

ROPA+

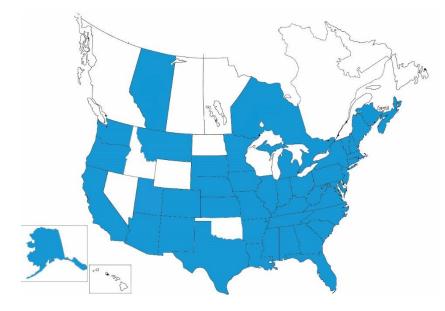
Rhode Island School of Design

Presenters: Caroline Johnson & Jayne Dabrah

Vanderbilt University Virginia Commonwealth University Virginia Department of General Services Wagner College Wake Forest University Washburn University Washington University in St. Louis Wellesley College Weslevan 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
- * U.S. News Rankings

Sightlines is proud to announce that:

- 450 colleges and universities are Sightlines clients including over 325 ROPA members.
- 93% of ROPA members renewed in 2014
- We have clients in 42 states, the District of Columbia and four Canadian provinces
- More than 100 new institutions became Sightlines members since 2013

Sightlines advises state systems in:

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

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West Virginia



A Vocabulary for Measurement



Institution

Art Center College of Design

Bentley University

Berklee College of Music

Bowdoin College

Brown University

California Institute of the Arts

Connecticut College

Ithaca College

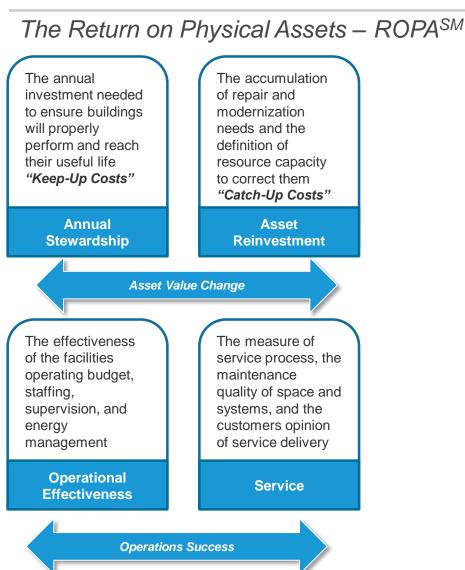
Massachusetts College of Art and Design

Mount Holyoke College

Comparative Considerations

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





Core Comments



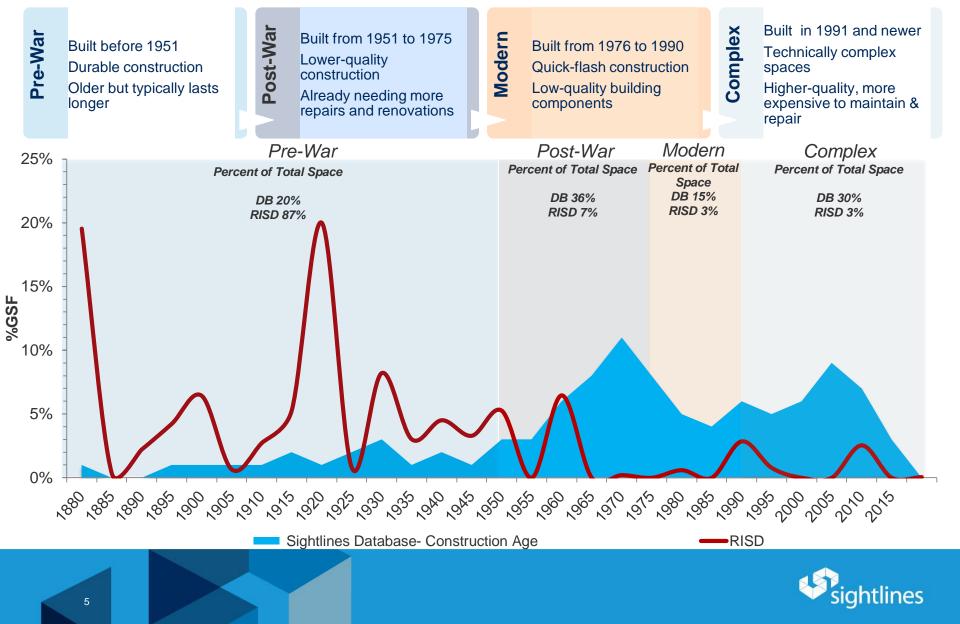
- > Campus was built earlier than the Sightlines database
 - > Sturdy bones but in need of modernization
 - > Smaller, historic buildings place stress on operations
- > Campus needs are split between "Keep Up" and "Catch Up"
 - > RISD's current capital strategy puts pressure on "Keep Up" funds
 - > Limited one-time funding creates high overall backlog of need
- > RISD has more program space / student than peers
 - > Studio space driving need?
- > New emissions data shows downward trends



Putting Your Campus Building Age in Context



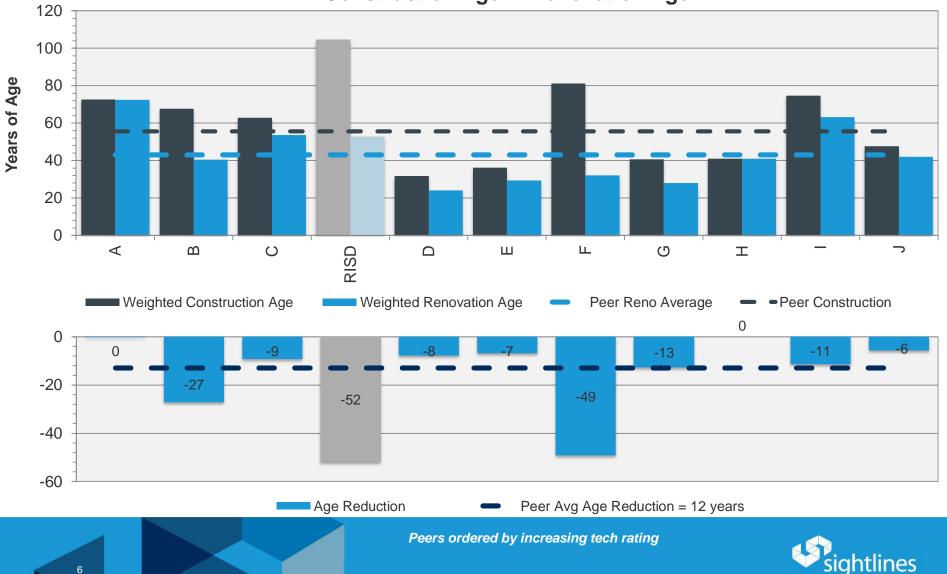
The campus age drives the overall risk profile



Resetting the Clock Through Renovations



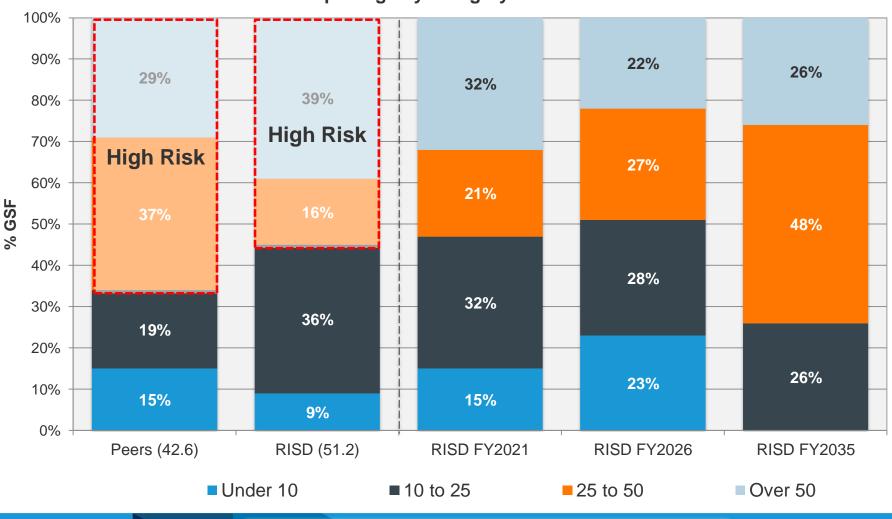
RISD has older facilities on average, but has made more impact with renovations



Construction Age v. Renovation Age

A Shifting Campus Age Profile

Understanding the Impact of Age on Capital Demands



Campus Age by Category

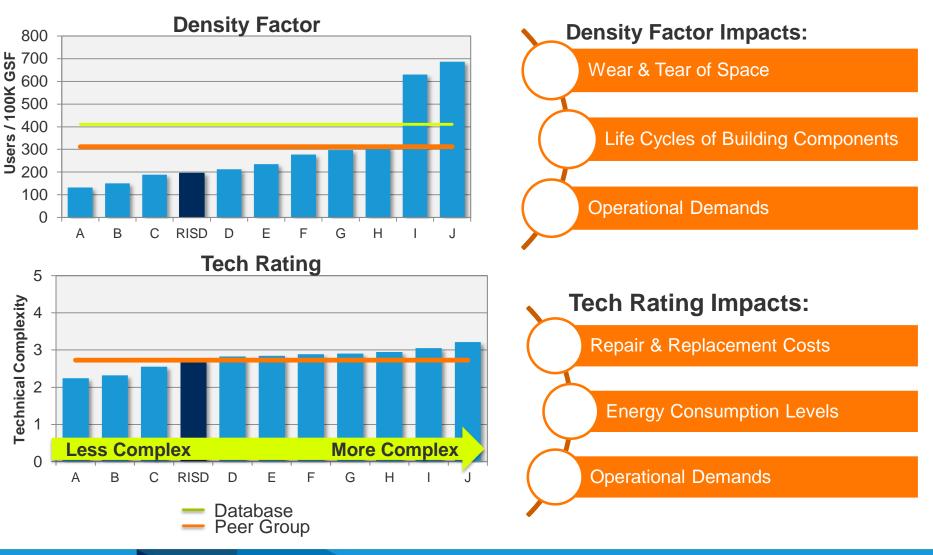
New construction: ~100K GSF 250 South Water Street, ~ 100K Housing and Student Life at Angell Street **Renovations**: College, Metcalf, Homer, Nickerson, Barstow, Larned, Thompson & Alumni, B.E.B.(Bayard Ewing Building)





Physical Drivers of Campus

Similar physical attributes to peer institutions



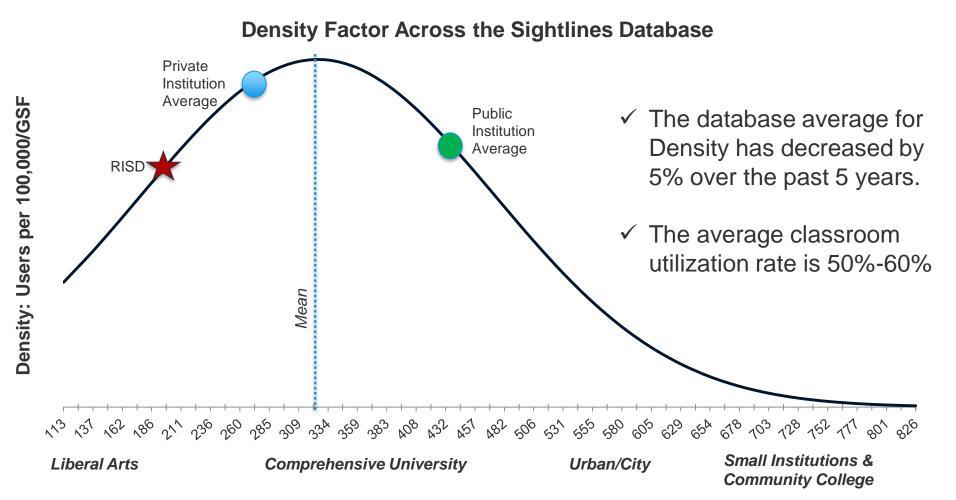




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Density across the Sightlines Database





*Density Factor measures the number of faculty, staff and students FTEs on campus per hundred thousand square feet.

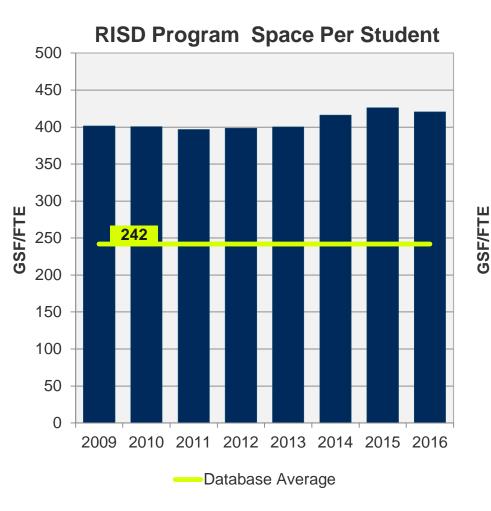


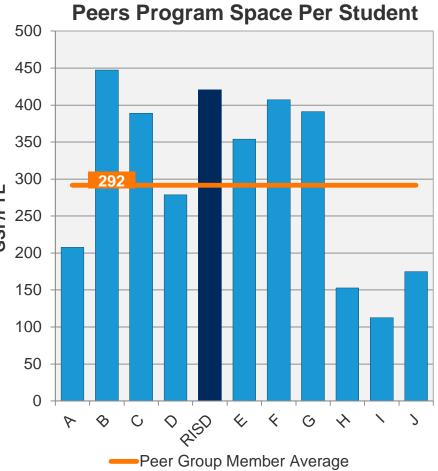


Program Space Per Student



RISD has more program space per student than peer and database average



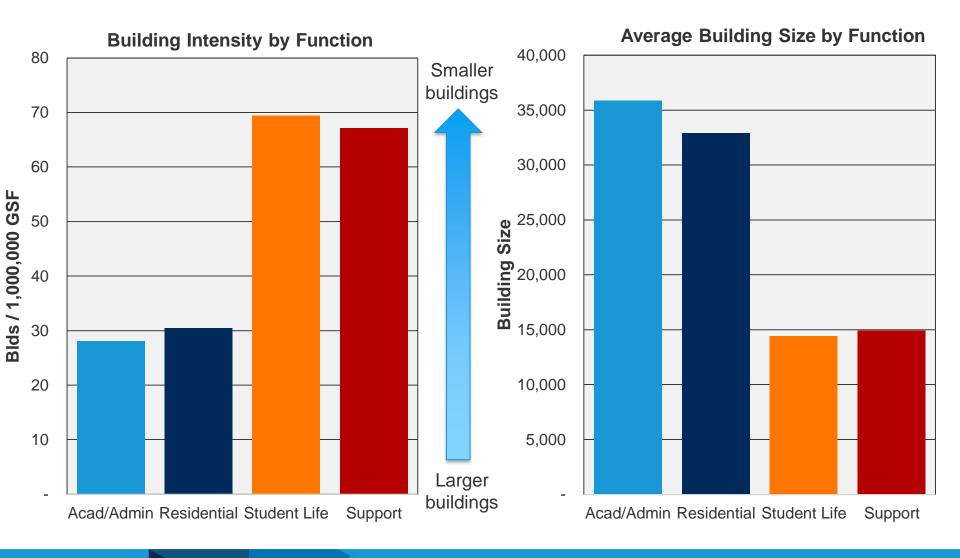


*Arranged by Density Factor



Less Economies of Scale w/ Student Life Space



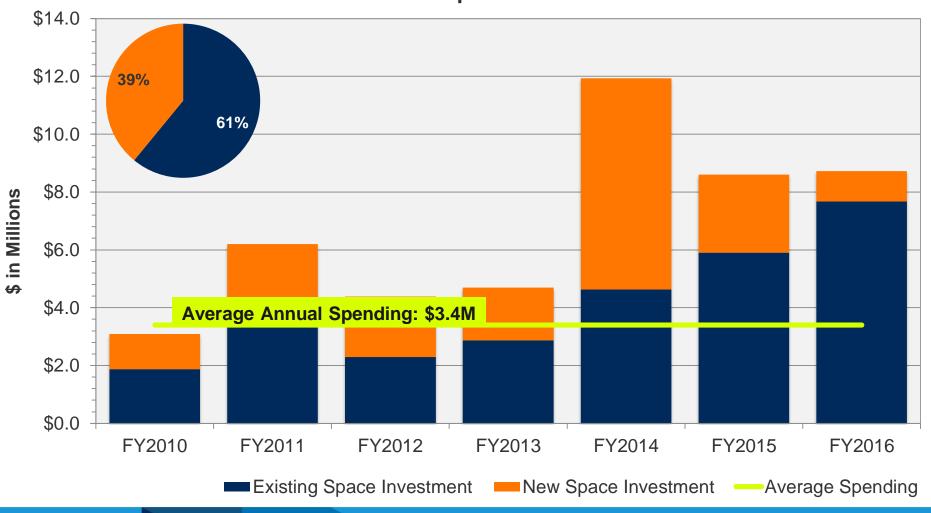


Appendix 1 for more on building intensity



Total Capital Investment Over Time

At RISD, focus has been on existing space



Total Capital Investment

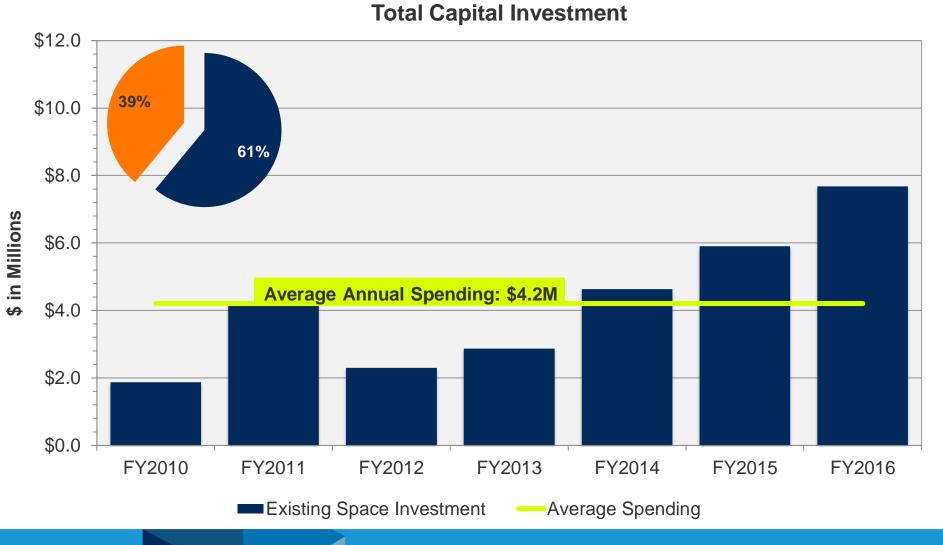




Total Capital Investment- Existing Space



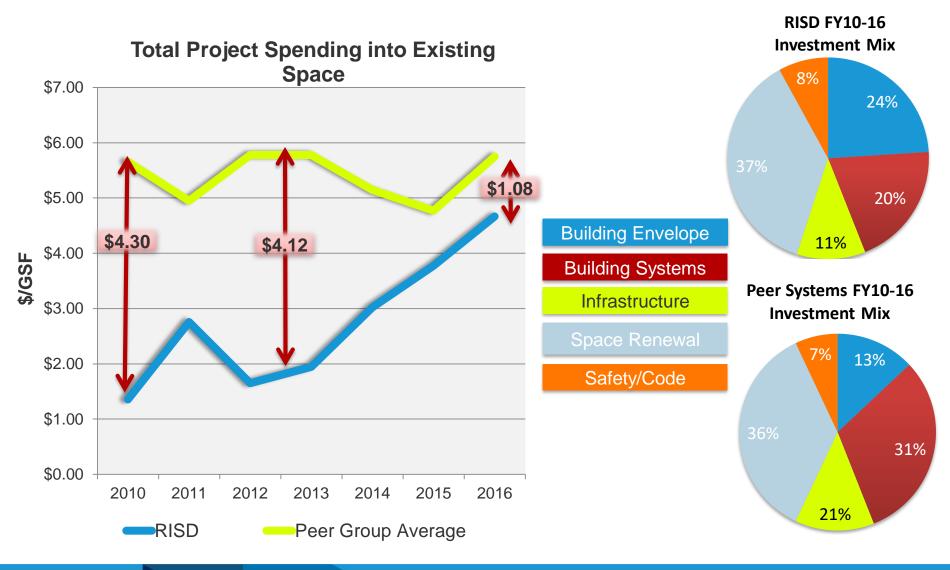
Investment levels rise in FY14-16 due to the ISB project





Peers Out Invest RISD

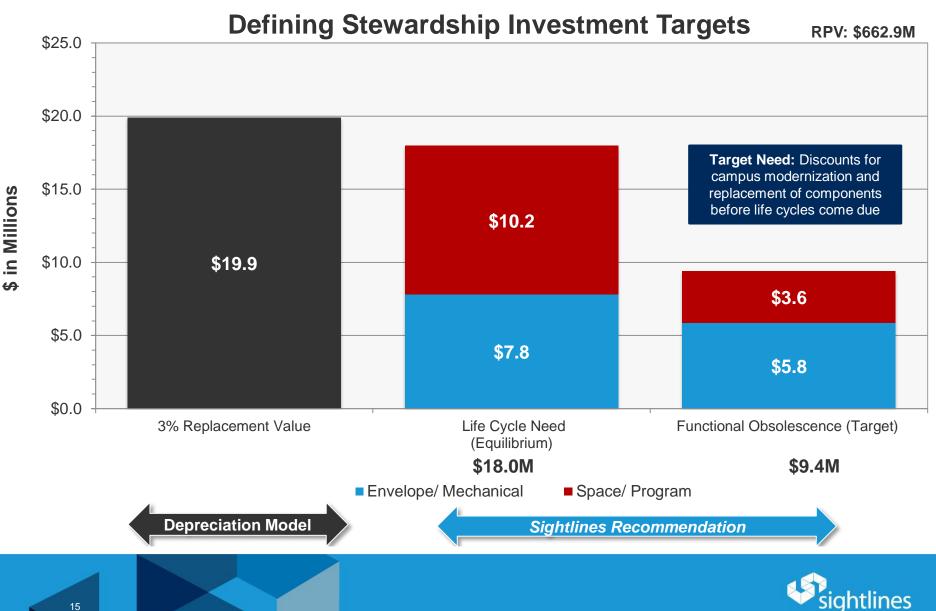






Understanding RISD's Investment Target



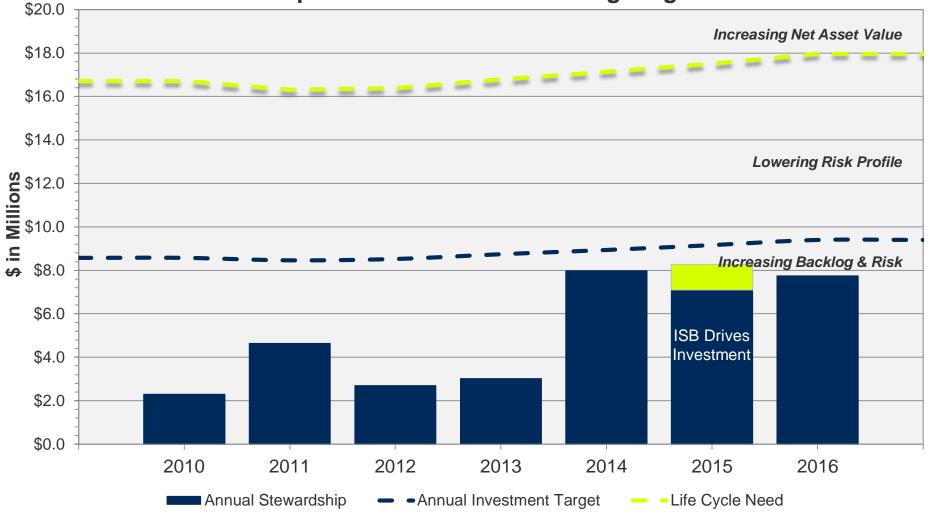


ISB Project Helps to Bridge the Gap



Includes only the investment into existing facilities

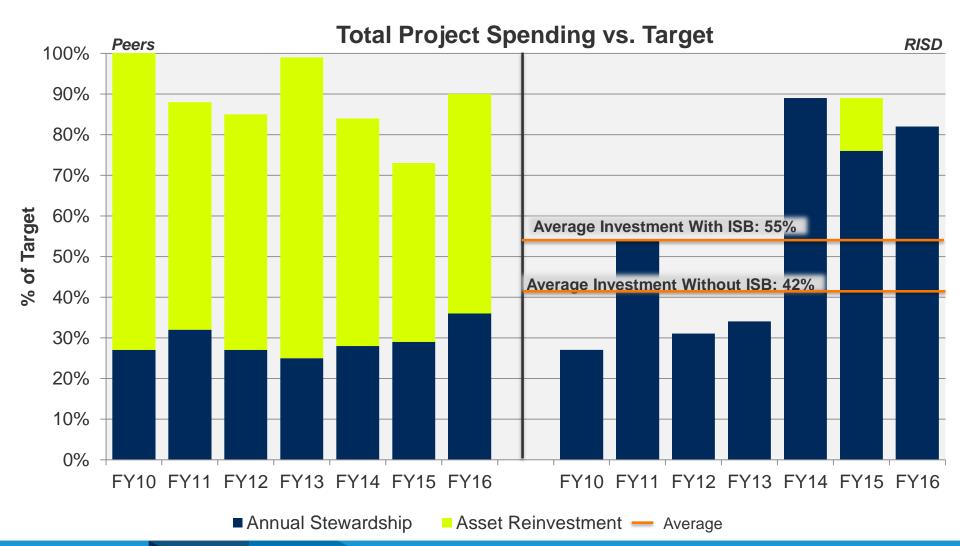






Peers Sustaining Value of Campus

One-Time funds assist peers in reaching target



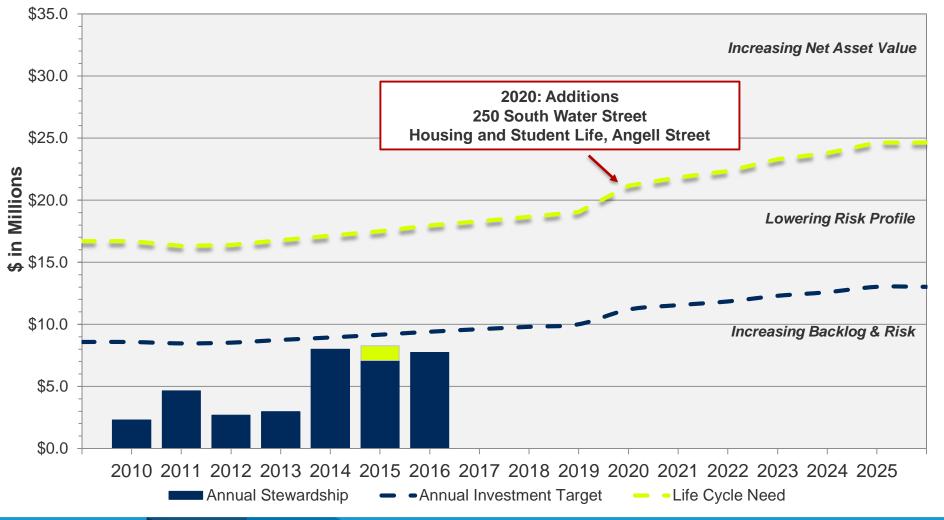




Projected 2025 Target Funding Level



Future target levels continue to rise due to building backlog increase Total Capital Investment vs. Funding Target

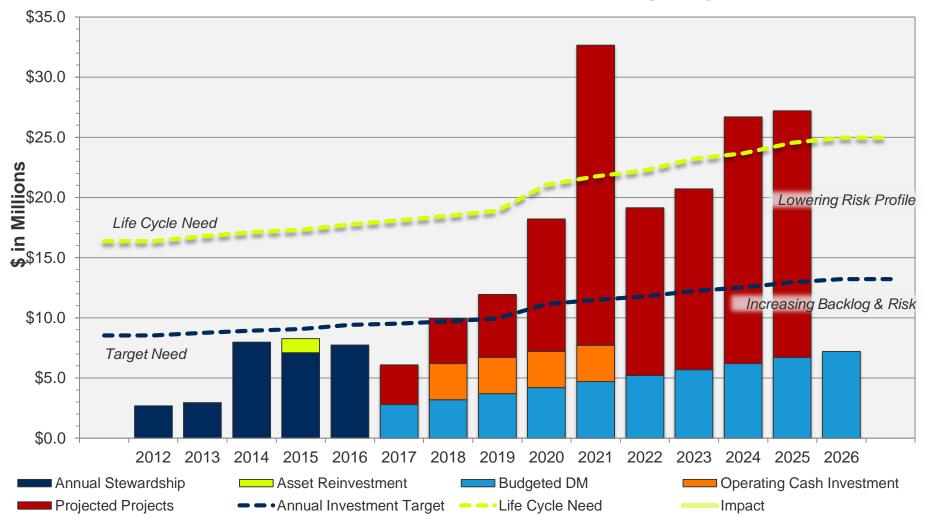




Projected 2026 Target Funding Level



Total Capital Investment vs. Funding Target

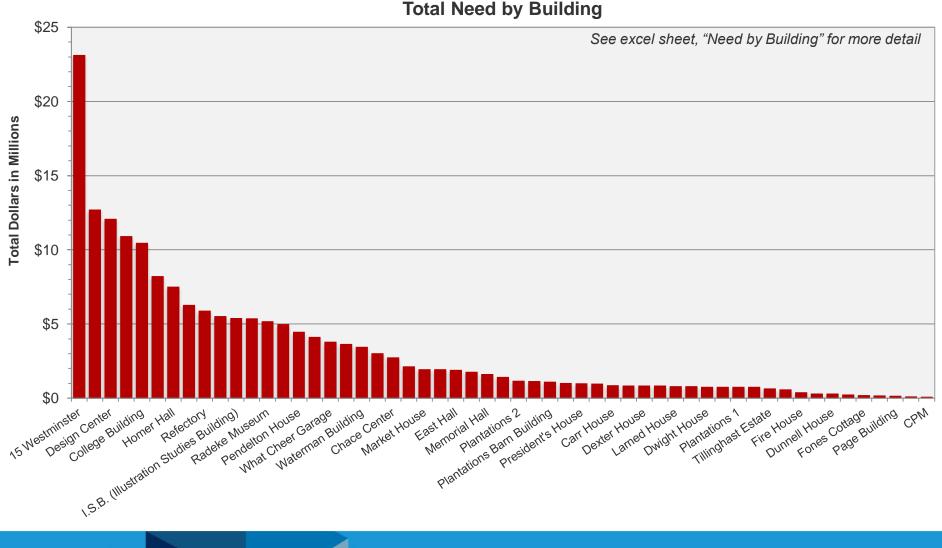




Total Asset Reinvestment Need by Building



Estimated using Sightlines prediction model

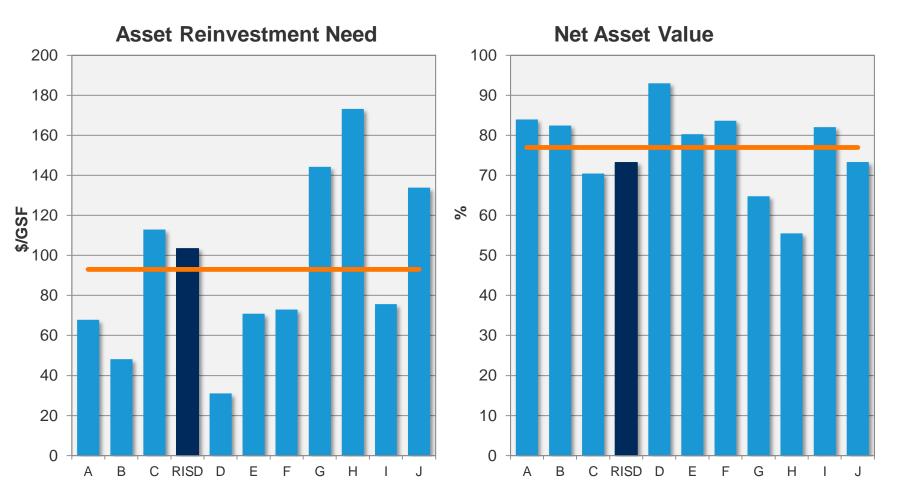




Asset Reinvestment Above Peer Levels



\$103/GSF at RISD

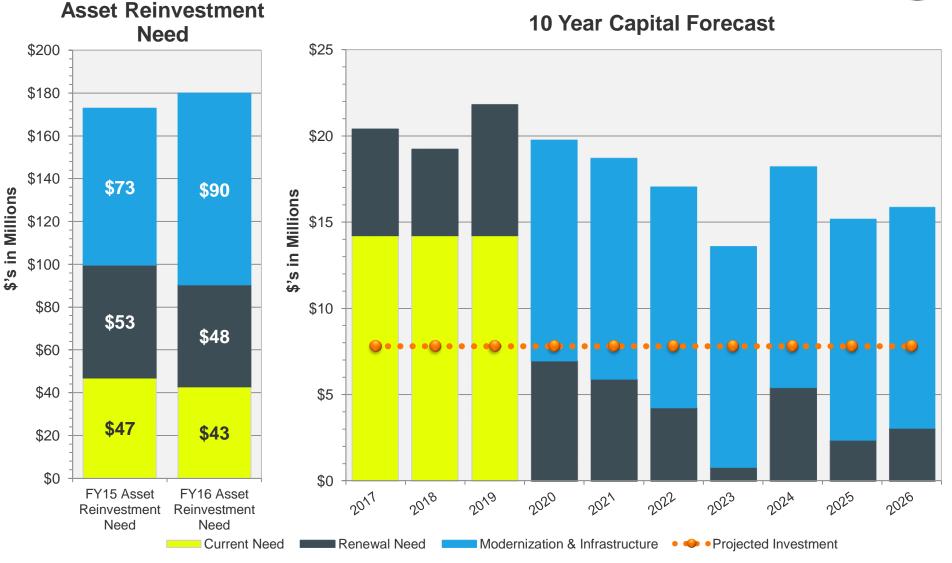


* Institutions arranged by Tech Rating



Projected Investment vs. 10 Year Needs



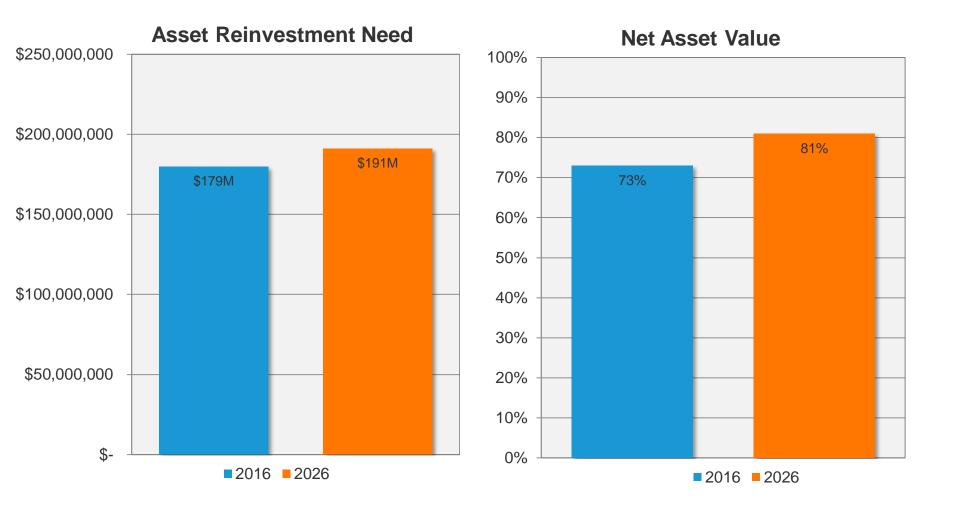




AR Need and NAV Today and Future



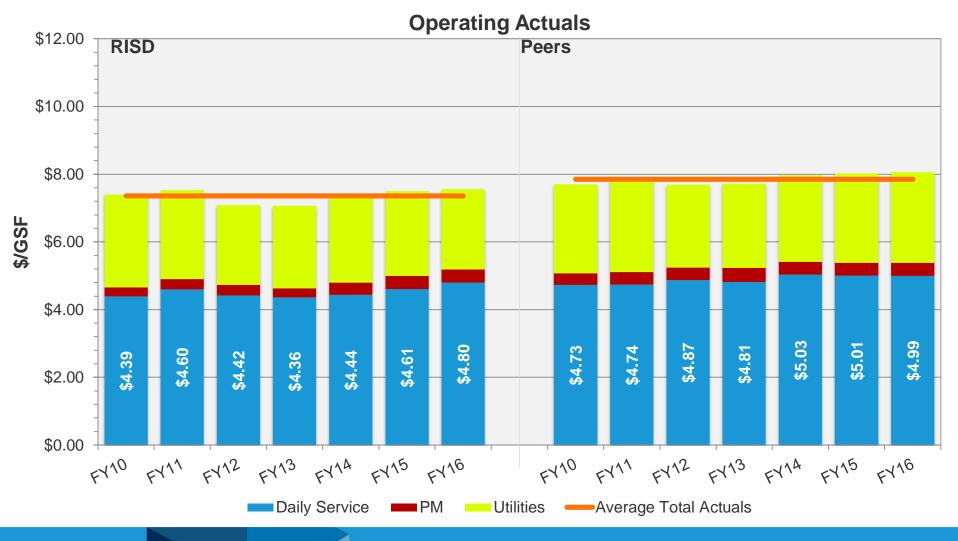
Despite, strong funding plan backlog grows. However, NAV increases.





Historical Operating Actuals

On average, RISD has \$.49 less to run campus than peers

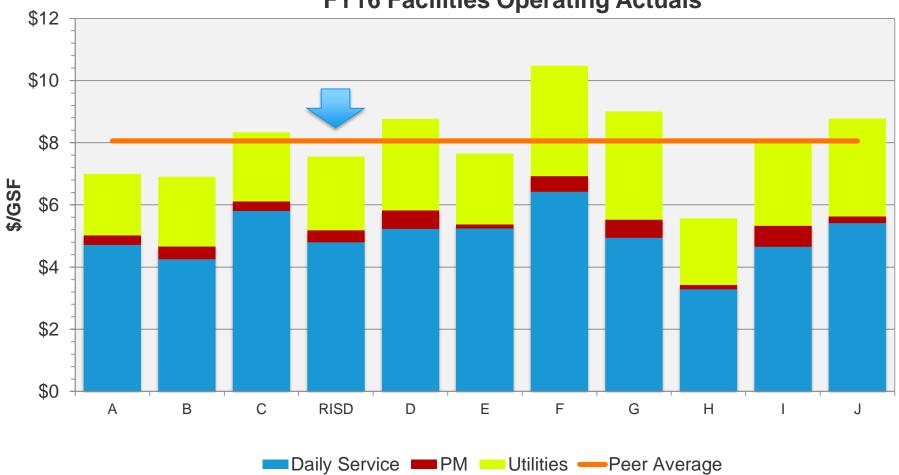






FY16 Facilities Operating Expenditures Below Peers





FY16 Facilities Operating Actuals

* Institutions arranged by Tech Rating



New Space: O&M Estimated Costs



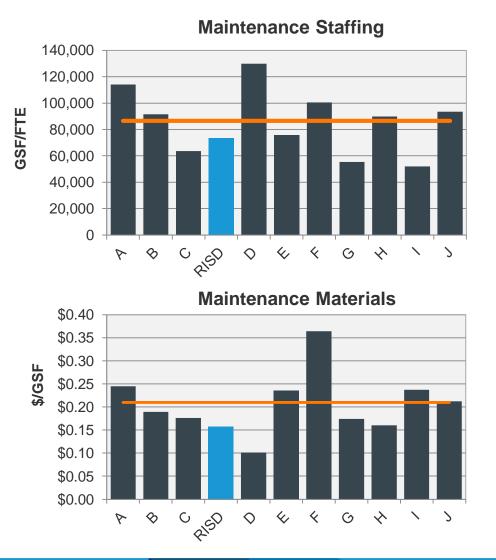
Using Sightlines Cost Forecaster

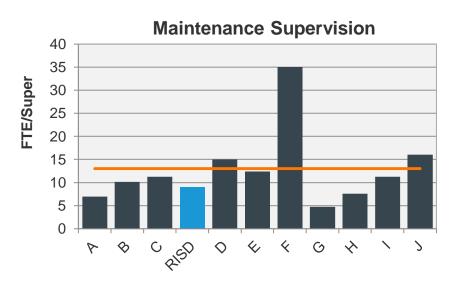
Building Name	Est. GSF	Daily Service	PM	Utility	Materials	Staff FTEs	Total Additional Cost
Housing and Student Life Angell Street	100,000	\$549,887	\$44,120	\$228,848	\$31,308	4.6	\$822,855
250 South Water Street	100,000	\$518,162	\$41,574	\$212,646	\$31,308	4.4	\$806,690
<u>Total</u>	200,000	<u>\$1,068,049</u>	<u>\$85,694</u>	<u>\$441,494</u>	<u>\$62,616</u>	<u>9.0</u>	<u>\$1,629,545</u>



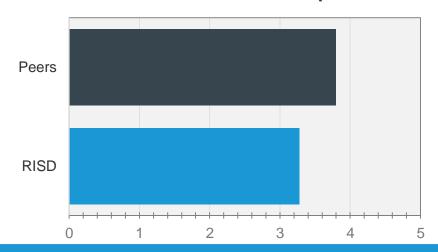
Maintenance Metrics







General Repair



Peers ordered by increasing tech complexity



Custodial Metrics



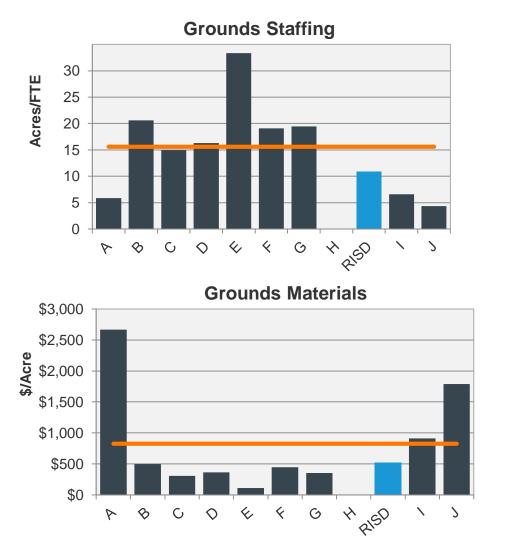
Custodial Staffing Custodial Supervision 50,000 90 45,000 80 40,000 FTE/Super 70 35,000 60 **GSF/FTE** 30,000 50 25,000 40 20,000 30 15,000 20 10,000 5,000 10 0 0 RISD RISD 4 C 4 6 \checkmark C 4 4 X \Diamond 5 \diamond \Diamond 8 8 1 8 6 1 2 **Custodial Materials Cleanliness** \$0.40 \$0.35 \$0.30 \$/GSF Peers \$0.25 \$0.20 \$0.15 \$0.10 \$0.05 RISD \$0.00 C O RISD < \diamond 4 G タ 1 2 8 3 2 0 4 5

Peers ordered by increasing density factor



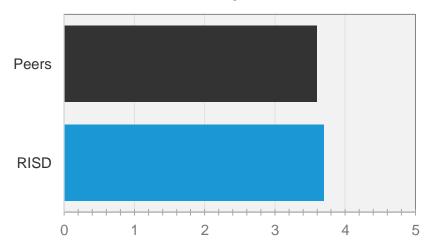
Grounds Metrics





Grounds Supervision FTE/Supervisor H RISD \diamond C \mathbf{N} \Diamond

Grounds Inspection Score



Institutions arranged by Grounds Intensity



Pictures

RISD

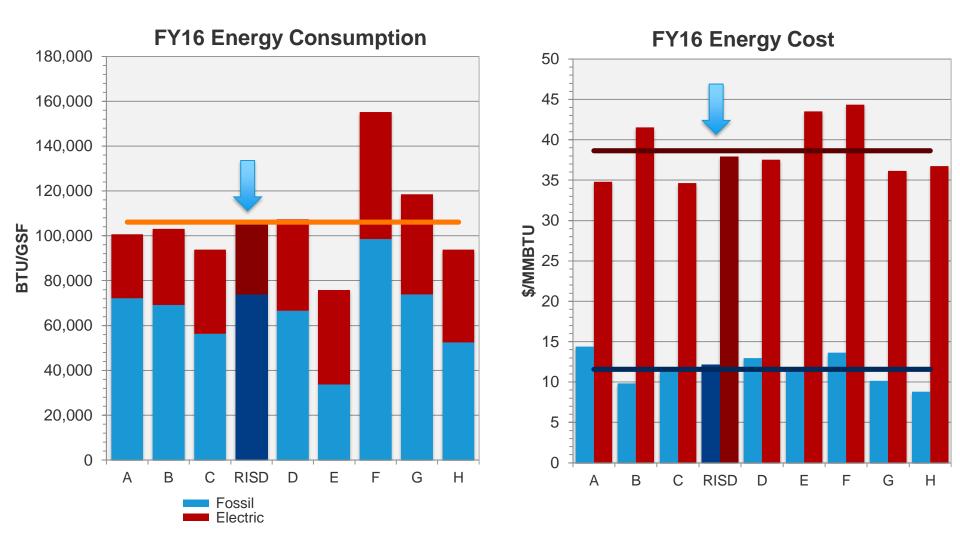
From fall 2016 inspection





Energy Snapshot

Consuming at peer levels



Peers ordered by increasing technical complexity





Carbon Management for Energy



AVOIDANCE:

Don't consume energy

ACTIVITY:

Consume less by increasing efficiency

INTENSITY:

Switch high-carbon energy sources for low-carbon ones

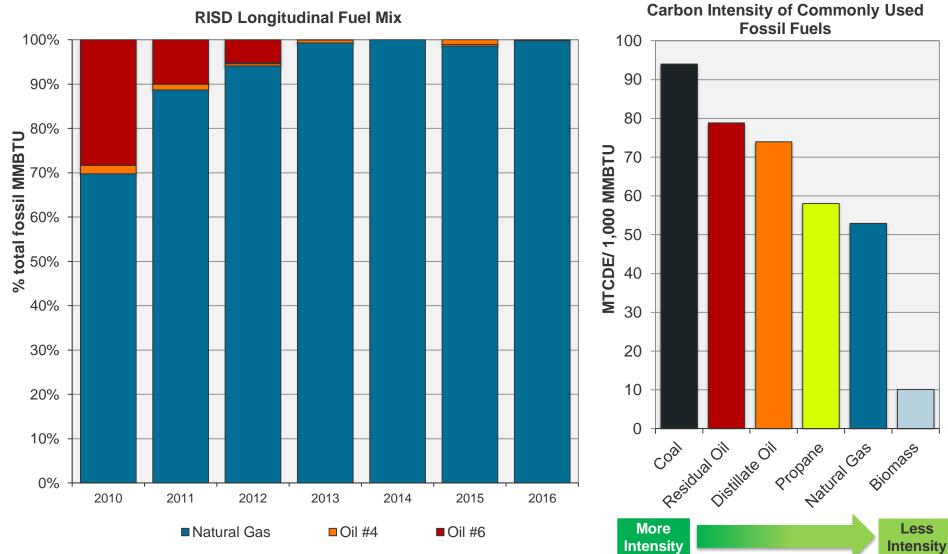
OFFSET:

Offset the emissions from consumption



Scope 1 Stationary: Fuel Mix



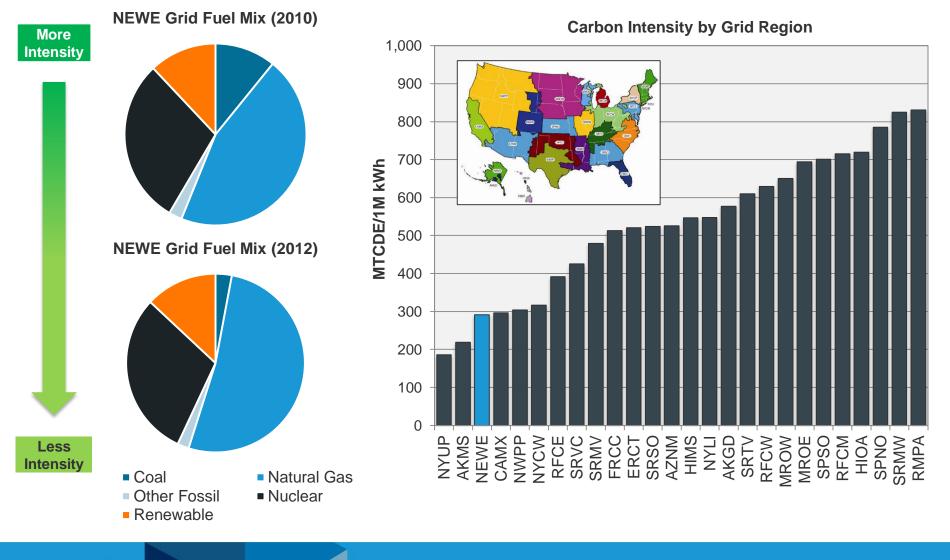




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Scope 2 Purchased Electric: Fuel Mix



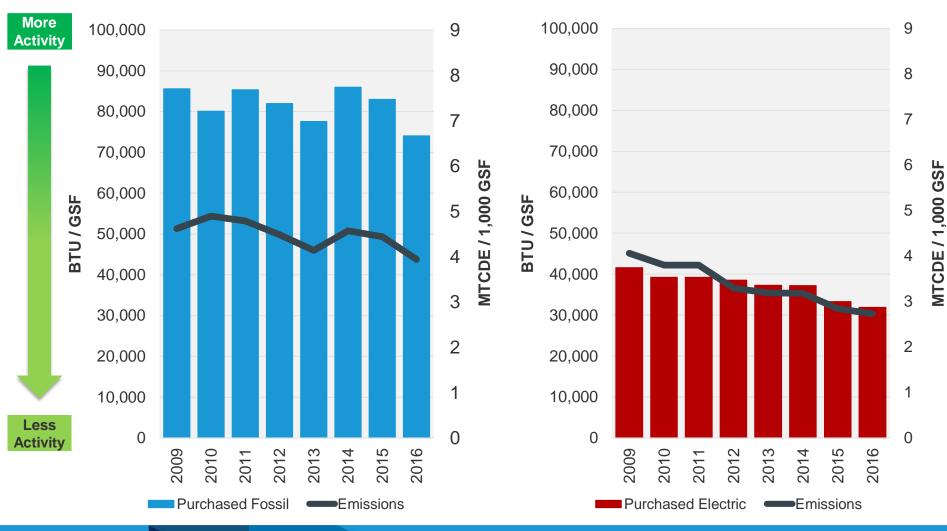




Scope 1 Stationary and Scope 2 Electric Emissions



Consumption vs. Emissions







- > Despite a growing investment (ISB), total Asset Reinvestment has not continued to grow. Additional resources are needed to stabilize this growth and tackle the backlog of need at RISD.
- > RISD is operating with less daily resources compared to peers. This shortfall coupled with the lack of capital, increases RISD's risk profile. Investing proactively, supervising staff and strong utilization of the work order system will help to minimize the impact of this gap.
- > As RISD looks to expand campus and increase the overall footprint, a close look at how the O&M budget will be impacted is a critical exercise. Will RISD's budget grow with this additional square footage?
- > New emissions data shows positive declines in MTCDEs/GSF



Building Intensity- Appendix 1



