



ROPA+

Mississippi Institutions of Higher Learning

Presenter: Peter Reeves

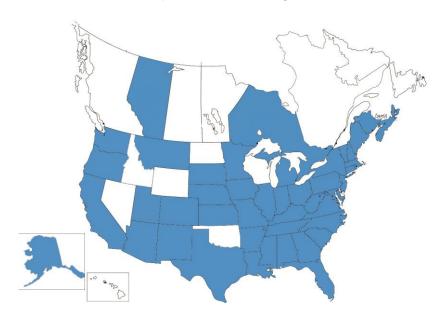
June 18, 2014

Wesleyan University West Chester University West Liberty University 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 Williams College Williston Northampton School Worcester Polytechnic Institute Worcester State University **Xavier University** Yale University Yeshiva 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*
- 33 Flagship State Universities
- 13 of the 14 Big 10 Institutions
- 9 of the 12 lvy Plus Institutions
- 7 of 12 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

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



Progress Since 2011



- > Through a combination of new construction, renovation, and demolition, the IHL has achieved a balanced age profile
- > Both E&G and Housing have reduced the average age of buildings meaningfully over the last 8 years
- Increased capital investment has closed the gap to peers systems and slowed the rate of backlog growth
- > Despite having fewer resources than peer systems, operational performance across the IHL has shown improvement in both efficiency and effectiveness





Space Profile — *Driver of Challenges and Opportunities*

Putting Your System Building Age in Context



The system age drives the overall risk profile

Built before 1951

Durable construction

Older but typically lasts longer

Lower-quality construction

Already needing more repairs and renovations

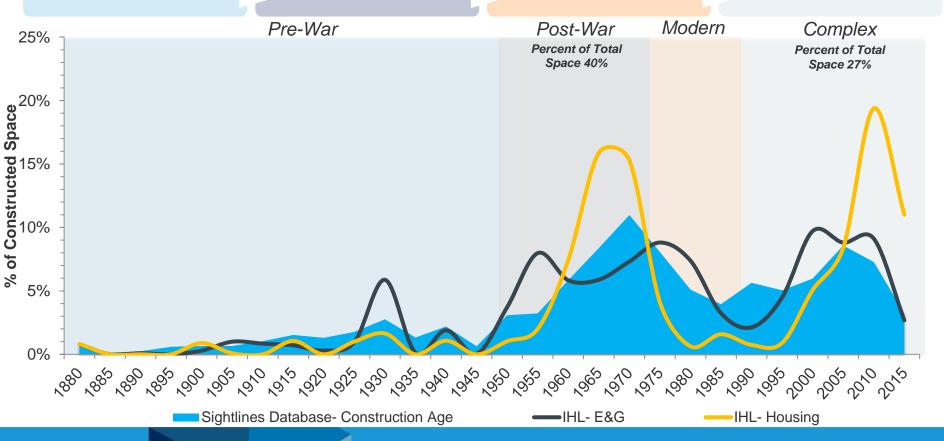
Built between 1951 and

Built between 1975 and 1990
Quick-flash construction

Low-quality building components

Built in 1991 and newer
Technically complex
spaces
Higher-quality, more
expensive to maintain &

repair

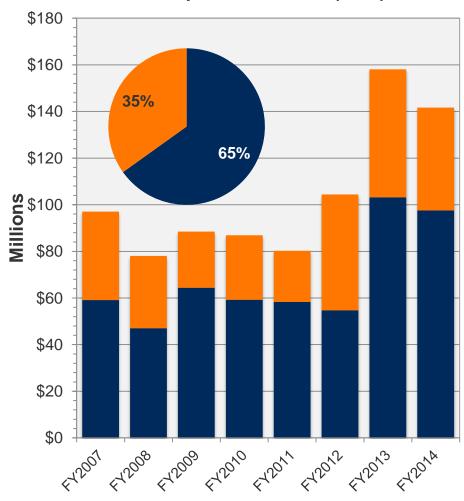




Total Capital Investment







■ New Space Investment

Total Capital Investment (Housing)



■ Existing Space Investment



Investments Have Resulted in Younger Campuses



MS IHL Space over 25 years old

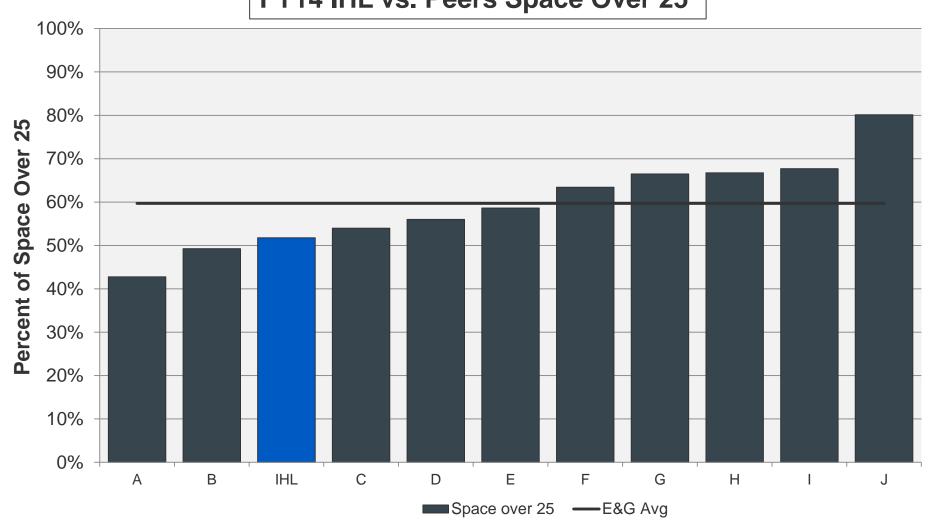




IHL has less space over 25 than peers





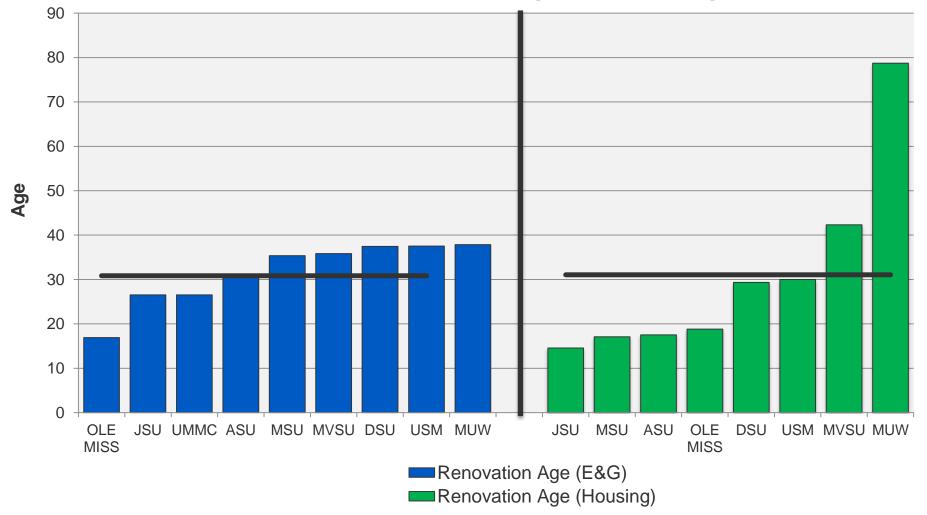




Housing Space Younger Than E&G Space





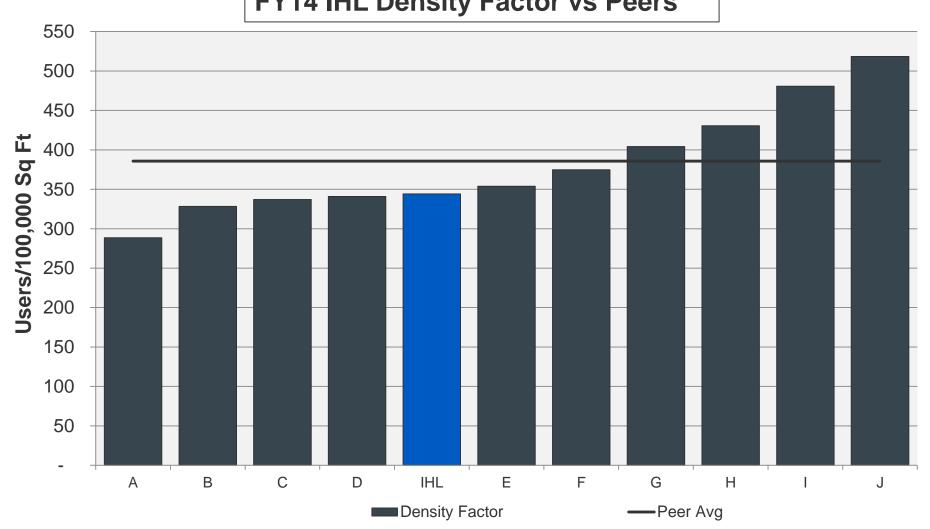




IHL Density Factor vs. Other Systems





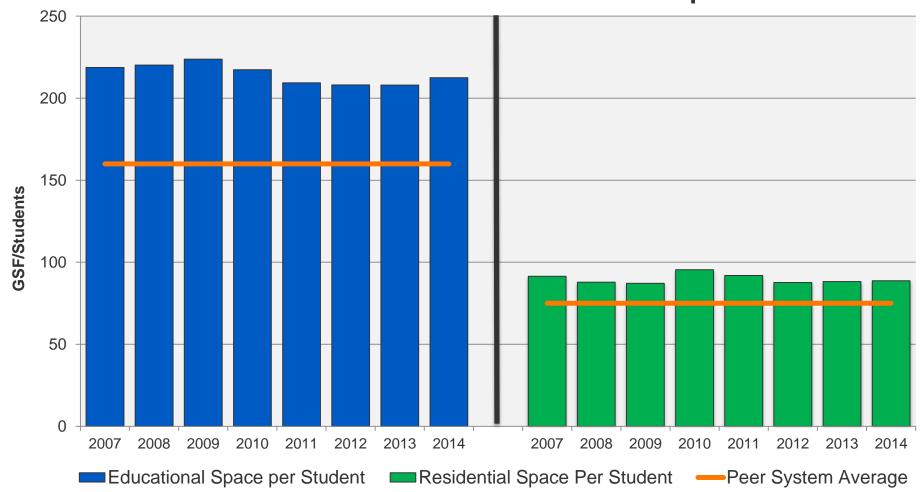




Program and Residential Space



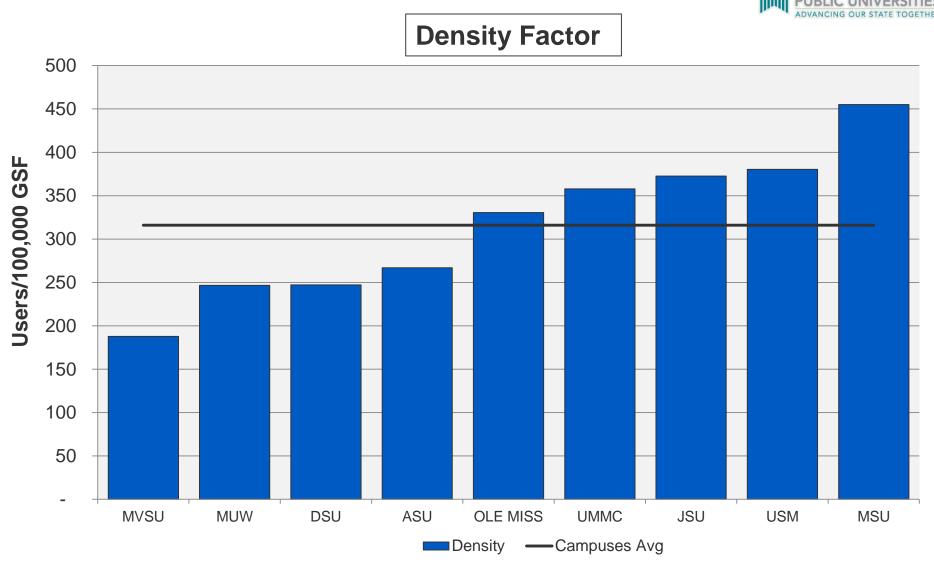
IHL Educational vs Residential Space





Variation Between Campus Density





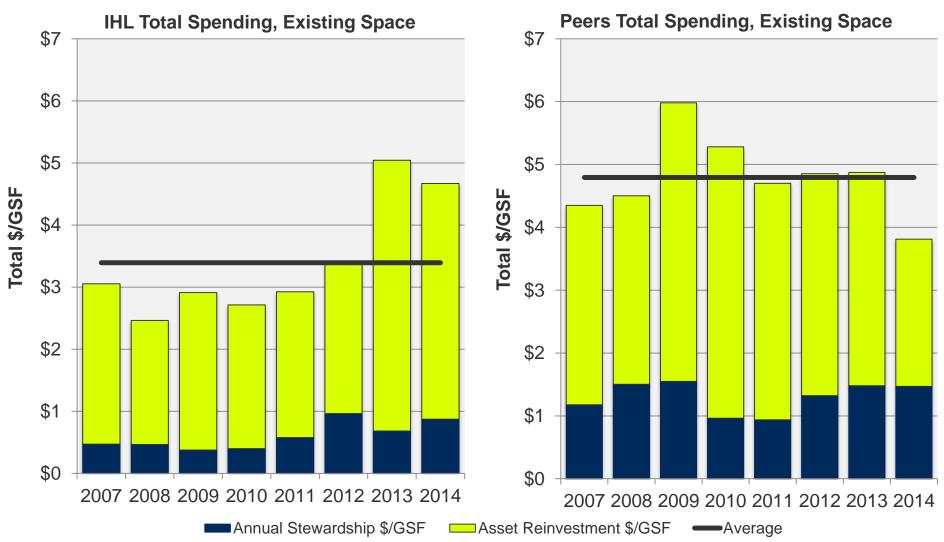




Capital Investments – *Recent trends improve IHL's position*

IHL Spending Closing the Gap to Peer Systems

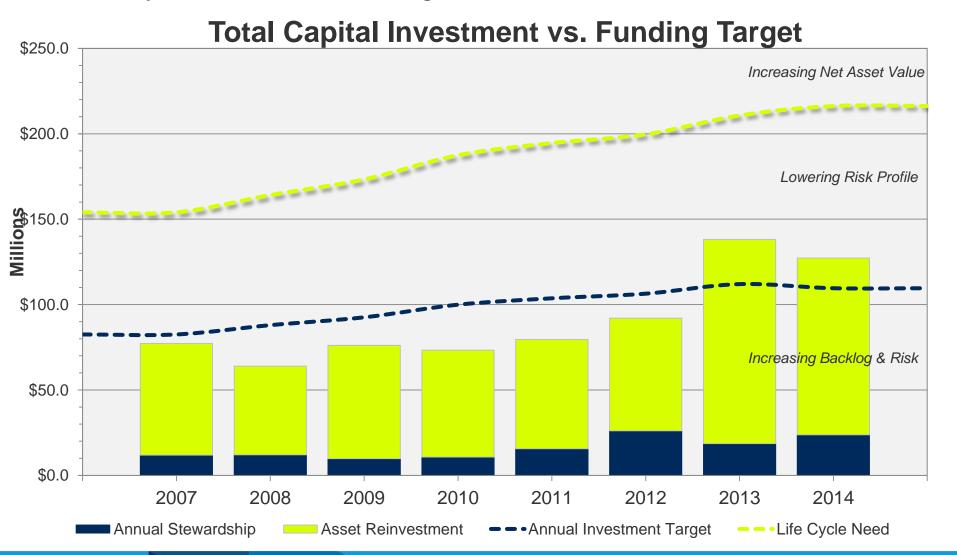






Investments Reaching Target in Recent Years

Includes only the investment in existing facilities

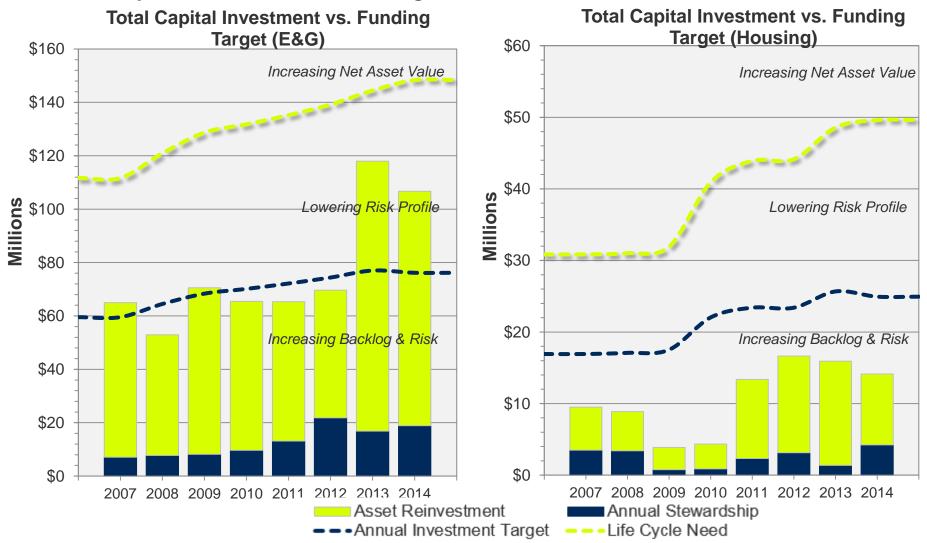




E&G and Housing Differ in Approach



Includes only the investment in existing facilities

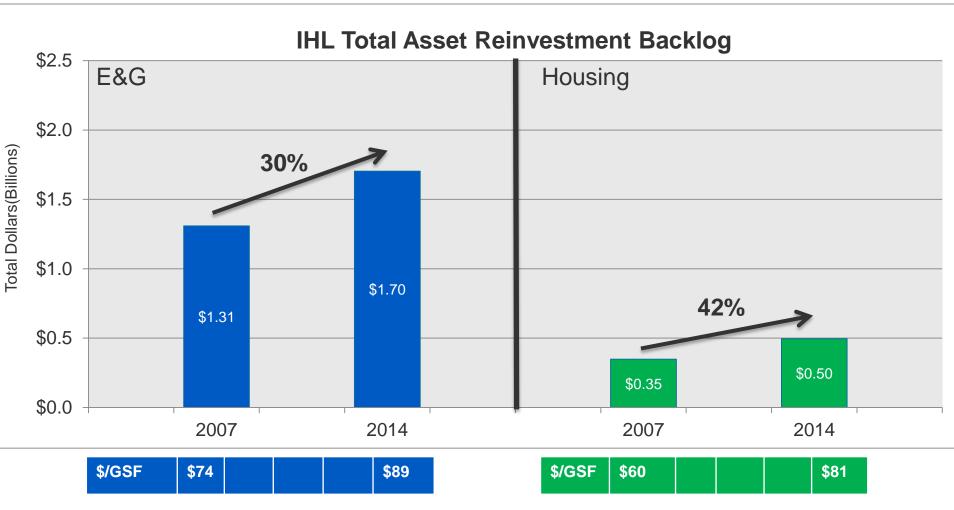




Significant Growth in Total Backlog

IHL E&G backlog over \$1 billion and is growing











Capital Renewal — *Understanding the upcoming 10 Year Capital Needs*

MS IHL 10 Year Capital Needs







Infrastructure & Modernization Need

 Estimated based on building function and age, against a Sightlines database of needs.

Renewal Needs:

Life cycle needs coming due between 2016-2025.

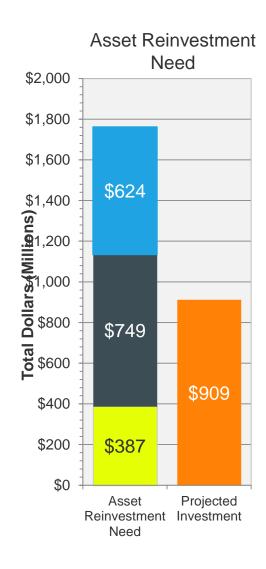
Current Needs:

- The subsystem has already failed
- The subsystem is functioning with substantial degradation of efficiency or performing at increased cost

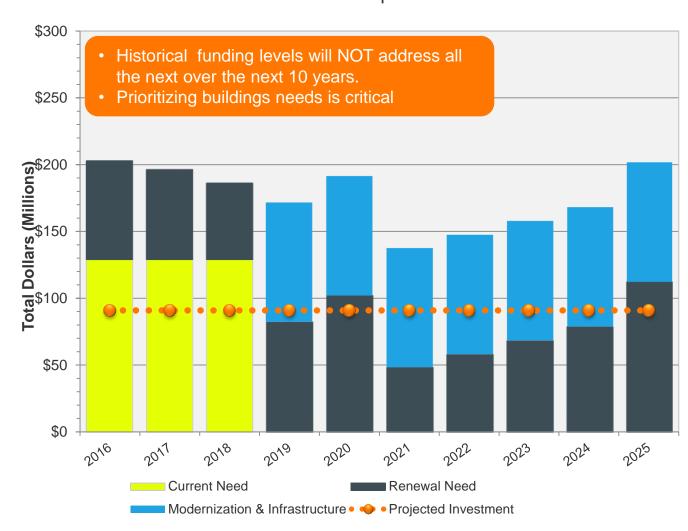


Projecting the Investment Shortfall





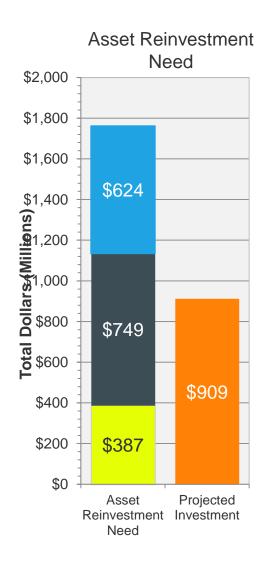
10 Year Capital Forecast



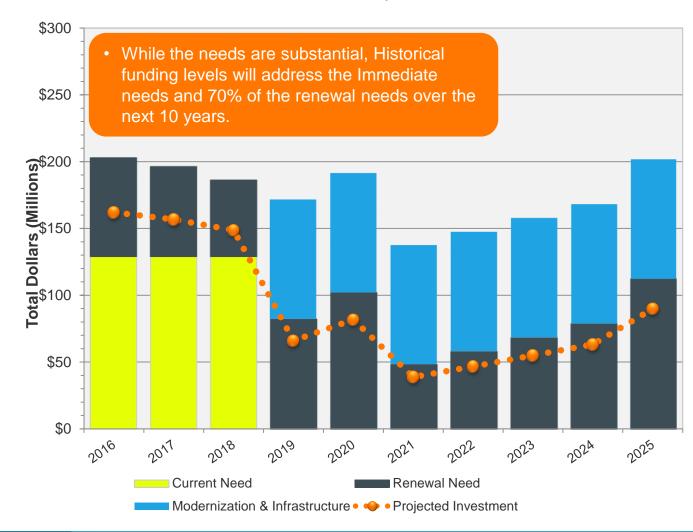


Prioritizing helps address highest risk needs





10 Year Capital Forecast





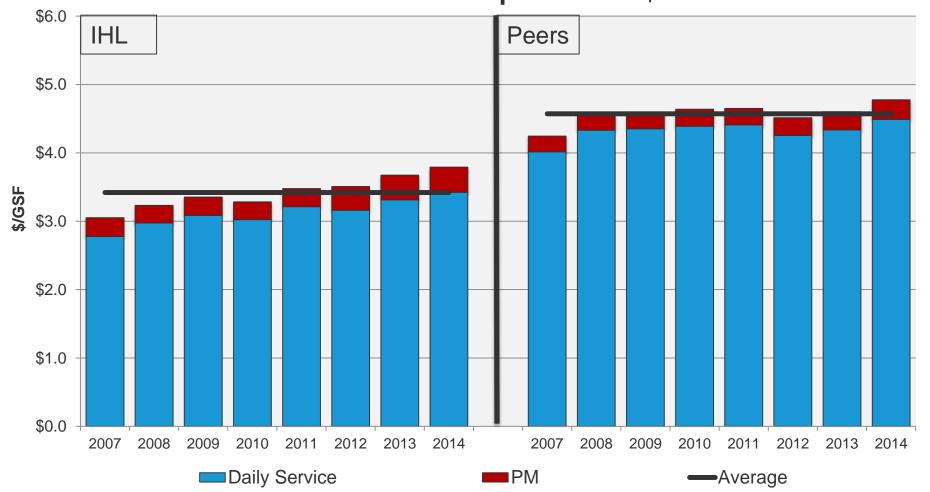


Operational Effectiveness –

Highlighting efficiencies that have been observed over the last 3 years

Operating Expenditures: Investment Remains Below Peers



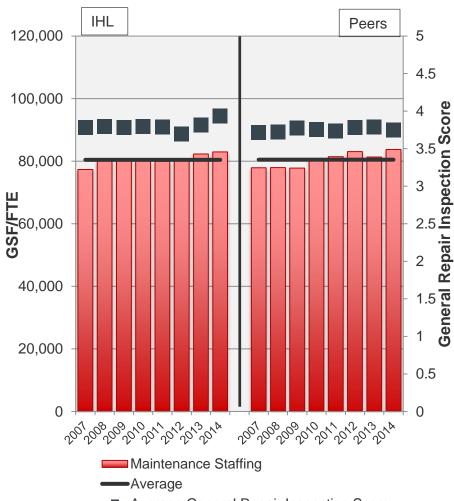




Operational Efficiencies Realized Since 2011

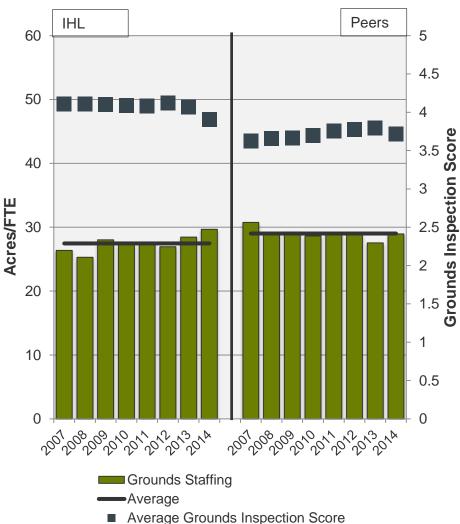


Maintenance Staffing



Average General Repair Inspection Score

Grounds Staffing

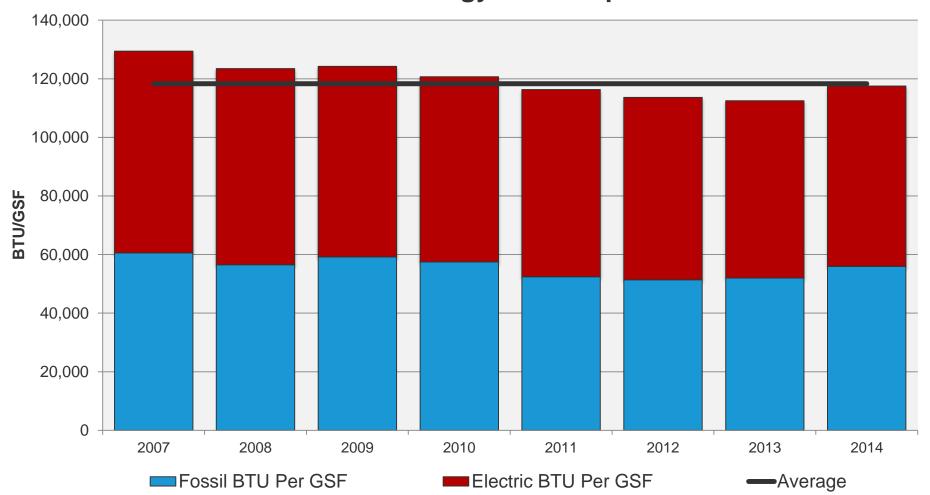




Energy Consumption



Energy Consumption





Opportunities



- Variations in each campus' space profile require a customized approach to funding capital needs across the system. A successful approach will:
 - > Develop a "catch-up" strategy to address older campuses to address significant accumulated needs.
 - > Maintain and grow annual capital funding to younger campuses, slowing the growth of backlog.
- Capital Renewal provides the IHL with a tool to help understand and effectively target future building needs
- > Project Selection will be crucial to maximizing the impact of the resources that the IHL campuses have.
 - > Target "high risk" immediate needs to minimize operational demands and service interruptions
 - > Develop portfolios of buildings to identify and potentially divest of non core assets





Questions & Discussion

Peter Reeves

Associate Director; Member Services

Preeves@sightlines.com

203 - 682 - 4971

203 - 464 - 8847

Peer Systems

MISSISSIPPI PUBLIC UNIVERSITIES ADVANCING OUR STATE TOGETHER

System Comparison Group

Connecticut State Colleges & Universities

Massachusetts State Colleges and Universities

Pennsylvania State System of Higher Education

Rutgers University Campuses

University of Alaska System

University of Maine System

University of Massachusetts System

University of Missouri System

University System of New Hampshire

West Virginia Higher Education Policy Commission



Comparative Considerations

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



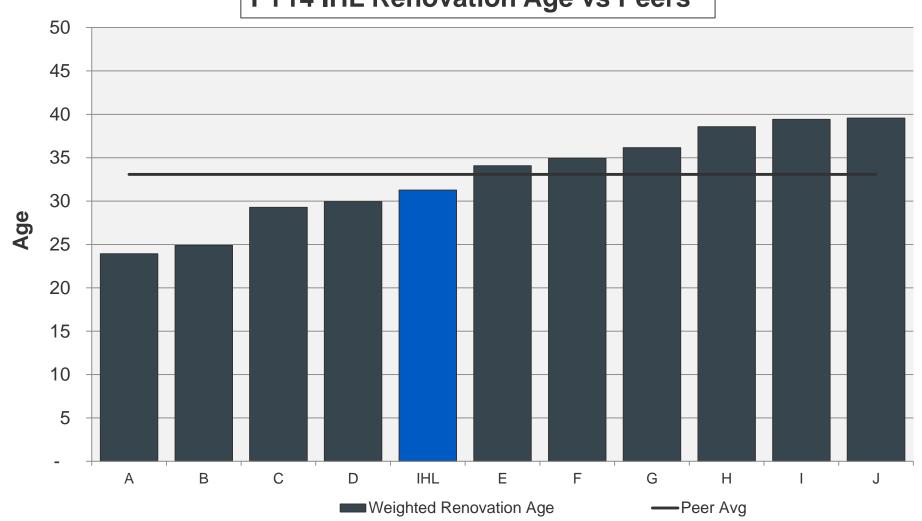


Appendix #1: Space Profile

IHL slightly younger than peers





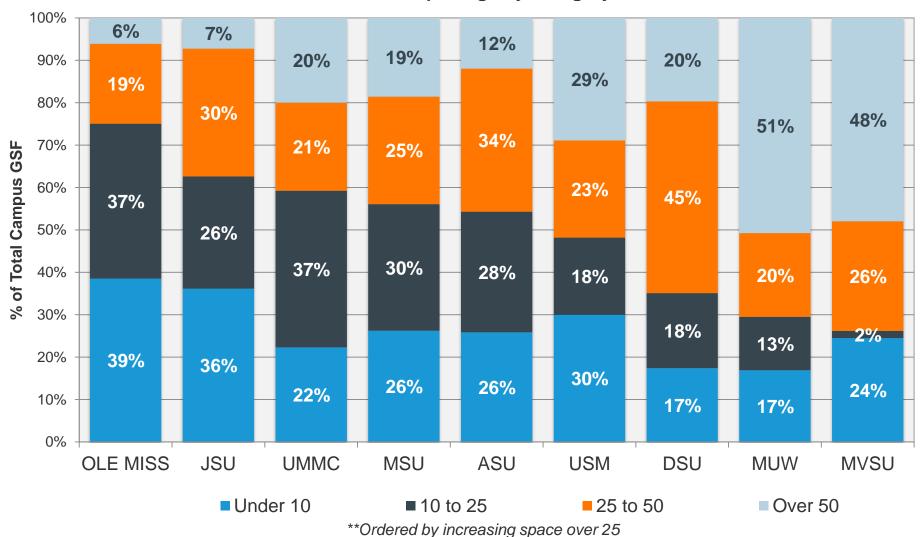




Campus Age Profile



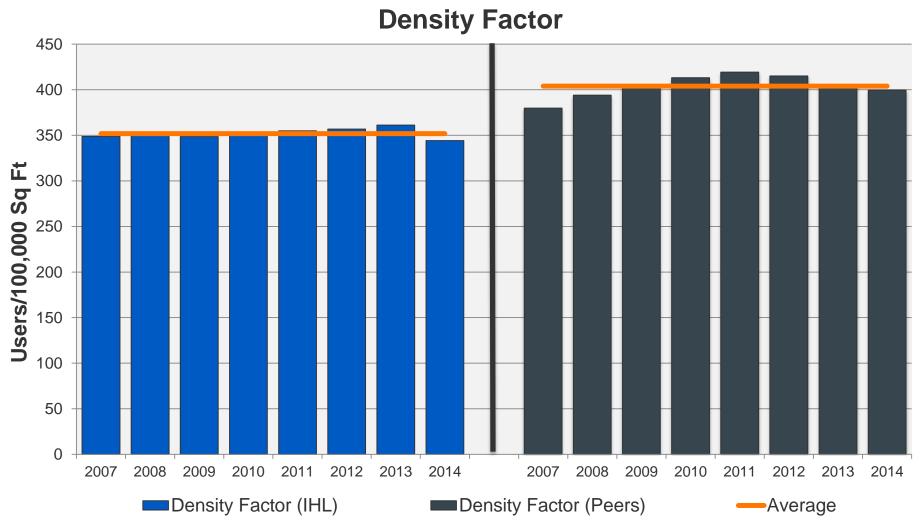
Campus Age by Category





IHL less dense than peers







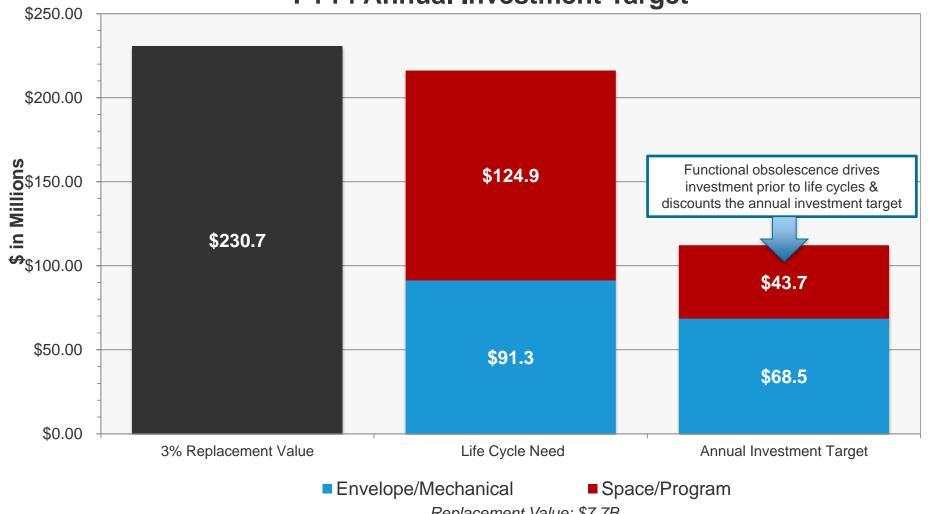


Appendix #2: Capital and Backlog

Defining an Annual Investment Target





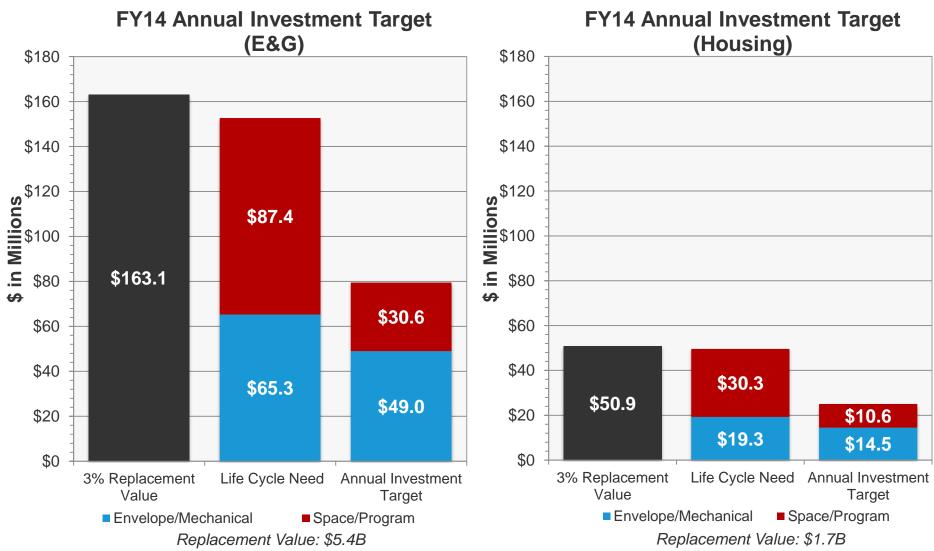


Replacement Value: \$7.7B



Defining an Annual Investment Target



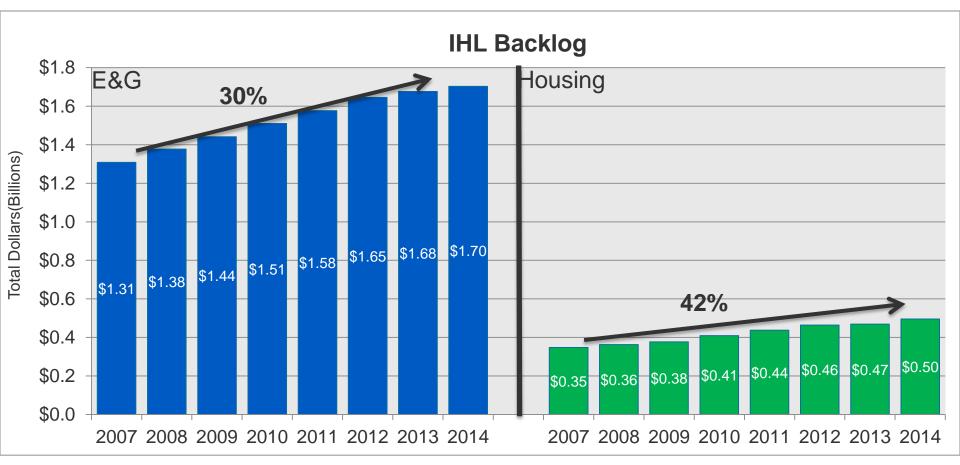




Significant Growth in Total Backlog

IHL E&G backlog over \$1 billion and is growing



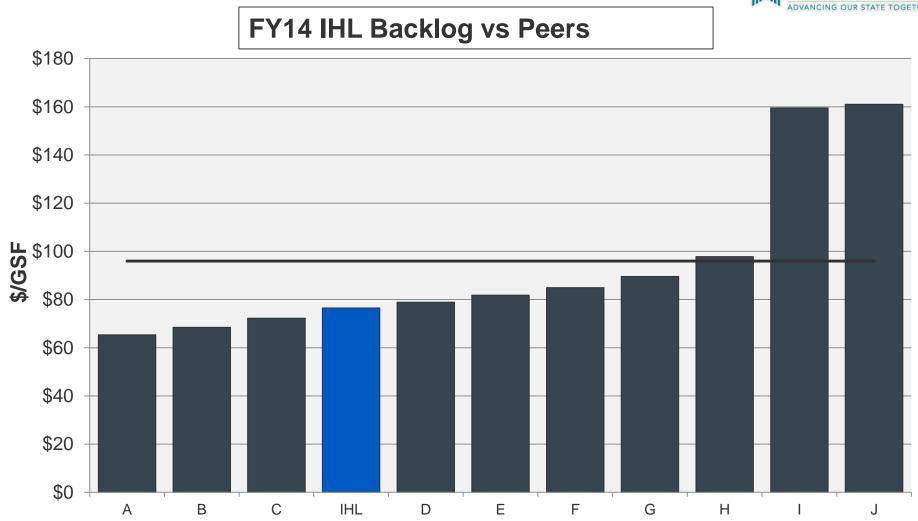


| \$/GSF | \$74 | \$74 | \$77 | \$81 | \$84 | \$86 | \$87 | \$89 | | \$60 | \$64 | \$67 | \$64 | \$68 | \$75 | \$75 | \$81 | |
|--------|------|------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|--|
|--------|------|------|------|------|------|------|------|------|--|------|------|------|------|------|------|------|------|--|



IHL backlog less than peers





■ Backlog \$/GSF



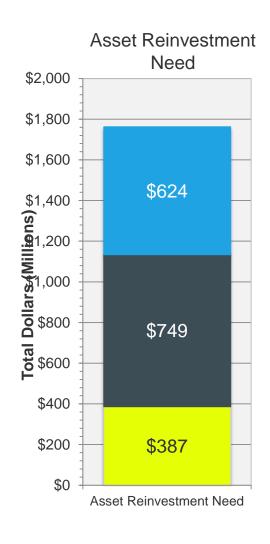
—Peer Avg

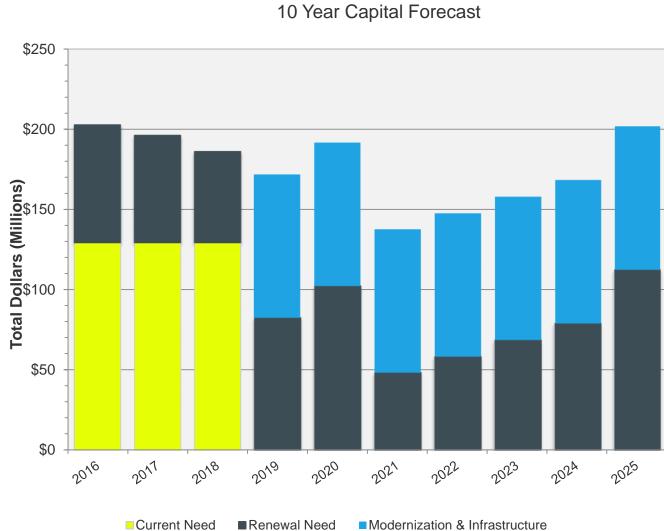


Appendix #3: Capital Renewal

Capital Renewal: Predictive Investment Model 6



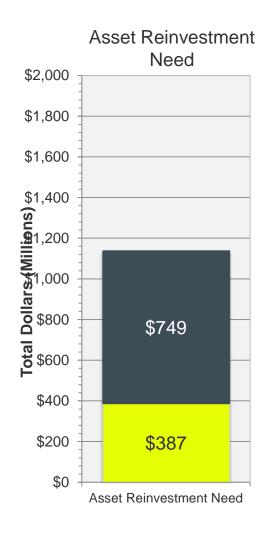


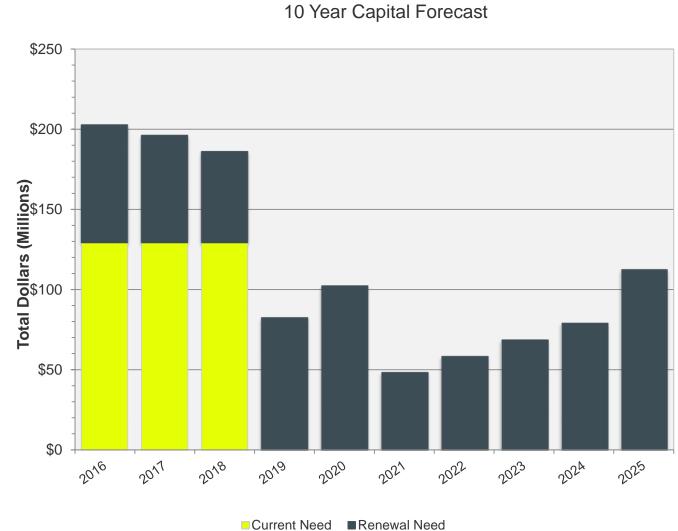




Capital Renewal: Predictive Investment Model 6



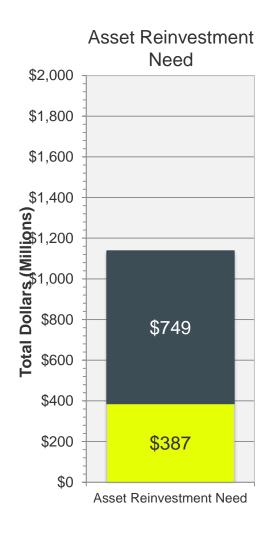




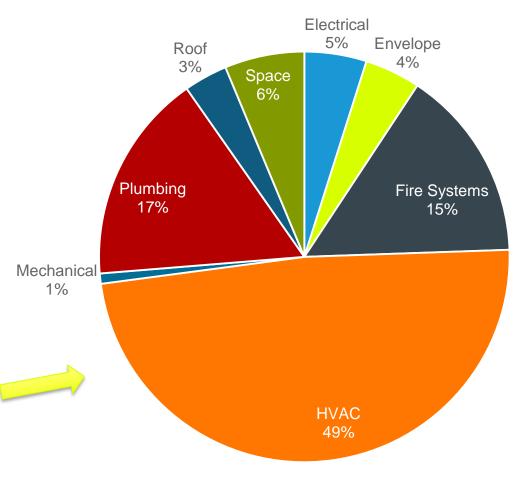


Capital Renewal: Predictive Investment Model





Current Need Breakdown

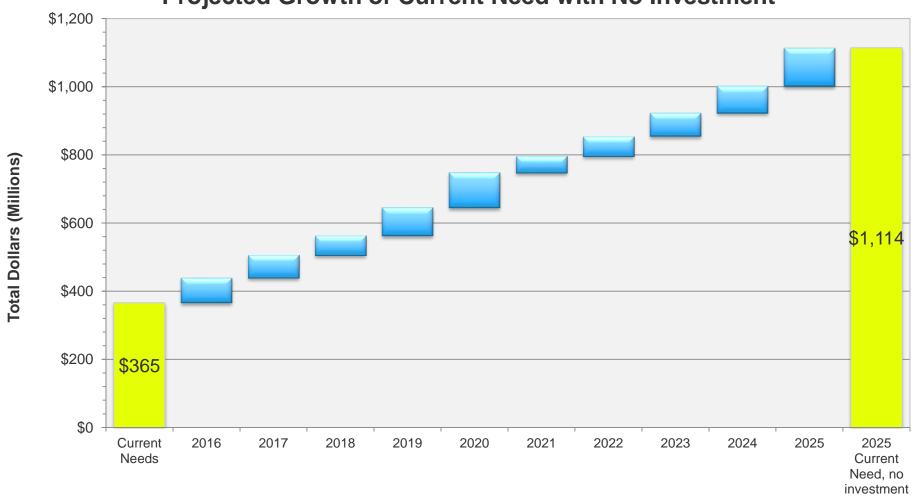




Potential for Significant Growth



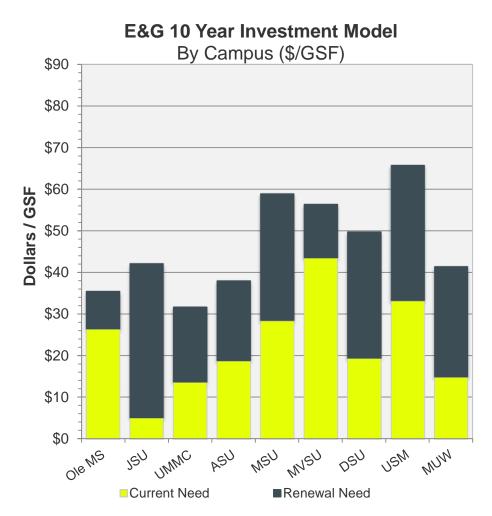






MS IHL 10 Year Needs By Campus





Housing 10 Year Investment Model By Campus (\$/GSF) \$90 \$80 \$70 \$60 \$50 \$40 \$30 \$20 \$10 \$0 USM WUM ASU SU Current Need ■ Renewal Need

Arrayed in increasing age _____



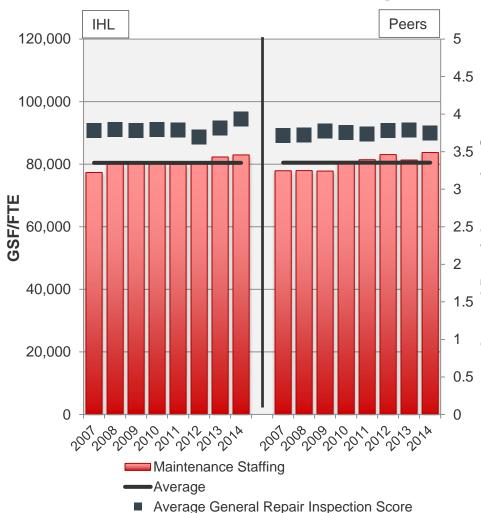


Appendix #4: Operations

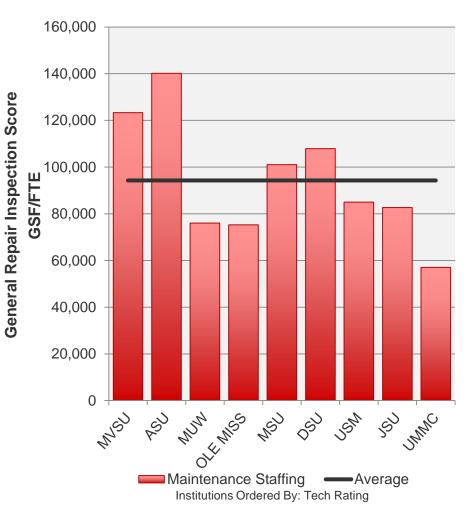
Maintenance Coverage



Maintenance Staffing



Maintenance Staffing FY14

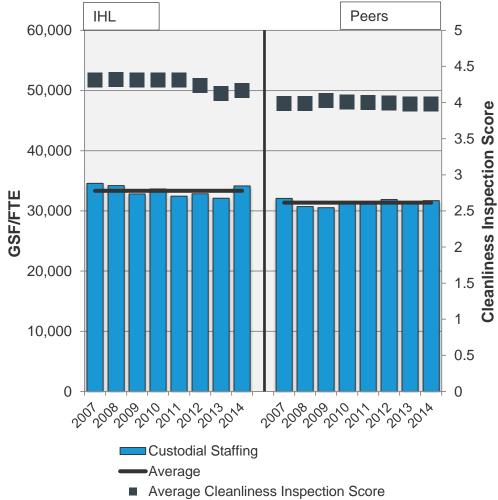




Custodial Coverage



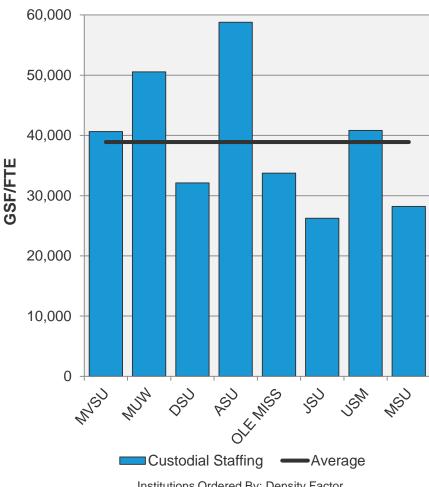
Custodial Staffing

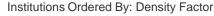




^{**}Excluding UMMC from Coverage

Custodial Staffing FY14



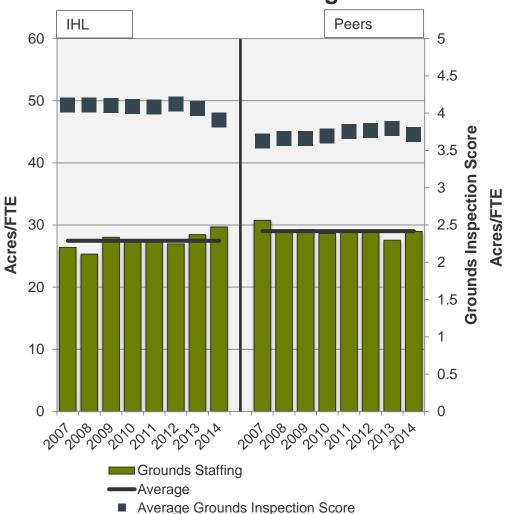




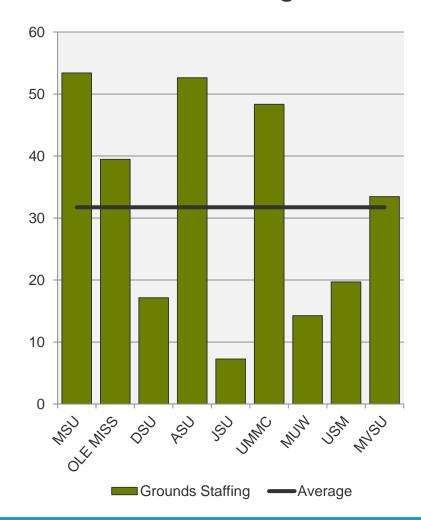
Grounds Coverage







Grounds Staffing FY14





Energy Consumption



Energy Consumption

