



WILLIAM & MARY

CHARTERED 1693

ADMINISTRATION/ BUILDINGS & GROUNDS

April 20, 2017

W&M Sustainability



WILLIAM & MARY

CHARTERED 1693

OFFICE OF SUSTAINABILITY

Within Strategic Initiatives & Public Affairs



Goals

- **Facilitate** holistic change toward a sustainable campus and world
- Create a sense of **community** that drives sustainable progress
- **Integrate sustainability** into the operations, academics, and policy of W&M
- Provide **educational experiences and resources** to faculty, students, and staff so that they may be ambassadors of change

COMMITTEE ON SUSTAINABILITY

Inclusive of faculty, students, and staff members

Programs & Education (PEDS)

- Earth Week
- Welcome
- Summit
- Tribe Truck Farm

Science & Technical Advisory (STAC)

- Stormwater Mgmt
- Carbon Offset
- Renewable Energy

Operations (OPS)

- Diversion
- DormMania
- Bottle Filling
Stations

PLANTING THE SEED OF SUSTAINABILITY

Spring 2008

Campus-wide student referendum
in support of Green Fee

BOV approval of the student Green
Fee

Fall 2008

President Reveley formed
Committee on Sustainability

Charged with management of the
Green Fee in ways that develop,
plan and implement strategies for
sustainable operations and
integrate sustainable practices into
the fabric of W&M

W&M SUSTAINABILITY HIGHLIGHTS



2008-2009

- Committee on Sustainability
- Student Green Fee
- First W&M greenhouse gas audit
- Recycling audit, \$45,000 savings
- Aramark partnership



2010-2011

- Compost food waste
- Swem digital scanners
- First VIMS greenhouse gas audit
- Zipcar
- EcoAmbassadors



2012-2013

- E-Catalogue
- Campus Garden
- Sustainability Summit
- Bike Alliance



2014-2015

- Hired first Sustainability director
- Established Office of Sustainability
- Green Revolving Fund
- CSA KelRae Farms
- Dining halls reusable to-go containers
- Solar charging station



2016-2017

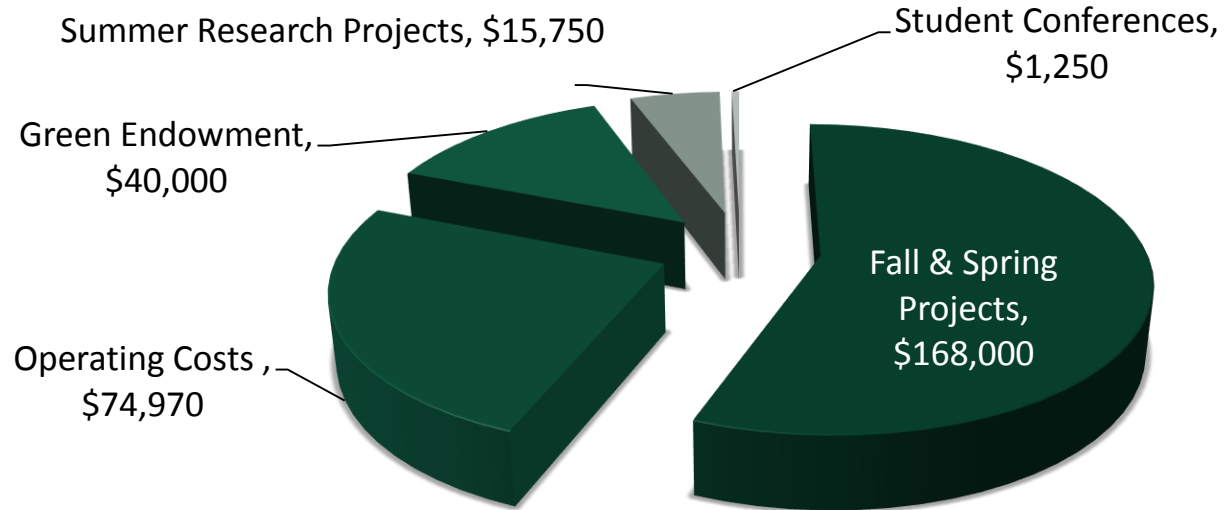
- W&M rated AASHE STARS Silver
- Energy & Water Policy
- Public composting
- #1 Virginia composter
- VIMS low-flow fixtures
- Strategic Bottle Filling Station Plan

GREEN FEE

**\$300,000 Collected Annually,
\$1,354,750 in Projects to Date**

Green Fee Funded

W&M
SUSTAINABILITY



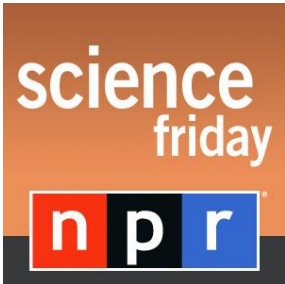
RESEARCH

Green Fee Funded

W&M
SUSTAINABILITY

Frankenturtles

- VIMS juvenile sea turtle mortality study
- W&M undergraduate research
- National media coverage



RESEARCH

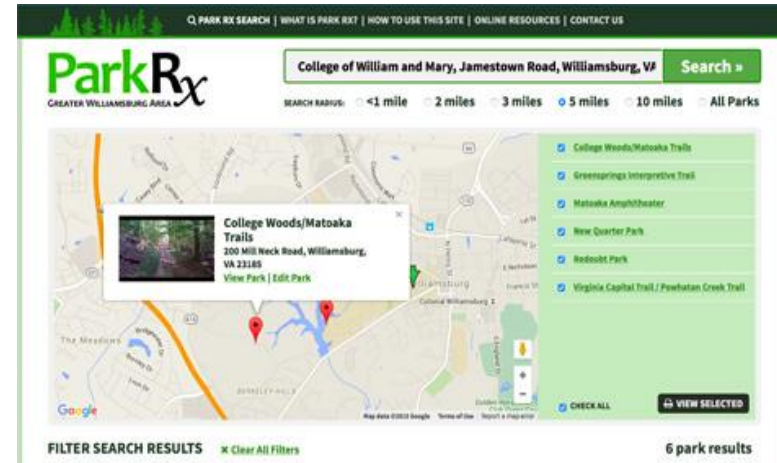
Green Fee Funded

W&M
SUSTAINABILITY

Have You Had Your Dose of Outside Today?

- Training & tools for healthcare providers to 'prescribe' outdoor time
- Treat and prevent lifestyle illnesses
- Partners include:
 - Sentara
 - Pediatric Associates of Williamsburg
 - W&M Health Center
 - W&M student peer prescription program

ParkRx
GREATER WILLIAMSBURG AREA



STUDENT ENTREPRENEURSHIP



- Student conceived and run
- Post Landfill Action Network Student Leadership Award
- Net profit every year
- Diverted 27,000+lbs to date



Green Fee Funded

W&M
SUSTAINABILITY

FACILITIES

Green Fee Funded

W&M
SUSTAINABILITY

Bottle Filling Stations



- COS strategic plan
- Take Back the Tap partnership
 - Food & Water Watch 2016 Tap-a-palooza Contest
- Construction technical standards
- Over 20 installed to date



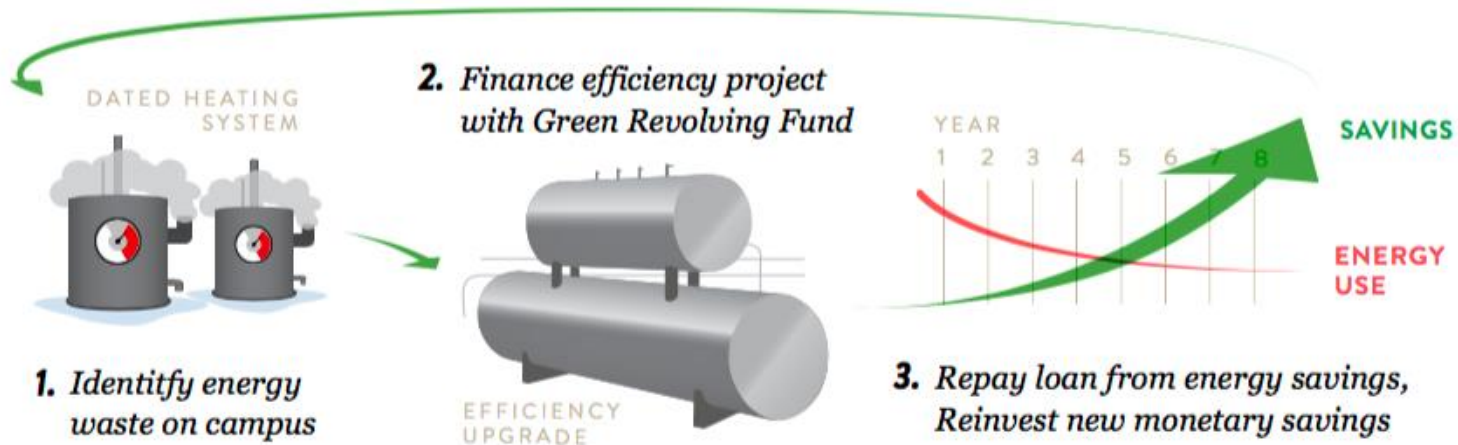
GREEN TO GOLD FUND

Cost-saving projects that reduce greenhouse gas emissions and/or resource use.



Pilot project:

- \$78,500 lighting retrofit of the parking deck
- \$17,000 annual savings, payback period < 5 years, 72% energy reduction



A SUSTAINABLE FUTURE



A Fully Sustainable W&M

- Essential to preserving the W&M traditions of citizenship and service and an irreplaceable element for strategic planning and development

Long-Term Strategic Initiatives

- Strategic planning and goals through a Sustainability Plan
- Renewable energy sources
- Fostering new and inclusive partnerships

JOIN US FOR EARTH WEEK!



Catching the Sun Screening

Learn about the economic, social and env. benefits of solar. Discuss Va. solar opportunities with VA SUN

Tonight, 7pm, ISC 1127



Earth Day Festival


Butterfly tent, live music, greenhouse tours, Lorax reading by President Reveley, information fair, speaker Lincoln Brower, and more

Saturday, 11am-3pm, Sadler Center & Crim Dell



W&M Sustainability

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Director of Sustainability
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PROJECTS IN DESIGN

- McLeod Tyler Wellness Center
- Fine Arts Phase I & II
- West Utilities Plant
- Landrum Hall Renovation
- Alumni Center Renovation & Expansion

PROJECTS IN PREPLANNING

- Muscarelle Museum Renovation/Expansion
- Sadler Center Addition

2018-2024 SIX-YEAR CAPITAL PLAN

Maximize

Quality
Efficiency
Functionality

Minimize

Capital Cost
Operating Cost

Assess

Remain
Renovate / Reconfigure
Remove / Replace

GUIDING PRINCIPLES

- Maintain and reinforce a strong undergraduate focus by siting undergraduate academic, residences and recreational spaces together on the main campus.
- Hold undergraduate classes within walking distance, permitting a reasonable class schedule to be maintained.
- Maintain an architecture and standard that sets the climate through the College's buildings and landscaping which reflects our historic traditions.
- Retain the pedestrian character of the campus; move parking to the perimeter.
- Preserve open, green space.
- Create a sense of order, accessibility, ease of way-finding and attractiveness.
- Preserve the human scale.
- Meet growing space requirements and support 21st-century teaching and research methods.
- Integrate sustainable principles and practices into all aspects of facilities management of buildings and campus grounds.

2018-2020 CAPITAL REQUEST

2018 - 2020 Capital Program Request		2016-22	General	Non-General	Total Project
Project	Fund	Request	Funds	Funds	Request
Maintenance Reserve	0100	Yes	\$5,190,000	\$0	\$5,190,000
Construct: ISC 4	0100	Yes	\$74,916,000	\$0	\$74,916,000
Construct: Population Lab	0100	Yes	\$8,484,000	\$0	\$8,484,000
Construct: Fine Arts, Phase 3	0100	Yes	\$39,080,000	\$0	\$39,080,000
Construct: Sadler West Addition	0815	Yes	\$0	\$37,742,000	\$37,742,000
Improve: Swem Library	0100	No	\$10,715,000	\$0	\$10,715,000
Construct: Sanitary Sewer Repairs	0100	Yes	\$3,477,000	\$0	\$3,477,000
Improve: Handicapped Access	0100	No	\$5,416,000		\$5,416,000
Improve: Lake Matoaka Dam	0100	Yes	\$3,565,000	\$0	\$3,565,000
Renovate: Dormitories	0813	Yes	\$0	\$11,000,000	\$11,000,000
2018-2020 Biennium Totals			\$150,843,000	\$48,742,000	\$199,585,000

SOUTH CAMPUS - PROPOSED

A – ISC4

Kinesiology
Computer Science
Information Technology
Mathematics

B – Music Building

C – Theatre, Speech, and Dance

D – Muscarelle Expansion

E – Art & Art History (new)

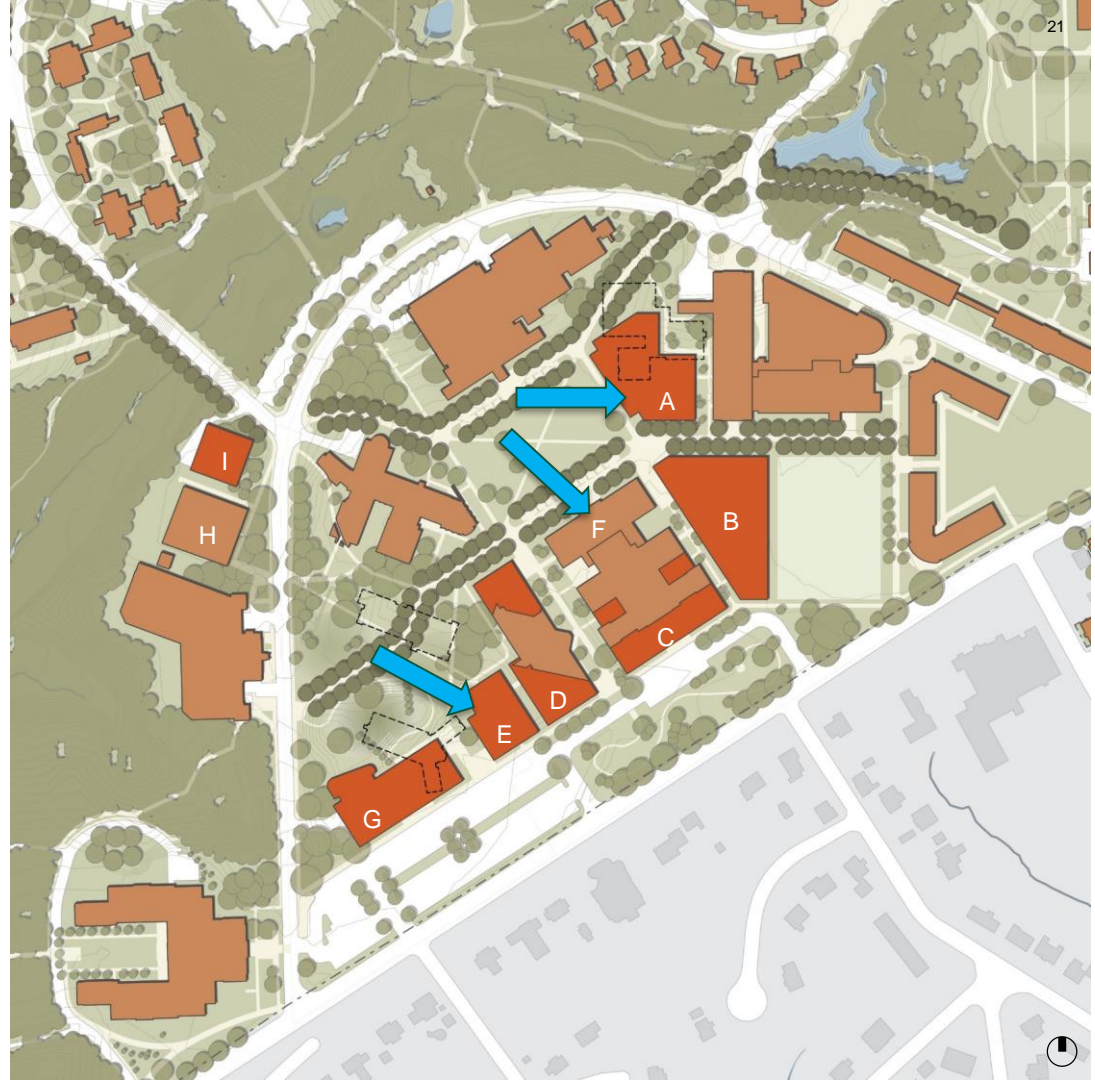
F – Art & Art History (renovated)

G – General Academic Replacement

H – Fitness Center (renovated Adair)

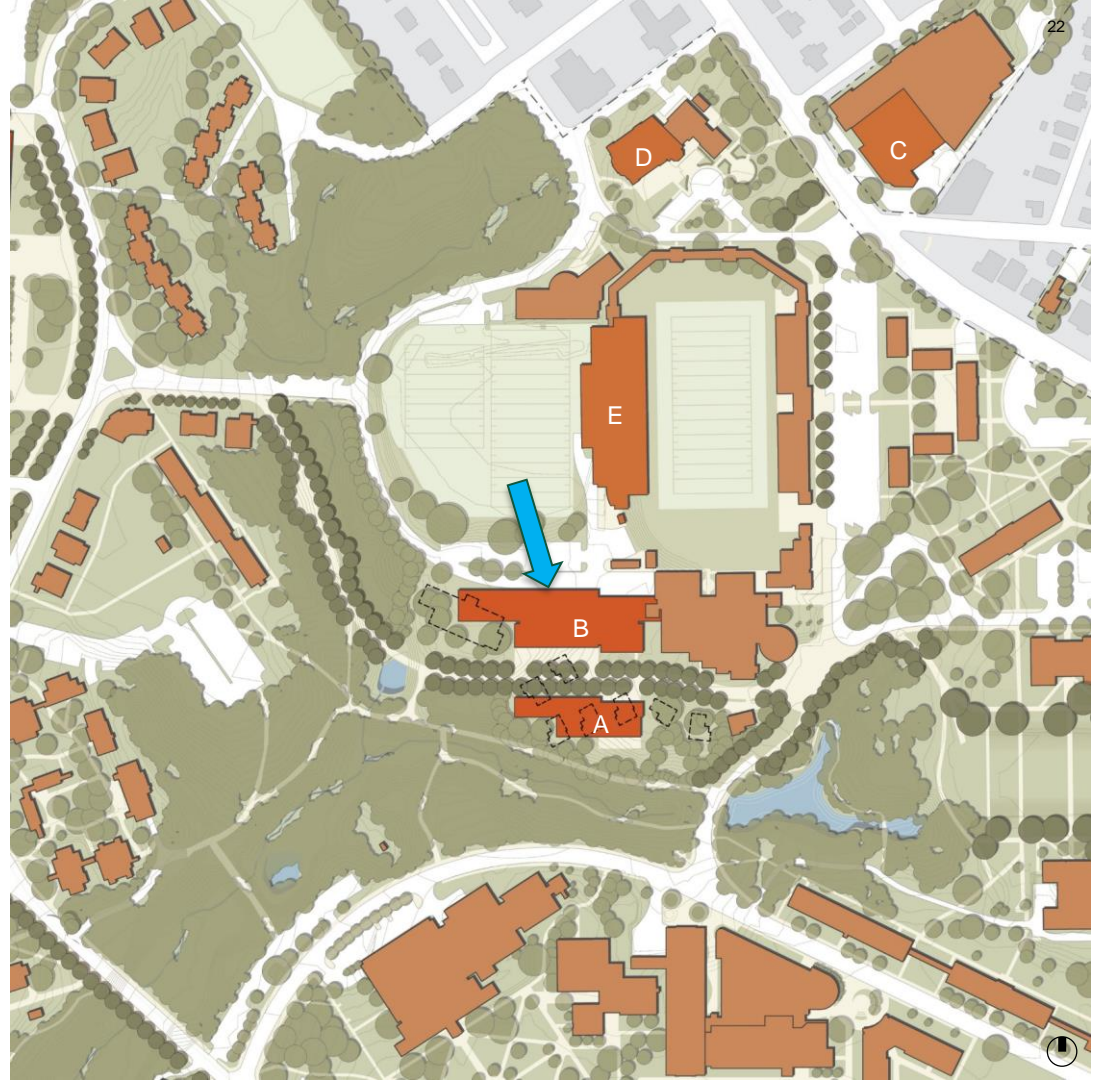
I – West Utility Plant

Note: B, C, D, E, F, & I were previously approved by BOV for 2014-2020 Capital Outlay Six Year Plan



STUDENT LIFE – PROPOSED

- A – Integrative Wellness:
Student Health Center
Counselling
Center, Health Promotions
Recreation
- B – Sadler Center Expansion:**
Dean of Students & related
Residence Life
Community Engagement
Lounge Space
Student Affairs
- C – One Tribe Place (renovation):
Large Event
Conference
Auditorium
- D – Alumni House Expansion
- E – Zable Stadium Expansion



2020-2022 CAPITAL REQUEST

2020 - 2022 Capital Program Request		2016-22	General	Non-General	Total Project
Project	Fund	Request	Funds	Funds	Request
Maintenance Reserve	0100	Yes	\$5,995,000	\$0	\$5,995,000
Renovate: Ewell Hall	0100	No	\$21,565,000	\$0	\$21,565,000
Renovate: Adair Hall	0815	No	\$0	\$20,744,000	\$20,744,000
Construct: Jamestown Place	0100	No	\$46,666,000	\$0	\$46,666,000
Improve: WM Hall	0815	No	\$0	\$34,864,000	\$34,864,000
Renovate: Dormitories	0813	Yes	\$0	\$14,900,000	\$14,900,000
2020-2022 Biennium Totals			\$74,226,000	\$70,508,000	\$144,734,000

2022-2024 CAPITAL REQUEST

2022 - 2024 Capital Program Request		2016-22	General	Non-General	Total Project
Project	Fund	Request	Funds	Funds	Request
Maintenance Reserve	0100	No	\$6,000,000	\$0	\$6,000,000
Renovate: Washington Hall	0100	No	\$25,399,000	\$0	\$25,399,000
Replace: Jones & Morton Halls	0100	No	\$51,266,000	\$0	\$51,266,000
Construct: Dillard Athletic Support Fac.	0815	No	\$0	\$14,797,000	\$14,797,000
Construct: Dillard Athletic Fields & Track	0815	No	\$0	\$6,928,000	\$6,928,000
Replace: Facilities Management Complex	0100	No	\$10,651,000	\$0	\$10,651,000
Renovate: Dormitories	0813	No	\$0	\$19,200,000	\$19,200,000
2022-2024 Biennium Totals			\$93,316,000	\$40,925,000	\$134,241,000

RESOLUTIONS #19-22

- Approve 2018-2024 Six-Year Capital Plan
- Approve Revised Scope and Budget: Alumni Center
- Approve the Naming of Richmond Hall
- Approve the Revisions to the Staff Assembly Bylaws