

Wesleyan University FY20 ROPA+ Presentation

April 2020

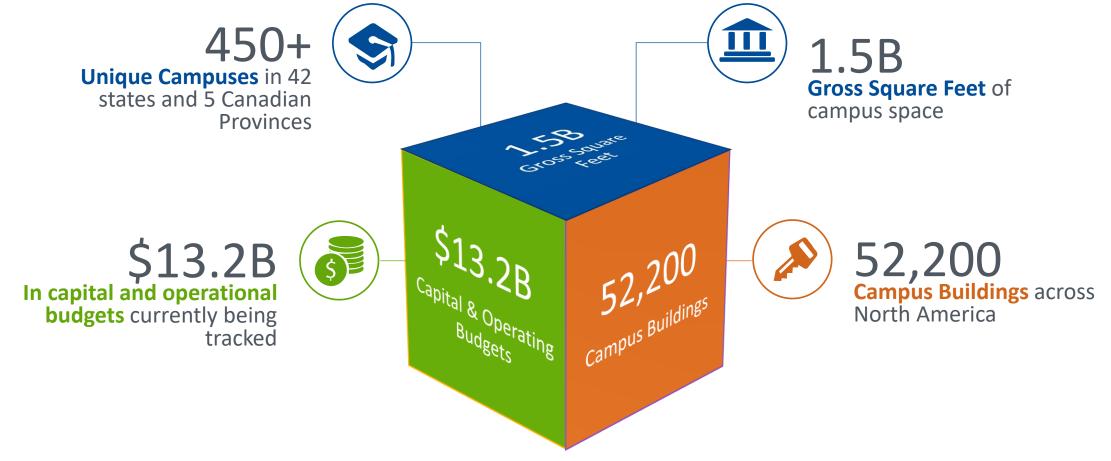
University of Toledo University of Vermont University of Washington University of West Florida University of Wisconsin - Madison Vanderbilt University Virginia Commonwealth University Wake Forest University Washburn University Washington State University Washington State University - Tri-Cities Campus Washington State University - Vancouver Washington University in St. Louis Wayne State University Wellesley College Wesleyan University West Chester University West Virginia Health Science Center West Virginia University Western Oregon University Westfield State University Widener University Williams College Worcester Polytechnic Institute Worcester State University **Xavier University**



Gordian and Sightlines

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Vocabulary for the Return on Physical Assets (ROPA) Model

Annual Stewardship

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

Asset Reinvestment

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

Operational Effectiveness

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

Service

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

Asset Value Change

Operations Success



Wesleyan Peer Institutions

SLAC Institutions

Institution	Location
Amherst College	Amherst, MA
Bowdoin College	Brunswick, ME
Carleton College	Northfield, MN
Davidson College	Davidson, NC
Haverford College	Haverford, PA
Mount Holyoke College	South Hadley, MA
Pomona College	Pomona, CA
Swarthmore College	Swarthmore, PA
Williams College	Williamstown, MA



Comparative Considerations

Size, technical complexity, region, geographic location, and setting are all factors included in the selection of peer institutions



Complexity of Building Systems Similar to Peer Average

A higher tech complexity will typically drive operational and capital costs higher

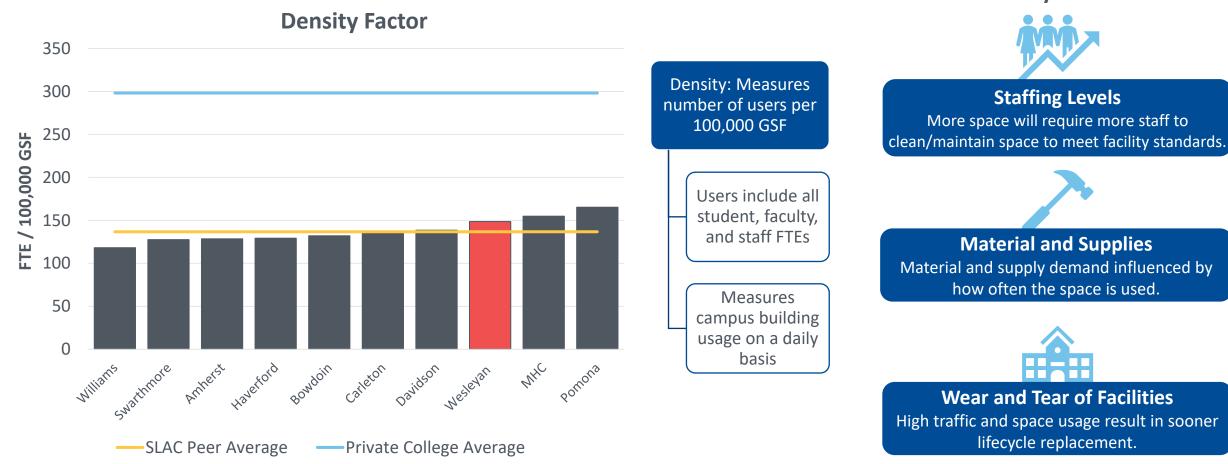
Technical Complexity 5.0 **Staffing Demands** 4.0 More complex systems will require Tech Rating 1-5 higher skillsets to maintain. 3.0 2.0 **Repair & Replacement Cost** Complex systems will require more 1.0 capital investment to repair and replace. 0.0 Williams Swarthmore Haverford Wesleyan MHC Bowdoin Carleton Pomona Davidson Amherst SLAC Peer Average Private School Average **Energy Consumption** 2. Academic 3. Academic 5. High-End Complex systems can be more energy 4. Academic 1. House building with no building with Science Research Science Facility intensive. central cooling central cooling or Hospital

Tech Rating Affects:

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Wesleyan Third Highest Density Amongst Peers

More people moving through the space creates more wear and tear on facilities



Density Affects:



Integrated Campus Stewardship



Space: Understanding your largest asset

- Wesleyan's Main Campus growth is similar to peers. However, rental property GSF decreased by 45% since FY02
- The majority of space is in the highest risk category, over 50 years old.



Capital: Investment planning to align mission and risk

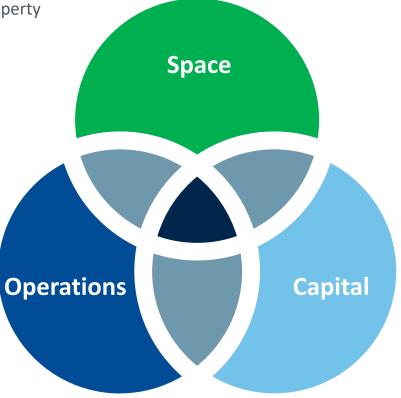
- Capital investments into existing space decrease in FY20 by \$1.8M
- Major Maintenance funds are growing, helping Wesleyan to achieve the FY19 Sightlines recommended Annual Investment Target. However, the Major Maintenance fund is projected to decrease by \$2M in FY21
- Backlog of need is higher than peers and growing over time.



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Operations: Improve effectiveness and lower overhead

- Daily service resources are lower than peers
- Wesleyan's energy consumption is higher than peers with lower costs

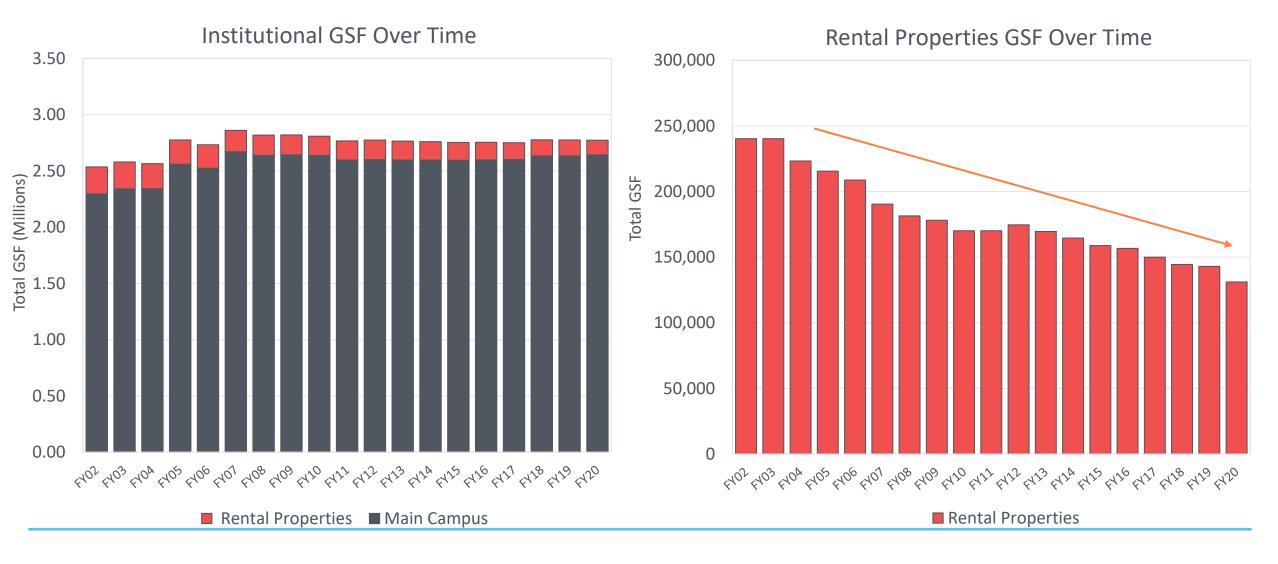


Space Profile



Rental Properties GSF Declining, Main Campus is More Consistent

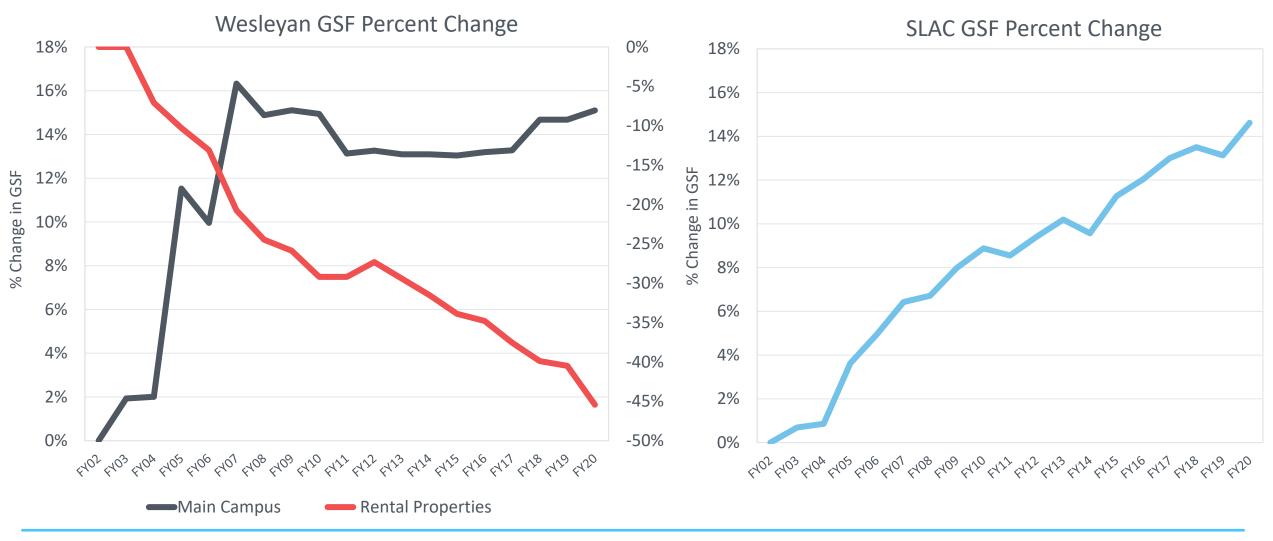
Rental properties GSF have decreased by 45% since FY02





Main Campus GSF Has Changed 15% Since FY02

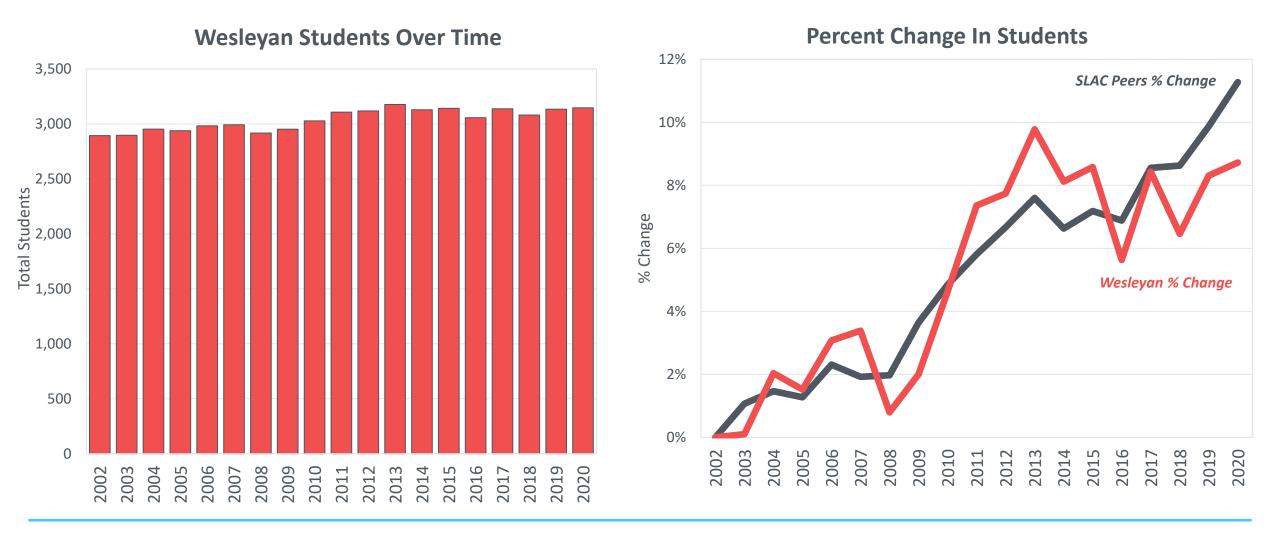
Peers' GSF experienced a steady incline, where Wesleyan had more fluctuations over time





Wesleyan Student Growth Trends Similar to Peers

Wesleyan enrollment grows by 9%, while SLAC grows by 11% since FY02

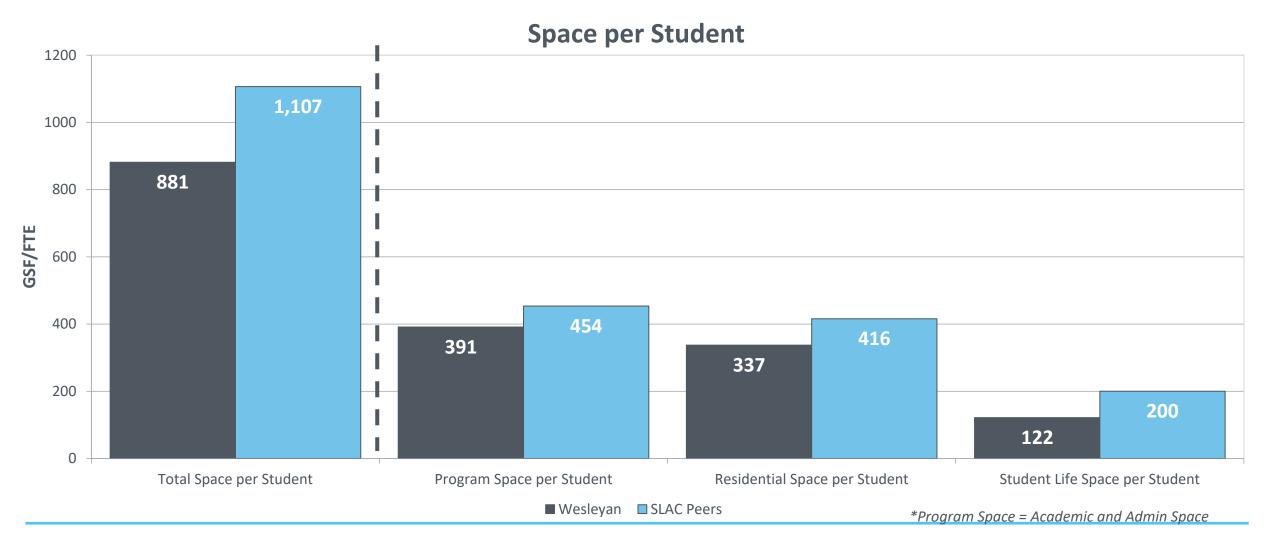




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SLAC Peers Have More Space per Student Than Wesleyan

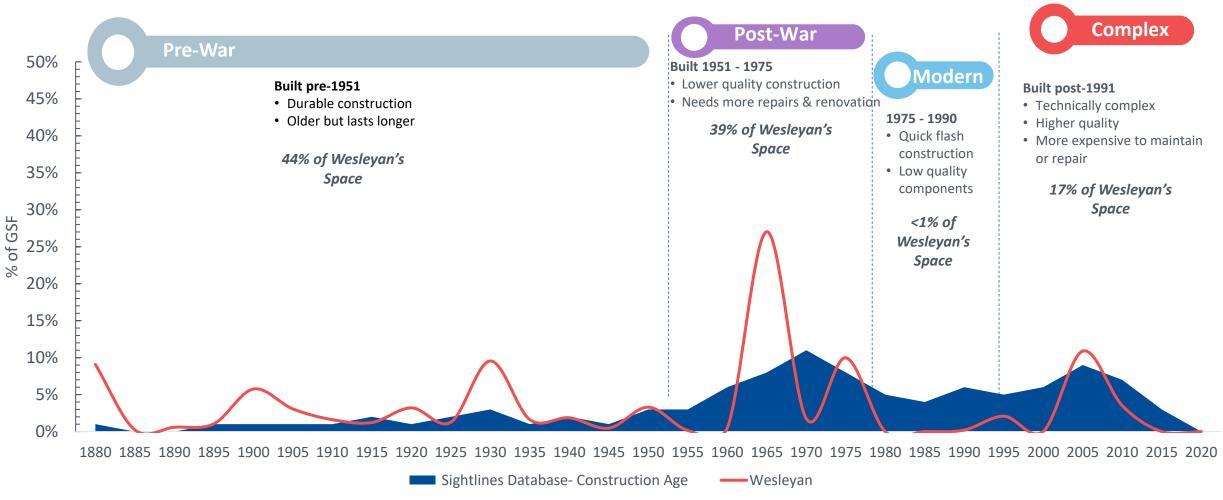
Student life space is the most dense





Putting Wesleyan's Building Age in Context

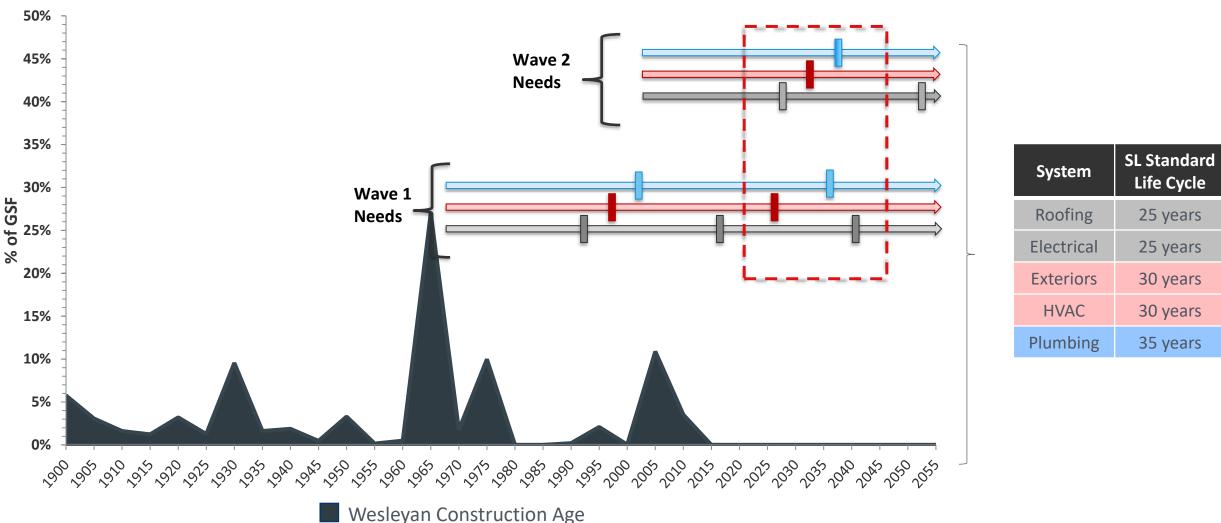
% of GSF by Construction Year





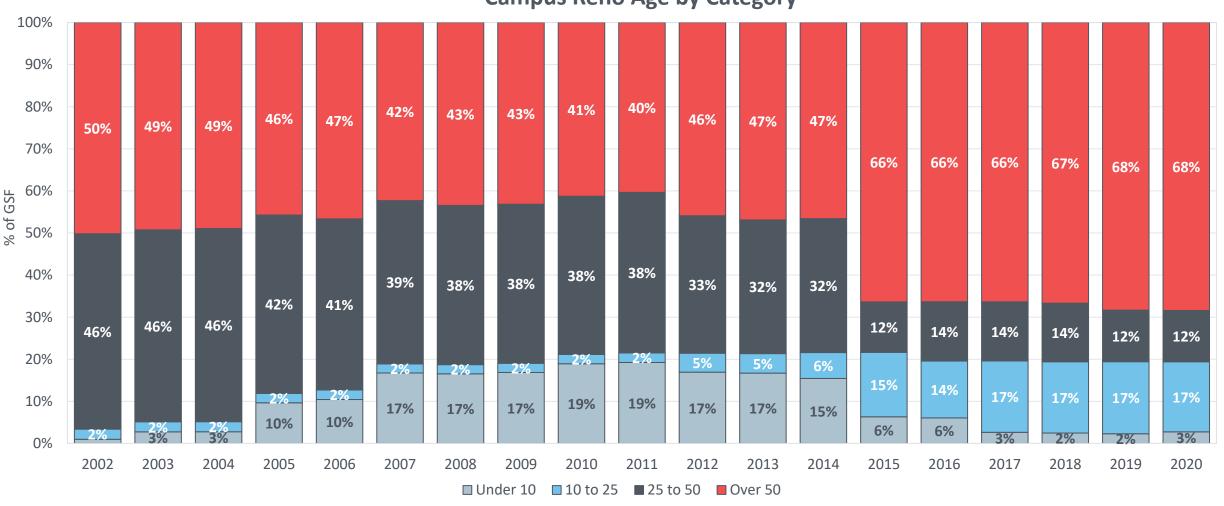
Future Forecast Determined by Life Cycle Models

Two waves of needs will come due at once





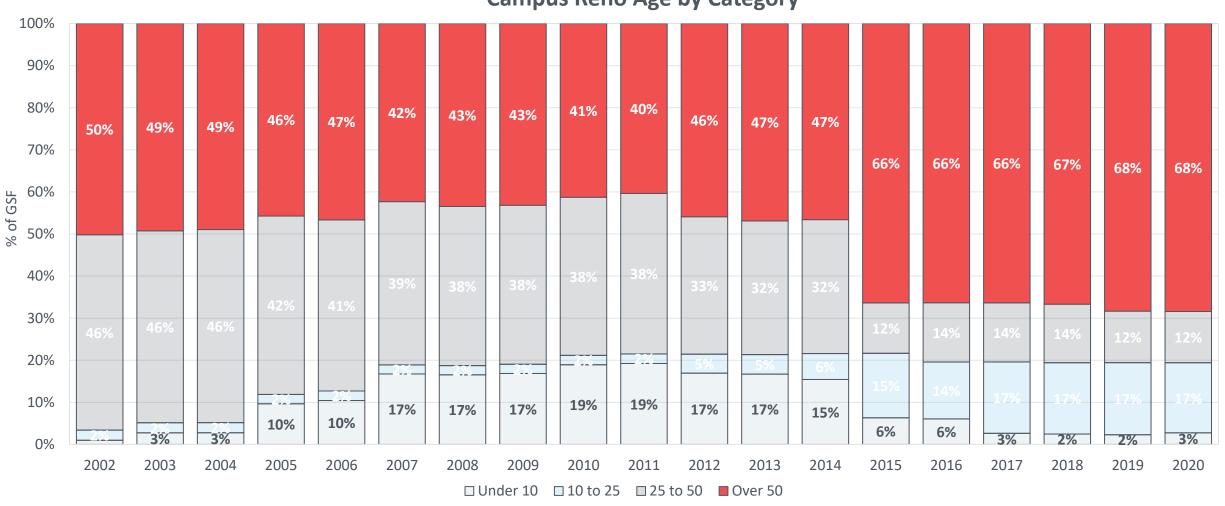
Wesleyan's Building Profile Aging Over Time



Campus Reno Age by Category



Over 50 Category Grows 18% Since FY02



Campus Reno Age by Category

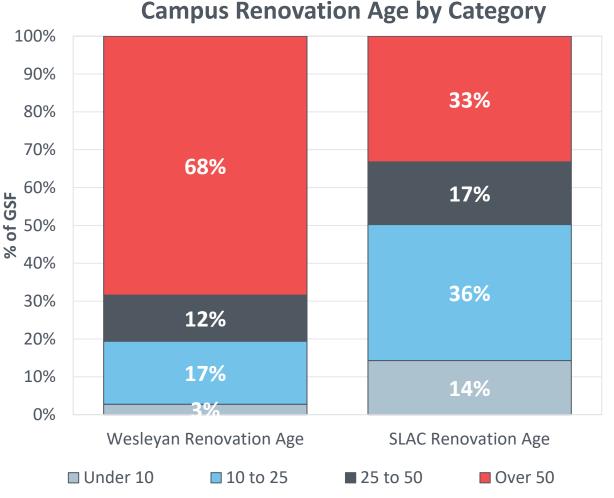


Majority of Space is Over 50 Years Old

Peers' renovation age profile is more evenly distributed



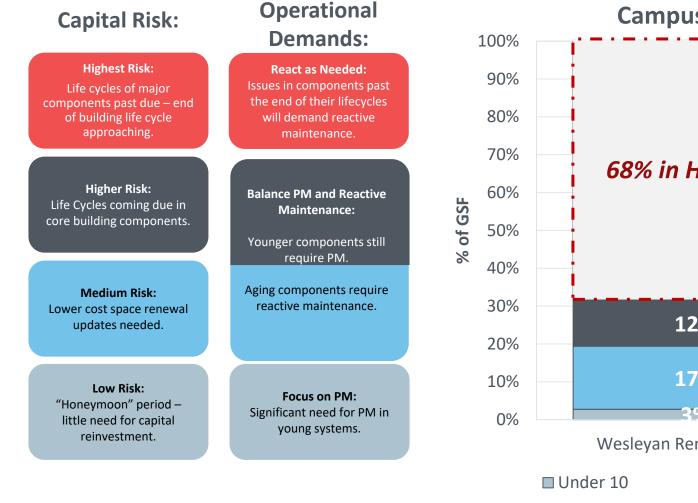
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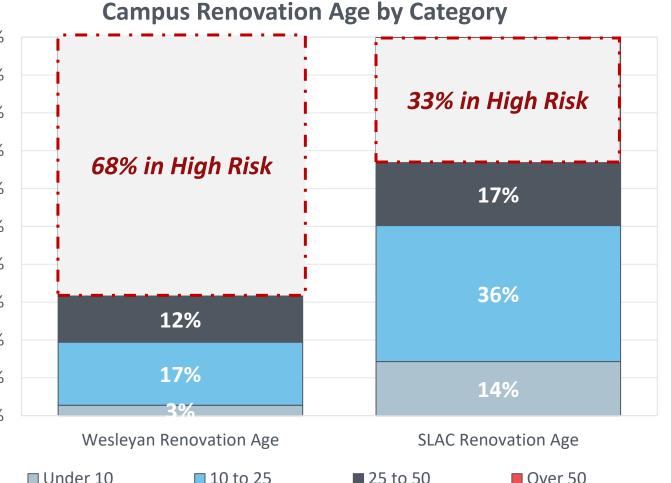


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Wesleyan's Age Distribution Falls Mostly in Over 50

Wesleyan has a higher risk profile with 35% more space in the over 50 category than peers

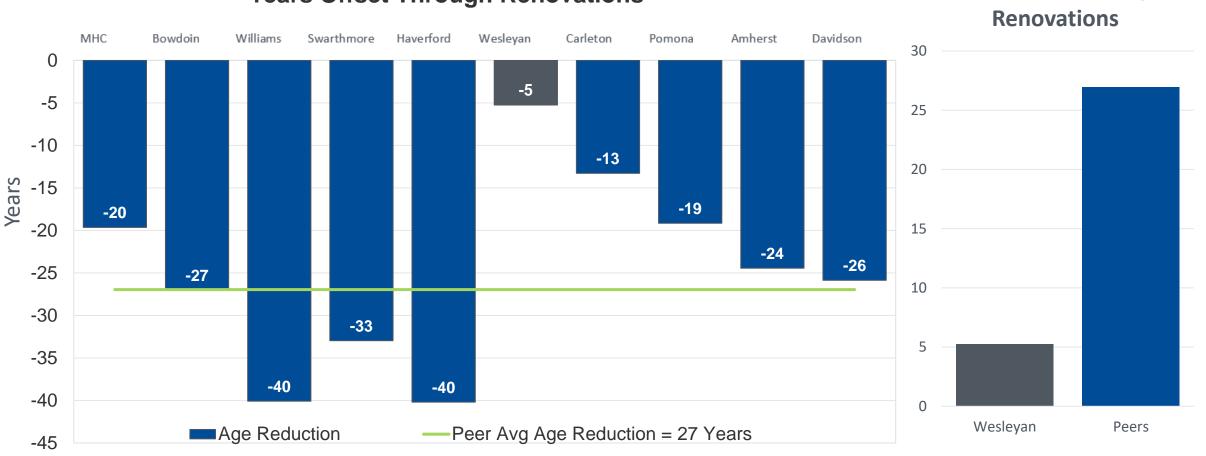






Peers Use Full Renovations As A Strategy To Lower Risk

On average, peers' offset campus age five times more than Wesleyan

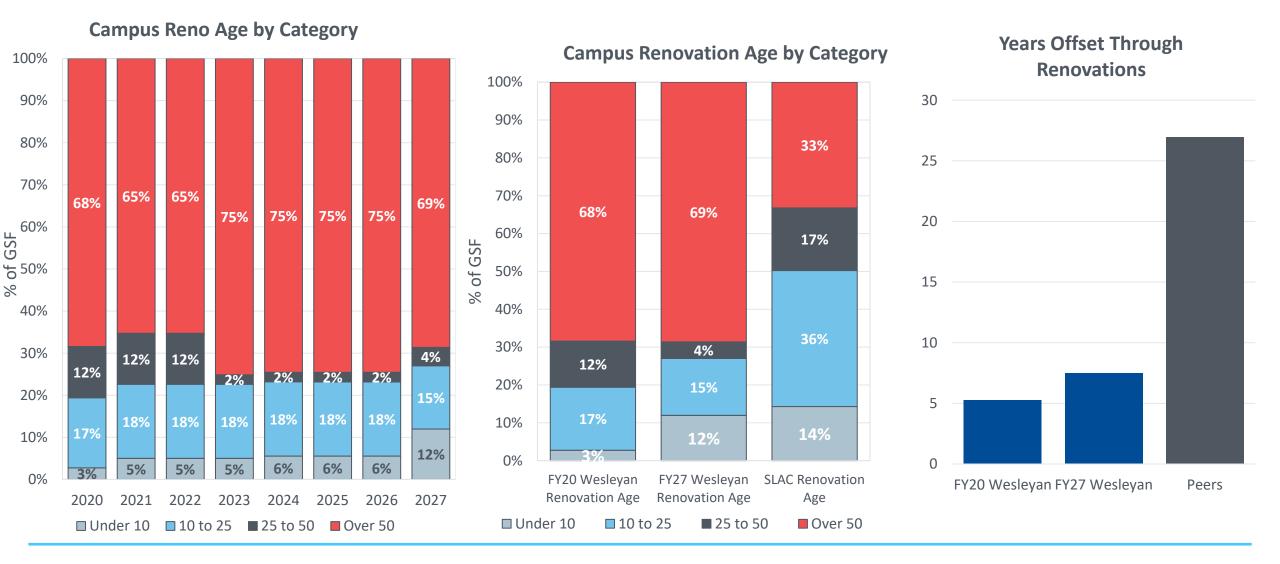


Years Offset Through Renovations



Years Offset Through

Impact of Upcoming Space Changes on Campus Age



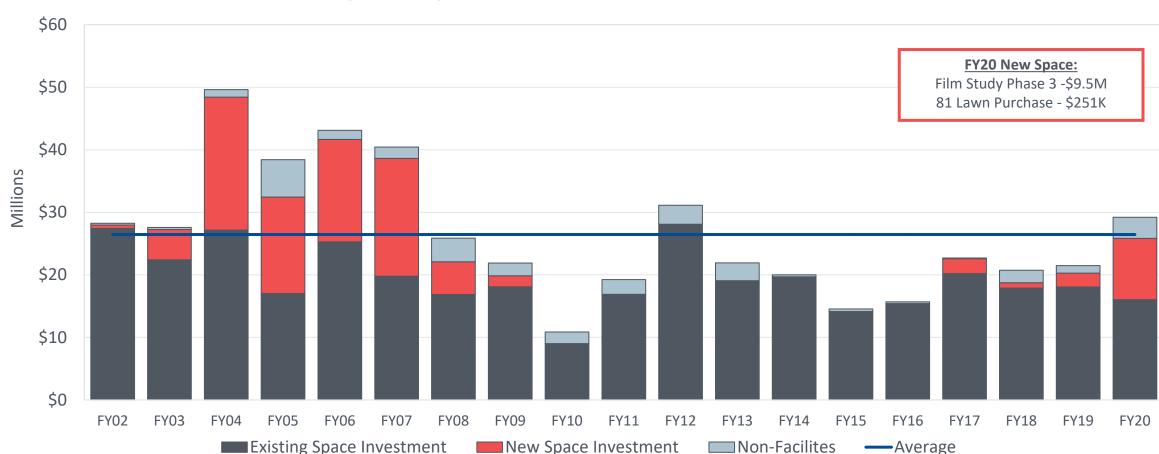


Asset Value Change



Total Investment FY02-FY20: \$502.7M

FY20 investment \$29.2M



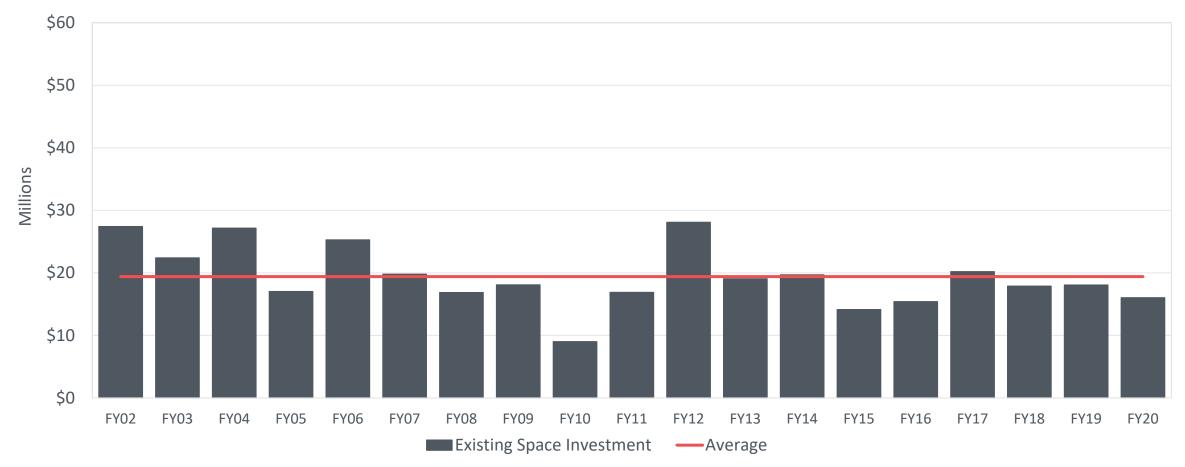
Total Capital/Major Maintenance Investments from FY02-FY20



Investment into Existing Space Decreases in FY20

Average annual investment: \$19.4M

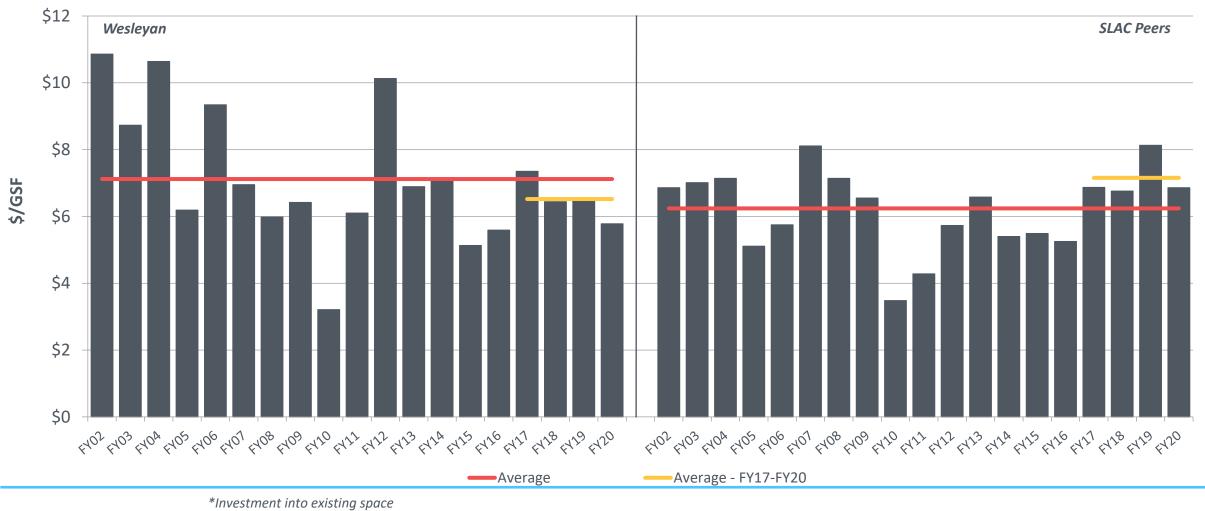






Investments into Existing Space Below Peers in FY20

On average, Wesleyan invests \$.88/GSF more than peers from FY02-FY20

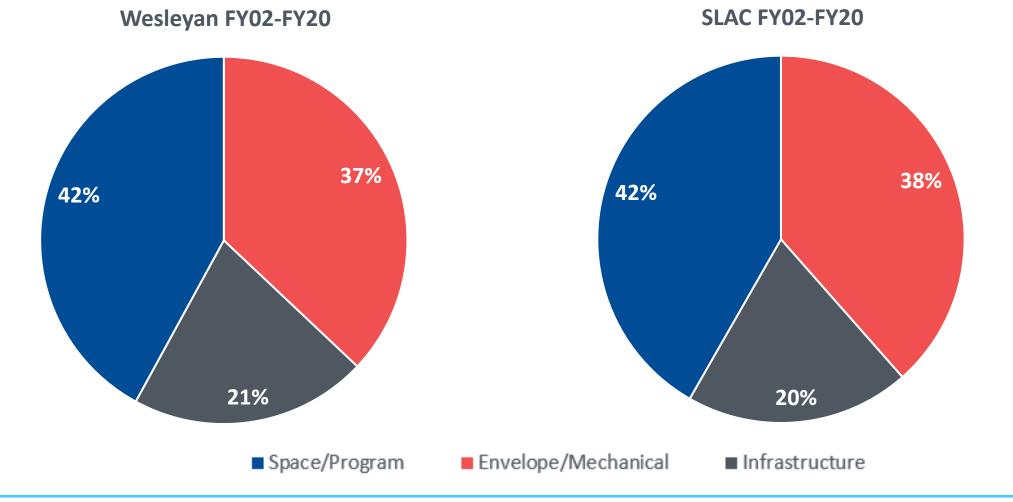


Total Investment \$/GSF vs. Peers



Historic Investments by Package Similar to SLAC Distribution

The Envelope and Mechanical package has the highest ROI and should prioritized

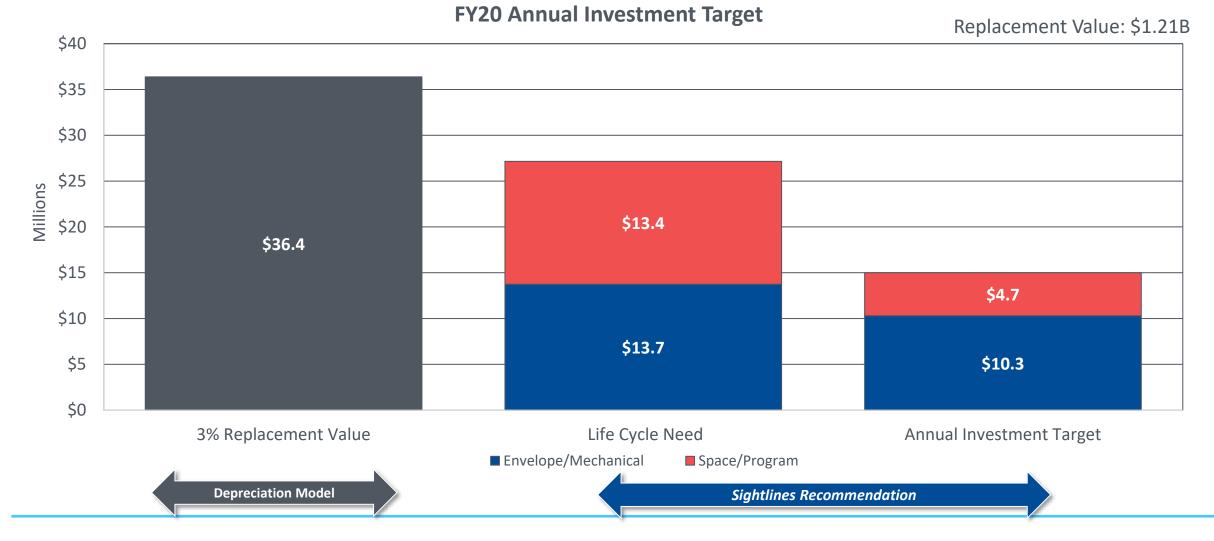


*Investment into existing space



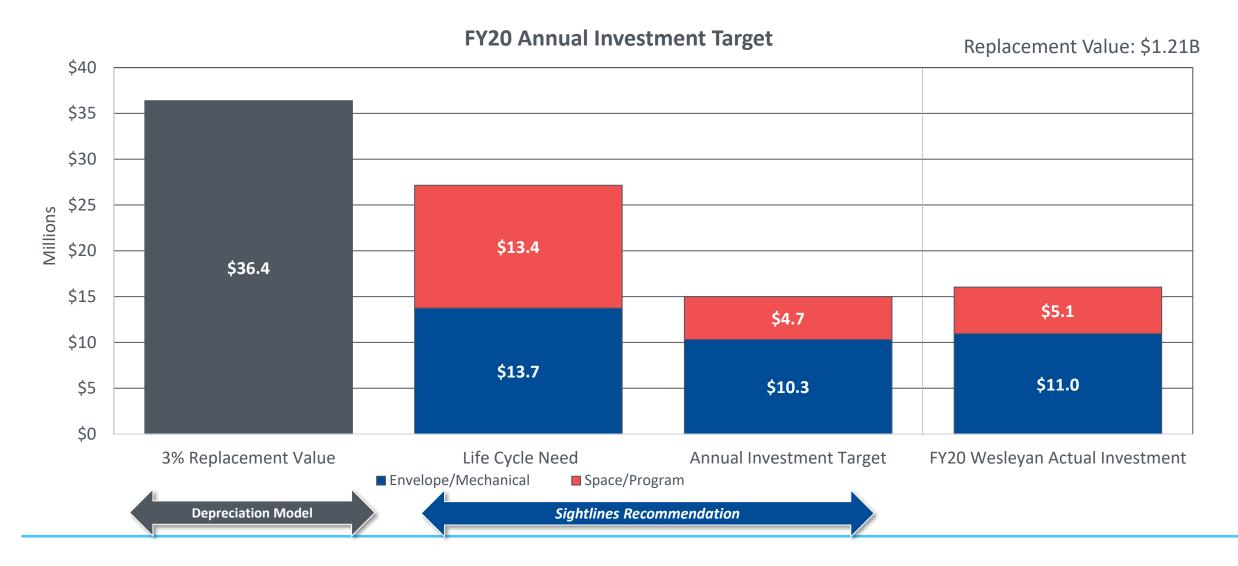
Defining an Annual Investment Target for Wesleyan

Annual Funding Target: \$15.0M



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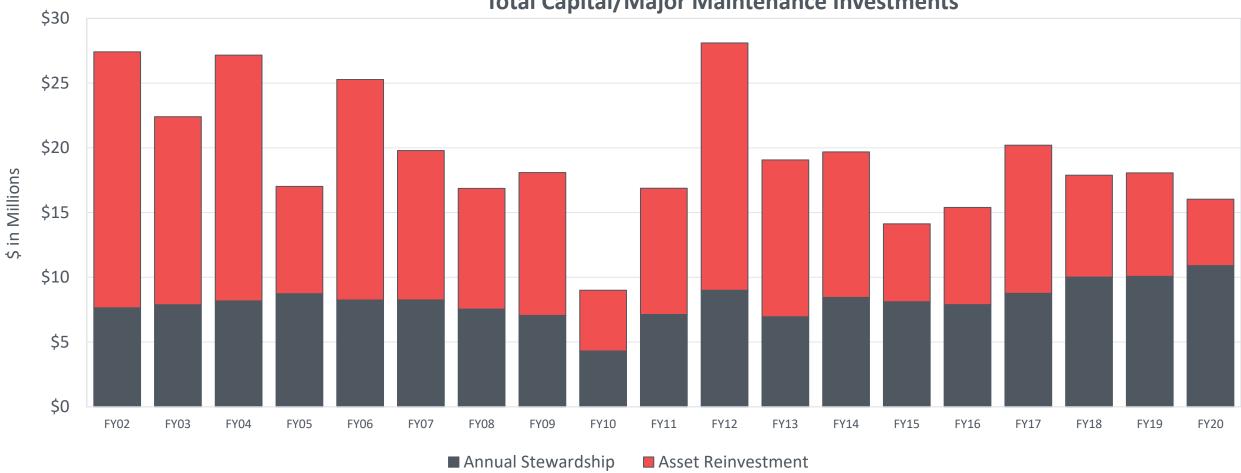
FY20 Capital Investment Meets Annual Need





Growing Major Maintenance Funds

Major Maintenance funds have been on the rise since FY16

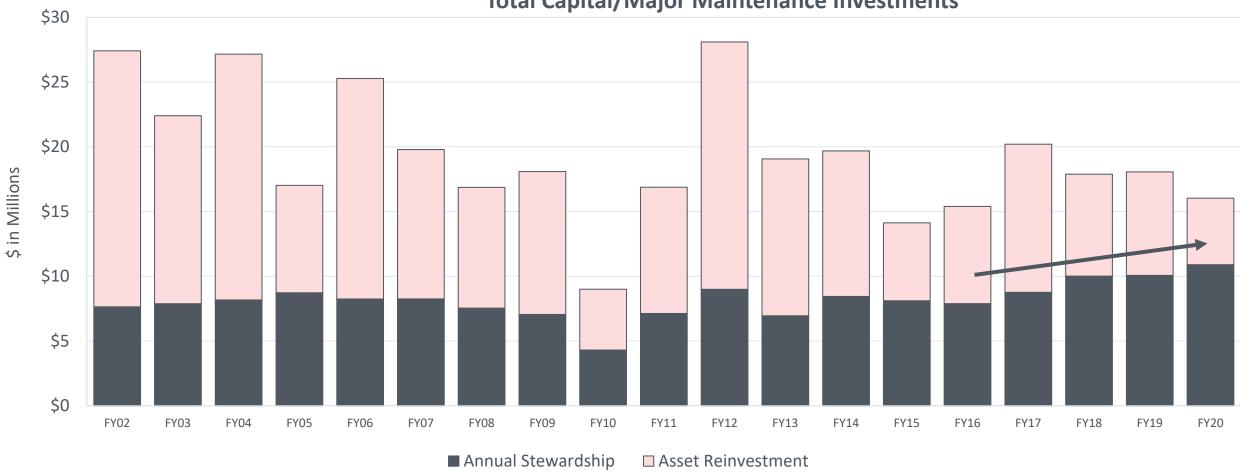


Total Capital/Major Maintenance Investments



Growing Major Maintenance Funds

Major Maintenance funds have been on the rise since FY16

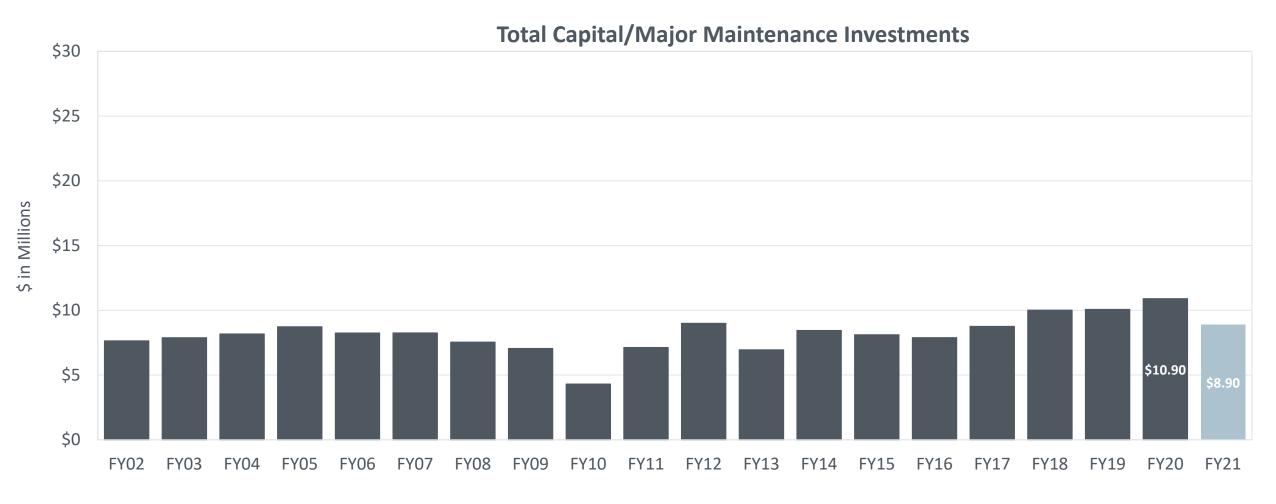


Total Capital/Major Maintenance Investments



Major Maintenance Fund Expected to Decrease in FY21

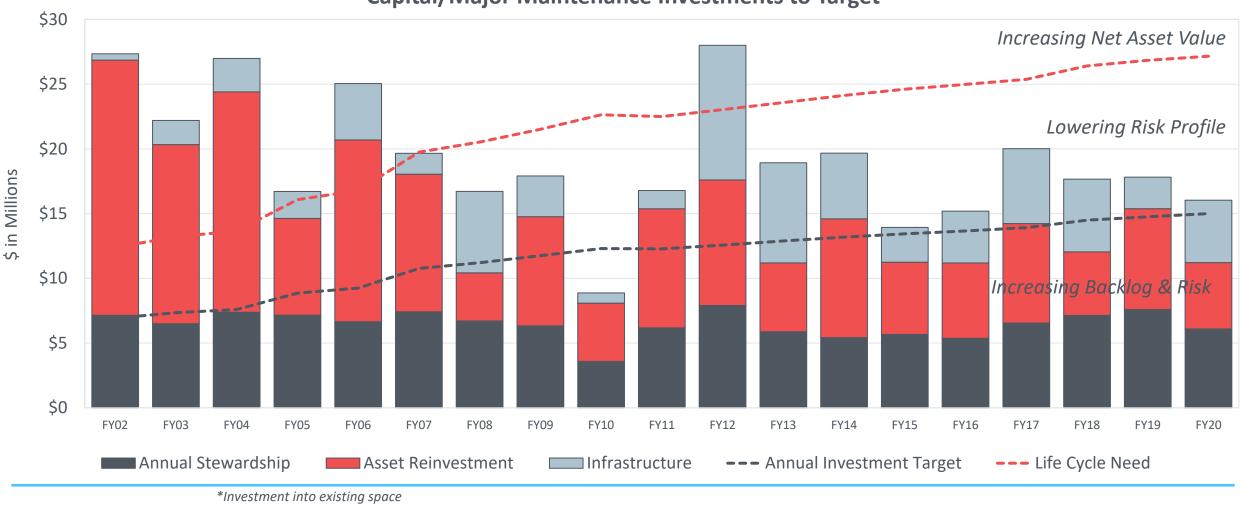
Major Maintenance funds projected decrease: \$2M





Chasing A Growing Target

Wesleyan meets target in FY20



Capital/Major Maintenance Investments to Target

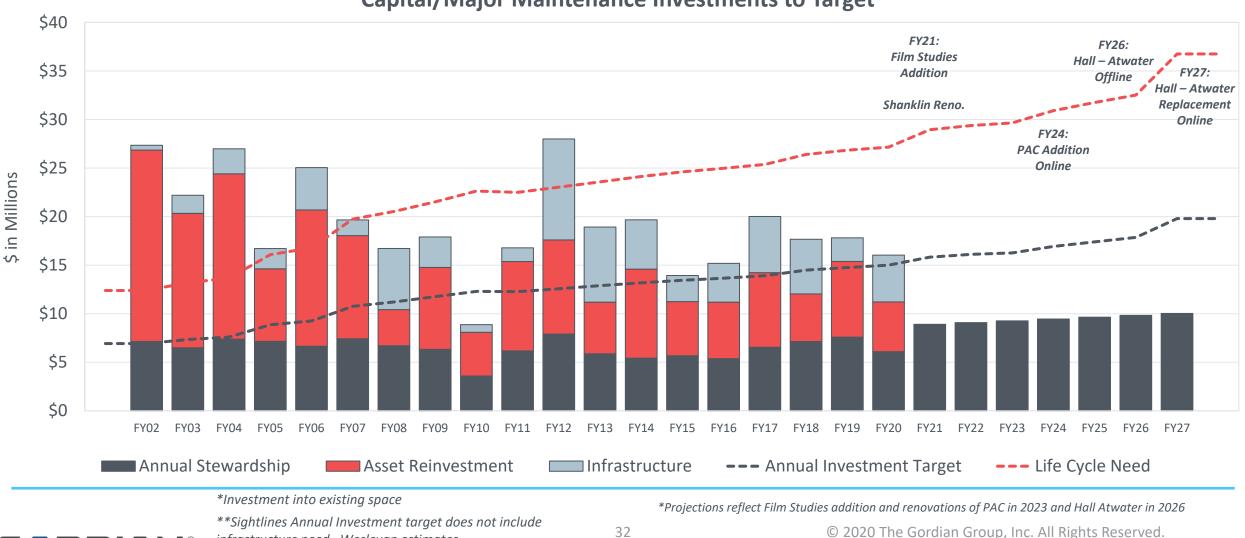


**Sightlines Annual Investment target does not include infrastructure need. Wesleyan estimates approximately \$2M of infrastructure need each year.

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Planned Renovations Provide Insight into Future Target

Stewardship target increases to \$19.8M by 2027 due to renovations and new space



Capital/Major Maintenance Investments to Target

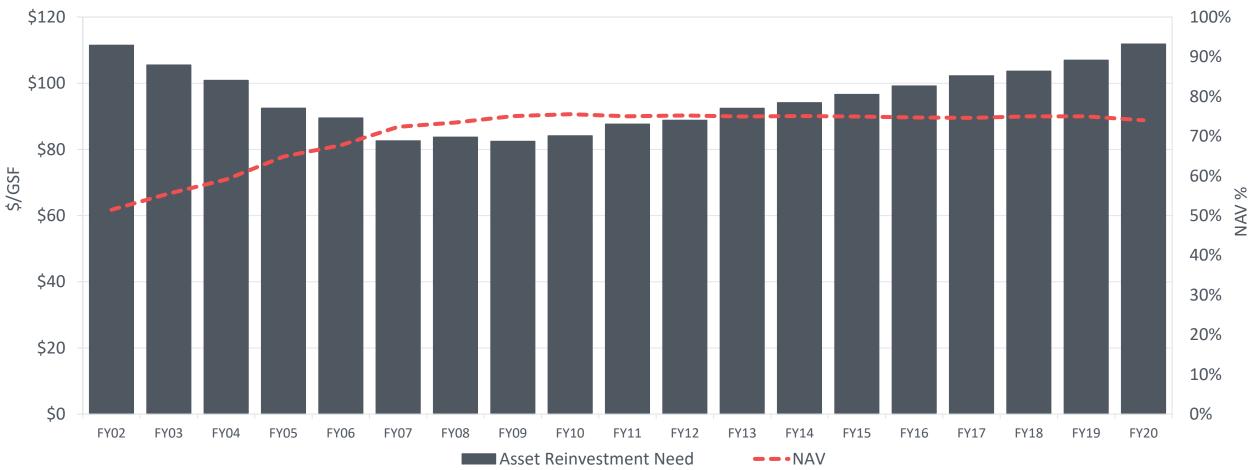
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infrastructure need. Wesleyan estimates approximately \$2M of infrastructure need each year.

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Asset Reinvestment Continues to Grows at Steady Pace

In the last 10 years, AR Need have increased by 27%

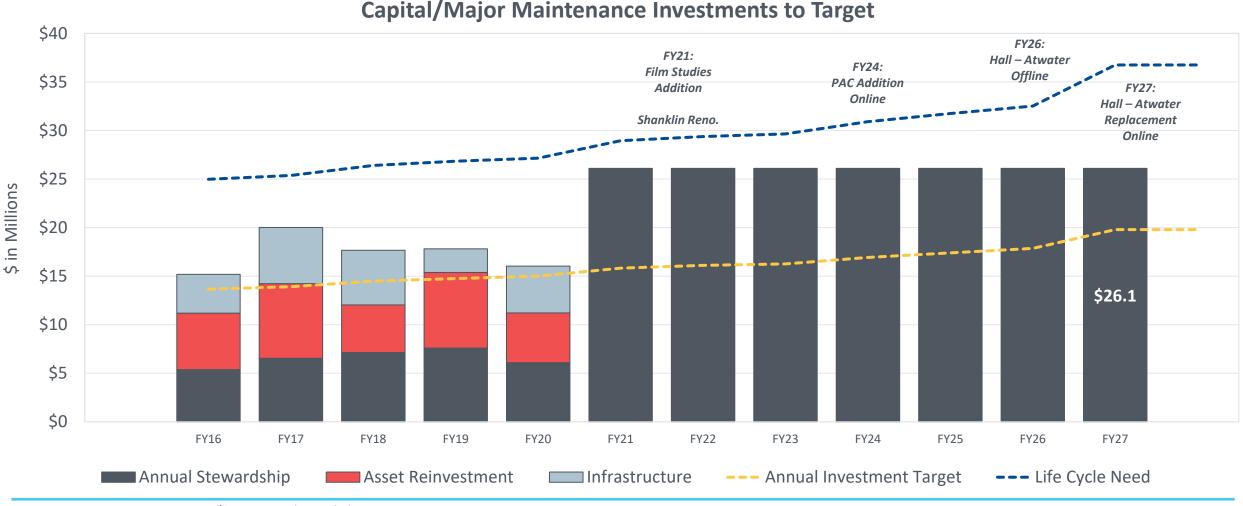


Total Asset Reinvestment Need



\$26.1M per Year to Reach \$100/GSF Campus Need

Wesleyan needs to invest \$26.1M per year until FY27 to decrease backlog from \$112/GSF to \$100/GSF



*Investment into existing space

*Projections reflect Film Studies addition (2021), renovations of PAC (2023), and Hall Atwater Renovation through replacement (2026)

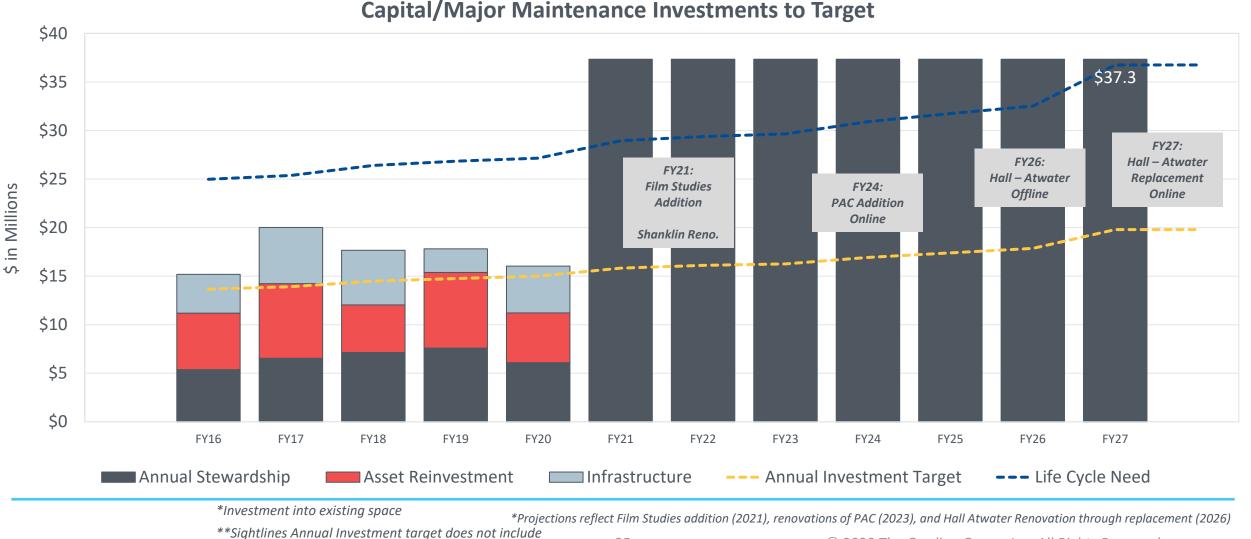


**Sightlines Annual Investment target does not include infrastructure need. Wesleyan estimates approximately \$2M of infrastructure need each year.

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\$37.3M per Year to Reach \$70/GSF Campus Need – SLAC Average

Wesleyan needs to invest \$37.3M per year until FY27 to decrease backlog from \$112/GSF to \$70/GSF



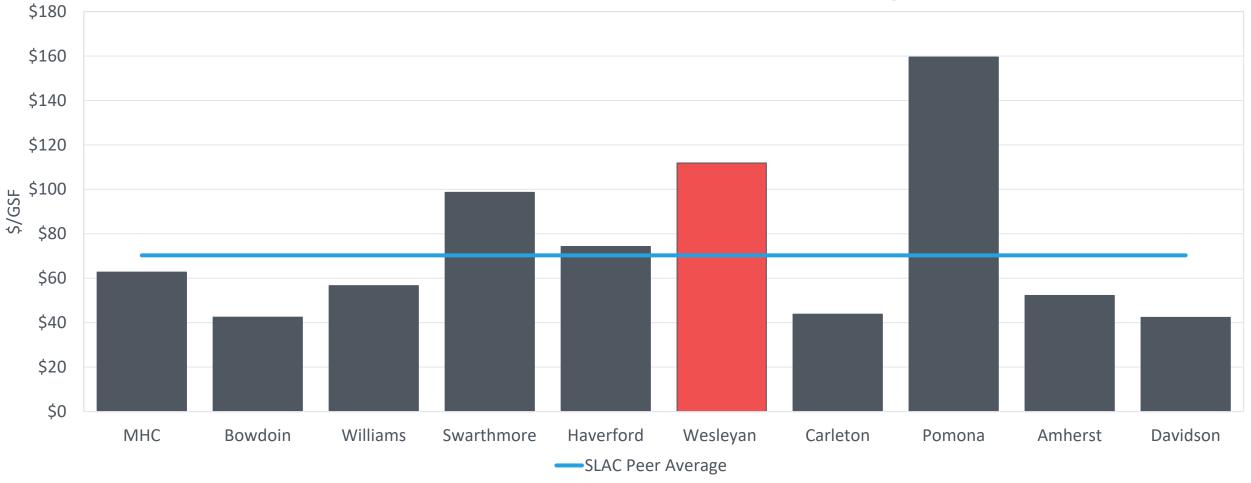
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infrastructure need. Wesleyan estimates approximately \$2M of infrastructure need each year. © 2020 The Gordian Group, Inc. All Rights Reserved.

FY20 Total Asset Reinvestment Need Above SLAC Average

Wesleyan's Backlog is at \$112/GSF; SLAC Peers: \$70/GSF; SL database: \$90/GSF

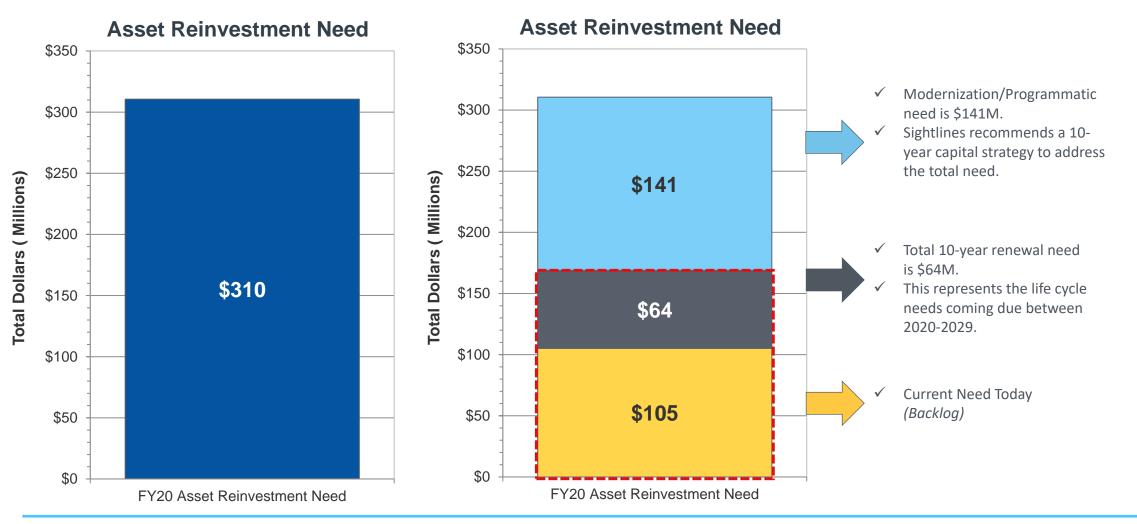
Total Asset Reinvestment Need vs. SLAC Average





Wesleyan's Ten-Year Backlog of Need

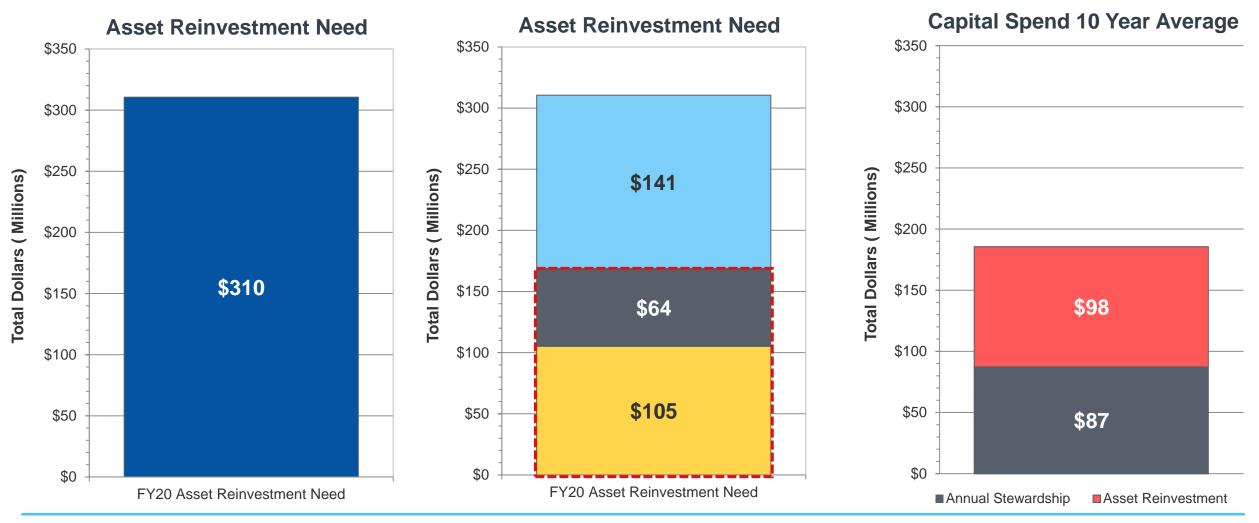
Sightlines quantifies \$169 Million in system-specific need



Modernization and Infrastructure Renewal Need Current Need



Wesleyan's Average Capital Spend Keeps Campus Steady State

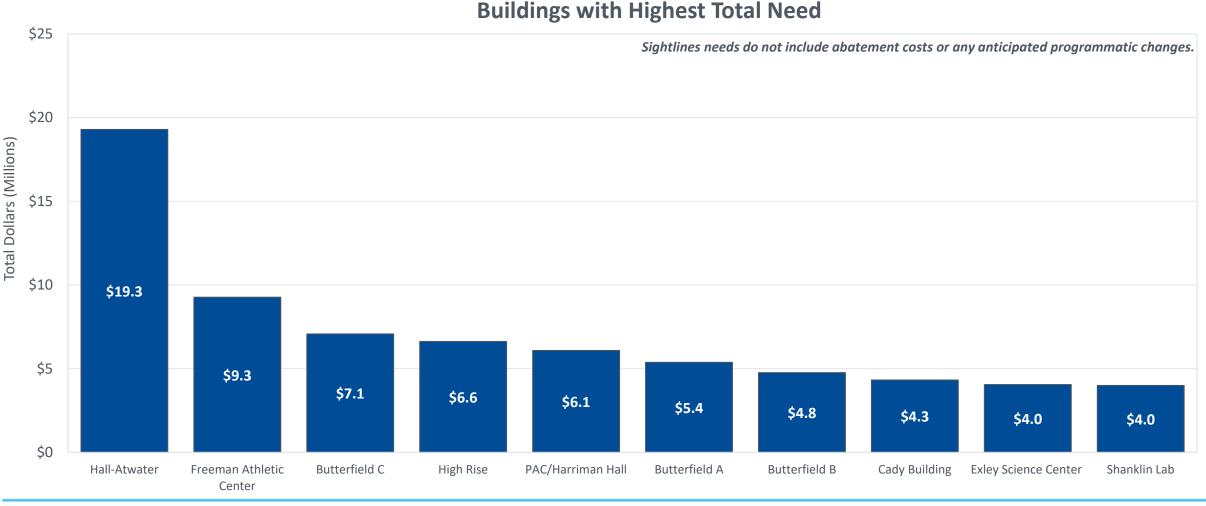


Modernization and Infrastructure Renewal Need Current Need



Top 10 Buildings with Highest Need (Total Dollars)

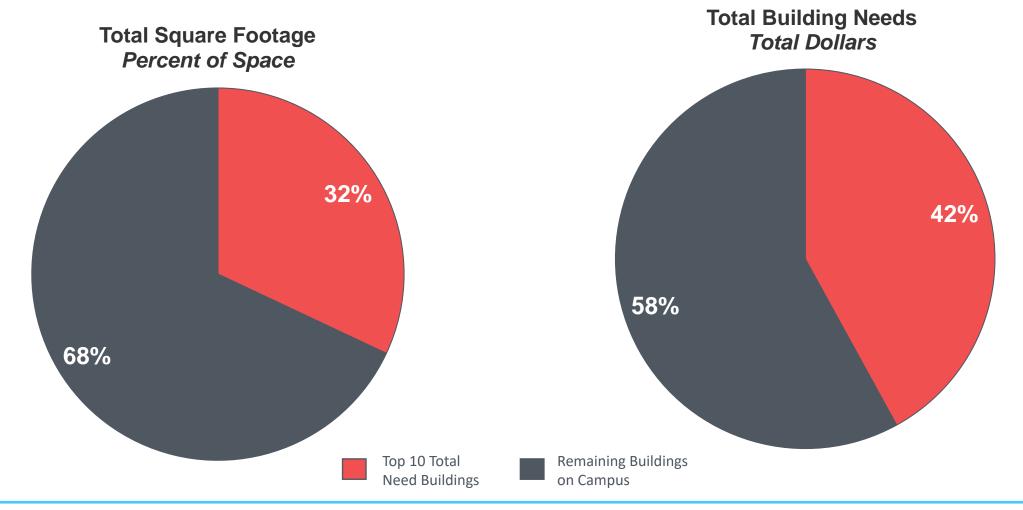
These buildings make up 32% of Wesleyan' space



*Includes only current and renewal needs

Understanding Wesleyan's Top 10 Total Building Needs

Buildings represents 32% of Wesleyan space and 42% of total building needs

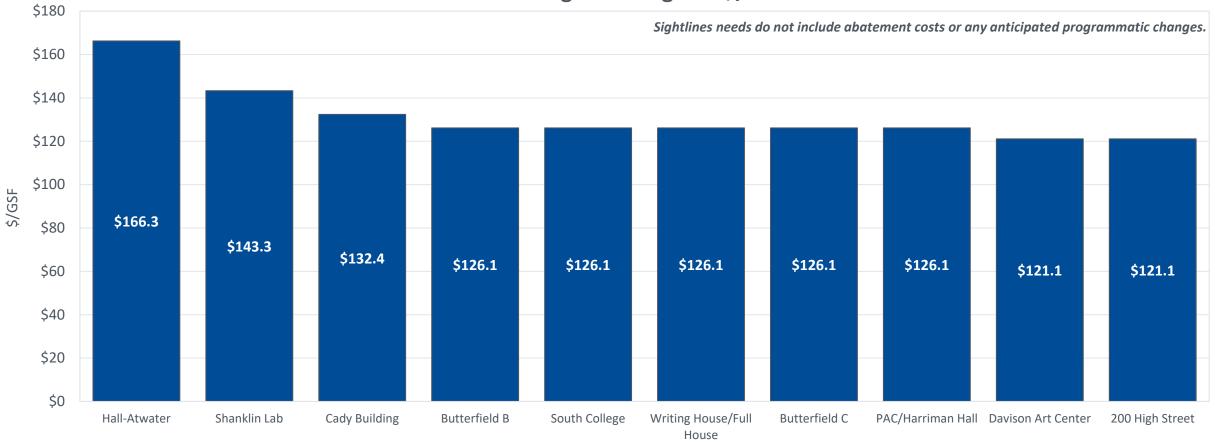


*Includes only current and renewal needs



Top 10 Buildings with Highest Need (\$/GSF)

These buildings make up 13% of Wesleyan' space



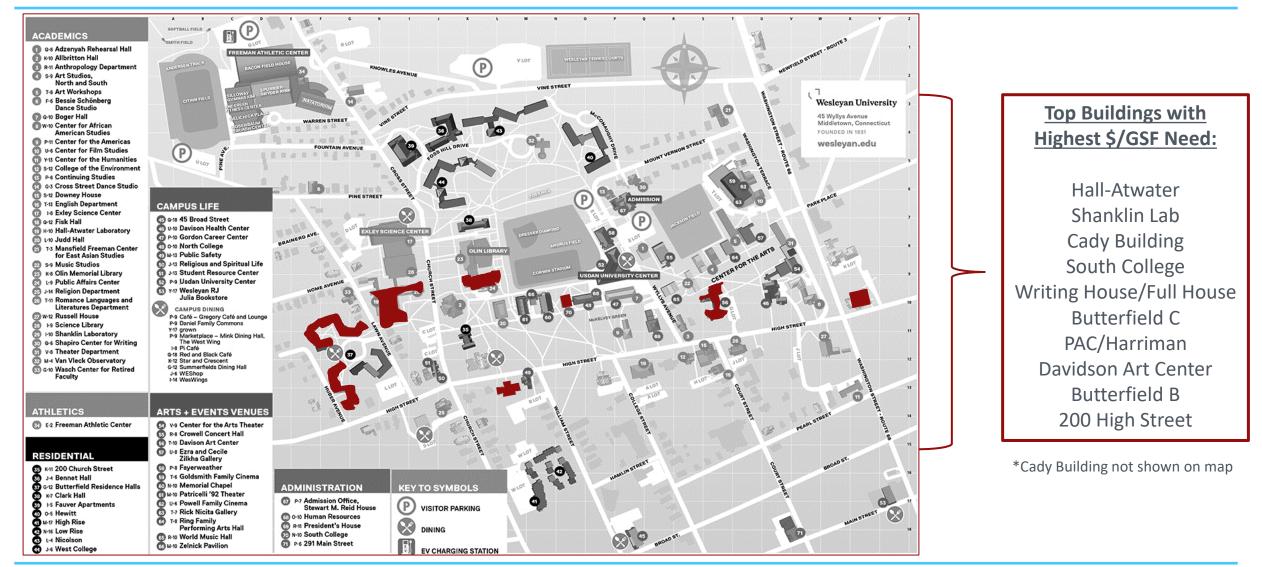
Buildings with Highest \$/GSF Need

*Includes only current and renewal needs



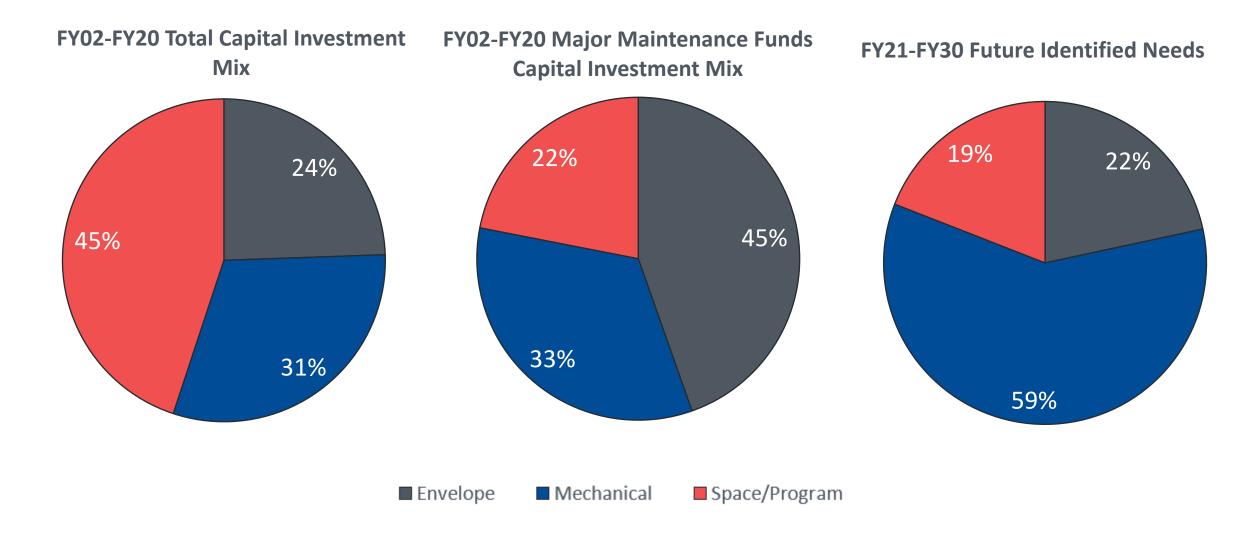
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Mapping Out Buildings Needs Over \$100/GSF





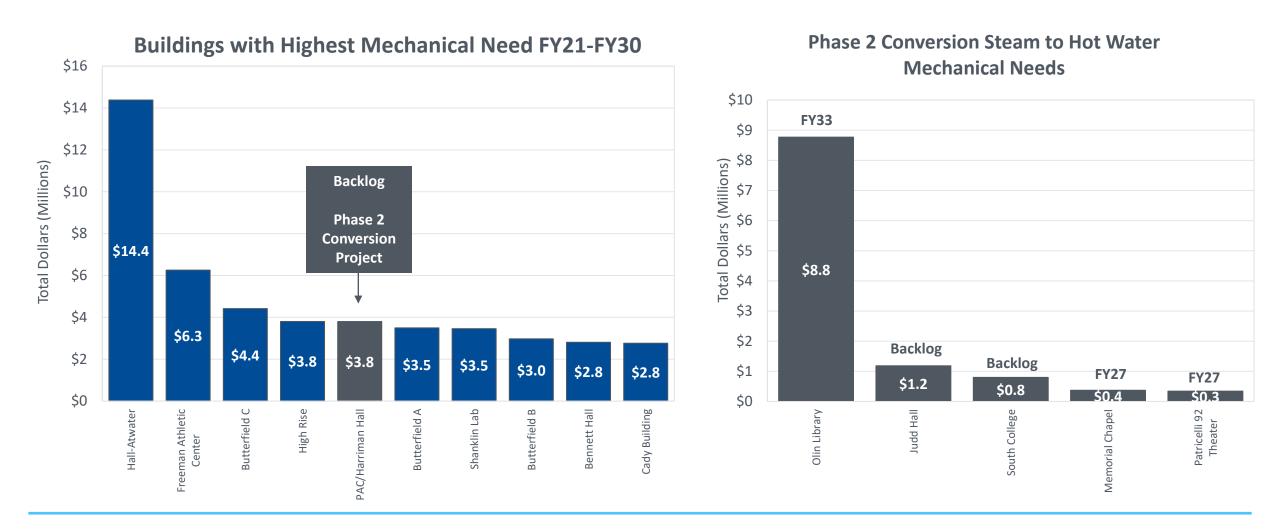
Capital Investment Does Not Map To Future Needs



*FY02-FY19 investment mix does not include new space, non-facilities, or safety/infrastructure

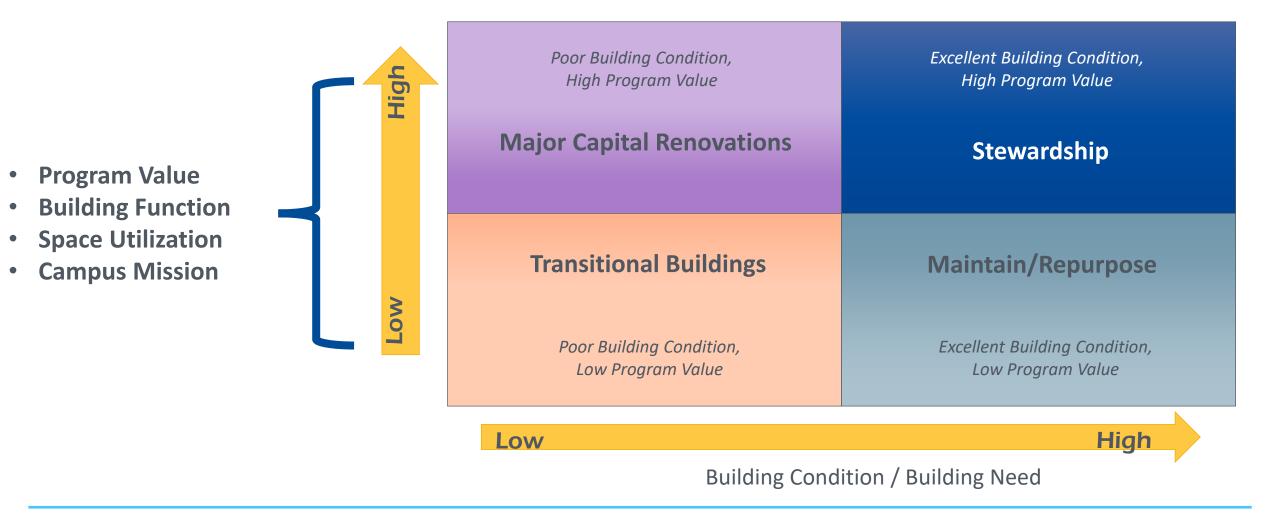


Top 10 Upcoming Mechanical Need Current Need and FY21-FY30 Life Cycles



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Matching Campus Need to Campus Values

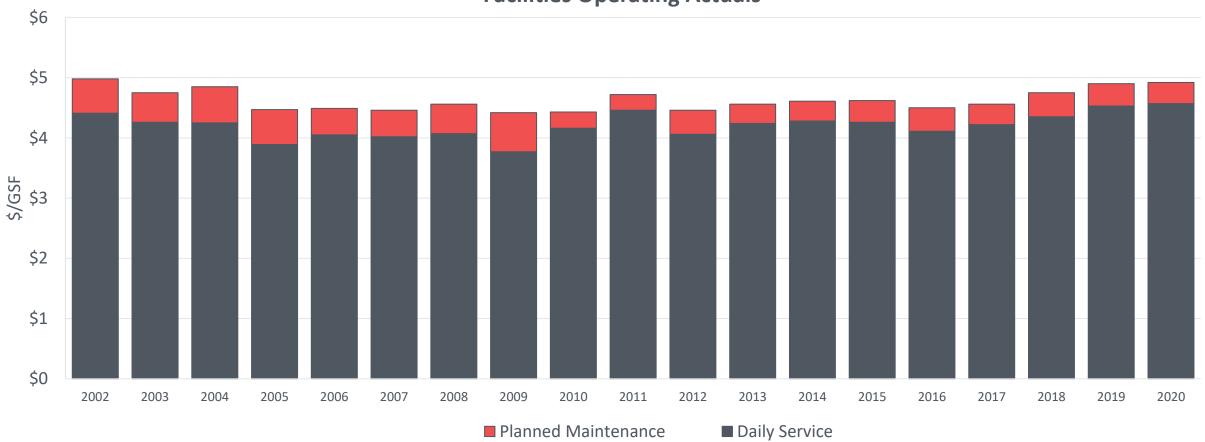




Operations



Facilities Operating Expenditures Over Time

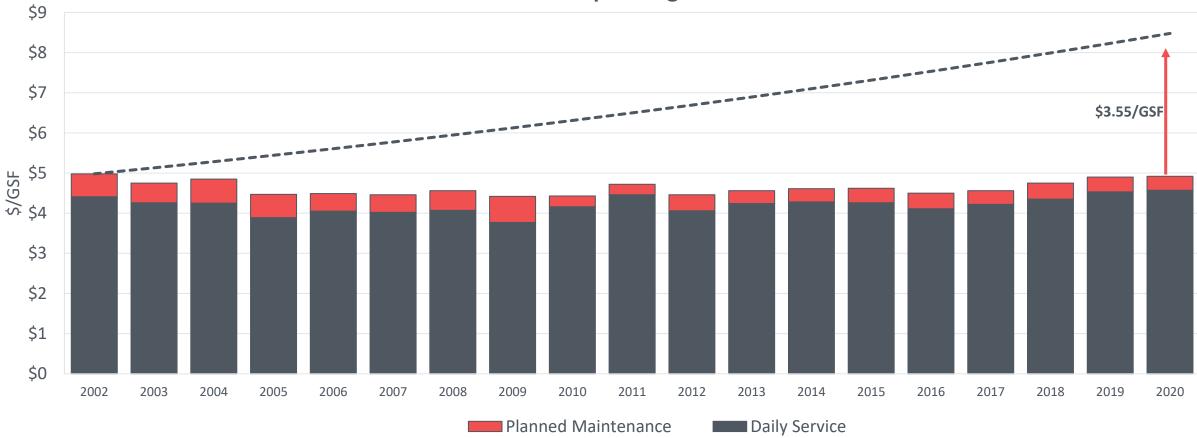


Facilities Operating Actuals



Operating Efficiencies Save \$9.6M Annually by FY20

Investment of \$3.55/GSF or \$9.6M additional resources to match inflation growth in FY20



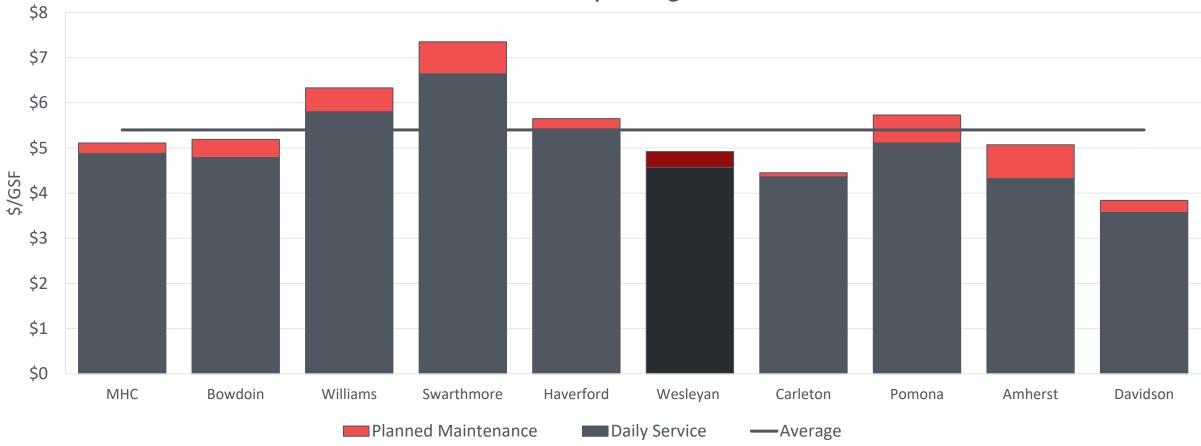
Facilities Operating Actuals

*Assumes 3% Inflation Growth Year Over Year



FY20 Facilities Operating Expenditures

Wesleyan operates with \$1.33M less annually in total operating actuals compared to SLAC peer average

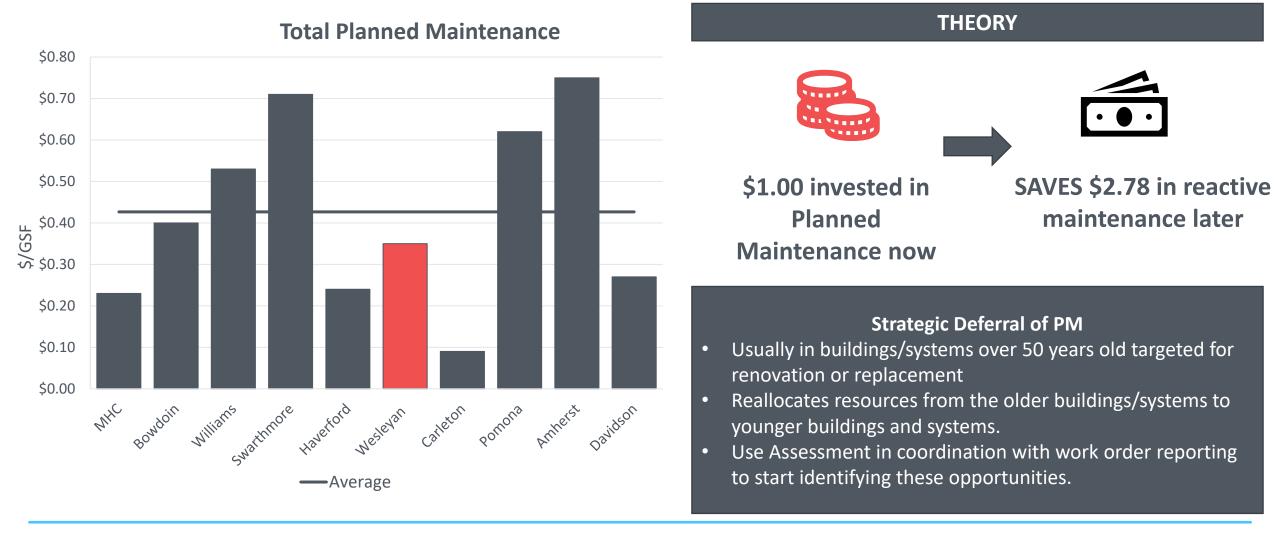


Facilities Operating Actuals



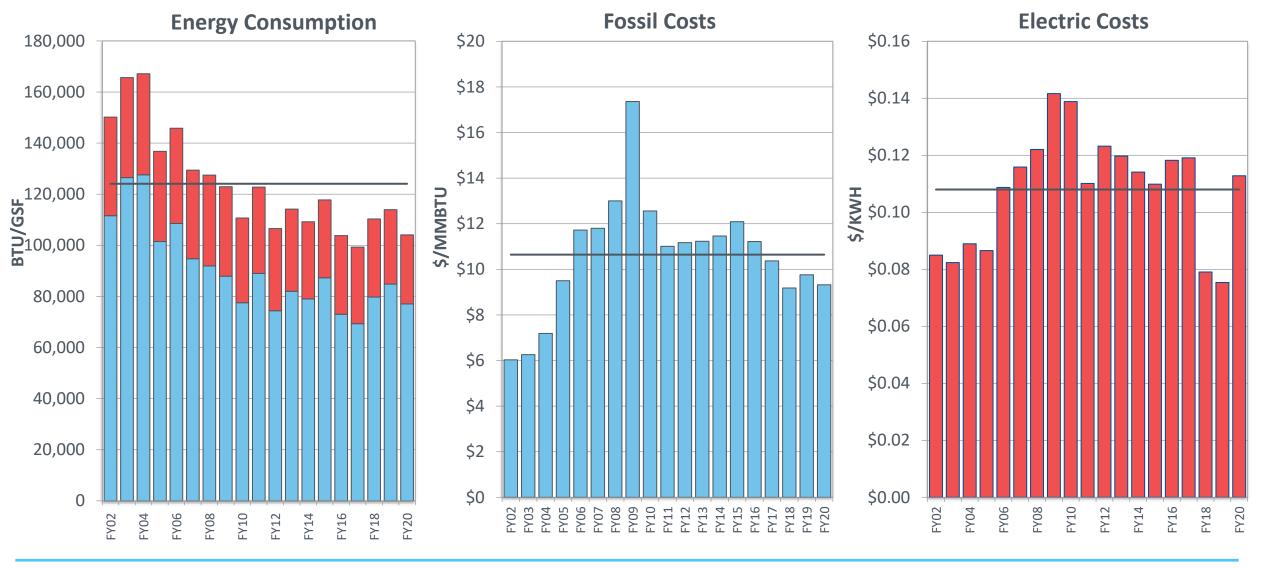
Planned Maintenance Below SLAC Average

Additional \$212K needed to reach SLAC average



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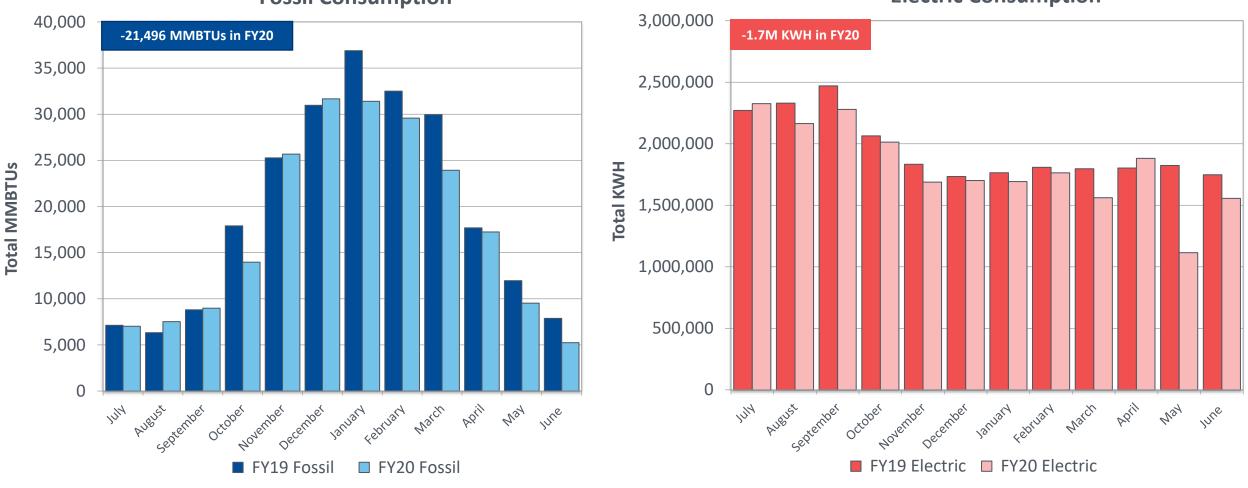
Wesleyan's Historical Utility Consumption and Cost



Electric Fossil — Average

Monthly Energy Consumption FY19 vs. FY20

FY20 sees a dip in both Fossil and Electric consumption

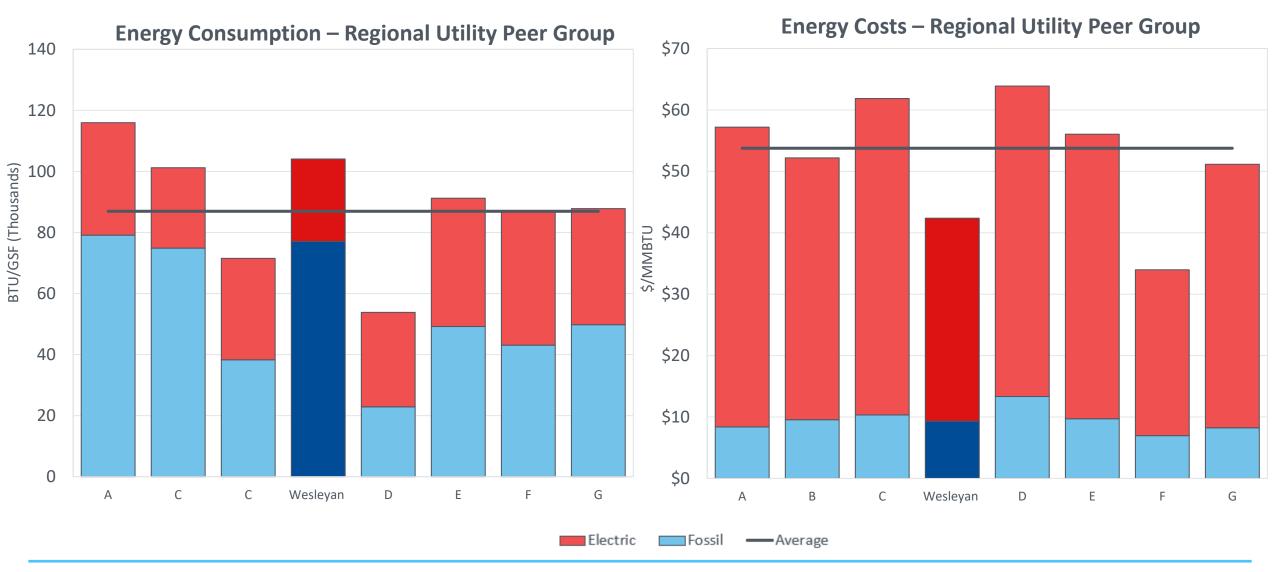




Electric Consumption



FY20 Regional Energy Peer Consumption and Unit Costs

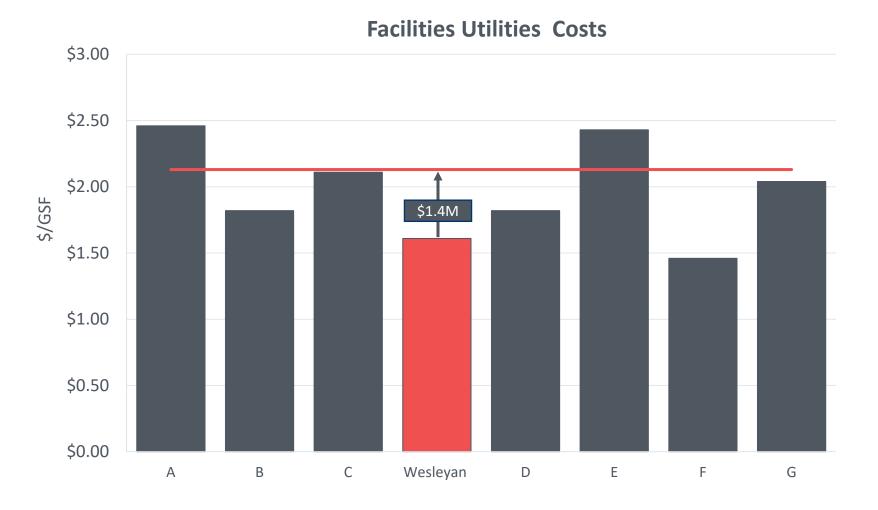


*Regional Energy Peer Group: Bentley College, Bryant University, Connecticut College, University of Connecticut, University of Hartford, University of New Haven, and Williams College



FY20 Regional Facilities Utilities Costs

Wesleyan achieves \$1.4M in Utility Cost Savings compared to peers



FY20 Regional Utility Peers

- Bryant University
- Connecticut College
- University of Connecticut
- University of Hartford
- University of New Haven
- Bentley College
- Williams College



Concluding Comments



Key Takeaways

Campus age is increasing due to limited strategic ageresetting renovations

Major Maintenance funds are increasing. Sightlines Annual Investment Targets are being met.

Facilities Operations are running with less resources than peers.

