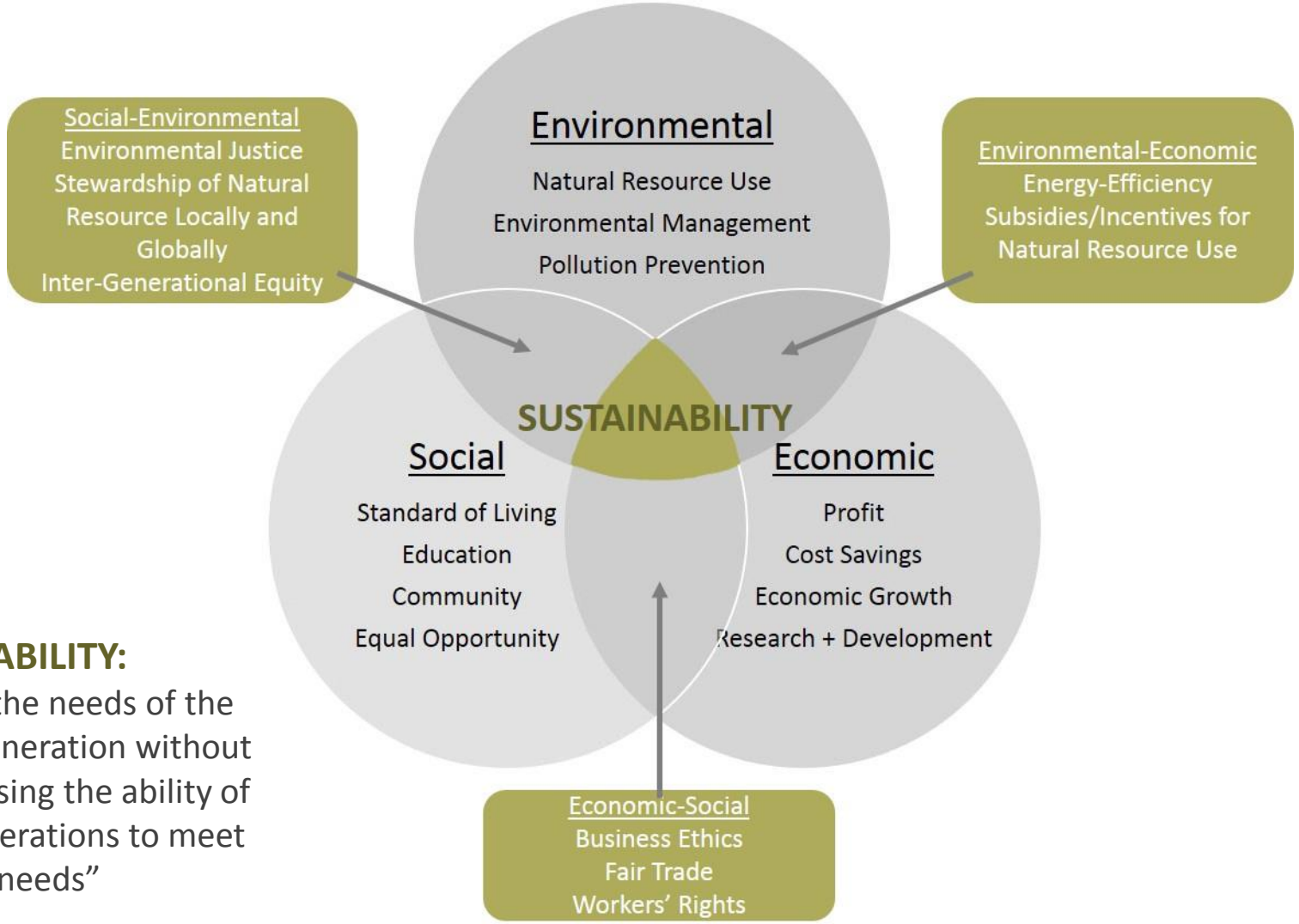
SustainVU

Growing Responsibly

Sustainability at Vanderbilt

The Three Spheres of Sustainability

VANDERBILT UNIVERSITY



SUSTAINABILITY:
"meeting the needs of the present generation without compromising the ability of future generations to meet their own needs"

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SEMO Team

VANDERBILT UNIVERSITY

Andrea George
PhD, CHMM, PMP
Director

Steve Gild
MS, CHMM
EMS Coordinator

Matthew Buckley, MBA
Campus Waste & Recycling Manager

Chelsea Hamilton, LEED-AP
Sustainability Outreach Coordinator

Recycling Technicians
Kyante Ridley
Steven Dismukes
Steve Moore
Dale Jarvis (2nd shift)

Dejan Stjepanovic
Assistant Recycling Coordinator

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How does SEMO help VU become more sustainable?

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SEMO Activities:

- Directly manage campus solid waste and recycling programs
- Implement environmental behavior change awareness and educational programs for VU students, staff, and faculty in the areas of energy, water, procurement, operations, and transportation
- Produce annual greenhouse gas inventory report
- Respond to data inquiries and green ratings/scoring surveys
- Manage Environmental Advisory Committee
- Manages VU Green Fund process
- Provides general sustainability outreach through website, Facebook, newsletter, Instagram, and articles

In addition to Plant Ops, SEMO collaborates with:

- Campus Planning and Construction
- VUMC Facilities and Construction
- Procurement Services (green purchasing initiatives and RFP/contract review)
- VU Printing Services/Creative Services (green printing initiatives and FSC certification)
- Faculty groups (Center for Teaching, VIEE, CCRN, AM Studies)
- Frequent requests for tours and as guest speakers in classes and for student mentoring projects
- Student groups (SPEAR, AEC, OGSM, VGI, VIVA, Kefi) on green projects and events
- Administrative offices (HR, Commencement, Peabody, etc.)
- Athletics (greening operations and large events on campus)

Why Should You Care?

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1. Financial Responsibility to the University
   - Saves money that can be spent on our core mission.
   - Sustainable practices extend the life of buildings on campus.

2. Responsibility to Students, Faculty and Staff
   - If they care, and the Chancellor cares, then we should care!
   - Improve health through reduced pollution.
   - Building and maintaining a more efficient, greener University is a positive for everyone involved.

3. Responsibility to the Environment
   - Saving and extending the life of finite natural resources.

What You Can Do

What YOU can do?

REDUCE the amount of materials your office consumes:

- Change copiers and printers to default to double-sided settings and program sleep modes.
- Use file sharing software and manage documents electronically whenever possible.

REUSE

-Buy paper, office products, toner cartridges, and furniture with recycled content RECYCLE electronics, cardboard, paper, plastic, aluminum, and toner cartridges.

CONSERVE ENERGY

- Ask staff and students to turn off lights and computers when not in use. Use natural lighting
- Stress importance to lab staff of closing fume hood sashes when not in use.
- Moderate area temperatures to 75-78 deg F in summer and 65-68 deg F in winter.

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Chancellor's Initiatives

Energy & Environment

The conservation of the environment and energy are the focus of a number of campaigns at the university. The Think One energy conservation education campaign educated the Vanderbilt community about individual action each person can take to help reduce power usage. Recycling of paper, plastic, and containers have been provided for commencement and athletic events. Campus Planning is committed to green building efforts and plans are currently underway to refit some older buildings on campus to make them greener. In addition to offering free rides to work on MTA busses and discounted tickets o the commuter railway, a special matching software program enables Vanderbilt employees to find carpool and vanpool ride matches.

As stated at http://www.vanderbilt.edu/chancellor/initiatives/

SEMO facilitated formation of the Vanderbilt University Environmental Commitment Statement

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Vanderbilt University is a local and global community leader committed to environmental stewardship, protecting natural resources, and enhancing quality of life while maintaining academic, medical, social, and economic productivity. Through proactive education, research, and outreach, we strive to:

- Develop and transfer knowledge, increase awareness, and promote lifelong learning about sustainability best practices for the benefit of stakeholders who comprise the Vanderbilt community (students, patients, faculty, staff, alumni, and visitors), as well as the broader Nashville, state, national, and global communities;

- Achieve the highest standards of sustainability through a process of environmental responsibility and accountability at every level of University activity; and

- Consistently implement, monitor, evaluate, and improve our process.

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Reduce, Reuse, Recycle Makes Sense

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COMPOSTING

Approximately 9,000 cubic feet of landscaping/leaf waste is composted annually by Grounds!

VANDY RECYCLES

- Paper
- Cardboard
- Aluminum
- Plastic
- Scrap metal
- Electronics/Computers
- Fluorescent Light Bulbs
- Batteries
- Glass
- Ink/Toner Cartridges
- Pens/Mechanical Pencils

Recyclables diverted from landfill!

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Plant Operations is a Regional Leader in Recycling

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Vanderbilt University
2015 Recycling Benefits

In 2015 Vanderbilt University recycled 4,244 tons of aluminum, cardboard, paper, scrap metal, plastic, glass, fluorescent, electronics, and toner cartridges and composted 98 tons of organics for a total of 8.7 million pounds of material, up 14.5% from the year before. As one of Vanderbilt's recycling partners, Waste Management was responsible for over 3.5 million pounds of

These recycling efforts conserved the following resources:

77,657 Mature Trees were Saved
Representing enough saved timber resources to produce more than 962,175,100 sheets of newspaper!

14,991 Cubic Yards of Landfill Airspace
Representing enough airsspace to fulfill the municipal waste disposal needs for 19,252 people for one year!

17,911,345 Kw-Hrs of Electricity from Recycling
Enough power to fulfill the annual electricity needs of more than 1,492 homes!

9,166 Barrels of Oil
Representing enough energy to heat and cool more than 1,906 homes for one year!

Avoided 14,098 Metric Tons (MTCO2E) of GHG Emissions
The recycling of these materials prevented these GHG emissions!

26,667,900 Gallons of Water
Representing enough fresh water to meet the daily fresh water needs of more than 355,572 people!

Vanderbilt University chosen in 2014 as TN Recycler of the Year by the Tennessee Recycling Coalition!

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Campus Recycling

Over 2,100 recycling containers on VU main campus

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Student-Powered Recycling

- Nine student workers service all residence hall recycling, 7 days a week.
- Supervised by Dejan Stjepanovic in SEMO.
- Students groups like SPEAR and WilSkills also aid in specialized recycling efforts like Rites of Spring and Athletics Recycling.

- Residence Hall Recycling
- Athletics Recycling
- Rites of Spring Recycling

Rites of Spring
MUSIC FEST
@RITESATVANDY
#RITES15

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Student-Powered Recycling

Award-winning student recycling education as created by students

https://www.youtube.com/watch?v=I6QDS5mnWPM

https://www.youtube.com/watch?v=zBn43D_U81I

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Move In and Move Out Recycling

- Cardboard Crew/Move-In
- Earth Friendly Move Out

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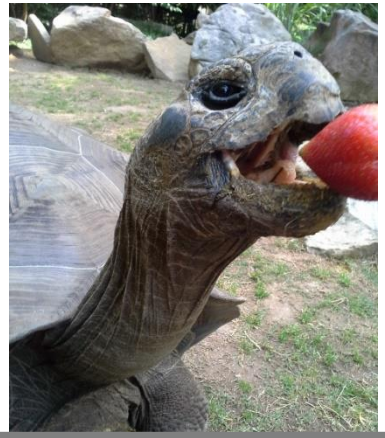
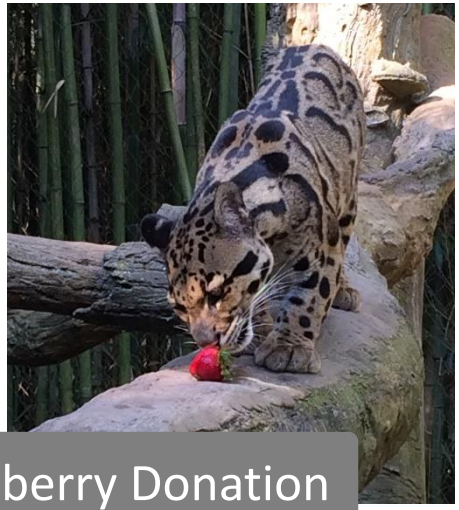
Special Event Recycling





Commencement Recycling & Strawberry Donation

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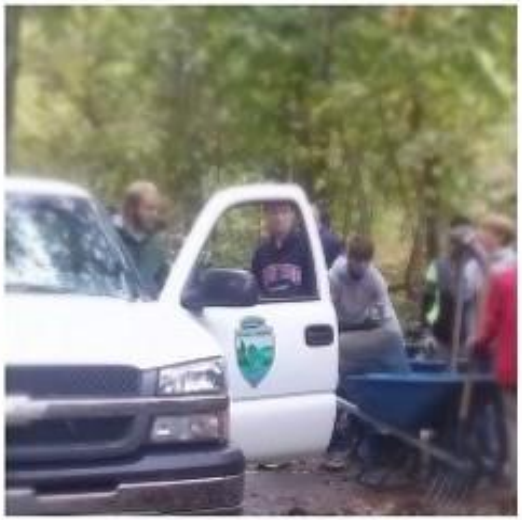
Reusing instead of Recycling!



- Mulch Donation to Radnor Lake
- Bicycle Donation to Edgehill Bike Club for kids

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Specialized Recycling

- Metal Recycling
- Computer/E-waste Recycling

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Metro Cardboard Ban and Cardboard Recycling

PLEASE HELP US RECYCLE CARDBOARD!

In July 2013, Metro Nashville banned cardboard from being placed in trash containers. Your help in complying with this new requirement is greatly appreciated!

Flatten cardboard and place it in the proper recycling location for your building, as shown below.

Near Recycling Bins

At Loading Dock

Cardboard Compactors at Commons Center, Rand, and College Halls

Cardboard Dumpsters at Branscomb, Carmichael Towers West, McGugin, & Chestnut

Please do not place cardboard in the trash.

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If you need assistance, please contact the Sustainability and Environmental Management Office (SEMO) at 343-2784 or recycle@vanderbilt.edu.

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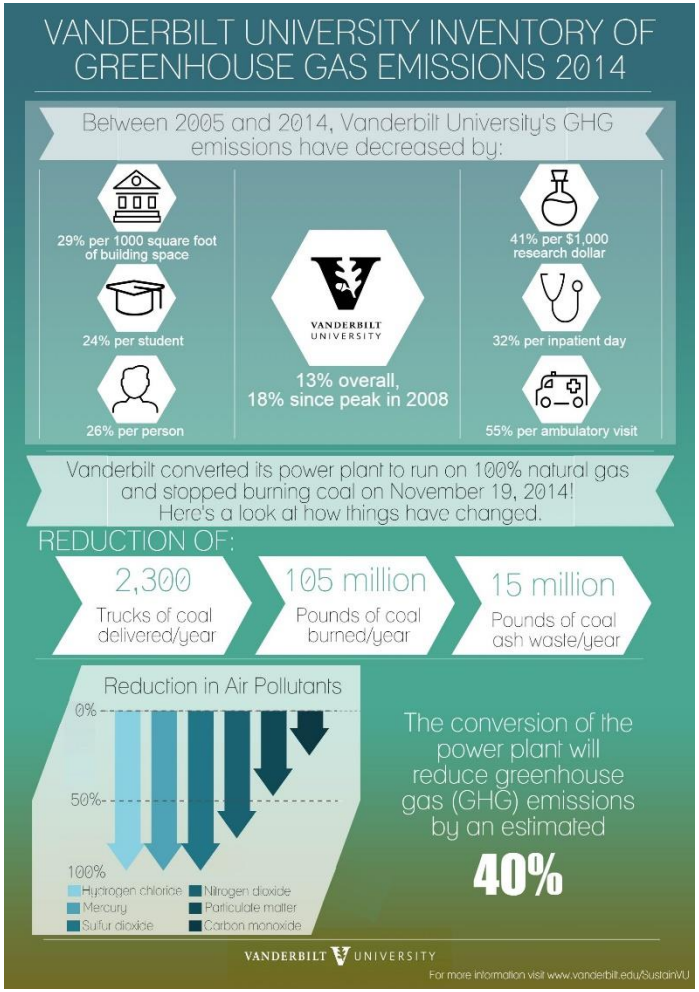
Vanderbilt is now coal free!



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Water Conservation Efforts

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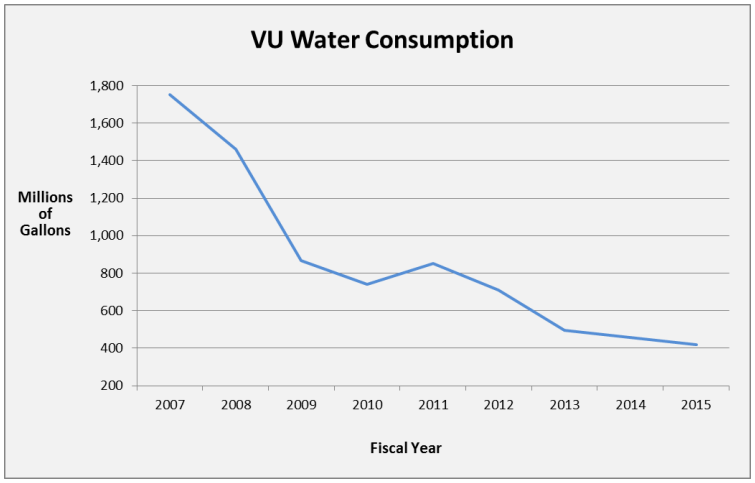
Energy is used to pump and heat water throughout campus.

Water saved = energy saved!

Plumbing retrofits completed to over 3,500 water-saving bathroom fixtures, including 820 low-flow showerheads, conserving over 60 million gallons of water and saving over **$300,000 each year.**

Waterfree Urinals

1.5 gpm pressure-compensated low-flow showerheads



Low-Flow, Dual-Flush Toilets

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Energy Efficiency in New Construction and Major Renovations through LEED Certification

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2008 and 2009 Governor's Environmental Stewardship Award winner and 2010 recipient of two "Excellence in Development" Awards from the Urban Land Institute

U.S. GREEN BUILDING COUNCIL USGBC

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Green Cleaning

Plant Ops uses:

- Green Seal Certified Chemicals
- J-Fill Dilution Systems
- Walk-off mats to keep interiors clean
- Paper products with recycled content

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The SustainVU Website

www.vanderbilt.edu/SustainVU

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SEMO's ThinkOne Website & Behavior Change

www.Vanderbilt.edu/SustainVU/ThinkOne

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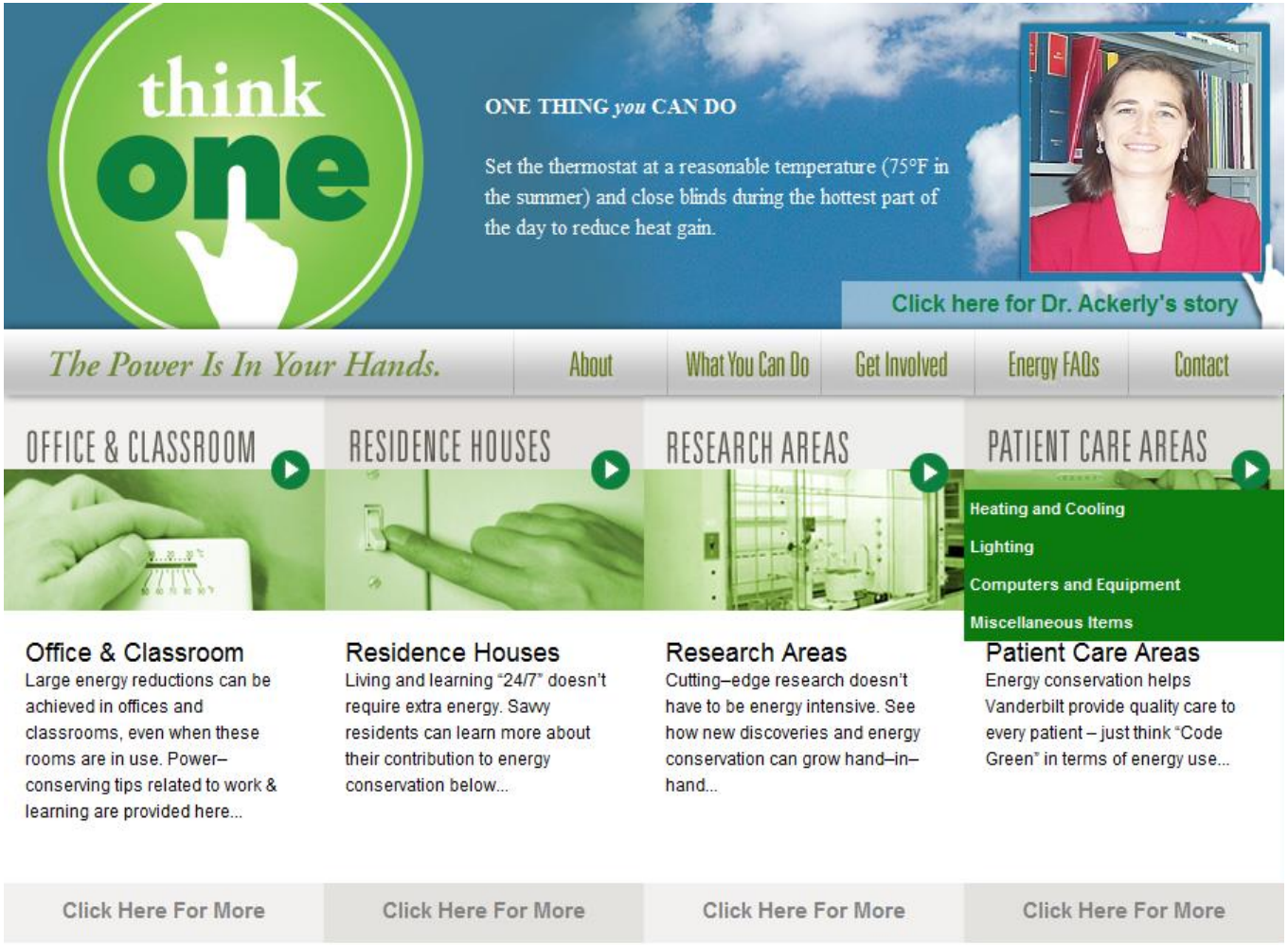

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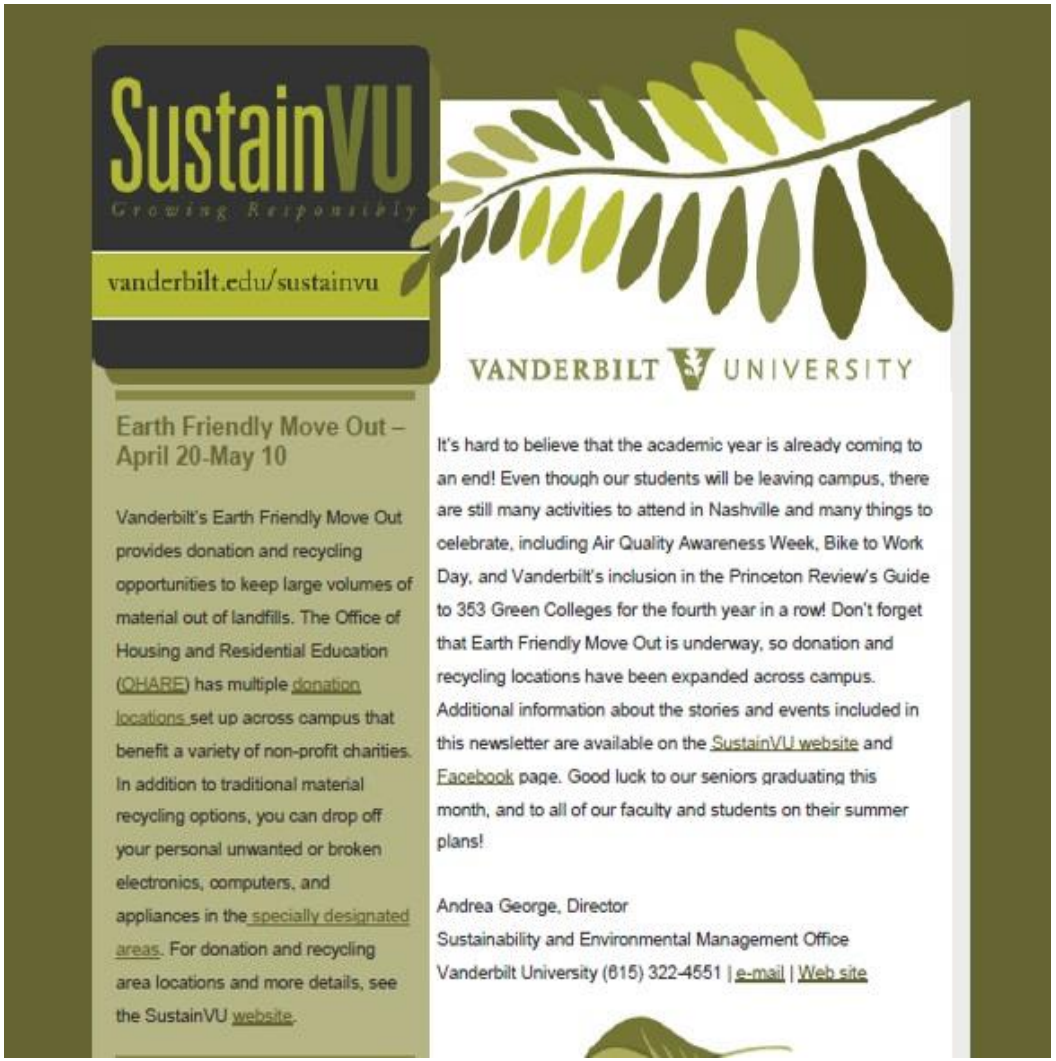
Monthly Email Newsletter



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vanderbilt.edu/sustainvu

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Earth Friendly Move Out – April 20-May 10

Vanderbilt's Earth Friendly Move Out provides donation and recycling opportunities to keep large volumes of material out of landfills. The Office of Housing and Residential Education (OHARE) has multiple donation locations set up across campus that benefit a variety of non-profit charities. In addition to traditional material recycling options, you can drop off your personal unwanted or broken electronics, computers, and appliances in the specially designated areas. For donation and recycling area locations and more details, see the SustainVU website.

It's hard to believe that the academic year is already coming to an end! Even though our students will be leaving campus, there are still many activities to attend in Nashville and many things to celebrate, including Air Quality Awareness Week, Bike to Work Day, and Vanderbilt's inclusion in the Princeton Review's Guide to 353 Green Colleges for the fourth year in a row! Don't forget that Earth Friendly Move Out is underway, so donation and recycling locations have been expanded across campus. Additional information about the stories and events included in this newsletter are available on the SustainVU website and Facebook page. Good luck to our seniors graduating this month, and to all of our faculty and students on their summer plans!

Andrea George, Director
Sustainability and Environmental Management Office
Vanderbilt University (615) 322-4551 | e-mail | Web site

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Social Media Outreach - Facebook

www.facebook.com/SustainVU

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Social Media Outreach - Instagram

www.Instagram/sustainvuvanderbilt

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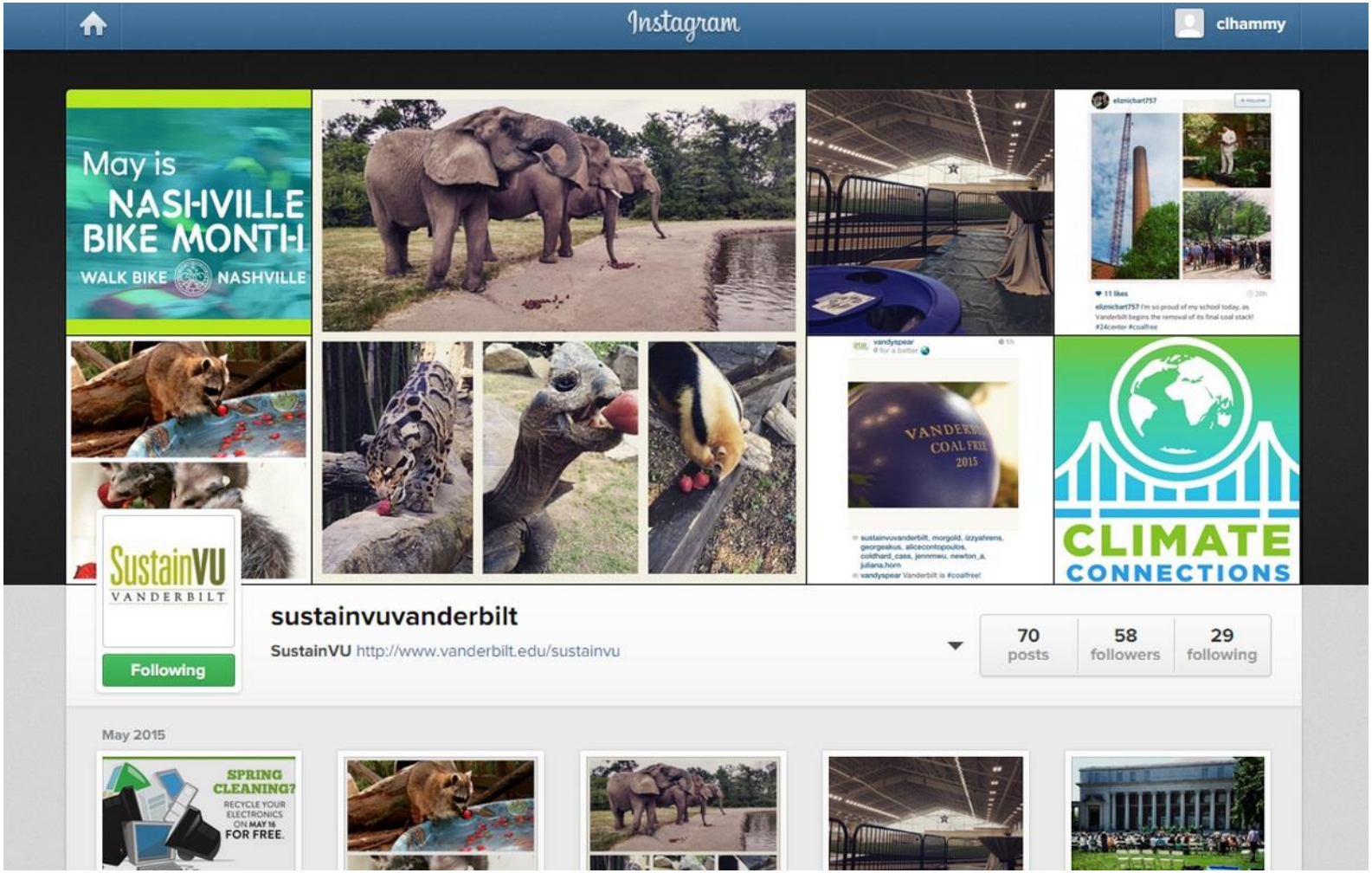

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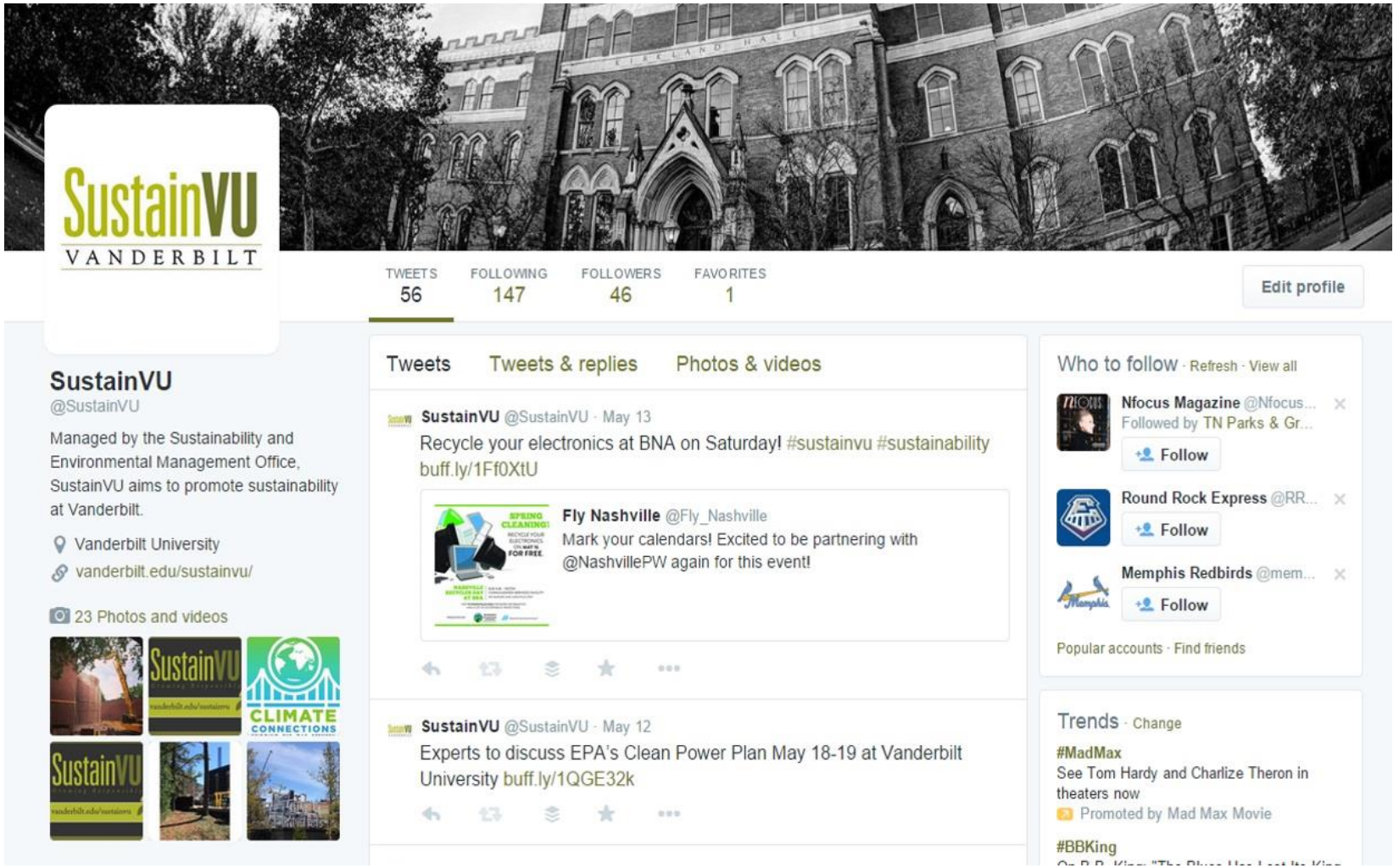
Social Media Outreach - Twitter

www.twitter.com/SustainVU



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Contact Info

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Visit www.vanderbilt.edu/SustainVU.

Email SustainVU@vanderbilt.edu to receive our monthly newsletter.

'Like' the SustainVU Facebook page.

Follow our new Instagram @SustainVUVanderbilt.

Follow SustainVU on Twitter @SustainVU.

Email andrea.george@vanderbilt.edu or call 615-322-4551.

THANK YOU!!!

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