgets should account for future energy price, life cycle cost of building operation, and environmental benefits of achieving this level of performance.*
 - b. Improving the heating and cooling infrastructure and operation, lighting efficiency, equipment efficiency, and metering and controls of its existing buildings.*

* ASHRAE – American Society of Heating, Refrigerating, and Air Conditioning Engineers

VTAC Resolution #7 Cont'd.

- **Rationale for Recommended Changes:**
 - Information regarding ASHRAE* from Resolution #6 was relocated to Resolution #7.
 - “ASHRAE 90.1 2004” reference was changed to “the most current version of ASHRAE 90.1” due to periodic revising of the standard.
 - Past LEED buildings have used the best “state of the shelf technology,” which exceeds ASHRAE 90.1 in the range of 10-15%. To reach 30-35%, the university would have to switch to “state of the art technology” which will require university cultural and financial changes.
 - A reduced percentage of exceeding ASHRAE 90.1 by 20% is felt to be aggressive, yet attainable.

* ASHRAE – American Society of Heating, Refrigerating, and Air Conditioning Engineers

VTCAC Resolution #8

- **Existing Language:**

- *The university will adopt at least 4 reduction measures in the Waste Minimization component of the national RecycleMania competition. Virginia Tech Recycling will adopt a goal of 35% recycle rate by 2012 and 50% by 2025.*

- **Recommended Language Changes:**

- *Virginia Tech will minimize waste and achieve a 50% recycle rate by 2020.*

VTAC Resolution #8 Cont'd.

- **Rationale for Recommended Changes:**
 - Virginia Tech has consistently exceeded both the four waste reduction measures for RecycleMania, as well as the 35% recycle rate goal, since 2009.
 - The information regarding RecycleMania was moved from the Resolution to an action/measure in the Sustainability Plan because it is a specific program that may change over time.
 - Using the Commonwealth of Virginia Department of Environmental Quality Calendar Year Locality Recycling Rate formula, the university achieved recycling rates of 36.5%, 37.5%, and 40.1% for calendar years 2009, 2010, and 2011 respectively.
 - The university is well on track to achieve the proposed rate of 50% by 2020.

VTCAC Resolution #9

- **Existing Language:**

- *Virginia Tech will require purchase of Energy Star rated equipment, maximum practicable recycled-content paper, and other low life-cycle cost products, with exceptions for special uses.*

- **Recommended Language Changes:**

- *Virginia Tech will:*
 - a) Require purchase or **lease** of Energy Star rated equipment and maximum practicable recycled content paper, **in accordance with University Policy 5505.****
 - b) **Consider a product's life cycle cost and impact when making purchasing decisions.***

* University Policy 5505 – Campus Energy, Water, and Waste Reduction Policy

VTAC Resolution #9 Cont'd.

- **Rationale for Recommended Changes:**
 - The resolution was separated out into two components to highlight that 9.a. is mandated through existing Policy 5505 and that 9.b. is recommended.

VTCAC Resolution #10

- **Existing Language:**

- *Virginia Tech will engage students, faculty and staff through education and involvement to reduce consumption of energy, water, and materials in academic and research buildings, dining and residence halls, and other facilities.*

- **Recommended Language Changes:**

- *Virginia Tech will engage students, faculty, and staff through education and involvement **to develop and implement innovative strategies for efficient and sustainable use of energy, water, and materials in all university-owned facilities.***

- **Rationale for Recommended Changes:**

- Minor grammar changes and clarifications to the intent of the existing Resolution.

VTCAC Resolution #11

- **Existing Language:**

- *Virginia Tech will improve transportation energy efficiency on campus through parking, fleet, and alternative transportation policies. ~~Alternative transportation use will increase from the current level of 45%, to a goal of 52% in 2015, and 60% in 2020.~~*

- **Recommended Language Changes:**

- *Virginia Tech will improve transportation energy efficiency on campus through parking, fleet, and alternative transportation policies. **The university will continue to implement programs that encourage the use of alternative transportation method and increase participation in these programs.***

- **Rationale for Recommended Changes:**

- Change in wording to keep the Resolution language more general in nature to allow for possible changes in methodology.

VTCAC Resolution #12

- **Existing Language:**

- *The university will create and support a virtual Virginia Tech School of Sustainability or similar mechanism to coordinate, develop, and communicate related instructional, research, and outreach academic programs.*

- **Recommended Language Changes:**

- *Virginia Tech will continue to develop and implement innovative sustainability-related academic programs in instruction, research, and outreach, and will coordinate and communicate these programs to the university community and external audiences.*

- **Rationale for Recommended Changes:**

- Changes made to emphasize the ongoing efforts of the academic community and the importance of communicating sustainability-related initiatives.
- The "virtual Virginia Tech School of Sustainability" wording was removed since this is no longer being pursued.

VTCAC Resolution #13

- **Existing Language:**

- *The university will monitor energy use and GHG emissions as well as changing internal and external conditions, prepare an annual 'report card' showing progress towards targets, and periodically re-evaluate targets, making adjustments to targets as appropriate based on changing internal and external conditions and evolving technologies.*

- **Recommended Language Changes:**

- *Virginia Tech will monitor energy use and GHG emissions as well as changing internal and external conditions, prepare an annual 'report card' showing progress towards targets, and periodically re-evaluate targets, making adjustments to targets as appropriate based on changing internal and external conditions and evolving technologies.*

- **Rationale for Recommended Changes:**

- Minor change in wording from "the university" to "Virginia Tech" for consistency with all Resolutions.

VTCAC Resolution #14

- **Existing Language:**

- *With regard to all the items in this resolution, major personnel and investment decisions, including capital projects, associated with implementing the VTCAC&SP will be based on a joint review of costs and benefits by university financial and facilities staff and be subject to availability of funds. Virginia Tech will provide funding to support sustainability programs through a variety of sources, which might include savings from reduced electricity and energy fuels, E&G funds, loans, a Green Development Fund from private sources, and a student Green Fee.*

- **Recommended Language Changes:**

- *Virginia Tech will work to provide funding to support sustainability programs.* With regard to all the items in this resolution, major personnel and investment decisions, including capital projects, associated with implementing the VTCAC&SP will be based on a joint review of costs and benefits by university financial and facilities staff and be subject to availability of funds.

VTCCAC Resolution #14 Cont'd.

- **Rationale for Recommended Changes:**
 - Resolution wording was reordered for consistency with all Resolutions.
 - Specific names of potential funding sources were removed to keep the Resolution language more general in nature to allow for unforeseen changes and/or additional funding mechanisms in the future.

Virginia Tech Definition of Sustainability

- **Sustainability Definition:**

- Sustainability is the simultaneous pursuit of social justice and equity, economic prosperity, and environmental quality through action, education, and engagement to address current needs without compromising the capacity and needs of future generations.

- **Sustainability Vision:**

- Virginia Tech serves as a model community for a sustainable society. Sustainability is an integral part of the fabric of the university as it pursues economic stability and affordability, social diversity and inclusion, environmental stewardship, expansion of knowledge, and education of future leaders.

- **Sustainability Mission:**

- The pursuit of sustainability is achieved through Virginia Tech's administration; physical environment and operations; student life and experience; campus culture and behavior; and academic learning, discovery, and engagement.

Recommendations & Next Steps

- **Recommendations:**

- Reorganize the numbering of the Resolutions to group related Resolutions (see following slide)
- Consider expanding the existing categories in the VTCAC&SP to be consistent with the new sustainability definition, vision, and mission.
- Create six or more new subcommittees to review the actions and measures of each category in the existing VTCAC&SP:
 - 1) Administrative Structure & Governance; 2) Facilities Infrastructure; 3) Facilities Operations; 4) Transportation; 5) Behavior and Campus Life; 6) Academic Programs; 7) Others, as needed
 - Each new subcommittee will:
 1. Review and revise the actions and measures in the existing “Immediate Phase” and “Midterm Phase” of the Sustainability Plan.
 2. Recommend a new “Immediate Phase” from 2013-2016 to include actions and measures to direct the university toward achieving the goals and targets in the VTCAC Resolution.

Recommendations & Next Steps

Existing Order	Proposed Order by Topic
1. Leader in Campus Sustainability	1. Leader in Campus Sustainability (existing #1)
2. VTCAC&SP Representation in Strategic Plan	2. VTCAC&SP Representation in Strategic Plan (existing #2)
3. GHG Emission Targets	3. Sustainability Office (revised version of #5)
4. Efficiency/Reductions to Achieve GHG Targets	4. GHG Emission Targets (revised version of #3)
5. Office of Sustainability	5. Efficiency/Reductions to Achieve GHG Targets (revised version of #4)
6. LEED Certification, ASHRAE, & Energy Efficiency	6. Monitoring GHG Emissions (existing #13)
7. Improved Efficiencies	7. LEED Certification (revised version of #6)
8. Recycling & Waste Minimization	8. ASHRAE & Energy Efficiency (revised versions of #6 & 7)
9. Purchasing	9. Recycling & Waste Minimization (revised version of #8)
10. Student, Faculty, & Staff Engagement	10. Purchasing (revised version of #9)
11. Transportation & Alternative Transportation	11. Transportation & Alternative Transportation (revised version of #11)
12. Academic Programs	12. Student, Faculty, & Staff Engagement (revised version of #10)
13. Monitoring GHG Emissions	13. Academic Programs (revised version of #12)
14. Investment	14. Investment (revised version of #14)

Questions?



Sustainability Professionals of Today Internship Program

Developing innovative solutions to our toughest campus sustainability challenges through the education and engagement of our students.



Update Items

- AY 12-13 Project Work Products
- Fall Presentations
- Transition Steps



AY 12-13 Project Work Products

- Sustainable Funding Mechanisms
 - “Menu” tool in partnership with SEI
- Green Purchasing Guide
 - Completed guide + purchasing guidelines
- Sustain Lane Initiative
 - Audit results + Spring timeline



AY 12-13 Project Work Products

- Campus Sustainability Portal
 - Outline of content and design edits to be made
- Residence Hall Education & Engagement
 - Eco-reps program elements “menu”
- Energy Efficiency in the Bookstore
 - Outline of steps for audit + spring timeline



Fall Presentations

- 50 minutes per project
 - 20 minute overview
 - 20 minute activity for fall work product
 - 10 minute closing thoughts + next steps
- Targeted participation – stakeholders
- 12/5/12 - 12/7/12



Transition Steps

- **I am sad to be leaving!**
- Part-time assistance in the spring
- Possible shift in internship program
 - Less projects per year
 - Greater role of Advisory Teams
 - Minimize workshop element



Questions?

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VTCAC&SP Action Categories and Subcategories

Administrative Structure and Governance

(Organization/Staffing/Governance, Funding)

Facilities Infrastructure

- Central Steam and Power Plant and Steam Distribution System
- Virginia Tech Utilities, Virginia Tech Electric Service (VTES)
- The Chiller System
- New and Renovated Buildings
- Existing Buildings
- Campus Planning, Landscape and Grounds

Facilities Operation

- Thermostat Settings, Air Handling, and Chiller System Operation
- Virginia Tech Recycling
- Smart Procurement

Transportation

- Alternative Transportation Program
- Telecommuting and Flexible Work Schedules
- Local and Regional Transit
- Parking Services
- Fleet Services

Behavior and Campus Life

- Student Culture & Engagement
- Faculty & Staff Engagement
- Housing Services and Residence Life
- Dining Services
- University Unions and Student Activities (UUSA)
- The Inn at Virginia Tech & Skelton Conference Center
- Athletic Department

Academic Programs

- Instruction and Learning
- Research and Discovery
- Outreach and Engagement