VIRGINIA WESLEYAN UNIVERSITY

CLIMATE ACTION PLAN 2019

VIRGINIA WESLEYAN UNIVERSITY

The Virginia Wesleyan University (VWU) community is dedicated to a greener campus and a greener world. The ongoing sustainability efforts of the University's faculty, staff and students reflect a larger commitment to ethical conduct and social responsibility through environmental stewardship and education. This report summarizes ongoing and planned efforts to reduce campus greenhouse gas emissions and increase campus and community resilience.

1. Strategic Framework

Virginia Wesleyan University (then College), under the leadership of President William Greer, joined the American College & University Presidents' Climate Commitment (ACUPCC), with a pledge to be carbon neutrality by 2050. In 2015, Second Nature rebranded and expanded the ACUPCC to form the Presidents' Climate Leadership Commitments. Virginia Wesleyan University (VWU), under the leadership of President Scott D. Miller, was one of the Charter Signatories of this new Climate Commitment, which integrates carbon neutrality with climate resilience planning.

The sustainability goals outlined in this document build on recent progress in sustainability on campus, including the construction of the Greer Environmental Sciences Center, a LEED Gold certified building for education and research in the environmental sciences and installation of renewable energy technology on campus. In recognition of campus environmental efforts, the Chesapeake Bay Foundation awarded VWU a "Conservationist of the Year" award.

The primary sustainability group on campus is the President's Environmental Issues Council (PEIC), which reports to President Scott Miller, who is also currently Chair of Second Nature's Climate Leadership Steering Committee.

2. Campus Emissions

In 2019, Virginia Wesleyan University committed to carbon neutrality by 2040, moving up the carbon neutrality goal of our last CAP by ten years. We have made significant progress towards that goal, in particular with a significant drop in purchased electricity between 2008 and 2010 (Figure 1, Table 1). Purchased electricity however, remains the largest source of greenhouse gas (GHG) emissions from campus, contributing over 60% of total emissions (Figure 2, Table 2). The next largest source of emissions is student/faculty/staff commuting (~15%), followed by travel financed by the university (~11%) which includes travel for business, athletics, admissions, and study away. Approximately 9% of emissions are from on campus sources, primarily the combustion of natural gas and oil to heat hot water.

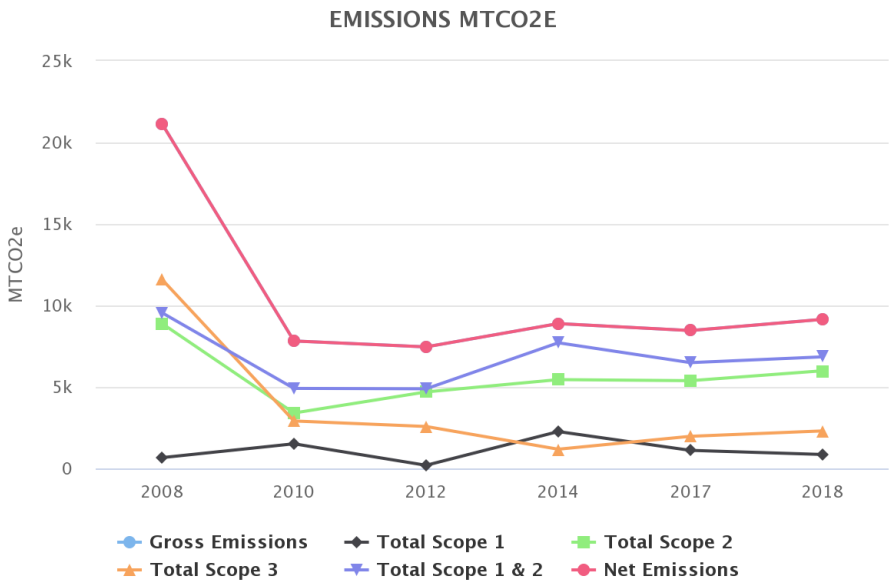

Figure 1. Estimated greenhouse gas emissions from Virginia Wesleyan. Scope 1 = University fleet, oil and natural gas combustion; Scope 2 = Purchased electricity; Scope 3 = Commuting, outsourced travel, air travel, and solid waste.

Table 1. Percent change in greenhouse gas emissions in 2018 vs. baseline year of 2008 and interim emission reduction targets

	TOTAL SCOPE 1	TOTAL SCOPE 2	TOTAL SCOPE 3	TOTAL SCOPE 1 & 2	TOTAL SCOPE 1, 2, & 3	TOTAL NET
CHANGE IN EMISSIONS	↑ 29.49%	↓ 32.69%	↓ 80.19%	↓ 28.40%	↓ 56.80%	↓ 56.80%
PER 1,000 SQ. FT.	↑ 13.24%	↓ 41.14%	↓ 82.68%	↓ 37.39%	↓ 62.23%	↓ 62.23%
PER FULLTIME ENROLLMENT	↓ 3.00%	↓ 49.58%	↓ 85.16%	↓ 46.36%	↓ 67.64%	↓ 67.64%
EMISSION REDUCTION TARGETS	6% by 2010				20% by 2015 35% by 2020 45% by 2025	

Table 2. Summary of estimated greenhouse emissions from Virginia Wesleyan University for the 2018 academic year (July 1, 2017 - June 30, 2018).

Scope	Source	Greenhouse Gas Emissions (Metric Tons of CO_2 Equivalent)
1	Mobile Combustion	41
1	Stationary Combustion	814
2	Purchased Electricity	5,990
3	Air Travel	849
3	Commuting	1,365
3	Waste Generated in Operations	87

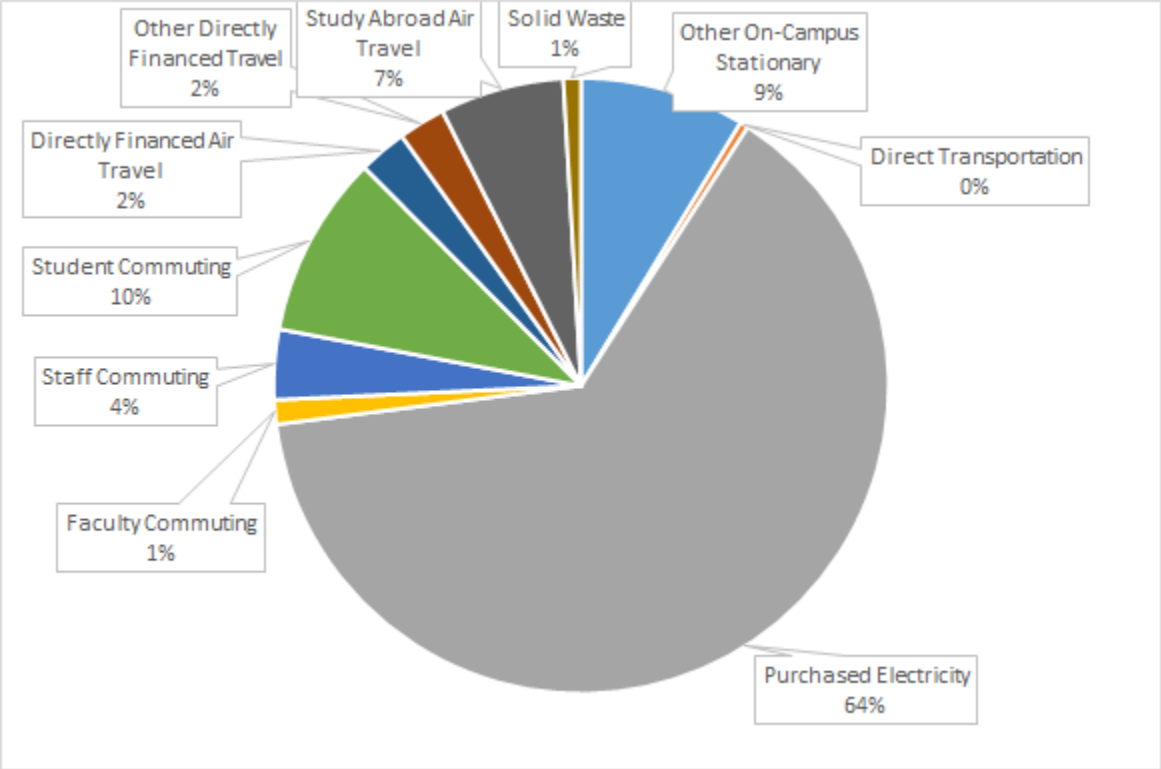

Figure 2. Estimated greenhouse emissions by source from Virginia Wesleyan University for the 2018 academic year (July 1, 2017 - June 30, 2018).

3. Mitigation Strategies

Institutional reductions in greenhouse gas emissions will require 1) reductions in energy use through behavior changes and efficiency improvements, 2) switches to renewable energy sources, and 3) carbon offsets equivalent to any remaining carbon emissions. The PEIC surveyed members of the President's Cabinet and heads of important university departments to determine recent and planned sustainability strategies, which are summarized below.

A. Campus Facilities and Campus Power Generation

Virginia Wesleyan University has recently installed renewable energy generation on campus and increased energy efficiency in campus facilities. Recent efforts in the areas of facilities and energy include:

- The Greer Environmental Sciences Center (GESC) opened in 2017 and earned LEED Gold Certification.
    - The facility includes solar PV panels and geothermal wells to partially offset building energy use.
    - Energy reduction features include an enthalpy wheel, a white roof, increased wall and window insulation, and energy efficient lighting.
    - Solar charging stations and a stationary bicycle charging station have been installed in the building.
    - In 2018, a solar SmartFlower was installed on campus near the Greer Environmental Sciences Center.
    - The GESC photocopier/printer only uses 100% recycled content paper.
    - Renewable Energy Certificates (RECs) were purchased during the first two years of building operation equivalent to 579 MWh.
- Backup power generators were installed in Batten Student Center, Blocker Hall, the Pump Station, Greer Environmental Science Center, and Hofheimer Library.
- Regular light bulbs were replaced with LED lights in approximately 55% of the campus.
- VWU partners with Dominion Energy to reduce electricity use during the summer. In August 2018, we shed over 710 kWh of electricity.
- A new private-public partnership will build apartments in a mixed-use development adjacent to campus. This will allow commuter students to live close to campus, reducing commuter miles for students. A walking/biking path was constructed from campus to the development. Construction is scheduled to begin at the end of the academic year.

To meet our carbon neutrality goals, VWU will need to increase on campus renewable energy generation, and/or purchase electricity generated from renewables.

- In 2018, a solar siting analysis was conducted for campus through a Virginia Foundation for Independent Colleges initiative.
    - Our campus-wide Max PV Capacity is 4,106 kW-DC (4.1 MW-DC) and estimated annual energy output is 5,543,622 kWh, or approximately half of our current purchased electricity.

    - The siting analysis recommended the addition of solar panels on six buildings, as well as installing solar carports over multiple parking areas.

Future plans also include:

- Change the remaining campus lights, approximately 45%, to LED.
- Improve temperature control systems for older buildings.
- Upgrade older HVAC systems.

B. Residence Life

As a primarily residential university, dormitories contribute a substantial amount of our GHG emissions. Recent sustainability initiatives include

- Sustainability education and tips displayed on residence hall bulletin boards.
- Improved water efficiency as with recent residence hall restrooms upgrades.

Proposed initiatives for the residence halls include

- RA educational programing on sustainability in residence halls.
- Continued upgrades to residence hall restrooms to improve water efficiency.
- A “dump and run” will be organized for the end of the academic year in which the Wesleyan Engaged staff collect discarded items that students no longer need but can be reused.
- Evaluation of placement and number of recycling containers in residence halls.

C. Dining Services

Sodexo provides dining services on campus and has a strong interest in sustainability. Recent sustainability achievements include

- Working with Sodexo, VWU eliminated Styrofoam to-go containers, replacing them with reusable boxes.
- Student Affairs purchased enough reusable containers for the entire first year class in 2016 to launch the program.
- Additionally, Sodexo and Student Affairs eliminated plastic straws and are considering purchasing reusable branded VWU straws for giving to students.
- Our dining services are Sensible Seafood Program Partners with the Virginia Aquarium.

D. Physical Plant

In addition to the improvements to campus facilities and energy generation listed above, the Physical Plant has been an active partner in sustainability and resilience planning on campus. The physical plant has recently implemented the following sustainability initiatives, which have increased awareness of sustainability on campus.

- Purchased three bicycles for maintenance staff to ride to reduce use of golf carts.
- Increased Terracycle bins in the Batten Student Center and Hofheimer Library. These include recycling options for oral care products, foil lined wrappers, ink jet cartridges, cell phones and batteries.

- All paints used on campus are now low VOC.
- Four 8-yard Recycle Containers are installed at the Physical Plant, Batten Student Center, Brock Village, and Honors Village.
- In conjunction with the President's Environmental Issues Council, the Physical Plant staff organized the first Earth Week celebration on campus that included many campus organizations and clubs. The focus was on environmental stewardship and educating students about upcycling and waste reduction, and included several speakers to talk about sustainability solutions, a green fair, street cleanups, and other activities focused on VWU's green initiatives and goal of being a sustainable and carbon neutral campus.
- Sponsored a Green Jobs Fair during Earth Week 2019.
- Contributed data required for campus greenhouse gas emissions inventories.

Future plans include:

- Outfitting the rest of the campus with bottle-refill stations.
- Implementing efficiency retrofits of existing buildings.
- Adding electric car re-charging stations.
- Installing motion-sensor lighting wherever feasible.
- Installing new energy metering equipment on campus buildings.

E. Office of Finance

The Office of Finance has implemented many new policies over the last few years to aid the campus in becoming more sustainable. One of the biggest undertakings has been the reduction in the number of printed materials and/or mailings. The Office of Finance and Administration:

- Moved employment paperwork for students and employees to being online with the exception of federal forms.
- Paychecks for staff are directly deposited and departments are being asked to encourage students to have their checks directly deposited.
- Students are encouraged to pick-up their 1098T forms prior to being mailed. Faculty, staff, and students are encouraged to pick up their W2s prior to them being mailed. Student billing statements have been moved from being mailed out on paper to being housed in the Portal on the VWU website.

The office has also adopted the following policies as part of its sustainable purchasing policy guide:

- Purchase equipment that is Energy Star-rated (or, if there is no Energy Star rating, equipment that is highly energy efficient). Energy Star is a program helping businesses and individuals protect the environment through superior energy efficiency.
- Purchase products that are shipped in containers that are returnable or reusable and made from recycled content (i.e. cardboard boxes). Request bulk packaging when multiple items are ordered for delivery at the same time.

- Purchase products made with recycled content suitable for the intended use. Look for a high percentage of post-consumer content. 'Post-consumer' is material that has served its intended purpose and has been discarded for disposal or recovery by a business or consumer. Other recycled content includes post-industrial wastes, which are by-products of a manufacturing process that would normally not be reused in the process.
- Environmental performance of the supplier and/or producer should also be considered, such as waste prevention, waste reduction, pollution prevention, clean air and water programs, re-use of materials, minimization of scrap material, and any other green factory initiatives, etc.
  The office is also considering adopting a policy of carpooling in a university vehicle to conferences within the state.

F. Athletics

The Athletic Department has made sustainability a priority by instituting several changes in the last few years including:

- Prohibiting charter buses from idling while parked on campus.
- Traveling on the smallest size vehicle possible on road trips.
- Reducing the number of pieces mailed to prospective students.
- Reducing the number of paper game-day programs provided to spectators.
- Minimizing the number of paper copies distributed.
- Providing recycling containers around offices.
- Packaging "to go" meals from dining services in bulk.
- Scheduling stadium lighting online and for the lowest number of hours possible.

Planned sustainability initiatives in the Athletics Department (with a planned time frame) include:

- Eliminating multiple small printers.
- Increasing the number of recycling containers at sporting venues (1 yr).
- Adjusting competition schedules to reduce travel dates/trips (3-5 yrs).
- Installing motion detectors light switches in locker rooms (1-2 yrs).

G. Information Technology Services

The office of Information Technology Services has focused on reducing energy and toner use from campus printing. Current efforts by the office include:

- Encourage the use of networked Konica Minolta printers on campus to track print usage.
- Bizhub Konica is contracted for both recycling of printer cartridges and replacement of printer cartridges on campus.
- Inkjet printer use is discouraged and IT actually advises against their use not only due to maintenance issues (they can rarely be fixed and end up in a landfill) but also the fact that IT does not recycle inkjet cartridges in a campus-wide program like we do for our Konica printers. The larger Konica printers are also more

efficient and lower in cost to use. The Library (24 hr study area) and the Wesleyan Engaged office both collect and recycle inkjet cartridges but this is a voluntary recycling effort.
- Many campus printers default to two-sided copying as the default settings.
- Copy to scan, or print to scan jobs are not charged a fee on the Konica because no toner use is involved as the image is sent to an email account.

The office is evaluating best practices from other universities that can further reduce our campus plug load.

H. Enrollment Services

Enrollment Services has made substantial reductions in carbon emissions and the use of paper in the past two academic years.

- In academic year 2017/18, the recruitment travel budget was reduced by 75%, which reduced the miles traveled for recruiting.
- Viewbook paper was significantly reduced:
    - In academic year 2015/16, 15,000 9x11-inch 32 page viewbooks were sent to prospective students.
    - In academic year 2017/18, 15,000 5.5x8.5-inch 10 page viewbooks were sent to prospective students.
- During the same period, paper, printing, and postage was eliminated on two recruiting tools: the athletics brochure and the financial aid brochure.

Enrollment services has committed to pursuing strategies to further reduce counselor travel and paper brochures (size and frequency of mailings).

4. Resilience Strategy

Proximity to the Chesapeake Bay and Atlantic Ocean brings many benefits to our community, but also makes us vulnerable to sea-level rise and tropical storms. The University's leadership has recognized the need for comprehensive community resilience planning to prepare for climate-related threats. In the spring of 2017, VWU, Second Nature, and The Nature Conservancy formed a partnership that focused on increasing awareness of risks from natural and climate-related hazards. In October 2017, a campus-based core team organized and facilitated a Community Resilience Building Workshop with help from the Nature Conservancy. The core directive of this effort was the engagement with and between community stakeholders in order to facilitate the education, planning and ultimately implementation of priority adaptation actions. The workshop led to the development of several resilience indicators, shown in Appendix 1. Specific goals were developed for four of these indicators (Table 3).

Table 3. Resilience strategies, goals, and implementation plans.

Resilience Strategy	**Short Term Goal (2024)**	**Midterm goal (2029)**	**Long term Goal (2034)**
1) Protect and Increase Natural Land	Campus policy to replant on campus forest acreage equivalent to that lost by development	Permanent preservation of the campus beech forest	Increase in the quantity and quality of forest and/or wetlands on campus
	The PEIC will advocate for an increase in natural campus habitats such as forest and wetland. The PEIC, in consultation with the Norfolk Botanical Gardens, will determine what regular forest management practices are needed to keep the campus forests healthy. The student club, Marlins Go Green, will be encouraged to continue to host invasive species removal volunteer events.		
2) Improve outreach, education, and communication with campus community	5 campus workshops on resilience and/or sustainability	50% of courses offered annually contain resilience or sustainability component	60% of courses offered annually contain resilience or sustainability component
	The PEIC will work with Wesleyan Engaged and the Center for Innovative Teaching and Engaged Learning to hold workshops for the campus community and faculty on sustainability and resilience.		
3) Increase energy independence and decrease consumption of fossil fuels	100,000 kWh of annual energy consumption from renewable energy sources	1,000,000 kWh of annual energy consumption from renewable energy sources	3,000,000 kWh of annual energy consumption from renewable energy sources
	The university will evaluate options for financing additional renewable energy including RECs, purchase power agreements, and donor funded investments.		
4) Safe and sustainable housing and workspaces	Develop guidelines for healthy and sustainable housing and workspaces	Improve HVAC and energy efficiency in campus dorms	Commitment to LEED certification for new construction
	PEIC, Physical Plant, and Residence Life will develop guidelines on improving the environmental health and sustainability of the indoor environment through practices such as ecofriendly pest control, ecofriendly cleaning supplies, and ambient temperature control. As HVAC systems age, energy efficient models will be purchased. This will improve both energy use for heating and cooling, and indoor air quality conditions for students. It will also benefit resident student morale and retention. PEIC will work with the President and the Board of Trustees to evaluate the benefits and costs of a LEED certification policy.		

5. **Educational, Research, Community Outreach Efforts**
    A. **Supporting and increasing climate neutrality and sustainability in the curriculum**
        - Several departments offer courses with significant environmental/sustainability content. All undergraduate students are required to take a laboratory science, and over half of these include environmental/sustainability content. Business majors are required to take a course with environment/sustainability component. Majors offered that include a focus on the environment and sustainability are Biology, Earth & Environmental Sciences, Environmental Studies, Sustainability Management, and the pre-engineering Environmental Engineering program.
        - Guest speakers are brought to campus every year who address sustainability and the environment.
        - The university recently completed construction of the new Greer Environmental Sciences Center, which has increased interest, teaching, and research space for environmental sciences and studies.
        - The President's Environmental Issues Council will be collaborating with the center for teaching and pedagogy on campus next year to offer a workshop on incorporating sustainability into courses.
        - In Spring 2020, a survey will be conducted to determine how many courses include climate, sustainability, and resilience themes. Our goal is to increase this percentage every year until 2025 or until at least 50% of classes contain these themes.
        - We are planning to offer a “green cord” for eligible students to wear at graduation for completing coursework and volunteering in sustainability.
        - We will continue to develop educational experiences for students beyond the classroom such as Earth Day activities, clubs (Marlins Go Green), sharing meeting space with the Sierra Club, and sponsorship of student requested speakers or campus sustainability initiatives through the Earth and Environmental Sciences Endowed Fund.

    B. **Supporting and expanding research related to the achievement of carbon neutrality**
        - Starting in Fall 2019 VWU will begin a small grant program to provide funding for campus sustainability initiatives.
            - Any member of the VWU community (e.g., faculty, staff, student) can apply for a grant.
            - It is anticipated that some of the grants will be awarded to faculty for seed grants supporting the submission of larger off campus research grants related to carbon neutrality.
        - An endowed student grant was created in 2019 to provide Earth and Environmental Science majors educational experiences beyond the classroom. The award program will fund a variety of student proposals

including field trips, guest speakers, career development seminars, research equipment, and campus sustainability initiatives.

C. Supporting and expanding community outreach related to the achievement of carbon neutrality

Our president, Dr. Scott Miller, serves as chair of the Climate Leadership Steering Committee of Second Nature. He also regularly writes articles about sustainability for publication in our regional newspaper and in publications for leaders in the field of higher education. We have also increased outreach in the local community through youth education with projects such as the Downstream Collaborative, which brings public school children to campus for a day of environmental science experiments and nature experiences.

Through the Wesleyan Engaged office, the institution tracks our campus' community outreach. Data is collected through a reporting mechanism that was developed by the institution. For engagement that may include activities that involve the areas of climate, sustainability, and/or resilience, the regular assessment that is distributed after events will include questions on areas of sustainability and resilience. Wesleyan Engaged also has developed connections with the Chesapeake Bay Foundation, the Sierra Club, and the Elizabeth River project that focus on engagement events that are in the areas of carbon neutrality, climate change, sustainability, and resilience. Virginia Wesleyan University is the only institution on the Chesapeake Oyster Alliance Board.

6. Financing

Achieving carbon neutrality will require a variety of actions; some with no cost, some that will save money in the short or long term, and some that require initial or on going investments. We are currently focusing on changes that will save the college money in utilities, are cost neutral, or require an initial investment but produce a return on that investment through reduced utility costs over several years. For example, athletics has reduced the number of paper game-day programs provided to spectators and has plans to adjust competition schedules to reduce travel dates. These strategies save the university money and reduce our energy consumption.

As Scope 2 emissions, and purchased electricity in particular, are the university's largest source of GHG emissions, we are investigating ways to install more PV solar arrays on campus. Individual donors have financed all of our current solar panels, solar Smartflower, and geothermal wells. Smaller projects, such as solar charging stations and a stationary bike charging station were funded by a PepsiCo Recycling Zero Impact Fund grant. Major reductions in our GHG emissions from electricity will take a larger initial investment. We are currently exploring passive financing models, such as that used by our neighbor institution,

Norfolk Academy, to install large solar arrays. The $1 million solar PV installation was funded by an LLC formed by a group of parents, and took advantage of federal tax credits. The panels are tied into the grid, so that the local power company credits Norfolk Academy for any excess production. Over the next seven years, Norfolk Academy will pay the LLC for the power generated by the panels. The LLC will turn ownership of the panels over to Norfolk Academy at the end of seven years, by when their initial investment in the panels will be paid back. The school will then continue to benefit from the panels, saving over $80,000 annually in energy costs.

Our university recently became a member of the Intentional Endowments Network (IEN) and is looking to be more responsible in our investments and explore new options for financing environmental initiatives. The IEN "is a peer learning network of colleges, universities, and other mission-driven institutional investors working together to achieve their risk and return objectives through investment actions that create a thriving, sustainable economy."

Funding for smaller sustainability efforts on campus come from a variety of on campus sources. The VWU Lighthouse: Center for Exploration & Discovery offers grants for student research projects and student presentations at conferences as well as stipends and travel for guest speakers. The Office of Student Activities provides small amounts of money for student events and activities, such as those organized by the student group Marlins Go Green. An endowed student grant was created in 2019 to provide Earth and Environmental Science majors educational experiences beyond the classroom. The award program will fund a variety of student proposals including field trips, guest speakers, career development seminars, research equipment, and campus sustainability initiatives. The University also plans to reinstate a campus wide grant for on campus sustainability to which students, staff, or faculty can apply.

External grants will continue to be an important source of revenue for sustainability projects and research. In addition to the recent PepsiCo. grant, a group of faculty and students were awarded a U.S. E.P.A. People, Prosperity, and the Planet (P3) grant in 2018. The grant for the project "Vermicompost from Stormwater Phycoremediation" will study the use of phycoremediation to remove water pollutants from stormwater ponds. Harvested algae will be also studied for potential use in vermicomposting.

The Center for Advancement considers sustainability a priority in campus planning and fundraising, and will continue to work with the PEIC to identify sources of funding for campus sustainability.

7. Implementation & Tracking Progress

Virginia Wesleyan University will primarily track progress by conducting an annual greenhouse gas (GHG) inventory which will be posted to the Second Nature Reporting Platform. This will allow us to track our progress in emissions from all sectors. The PEIC, in consultation with the university President will meet to review and discuss the results of the annual GHG inventory in

light of carbon neutrality goals. The university will undertake a review and update of the Climate Action Plan in five years, 2024.

Appendix 1. Resilience indicators identified during a campus resilience workshop and assessment meetings in 2017-2018.

Social Equity & Governance Indicators

Indicator	**Current status and metric of measurement**
Broad representation on the President's Environmental Issues Council (PEIC) and the Campus Emergency Response Team	Metric: Membership on the committees from students, faculty, and staff; broad representation of campus departments; minority representation. Current Status: PEIC: 4 faculty, 3 staff, 2 student members; one African American member; 56% female. CERT: 20 Administrators and department heads from across University; 30% female; no minorities.
Outreach, education, and communication with campus community	Metric: Emergency communication methods and number of people reached; workshops and seminars on resilience and sustainability. Current Status: LiveSafe App is available to students, faculty and staff; emergency notifications are posted on VWU website and sent via email. Siren on campus. There is a siren and LiveSafe are tested regularly. The fall 2017 Resilience Planning workshop drew 30 attendants.
Partnerships and collaboration with local municipalities and organizations	Metric: Collaborations and recognition for sustainability efforts Status: VWU has increased partnerships and recognition including: ● 2018 Conservationist of the Year Award by the Chesapeake Bay Foundation ● Selected by The Princeton Review for inclusion in its Guide to 375 Green Colleges ● Dining Services designation as a Virginia Green Restaurant ● Recognized by the Professional Grounds Management Society for Green Star Awards competition. ● Joint ownership of a research vessel with the Virginia Aquarium ● A new partnership with the Norfolk Botanical Gardens, which includes expanded research and educational opportunities and a Director of Living Landscapes ● Participation in the Chesapeake 10 Billion Oysters Partnership ● Creation of the Downstream Collaborative Project, an environmental education partnership with Virginia Beach City Public Schools Division ● Membership on the city of Virginia Beach Sea Level Rise Task Force ● Member of the U.S. Green Building Council

Health & Wellness Indicators

Indicator	**Current status and metric of measurement**
Emergency and extreme weather health and safety services	Metrics: Percent of campus community trained in first aid/first response/CPR; availability of transportation to hospital; availability of first aid training Current Status: ● 3 4-credit First Aid and Safety courses are taught for students each year (1 each semester). ● Each head coach and certified strength and conditioning coach is required to maintain current certification in first aid, CPR, and automatic external defibrillator (AED) use. ● Security guards go through yearly training in first aid, CPR and AED use. ● All lifeguards are current in CPR and First Aid certifications. ● Policy determines that security calls 911 for transportation to the hospital.
Emergency shelters for extreme climate and weather events	Metrics: Number and capacity of shelters Current Status: ● VWU has an Emergency Operations Plan that is updated yearly (https://www.vwu.edu/emergency/pdfs/emergency_operations_plan.pdf. ● Vice President for Student Affairs serves as the Coordinator of the Campus Emergency Response Team. ● Students may be asked to shelter in Dorms or in a centralized location (CMAC). ● Students remain under the supervision of the Director of Residence Life. ● Should it be deemed necessary to vacate the campus, students will be evacuated to Randolph-Macon University.
Mental wellness	Metrics: Availability of ongoing and emergency services offered by Counseling Services; Coverage for ongoing and emergency services for employees under VWU health insurance plans Current Status ● Employees are covered under Anthem Health Care Insurance, including behavioral health resources and mental health treatments. ● Student Counseling Center offers free services to students.

Access to healthcare	Metrics: Availability and cost of services provided by the Student Health Center Current Status ● Students are required to have healthcare, and VWU offers a student accident/sick policy if a student is not already covered. ● VWU is partners with Sentara Medical Group in the management of the Student Health Clinic. ● The clinic performs basic lab services (i.e. flu, strep, mono, TB) and evaluation and treatment for routine illness and injury. ● The Nurse Practitioner has the ability to make referrals and prescribe necessary prescriptions.

Ecosystem Services Indicators

Indicator	**Current status and metric of measurement**
Forest and tree coverage	Metrics: Percent campus with tree canopy; Policies for protection and maintenance; Age and species diversity of current canopy Current Status: 300 acre campus includes: ● Nearly twelve acres of old growth beech forest. ● Over 60 different species of native plants, trees, and shrubs newly planted around the Greer Environmental Sciences Center. ● Approximately 150 acres of forested land on campus. ● Arboretum with several different tree species (native and non-native) established in 1995.
Riverstar Business Recognition from the Elizabeth River Project	Metrics: Participation in program and level Current Status: Currently at highest level: Tier 3 Model Level Riverstar

Infrastructure Indicators

Indicator	**Current status and metric of measurement**
Stormwater infrastructure	Number of BMPs; Percent of campus with impermeable surface cover Current Status: Seven BMPs

Number of LEED certified buildings on campus	Percent of buildings certified in the U.S. Green Building Council's Leadership in Energy and Environmental Design (LEED) rating system Current Status: Achieved LEED Gold Certification for the Greer Environmental Sciences Center; Clarke Hall received LEED existing building certification
Energy Independence	Number of buildings with back-up power generation; Percent of annual energy use generated by on-campus renewables Current Status: The Batten Student Center has emergency power backup The Greer Environmental Sciences Center, opened in August of 2018, has solar panels that generate approximately 1500 kwH per month and geothermal energy that generates approximately 100,000,000 BTU per month.
Energy Efficiency	Use of energy efficient technology/systems; Ability to reduce power demand during times of stress Current Status: Motion detectors on most classroom lights; chiller upgraded to a more efficient model in 2009
Safe and sustainable housing and workspaces	Ecofriendly pest control; energy efficient windows; low VOC paints and finishes; ecofriendly cleaning supplies; funds available for building upgrades Current Status: Greer Environmental Sciences Center includes energy efficient windows, low VOC paints and finishes on walls and furniture; campus policy to use low VOC paints

Economic Indicators

Indicator	**Current status and metric of measurement**
Green Fund	Amount of money in a green fund, available for sustainability and energy efficiency projects Current Status: The University is researching options for increasing funding for sustainability projects and the possibility of starting a green fund.
Sustainable purchasing policy	Comprehensive policy for campus purchases Current Status: There is a sustainable purchasing policy in use in the Office of Finance and Administration.

Emergency funds and insurance	University insurance coverage for emergency and extreme weather events; availability of funds for unexpected expenses Current Status: VWU has general liability coverage.
Endowment in sustainable investments	Policy for endowment investment on Ethical Considerations and Investment Exclusions that includes sustainability considerations Current Status: VWU is now a member of the Intentional Endowments Network.