University of Minnesota Morris Digital Well

University of Minnesota Morris Digital Well

Planning Committee

Campus Governance

3-23-2016

Planning minutes 03/23/2016

Planning Committee

Follow this and additional works at: https://digitalcommons.morris.umn.edu/plan

Recommended Citation

Planning Committee, "Planning minutes 03/23/2016" (2016). *Planning Committee*. 95. https://digitalcommons.morris.umn.edu/plan/95

This Presentation is brought to you for free and open access by the Campus Governance at University of Minnesota Morris Digital Well. It has been accepted for inclusion in Planning Committee by an authorized administrator of University of Minnesota Morris Digital Well. For more information, please contact skulann@morris.umn.edu.





ROPA+

University of Minnesota - Morris

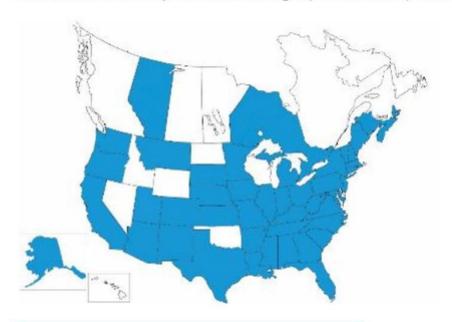
Presenters: Sophie Mason, James Fang

March 2016

Virginia Commonwealth University Virginia Department of General Services Wagner College Wake Forest University Washburn University Washington University in St. Louis Wellesley College Wesleyan University West Chester University West Liberty University West Virginia Health Science Center West Virginia Institute of Technology West Virginia School of Osteopathic Medicine West Virginia State University West Virginia University Western Connecticut State University Western Oregon University Westfield State University Wheaton College Widener University

Who Partners with Sightlines?

Robust membership includes colleges, universities, consortiums and state systems



Serving the Nation's Leading Institutions:

- 70% of the Top 20 Colleges*
- 75% of the Top 20 Universities*
- 34 Flagship State Universities
- 13 of the 14 Big 10 Institutions
- 9 of the 12 lvy Plus Institutions
- 8 of 13 Selective Liberal Arts Colleges

Sightlines is proud to announce that:

- 450 colleges and universities are Sightlines clients including over 325 ROPA members.
- We enjoy an annual renewal rate over 90%
- We have clients in 42 states, the District of Columbia and four Canadian provinces
- More than 100 new institutions became Sightlines members since 2014

Sightlines advises state systems in:

- Alaska
- California
- Connecticut
- Hawaii
- Maine
- Massachusetts
- Minnesota
- Mississippi
- Missouri
- Nebraska
- New Hampshire
- New Jersey
- Pennsylvania
- Texas
- West Virginia



^{*} U.S. News Rankings

A Vocabulary for Measurement

The Return on Physical Assets – ROPASM



The annual investment needed to ensure buildings will properly perform and reach their useful life "Keep-Up Costs"

Annual Stewardship The accumulation of repair and modernization needs and the definition of resource capacity to correct them "Catch-Up Costs"

Asset Reinvestment The effectiveness of the facilities operating budget, staffing, supervision, and energy management

> Operational Effectiveness

The measure of service process, the maintenance quality of space and systems, and the customers opinion of service delivery

Service

Asset Value Change

Operations Success



Peer Institutions



Selected from the database of Sightlines members based on campus similarities

	Peer Institutions
	Carleton College
	Delta State University
	Edinboro University of PA
	Grinnell College
(Gustavus Adolphus College
	Mansfield University of PA
	Penn State – Erie
The L	Jniversity of Nebraska – Kearney
Uni	versity of Maine at Farmington
Ur	niversity of Maine at Fort Kent
U	niversity of Maine at Machias
Univ	versity of Maine at Presque Isle





Core Observations



Physical Profile

- While UMM has a comparable campus based on construction age, peers have been more consistent in renovating buildings, putting UMM at an operational disadvantage with older systems and buildings to maintain.
- Compared to peers, UMM's buildings are slightly less technically complex and campus is less busy than peers. This suggests there is still room for enrollment to grow.

Capital Investment

- HEAPR is a strong source of recurring capital, but the lack of one-time investment restricts UMM's ability to plan and complete large renovation projects.
- The resulting backlog of need on campus contains \$5.3M in immediate need that resides in high value buildings and systems.

Operations Success

- Staffing resources are under pressure. All shops are understaffed compared to the database average, especially the custodial staff.
- Given these resource levels, the age of campus, and lack of one-time capital, operations staff are doing the best they can, and the campus inspection scores are evidence of this.





Space Profile

Creating Context for Campus Age



The campus age drives the overall risk profile

Built before 1951
Durable construction
Older but typically lasts
longer

Built from 1951 to 1975
Lower-quality
construction
Already needing more
repairs and renovations

Built from 1976 to 1990 Quick-flash construction Low-quality building components Built in 1991 and newer
Technically complex
spaces
Higher-quality, more
expensive to maintain &



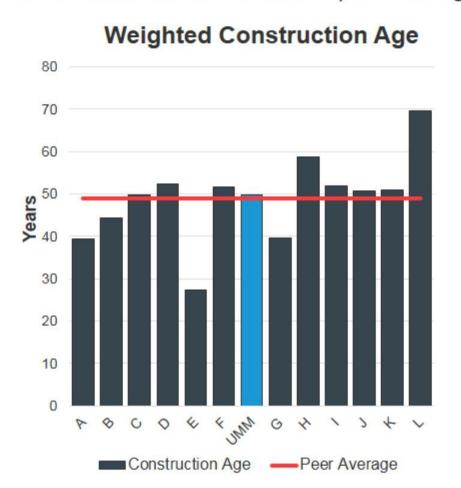
Modern



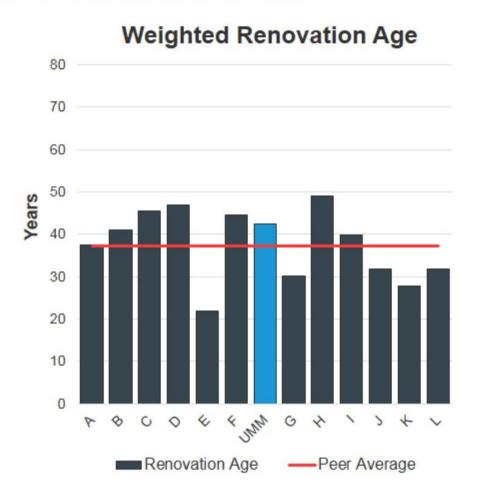
Impact of Renovations on Building Age



Peers have offset 37% more space through renovation work than UMM



UMM has offset campus age by 7 years



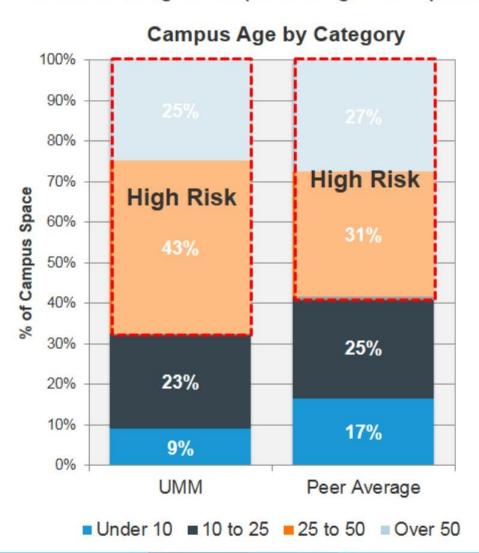
Peers have offset campus age by 12 years



Renovation Age Profile is Higher Risk Than Peers



Understanding the impact of age on capital & operations



Buildings over 50

Life cycles of major building components are past due. Failures are possible. Core modernization cycles are missed.

Highest risk

Buildings 25 to 50

Major envelope and mechanical life cycles come due. Functional obsolescence prevalent.

Higher Risk

Buildings 10 to 25

Short life-cycle needs; primarily space renewal.

Medium Risk

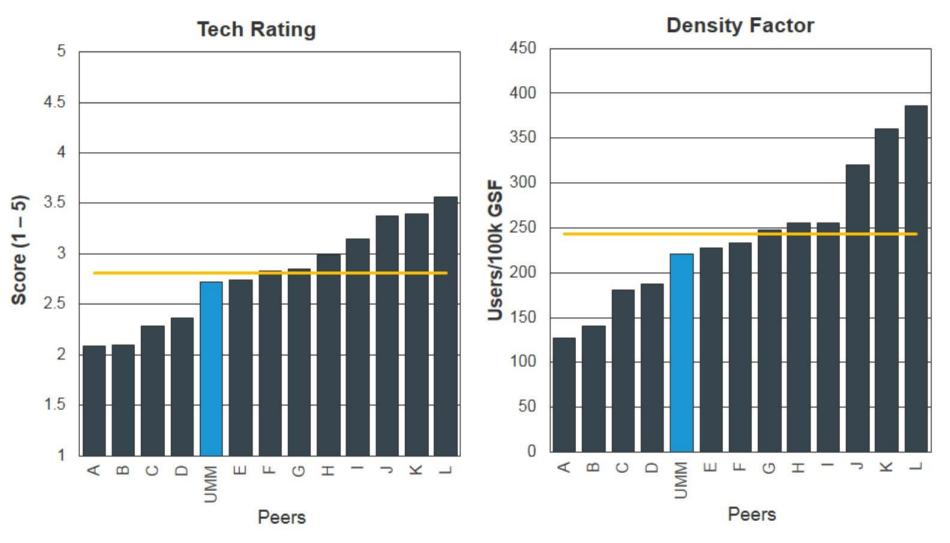
Buildings Under 10

Little work. "Honeymoon" period. Low Risk



UMM is Similar to Peers in Density and Complexity



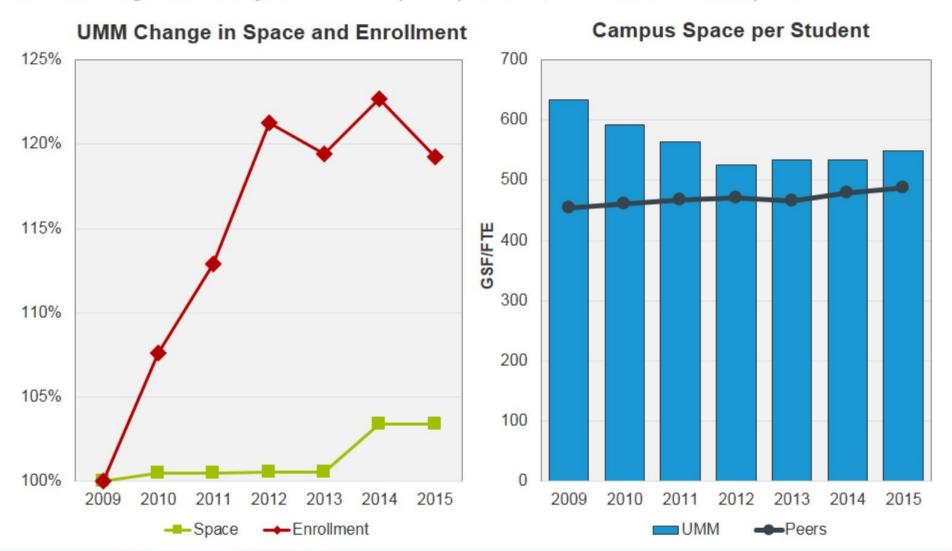




Space per Student Shows Still Room to Grow



Enrollment growth has yielded less space per FTE, but still more than peers







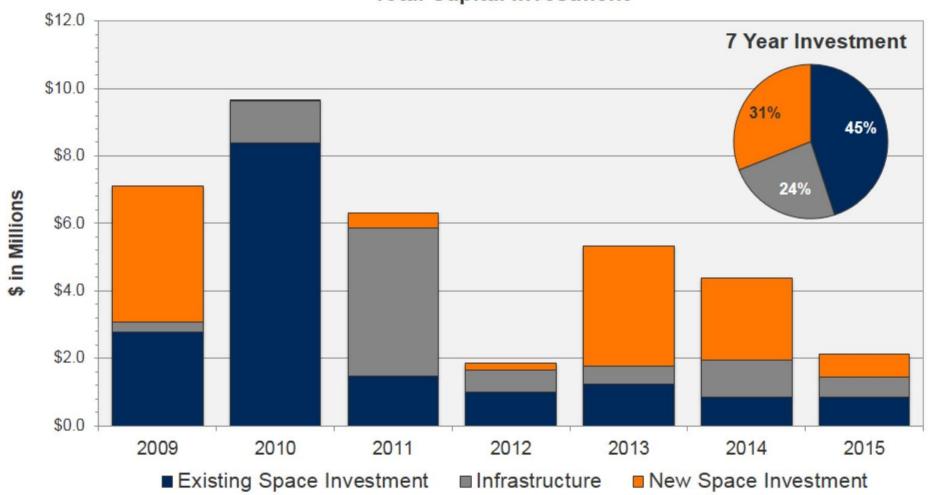
Capital Profile

Growth Has Driven Historic Investment



\$15.9M has been invested into existing facilities over 7 years





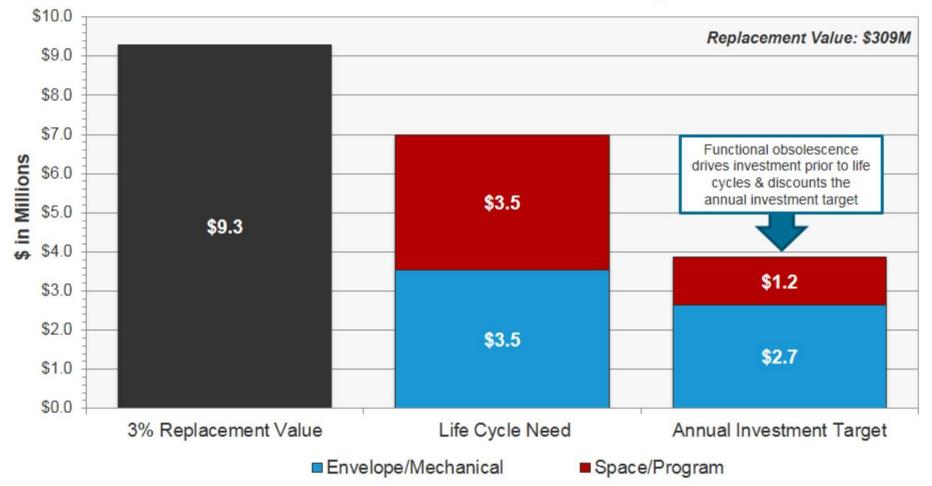


What is the Right Level of Investment for UMM?

UNIVERSITY OF MINNESSTS MORRIS

Annual Investment Target: \$3.9M

FY15 Annual Investment Target



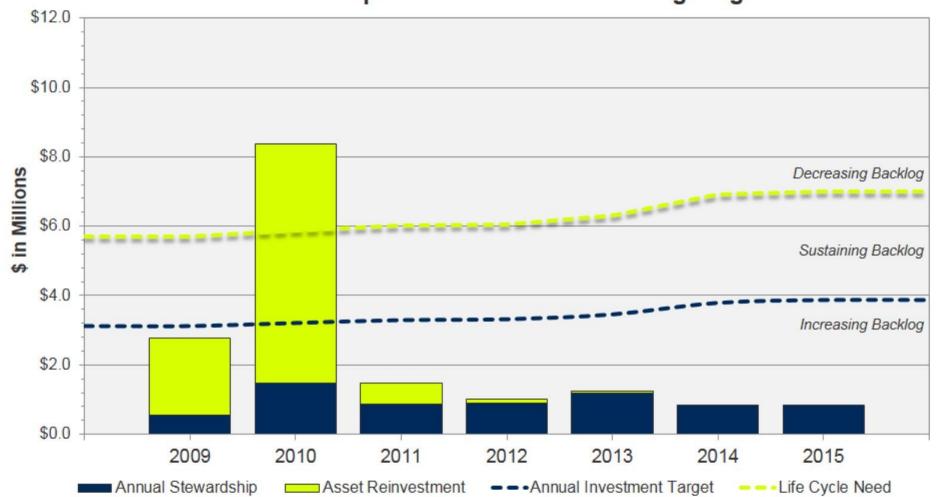


Capital Investment vs. Funding Target



\$3.0M shortfall in funding in 2015





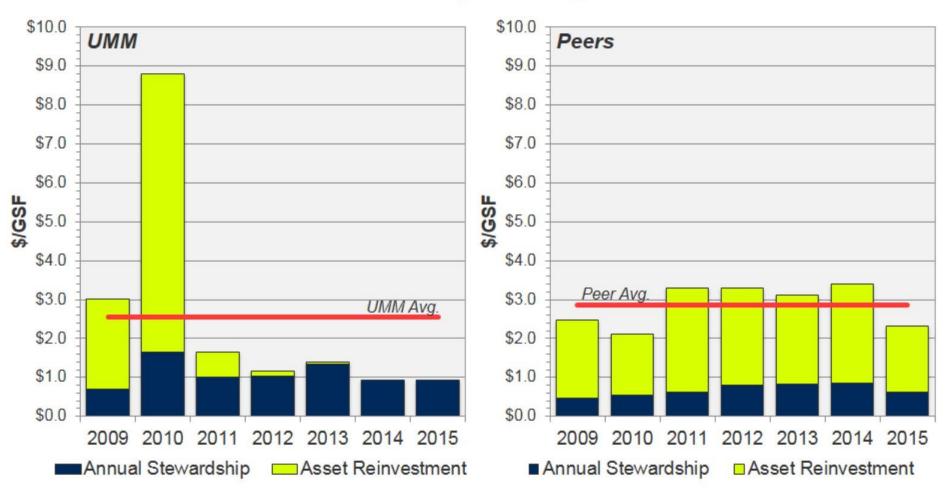


UMM and Peer Funding Profiles Differ



UMM has more stewardship, but peers outspend UMM with more consistent one-time capital

Investment by Funding Source



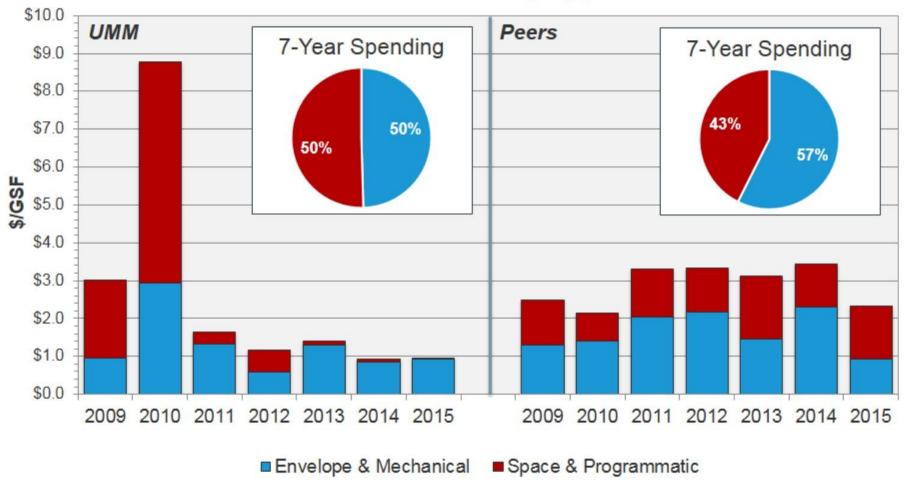


A Balanced Investment Profile is Important



Aside from renovations, focus has been on envelope & mechanical projects

Investment by Type

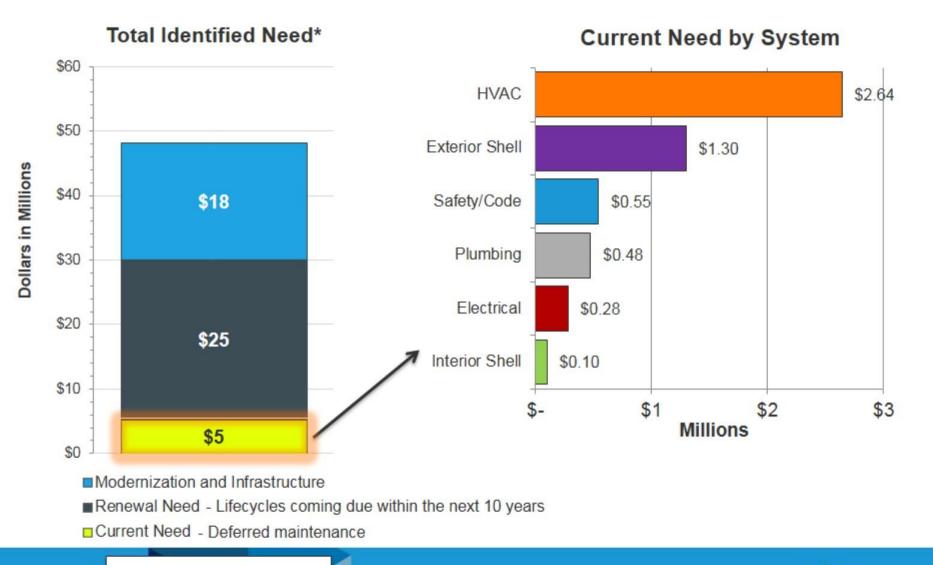


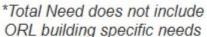


Need of Campus Growing Without Sufficient Funding



\$5.3M of this need is immediate, with \$25M in upcoming lifecycles

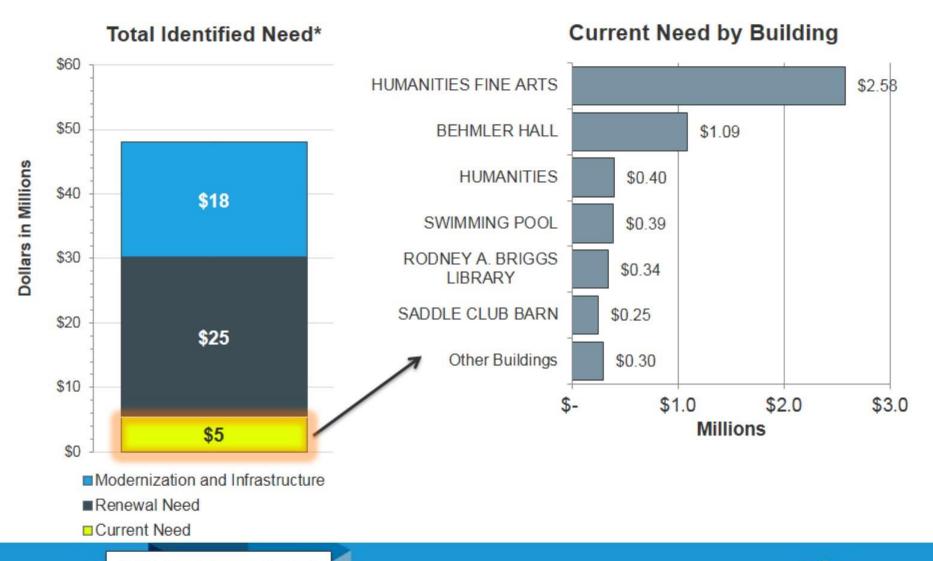


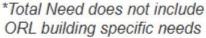




Current Need Focused Within a Few Buildings



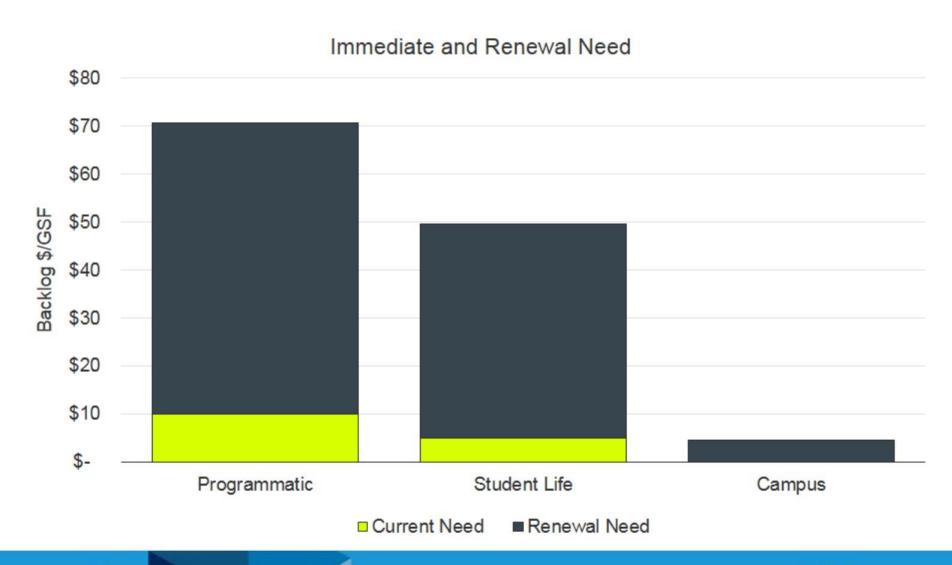






Need broken out by building type





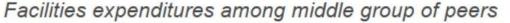


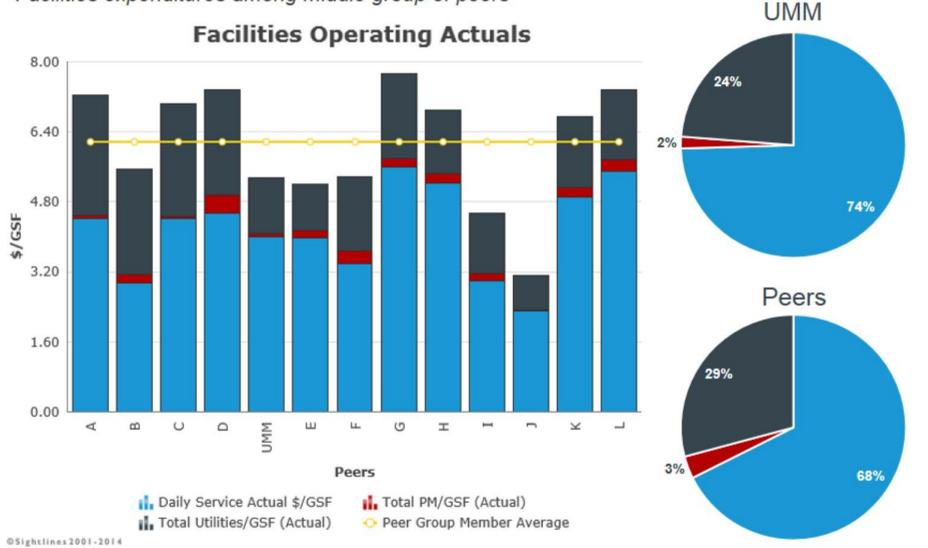


Operations Success

Operating Expenditures



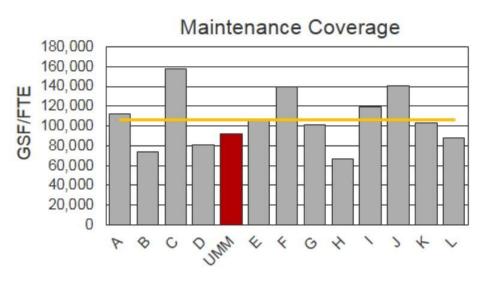


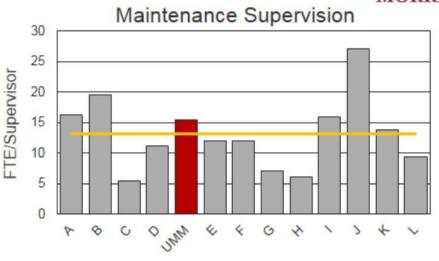


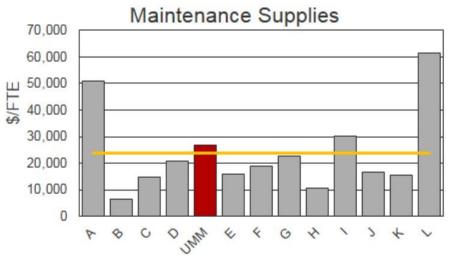


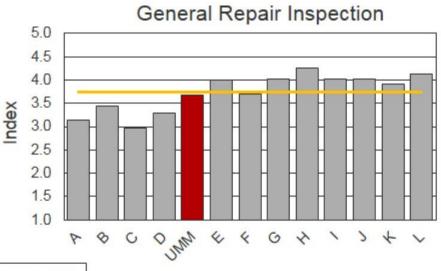
Maintenance Staff











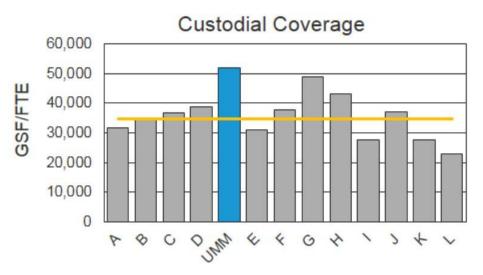
Benchmarks arrayed by increasing technical complexity

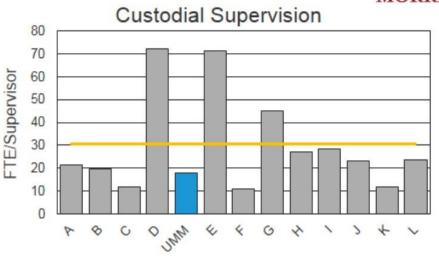
Peer average

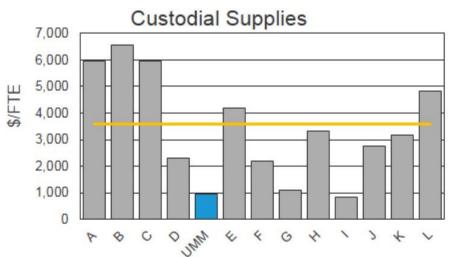


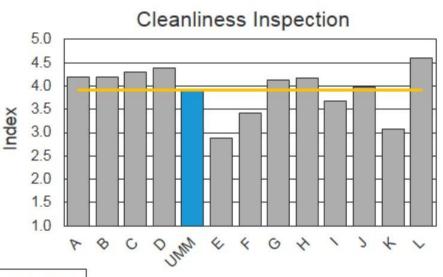
Custodial Staff





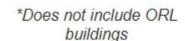






Benchmarks arrayed by increasing density

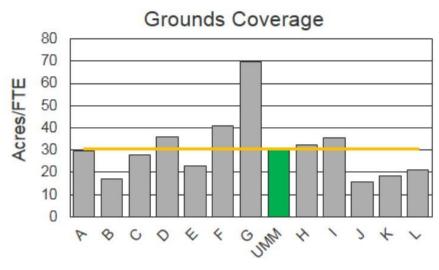
Peer average

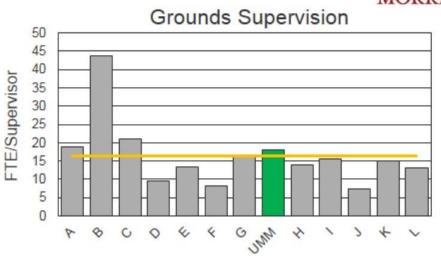


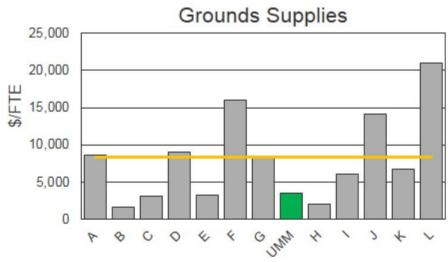


Grounds Staff











Benchmarks arrayed by increasing grounds intensity

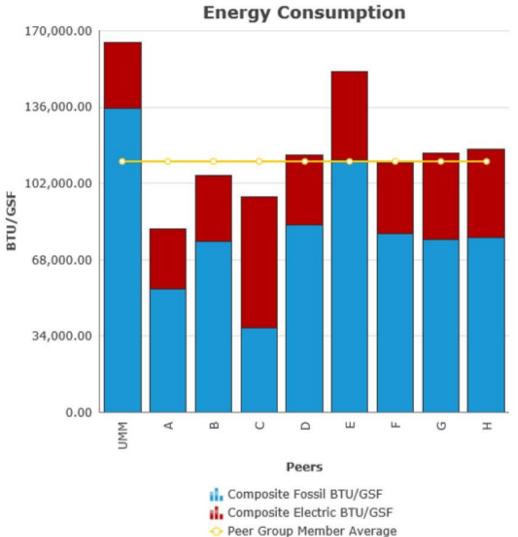
Peer average



Energy Analysis



Energy Peer Institutions
Carleton College
Clarion University of PA
College of Saint Benedict
Edinboro University of PA
Grinnell College
Gustavus Adolphus College
Hamline University
Mansfield University of PA



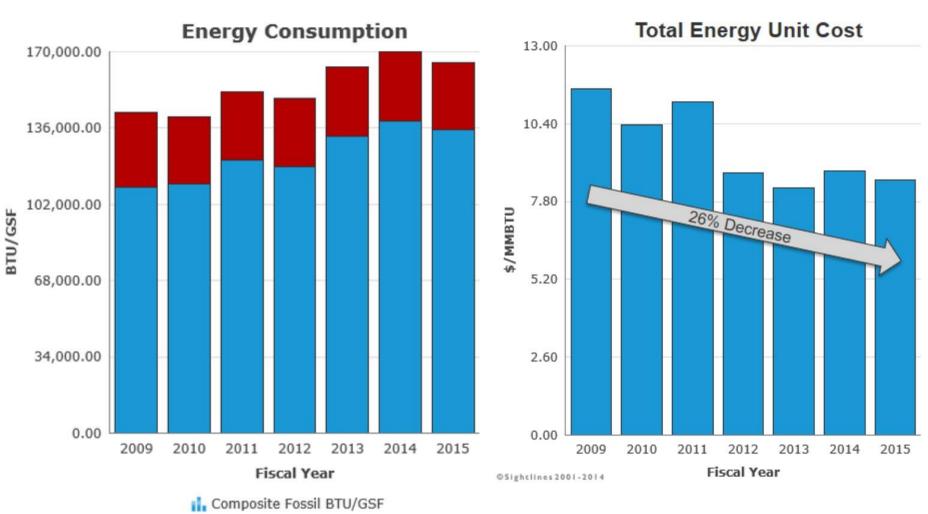
@Sightlines 2001-2014



Energy Use Over Time

... Composite Electric BTU/GSF



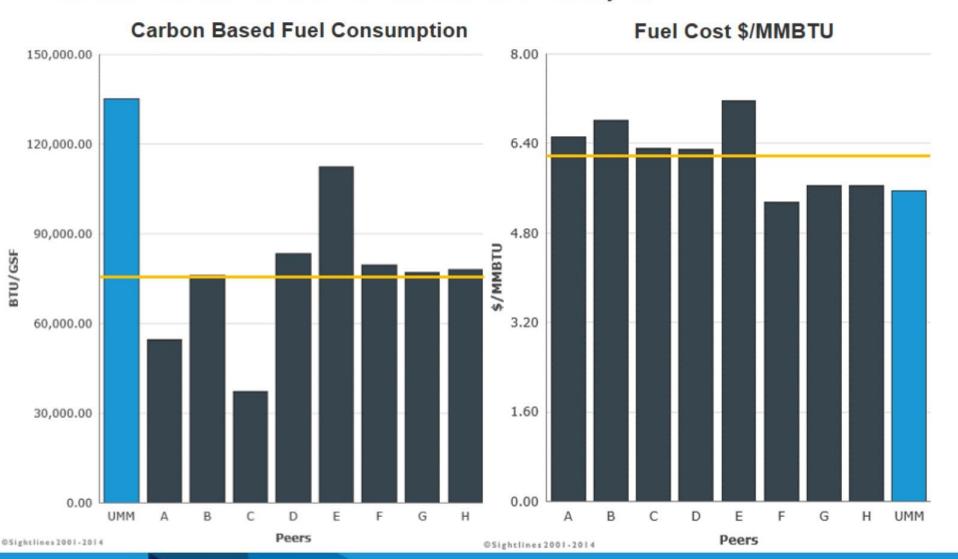




Carbon Based Fuel Metrics



Fossil unit costs have decreased 23% in the last seven years

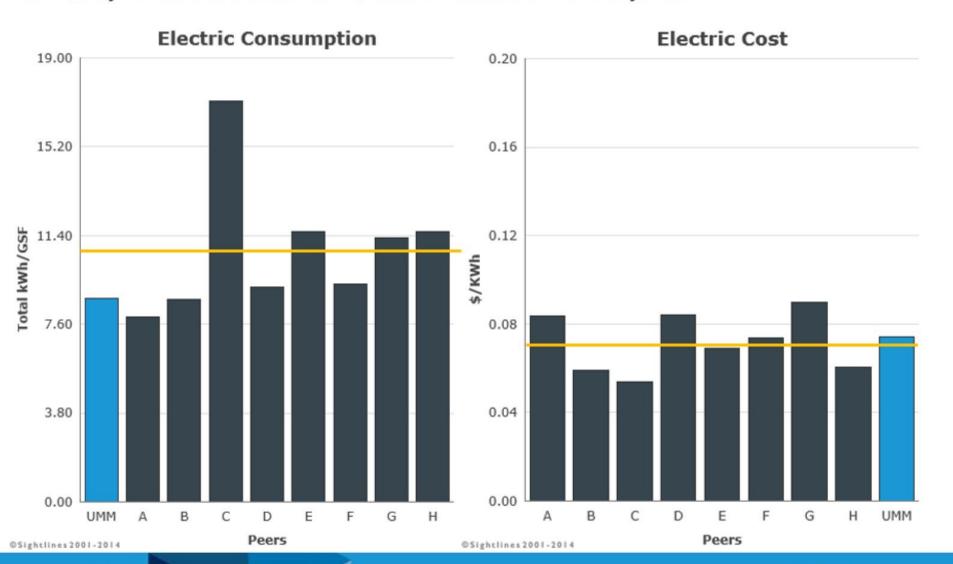




Electricity Metrics



Electricity costs have decreased 22% over the last seven years

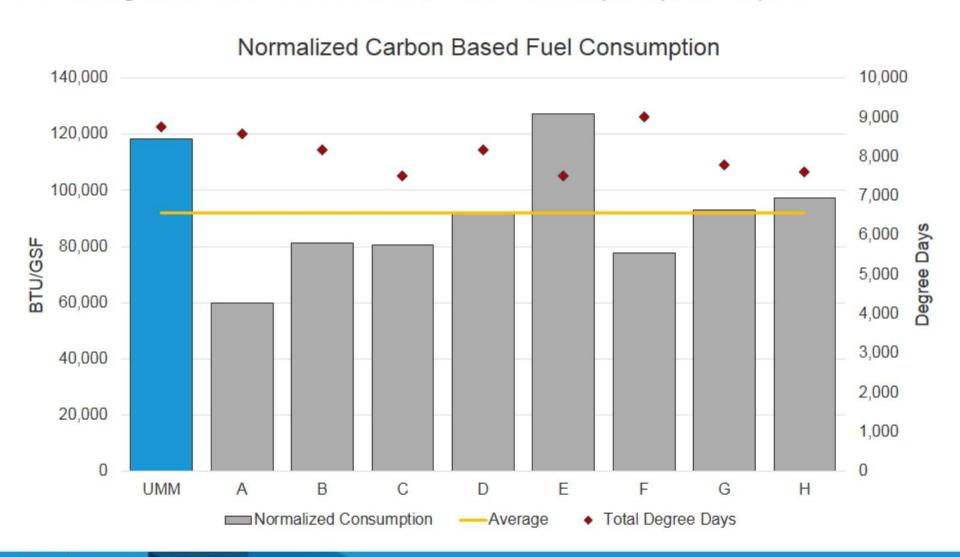




Normalized Energy Consumption



Accounting for weather considerations, UMM's consumption profile improves







Concluding Comments

2015 Concluding Comments



UMM has an old and aging campus in need of renovations. Doing so would relieve stress on operations and utilities.

UMM has a similar campus to peers but have had much fewer renovations

- Without renovations, the campus makeup puts facilities at a disadvantage operationally
- With almost 70% of space over 25 years of age, many challenges will surface in the next decade

A capital plan is needed to address the need across campus

- The backlog of need on campus is large but not unsurmountable. However, if funding levels don't increase managing the need will be a challenge
- In particular, more frequent infusions of larger one-time funding would allow for major renovations that help to manage the age and risk of campus

Monitor how operations is performing, especially as buildings continue to age

- Inspection scores are positive, but this may change as staff is stressed by a greater quantity and urgency of calls if issues aren't resolved through capital funding
- Utility consumption is high, even when accounting for weather related challenges, signaling the impact of age and deferred maintenance on efficiency

