



ROPA+

Rhode Island School of Design

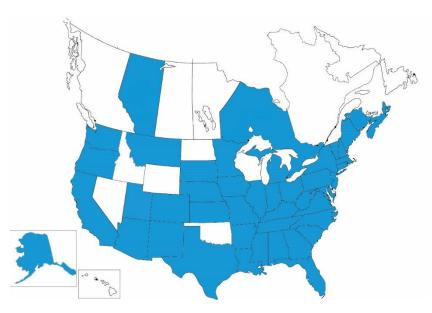
Presenters: Caroline Johnson & Jayne Dabrah

Vanderbilt University Virginia Commonwealth University Virginia Department of General Services Wagner College Wake Forest University Washburn University Washington University in St. Louis Wellesley College 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?







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.
- 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
- 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

Asset Value Change

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

Operations Success

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

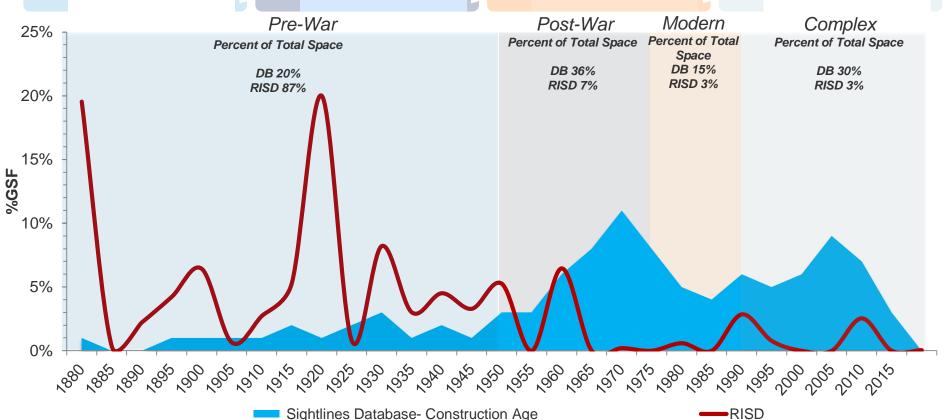
Built before 1951
Durable construction
Older but typically lasts longer

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 &
repair

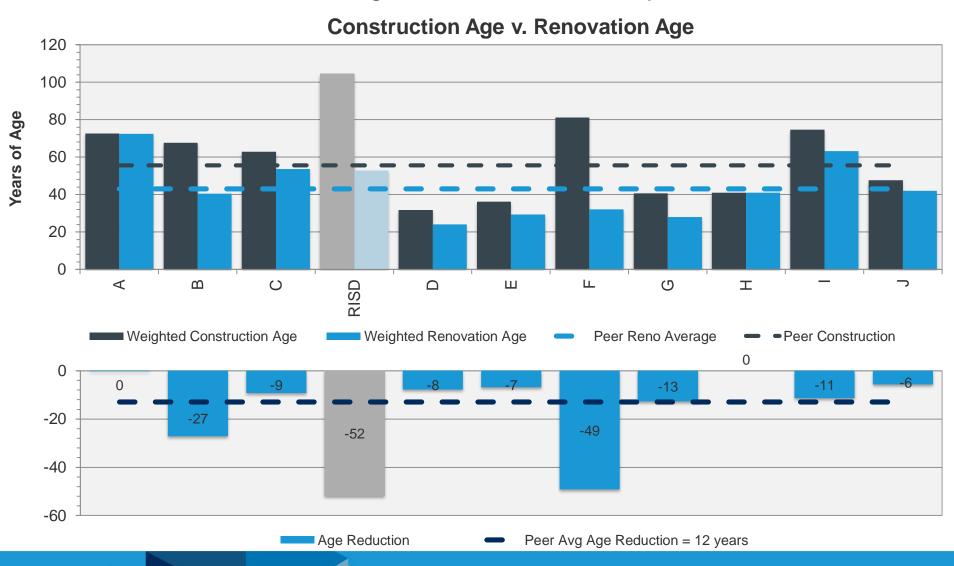


Modern

Resetting the Clock Through Renovations



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



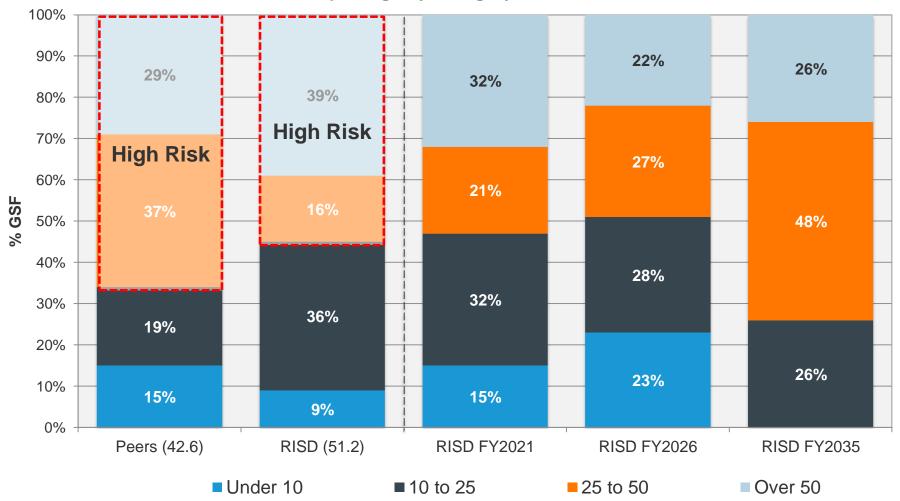


A Shifting Campus Age Profile



Understanding the Impact of Age on Capital Demands





New construction: ~100K GSF 250 South Water Street, ~ 100K Housing and Student Life at Angell Street

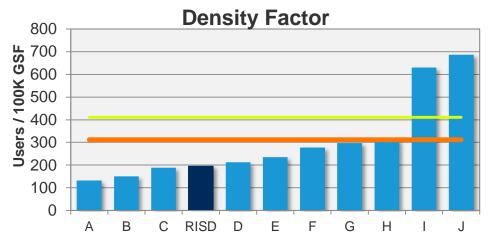
Renovations: College, Metcalf, Homer, Nickerson, Barstow, Larned, Thompson & Alumni, B.E.B.(Bayard Ewing Building)

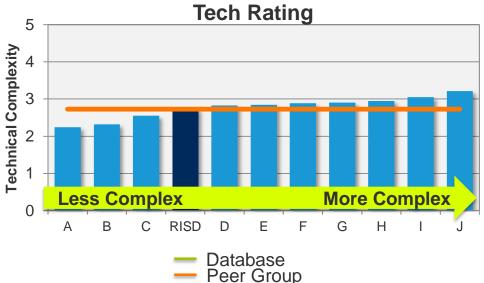


Physical Drivers of Campus

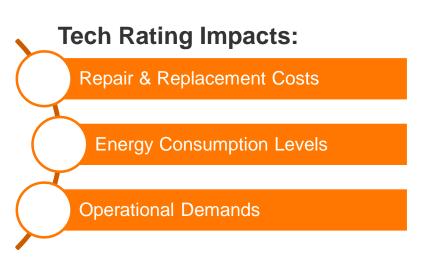


Similar physical attributes to peer institutions





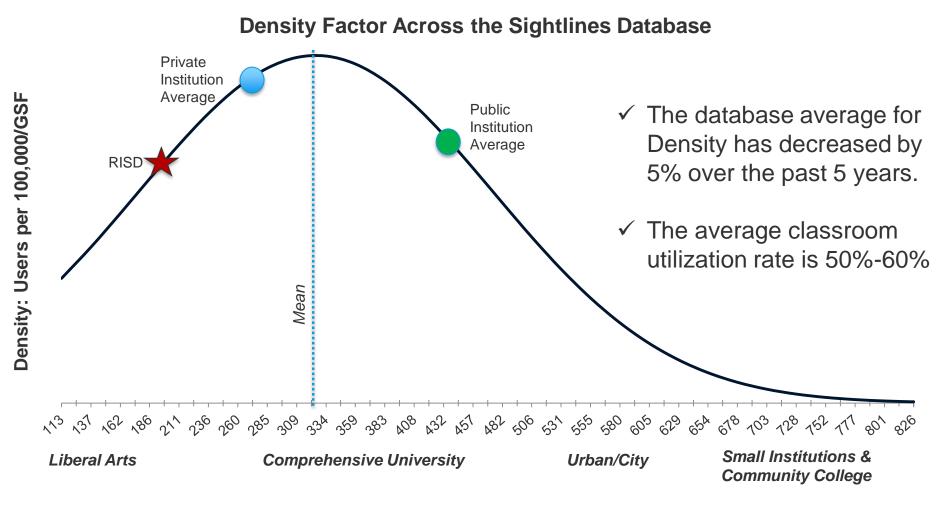






Density across the Sightlines Database





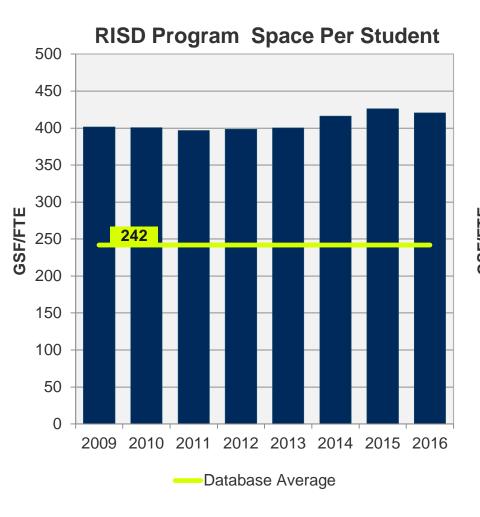
^{*}Density Factor measures the number of faculty, staff and students FTEs on campus per hundred thousand square feet.

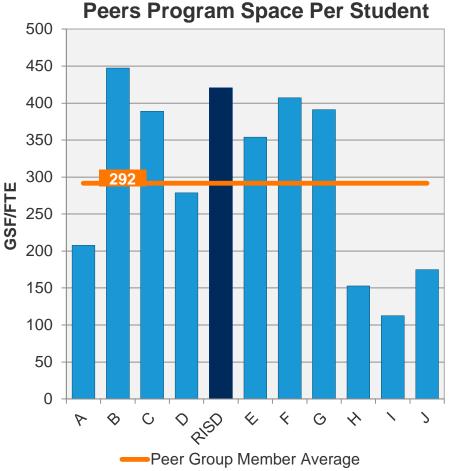


Program Space Per Student



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

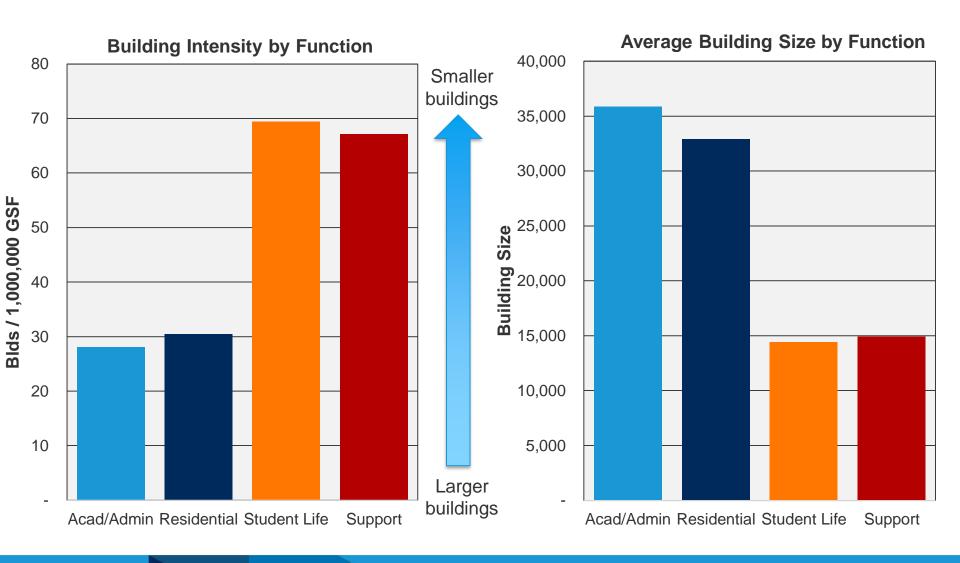






Less Economies of Scale w/ Student Life Space



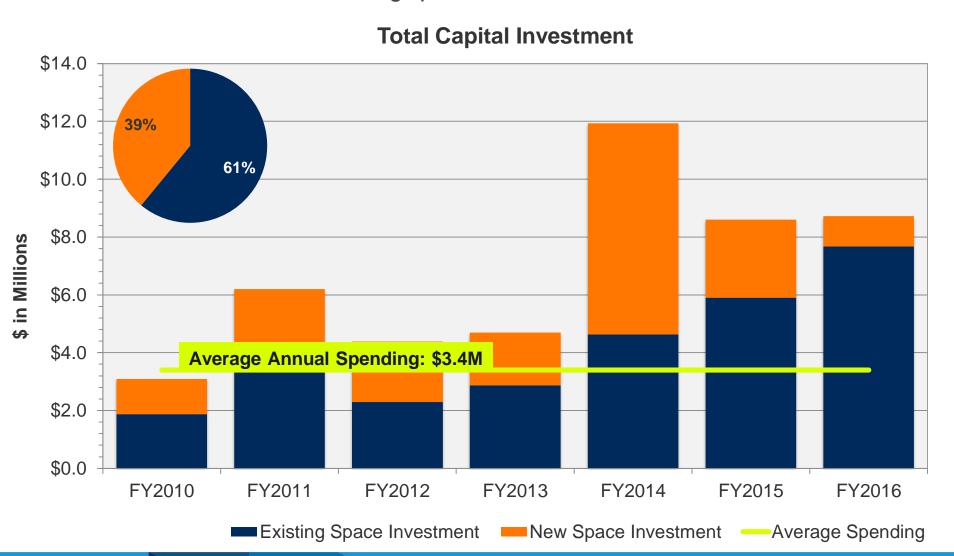




Total Capital Investment Over Time



At RISD, focus has been on existing space



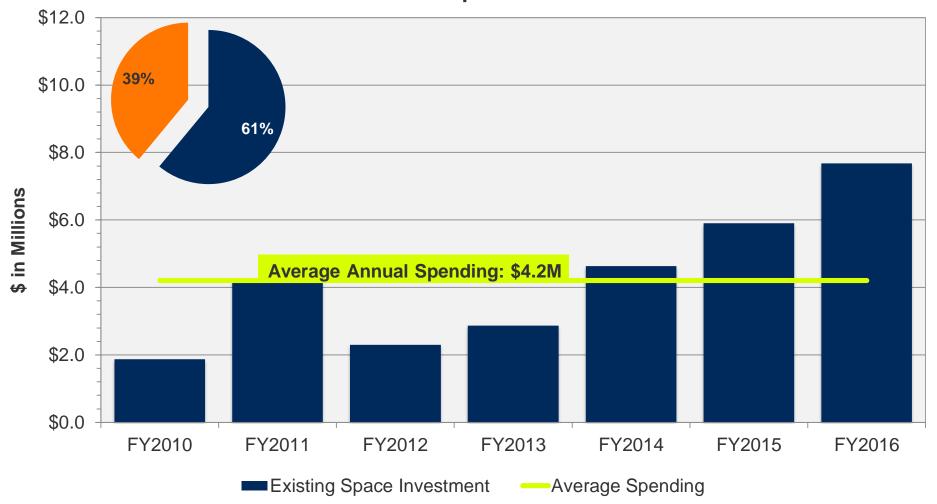


Total Capital Investment- Existing Space



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

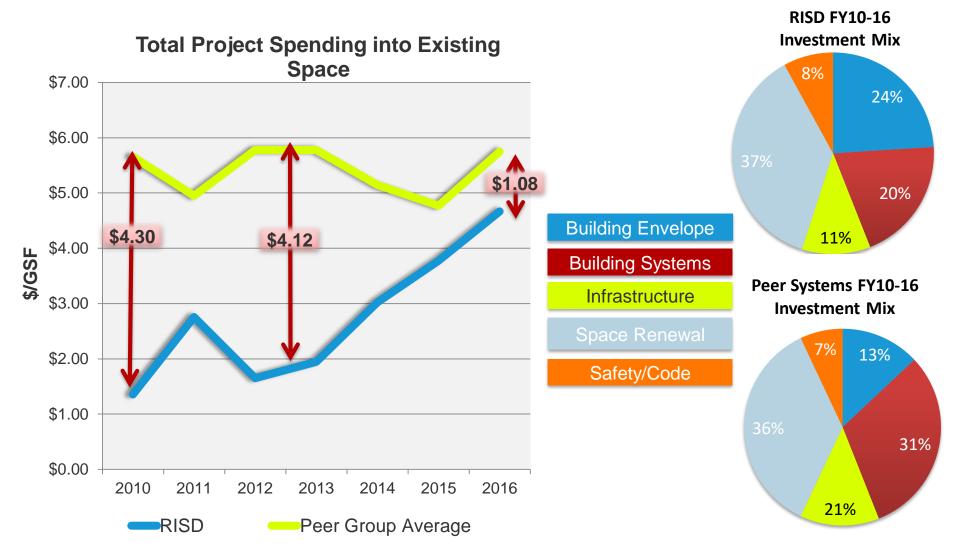






Peers Out Invest RISD

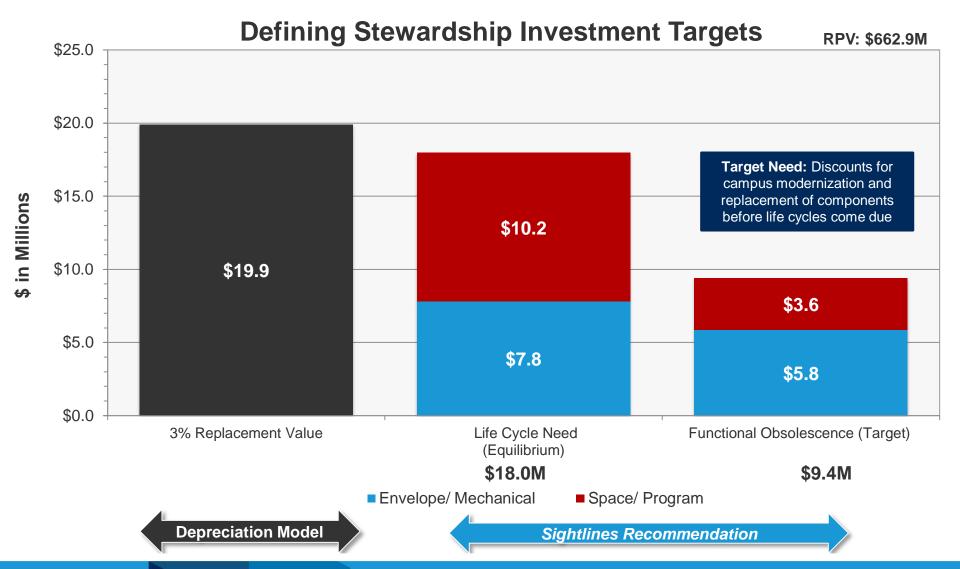






Understanding RISD's Investment Target



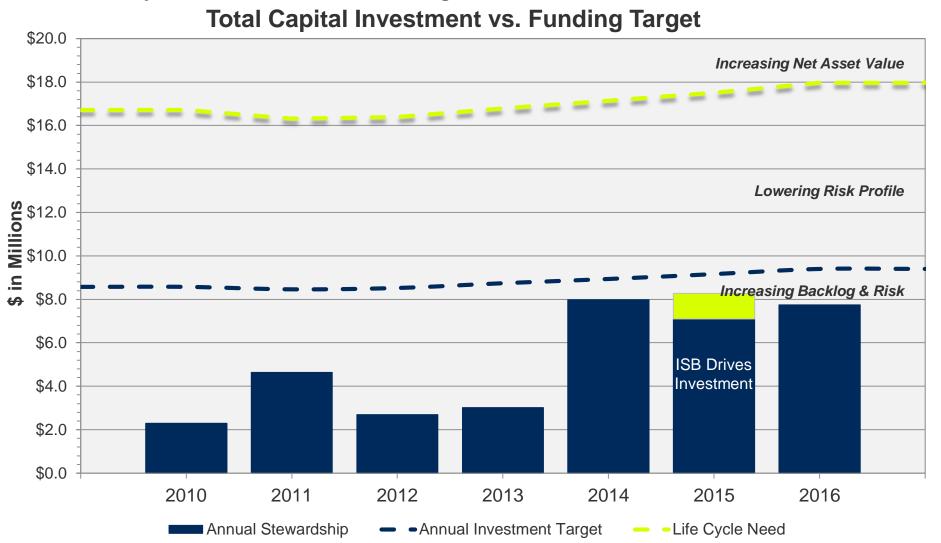




ISB Project Helps to Bridge the Gap



Includes only the investment into existing facilities

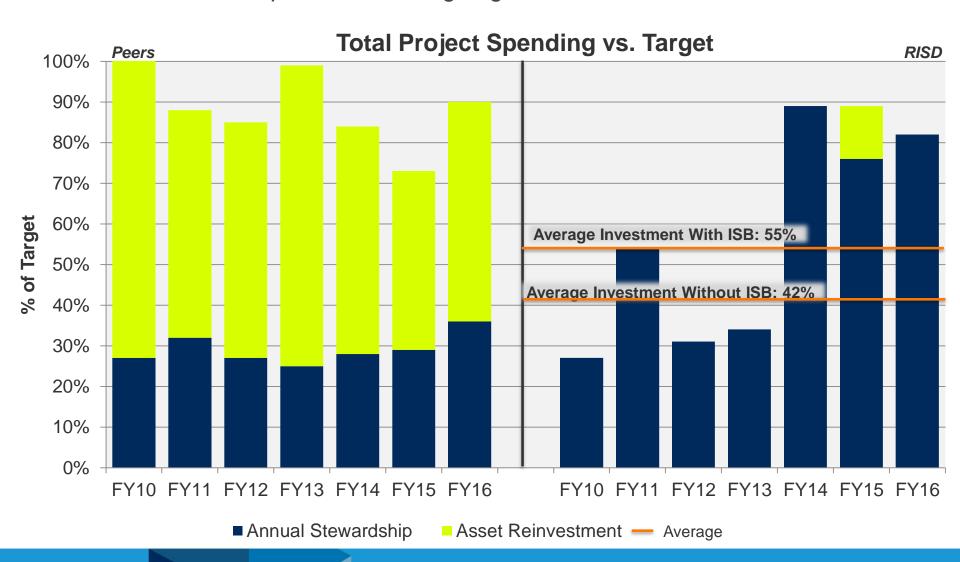




Peers Sustaining Value of Campus



One-Time funds assist peers in reaching target





Projected 2025 Target Funding Level



Future target levels continue to rise due to building backlog increase



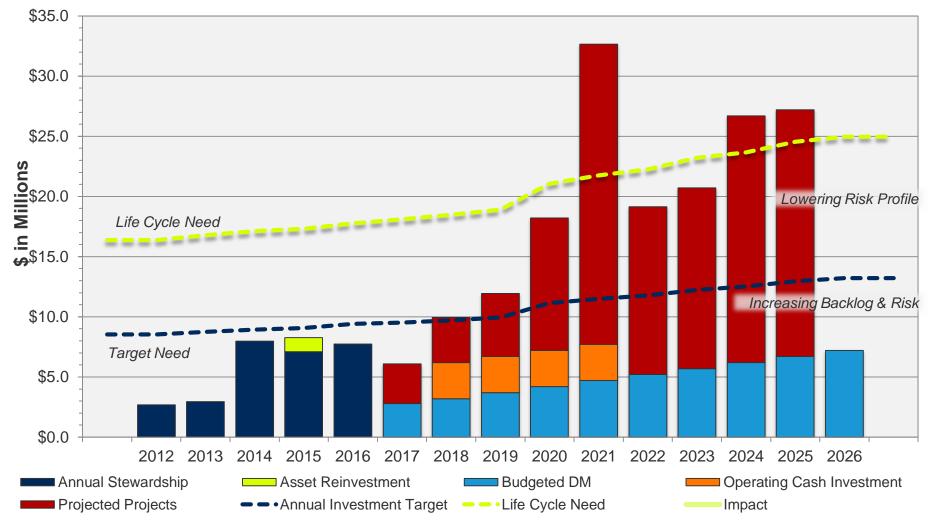




Projected 2026 Target Funding Level



Total Capital Investment vs. Funding Target

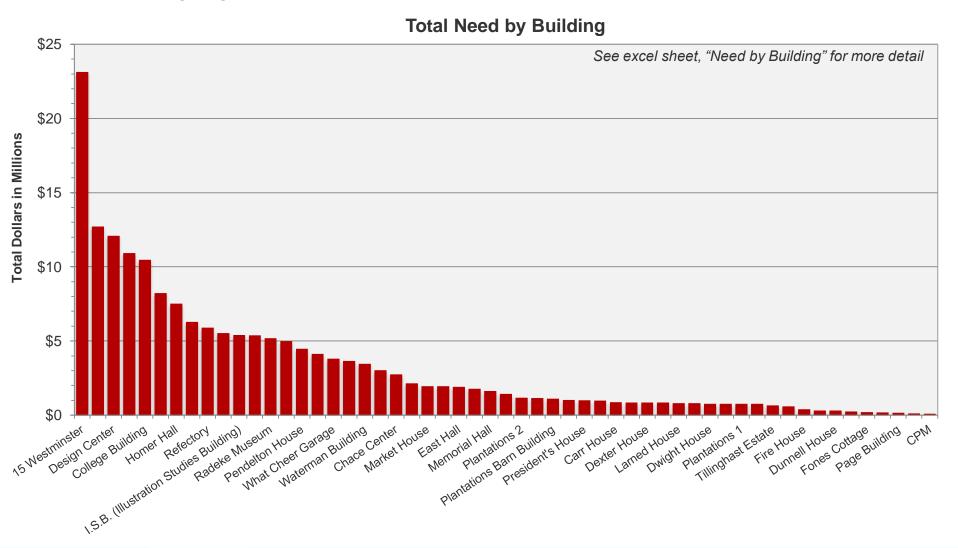




Total Asset Reinvestment Need by Building



Estimated using Sightlines prediction model

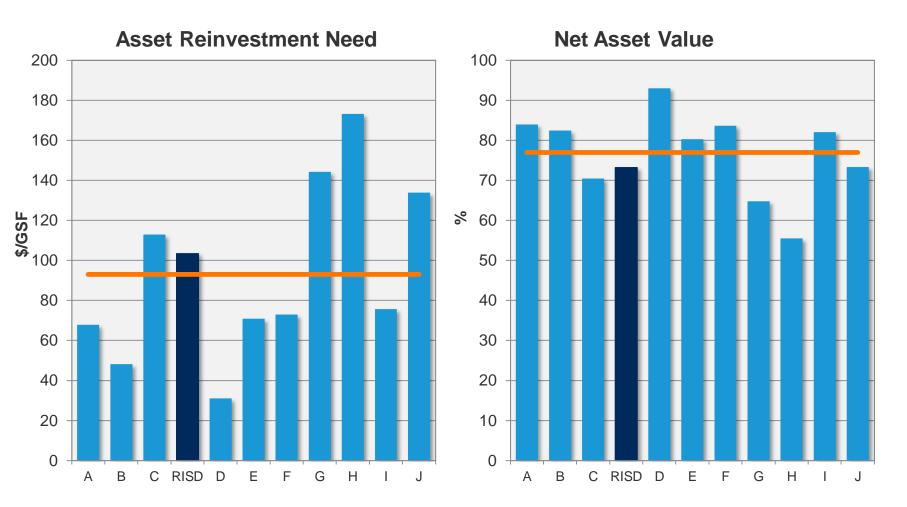




Asset Reinvestment Above Peer Levels



\$103/GSF at RISD

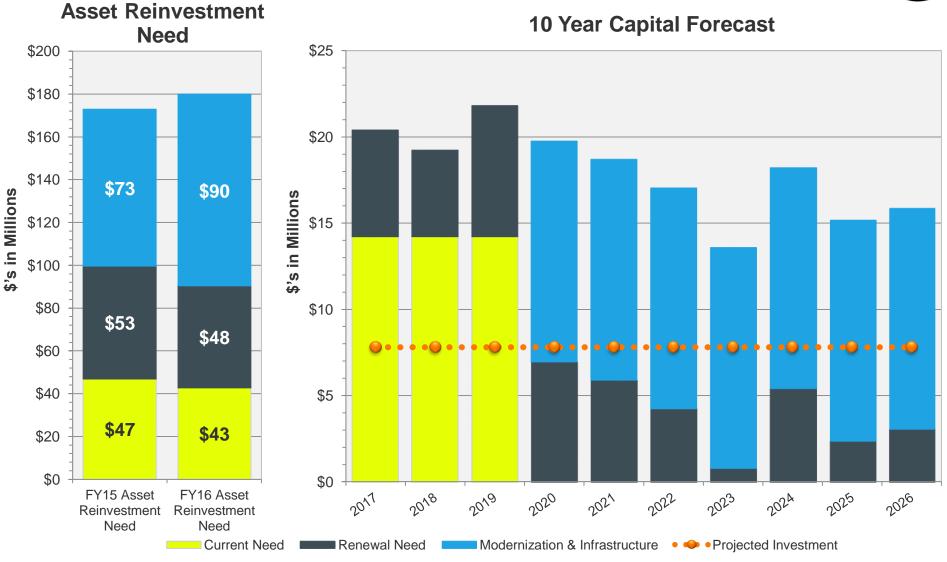


^{*} Institutions arranged by Tech Rating



Projected Investment vs. 10 Year Needs



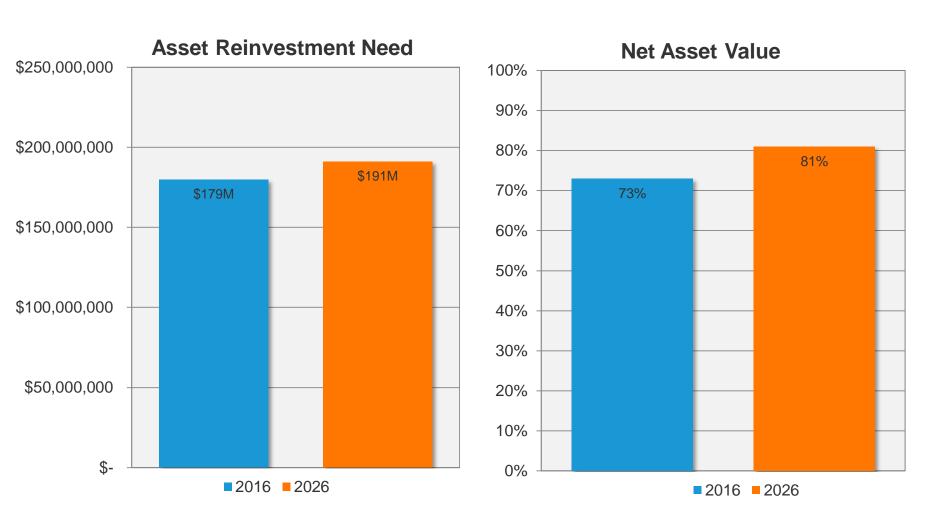




AR Need and NAV Today and Future



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

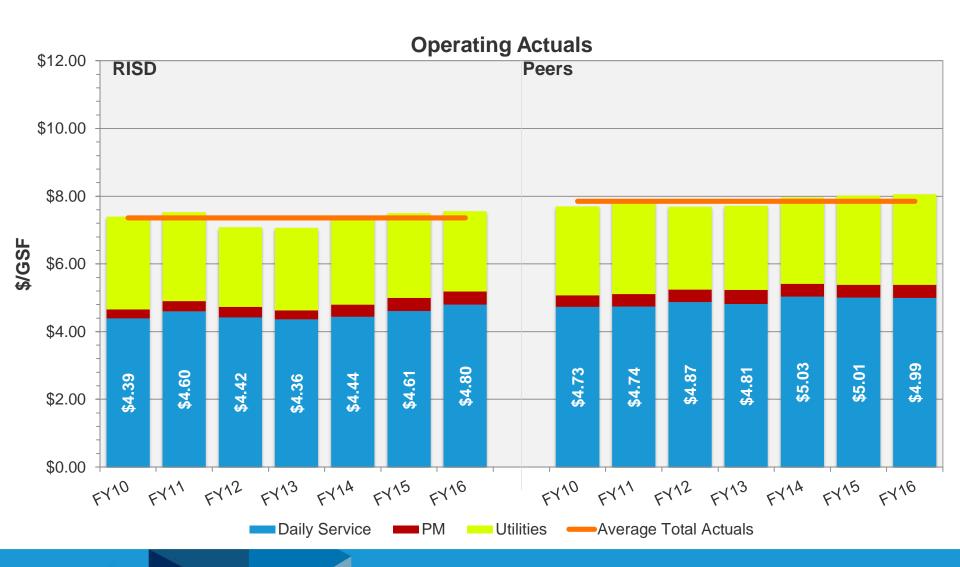




Historical Operating Actuals



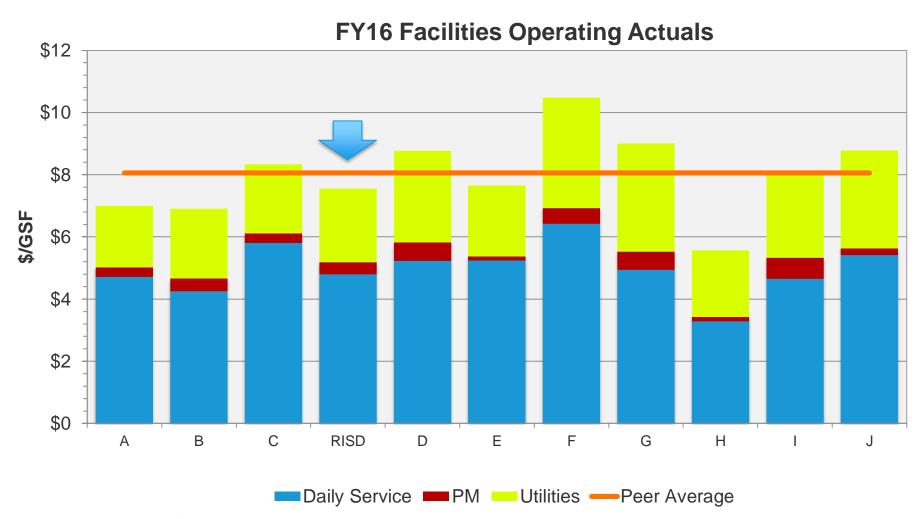
On average, RISD has \$.49 less to run campus than peers





FY16 Facilities Operating Expenditures Below Peers





^{*} Institutions arranged by Tech Rating



New Space: O&M Estimated Costs

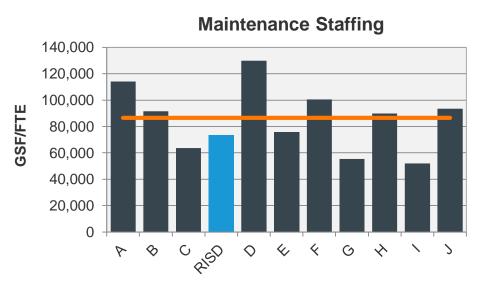


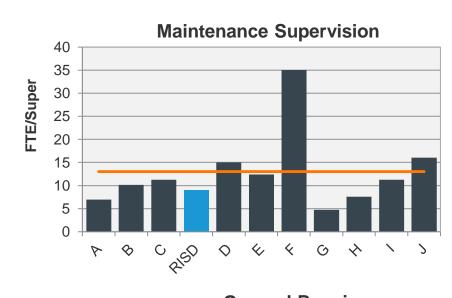
Using Sightlines Cost Forecaster

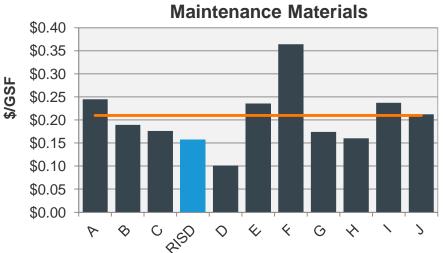
Building Name	Est. GSF	Daily Service	PM	Utility	Materials	Staff FTEs	Total Additional Cost
Housing and Student Life Angell Street	100,000	\$549,887	\$44,120	\$228,848	\$31,308	4.6	\$822,855
250 South Water Street	100,000	\$518,162	\$41,574	\$212,646	\$31,308	4.4	\$806,690
<u>Total</u>	200,000	<u>\$1,068,049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

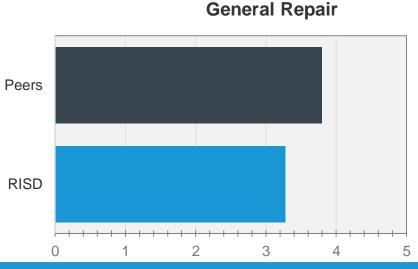
Maintenance Metrics







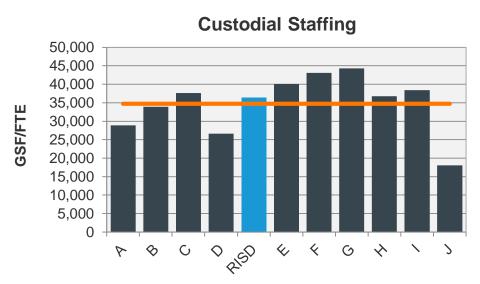


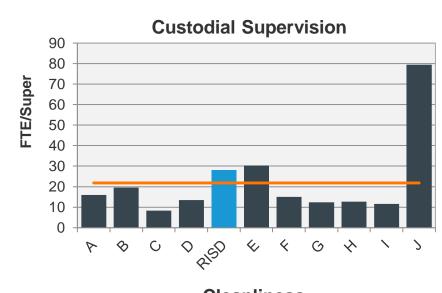


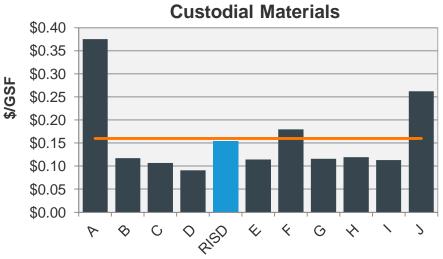
sightlines

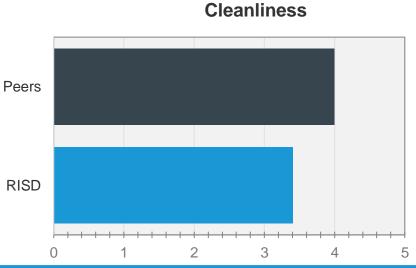
Custodial Metrics







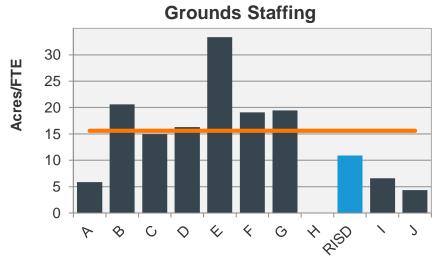


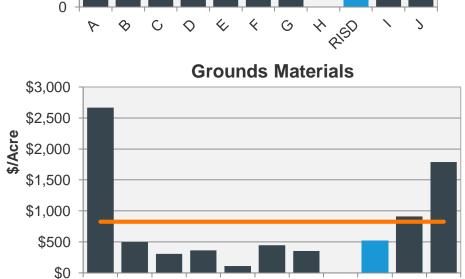


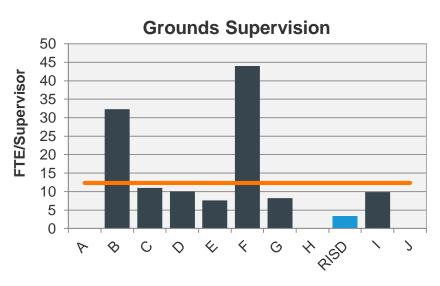


Grounds Metrics

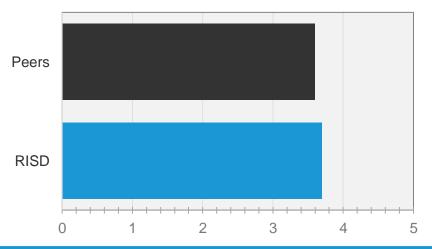








Grounds Inspection Score





P

Pictures

RISD

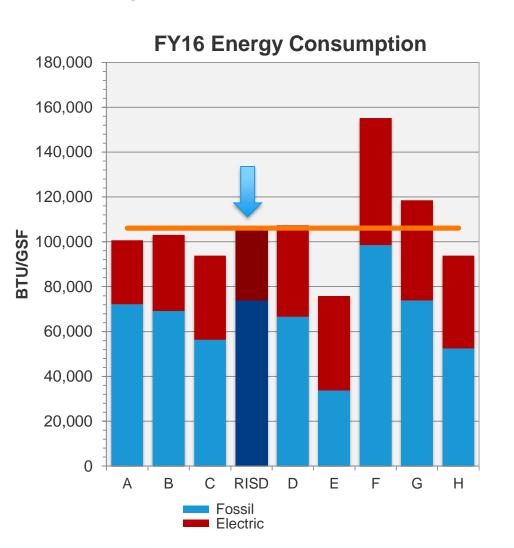
From fall 2016 inspection

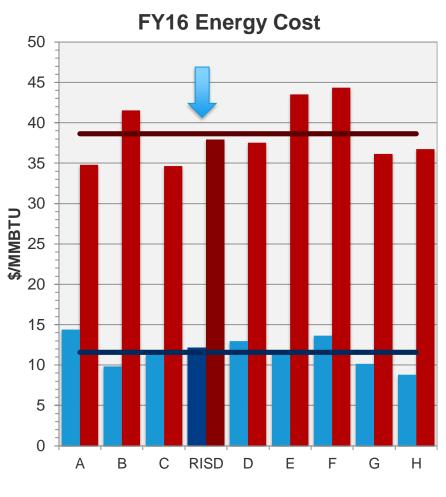


Energy Snapshot



Consuming at peer levels







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

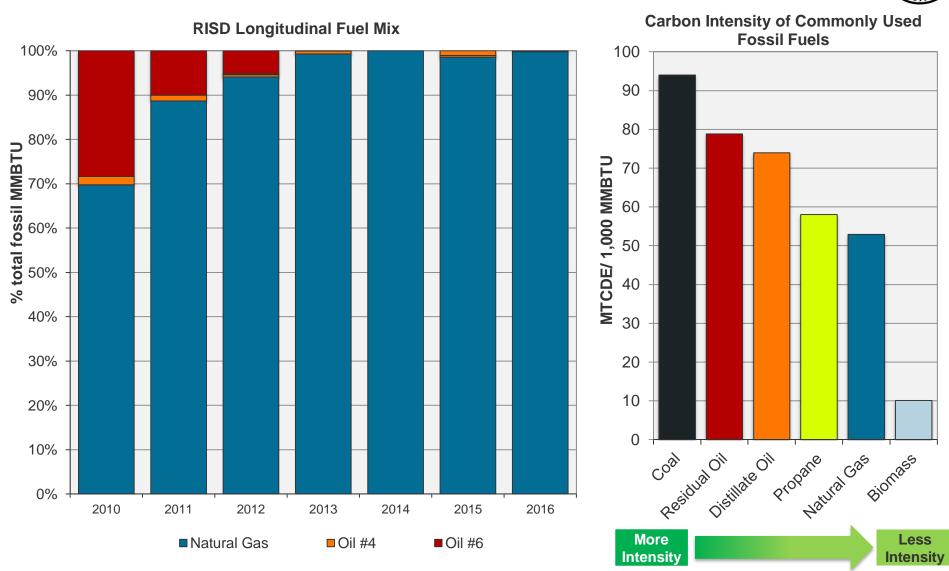
OFFSET:

Offset the emissions from consumption



Scope 1 Stationary: Fuel Mix

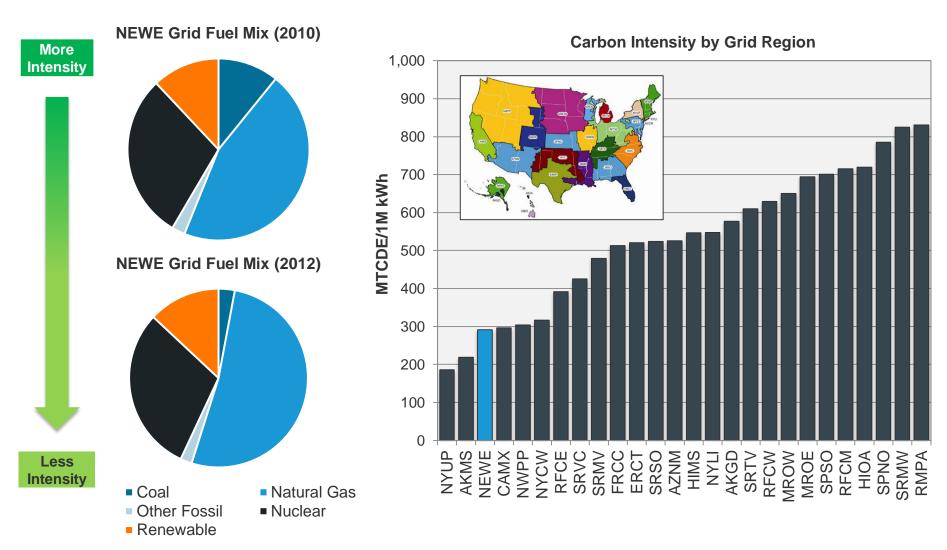






Scope 2 Purchased Electric: Fuel Mix



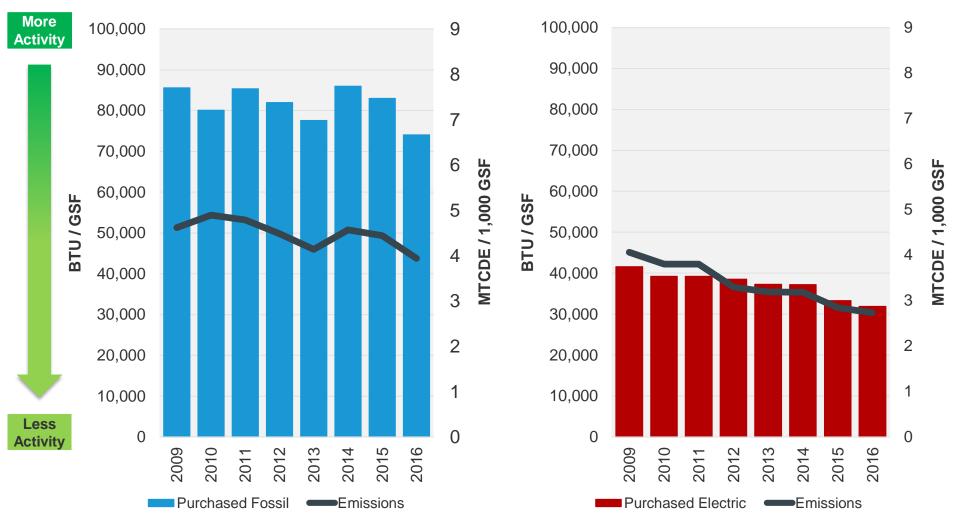




Scope 1 Stationary and Scope 2 Electric Emissions



Consumption vs. Emissions





Concluding Comments



- > 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



