

Proving the Profits: Linking Energy and Financial Performance

Better Buildings Summit

May 11, 2016



Agenda

9:45 Welcome & Introductions

9:50 Speaker Presentations

10:30 Discussion

11:00 Adjourn





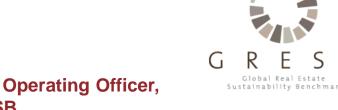
Today's Presenters

Jason Hartke



Program Manager, U.S. DOE

Chris Pyke



Chief Operating Officer, GRESB

David DeVos

VP of Sustainability, **Prudential Real Estate Investors**



Jennifer McConkey

Senior Director, Operations & Sustainability, Principal Real Estate Investors







Chris Pike, GRESB





Better Buildings Through Engaged Responsible Investment

Better Buildings Summit 2016

Mission

Serving institutional investors since 2009

Enhancing and protecting shareholder value by evaluating and improving the sustainability performance of real assets





GRESB

Theory of Change

Fundamentals

Informing Institutional Investors and Participating Companies and Funds

- Ask: Investors, companies, and funds ask about ESG performance.
- Analyze: Participants use data and comparative analysis to identify strengths and weaknesses
- Engage: Investors and participants drive positive change, ESG performance, reduce risk, and create value.



Assessment Ask the Question

Real Estate Investor Members

Integrate ESG data and utilize GRESB tools









































































































Partners and Supporters

Real Estate Associations and Industry Bodies

Strategic Alliances







Real Estate Industry Partners

























Supporters

- ACSI (The Australian Council of Superannuation Investors)
- AFIRE (The Association of Foreign Investors in Real Estate)
- ARES (The Association for Real Estate Securitization)
- BBP (Better Building Partnership)
- Danish Property Federation
- JSBC (Japan Sustainable Building Consortium)
- PCA (Property Council of Australia)
- PHILGBC (Philippine Green Building Council)
- RIAA (Responsible Investment Association of Australasia)
- SGBC (Singapore Green Building Council)
- Swedish Property Federation

See www.gresb.com/members for the most up-to-date Member list

Participants

Year-over-year growth

2015 Global Participation = 707

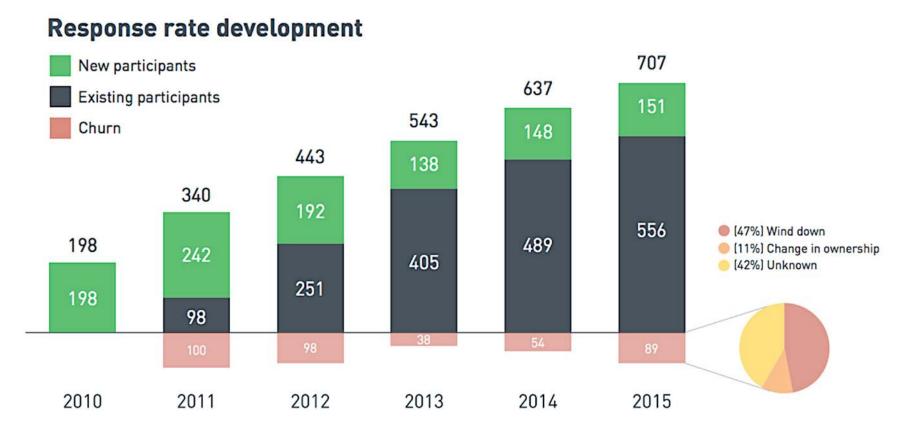
Private Equity Funds = **537**Publicly Listed = **170**

Private equity profile

67% Core 22% Value Added 11% Opportunistic

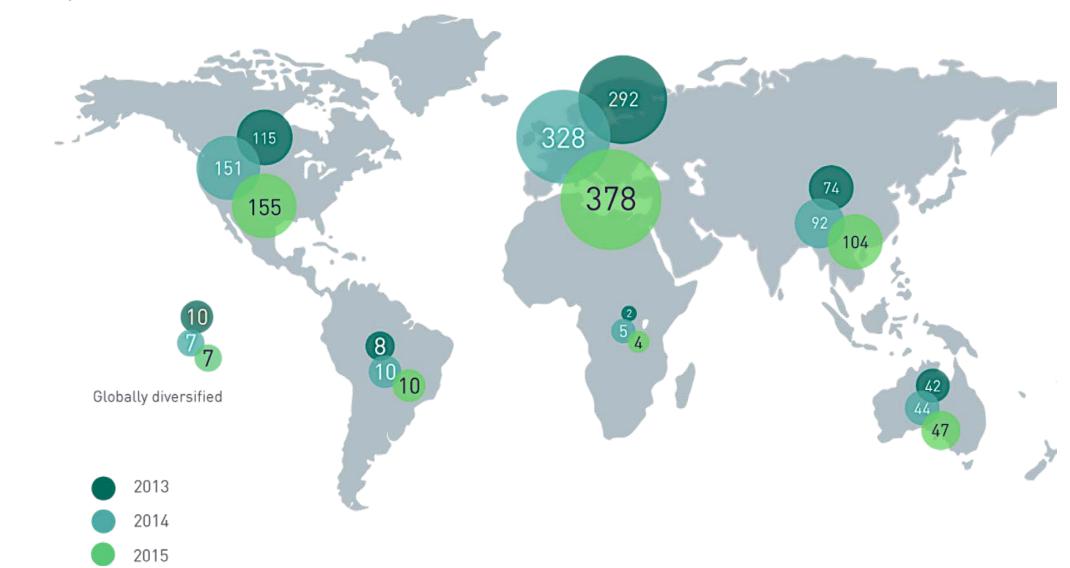
Standing investments only 393 participants (57%)

Standing investments and new construction 315 participants (46%)



Geographic Distribution

Global response rate

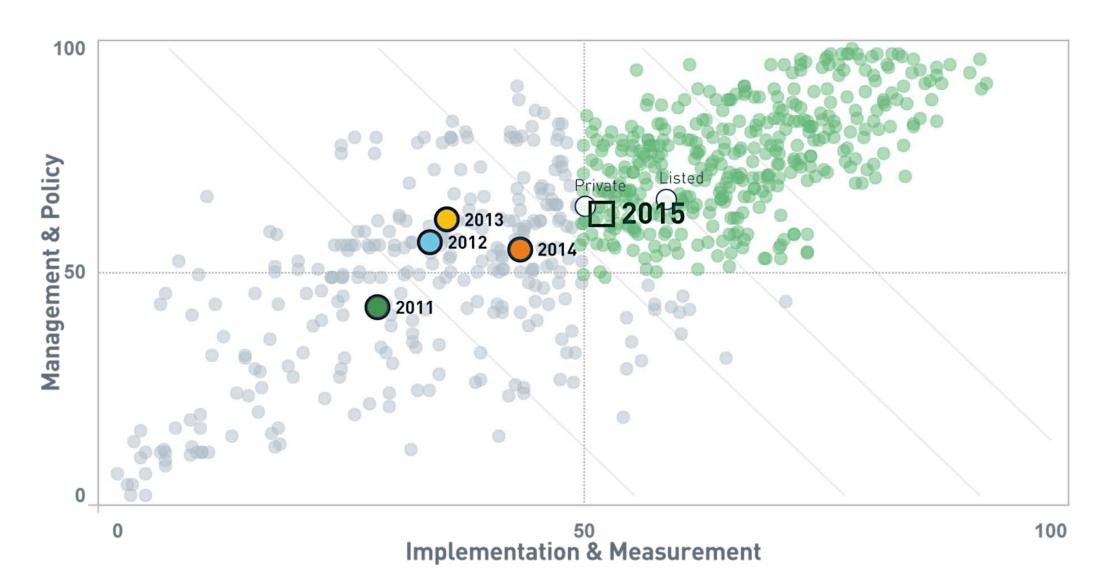




Analyze Interpret the Data

Differentiation

Scoring and benchmarking ESG performance



AspectsStrengths & Weaknesses





Positive Change Engagement

Investment Phase & Strategy

GRESB Investor Members represent different investment strategies

Investment Phase

- Pre-investment
 - Deal sourcing, screening, stock selection, due diligence
- Investment Decision
- Post-investment
 - Monitoring & engagement
 - Communication & reporting

Investment Strategy

- Indirect
 - Listed companies
 - Private entities (funds/JV's)
 - Opportunistic
 - Value-added
 - Core
 - Integrated strategy
- Fund-of-funds
- Direct

APG Asset Management

Private real estate investments

Due Diligence

S&G Due-diligence

- Quality of S&G policies, implementing measures, monitoring system and reporting regime in place
- Legal issues, reputation, and controversies
- S&G governance
- Level of commitment by investment partners

Screening

S&G Consultation

- Discuss with PMs the issues arising out of DD
- Resolve the issues or propose solutions for implementation prior to Investment Committee
- S&G meetings with managers

Investment Committee

Formal S&G Review

- S&G Sign-off is submitted to Investment Committee
- Formal recommendation submitted for review by committee

Execution

S&G Implementation

 Ensure S&G initiatives, policies addressed in Formal S&G Assessment in place before executing commitment

Asset Management

S&G Monitoring

- S&G Survey to monitor S&G performances across portfolio and vis-a-vis other regions
- Monitoring of S&G compliance
- S&G reporting

GRESB is used as basic diligence resources

APG Asset Management

Communication & reporting (RIR2014)

Investments in green bonds

Listed companies engaged in dialogue on **ESG** topics

Number of companies on our exclusion list

356_{MILLION €} 218

Reduction in CO₂ footprint of equity investments

High-sustainability investments

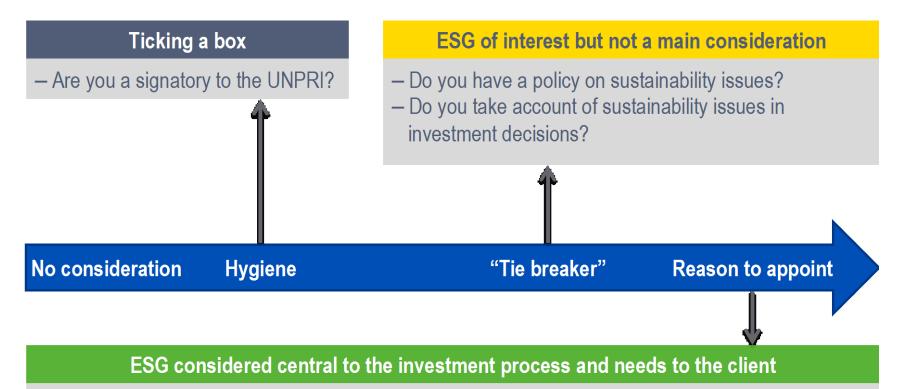
Number of shareholders' meetings at which APG voted

4,736

Aviva Investors

Private/pre-investment phase: due diligence

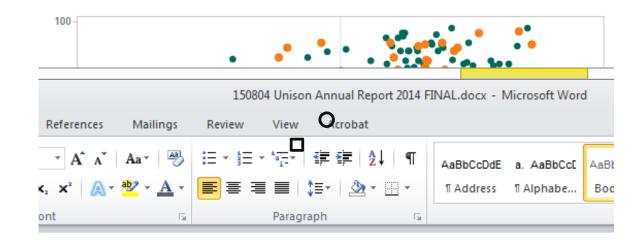




- How do you use ESG factors to add value and influence your investment beliefs?
- Outline whether you perceive there to be a link between environmental performance and financial risk and return.
- Demonstrate how incorporating ESG factors have benefited your investments.

Aviva Investors Communication & reporting





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ey for the 2nd

year running



Outcomes

Better Companies and Funds

Better Listed Performance

Higher GRESB Ratings correlate to superior REIT financial performance

A University of Cambridge study by Franz Fuerst, commissioned by the Carbon War Room and the Rocky Mountain Institute, found that, adjusted for risk, there is a significant link between portfolio sustainability indicators and REIT stock market performance. More

TABLE 1:
AVERAGE FINANCIAL PERFORMANCE OF GRESB
VERSUS NON-GRESB PARTICIPANTS
(% ANNUAL RETURN)

	2011	2012	2013	2014		
Non-GRESB ROA	3.193	3.599	3.696	3.335		
GRESB ROA	3.618	2.683	3.055	3.711		
Non-GRESB ROE	5.994	7.577	6.607	7.465		
GRESB ROE	7.949	6.267	7.011	8.515		

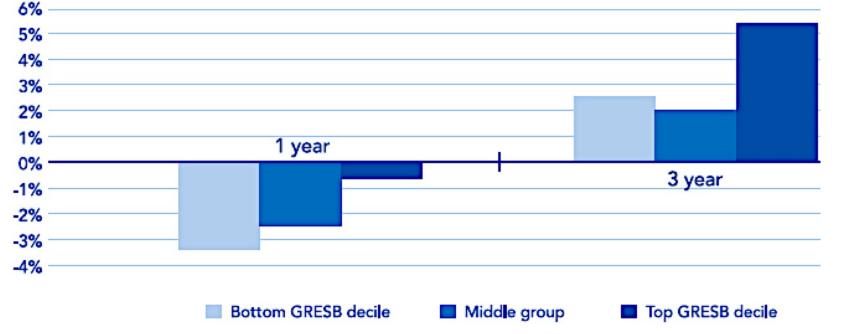
- A higher sustainability ranking in the annual GRESB REIT survey correlates to superior financial performance. Both the returns on assets and returns on equity of REITs with high GRESB scores outperform their peers.
- Adjusted for risk, there is a significant link between portfolio sustainability indicators and REIT stock market performance.
- The study establishes for the first time that investing in sustainability pays off for investors in REITs, enhancing operational performance and lowering risk exposure and volatility.

Better Non-Listed Performance

Research from INREV

Highlights:

- INREV data merged with GRESB data (101 funds 3 years of data)
- Total return correlations show sustainability matters
- Attribution analysis shows that this is partially due to differences in leverage



Transparency and
Performance of the
European non-listed
Real Estate Fund
Market, Dirk Brounen et
al, Sept 2014

Better Performance within Sectors

Higher GRESB Ratings correlate to superior REIT financial performance

About the study

A new ground-breaking study based on 10 years of Bentall Kennedy office property portfolio data conducted by an internationally recognized academic research team has found that green office buildings deliver higher income and value.

The article, titled "Green Certification and Building Performance: Implications for Tangibles and Intangibles", was published in the September 2015 Special Real Estate Issue of Institutional Investor's Journal of Portfolio Management.

This study, conducted by Dr. Nils Kok of Maastricht University in The Netherlands and Dr. Avis Devine of the University of Guelph in Canada, shows that green certified buildings experienced higher rent, occupancy, renewals and tenant satisfaction.

3.7% ↑
net effective rents

Net effective rents including the cost of tenant incentives, average 3.7 percent higher in LEED certified properties in the U.S. than in similar non-certified buildings.

4% ↓ rent concessions Rent concessions, for LEED and BOMA BEST buildings in Canada are on average 4 percent lower than in similar non-certified buildings.



Tenant renewal rates were 5.6 percent higher in Canadian buildings with BOMA BEST Level 3 certification than in buildings with no BOMA BEST certification.



Energy consumption per square foot was 14 percent lower in U.S. LEED certified properties than in buildings without certification.

Journal of Portfolio Management [Sept 2015] http://www.bentallkennedy.com/news-2015-10-06.php

Driving Change

Better Property Companies and Funds

- ✓ Ask: Investors, companies, and funds ask about ESG performance.
- ✓ Analyze: Participants use data and comparative analysis to identify strengths and weaknesses
- ✓ Engage: Investors and participants drive positive change, ESG performance, reduce risk, and create value.



More

Visit: GRESB.com Contact: c.pyke@gresb.com Follow: @chrispyke

David DeVos, Prudential Real Estate Investors



Better Building Summit Proving the Profits LEED certifications at Institutional Office Buildings

May 11, 2016

Prudential Real Estate Investors



Gateway Markets: San Francisco, Los Angeles, Chicago, Boston, New York, Washington D.C. Metro



Green Adoption

- Our managed LEED buildings are larger, 60% more square feet than our average US office building
- Our managed LEED buildings have more value, 150% more appraised value than our average US office building
- Our managed LEED buildings tend to have large floor areas, typically more amenities and premier locations more likely to have better credit tenants which can positively impact values
- Our managed LEED buildings studied are within the Top 12 CBRE Green Adoption Index (2015 report)

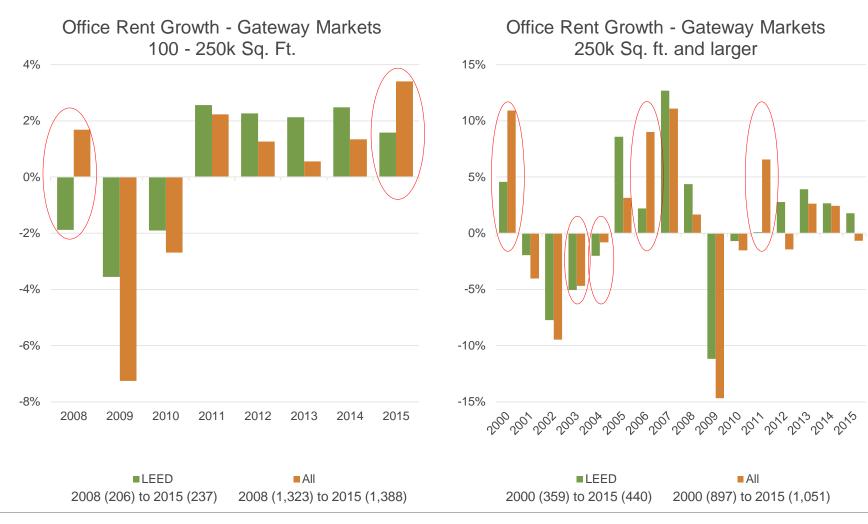
Green Building Adoption Index											
Rank	(2013) Rank	Market	% of Buildings Total Green	% of sq. ft. of Buildings Total Green	% of Buildings Energy Star	% of sq. ft. of Buildings Energy Star	% of Buildings LEED	% of sq. ft. of Buildings LEED			
1	1	Minneapolis/St. Paul	28.05	70.41	22.36	55.39	9.45	36.66			
2	2	San Francisco	19.40	70.02	15.75	53.11	8.21	40.02			
3	3	Chicago	19.73	63.41	15.46	46.02	8.59	38.48			
4	5	Atlanta	29.03	57.85	24.64	44.96	8.69	24.92			
5	4	Houston	21.65	52.83	17.05	41.46	9.38	32.08			
6	7	Denver	15.27	48.66	12.32	38.93	6.49	26.03			
7	6	Los Angeles	18.97	47.14	14.55	34.86	7.15	25.74			
8	10	Washington, D.C.	16.14	42.31	11.53	30.38	7.66	22.32			
9	9	Miami	17.54	41.59	13.21	31.27	6.86	21.84			
10	8	Seattle	9.95	40.13	6.36	23.43	4.90	24.96			
11	12	Walnut Creek	9.92	37.92	6.05	22.54	4.22	18.29			
12	14	Manhattan	24.20	34.65	16.31	18.61	11.21	21.12			

31

Source: CBRE

LEED EB-OM vs. non-LEED – CoStar data in Gateway Markets

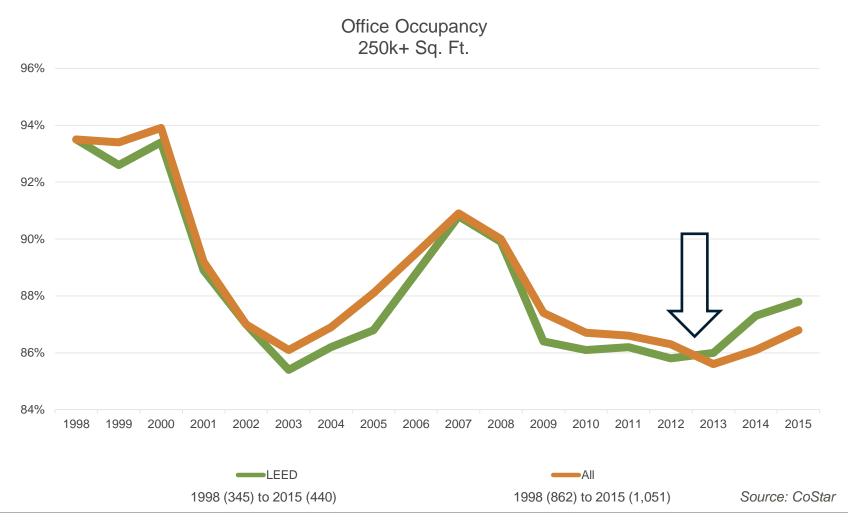




LEED EB-OM vs. non-LEED – CoStar data in Gateway Markets



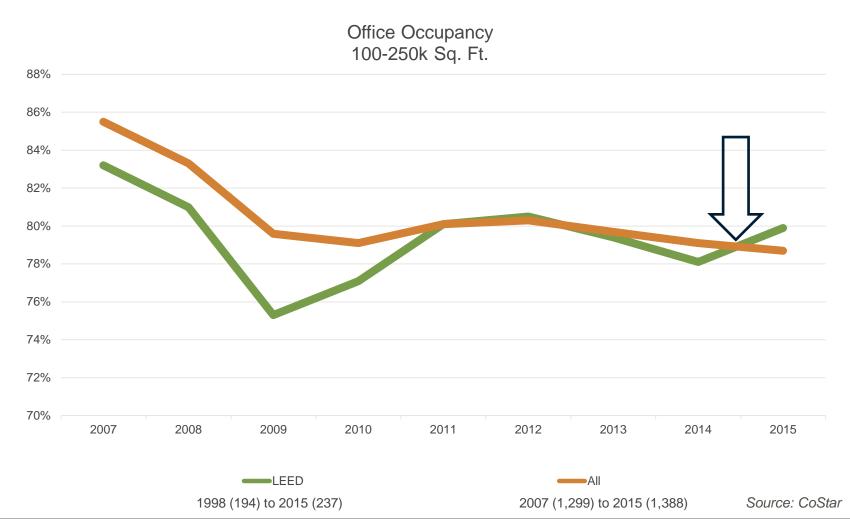
Office Occupancy in Gateway Markets for 250K Sq. Ft. and larger buildings



LEED EB-OM vs. non-LEED – CoStar data in Gateway Markets



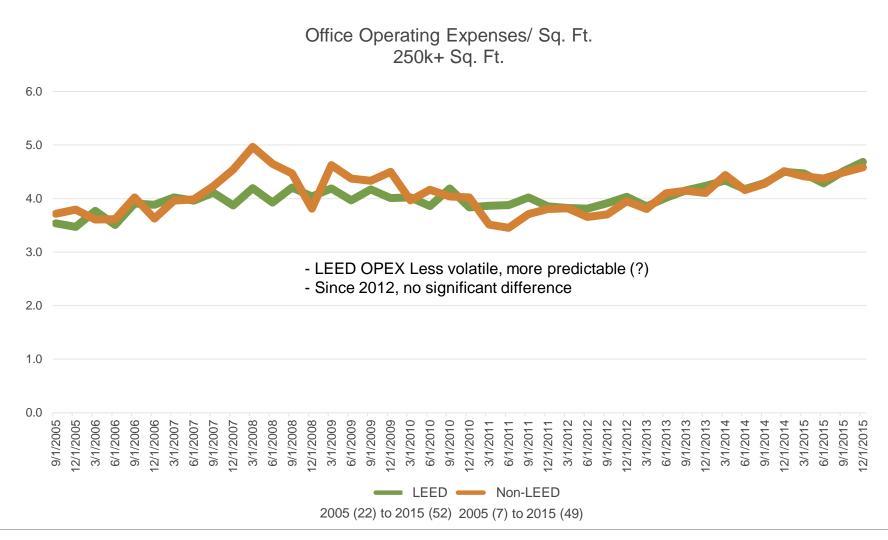
Office Occupancy in Gateway Markets for 100K - 250K Sq. Ft. buildings



LEED EB-OM vs. non-LEED – NCREIF data in Gateway Markets



Operating Expenses \$/Sq. Ft.

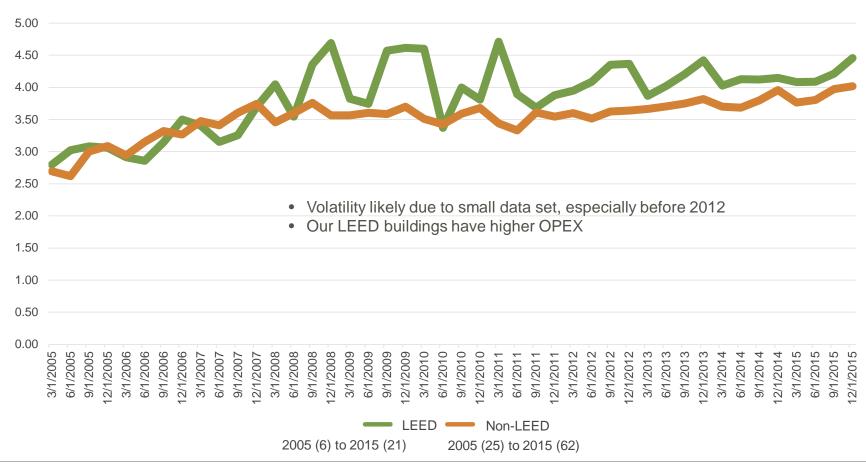


LEED EB-OM vs. non-LEED – NCREIF data in Gateway Markets



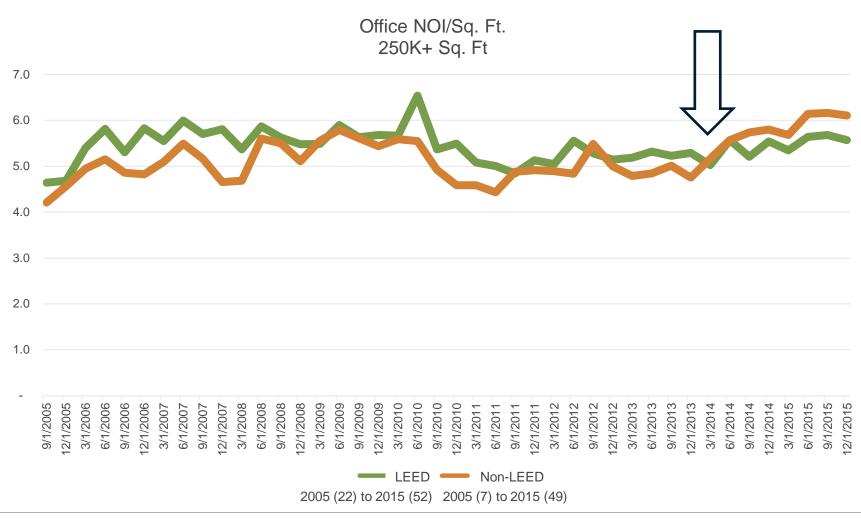
Operating Expenses \$/Sq. Ft.





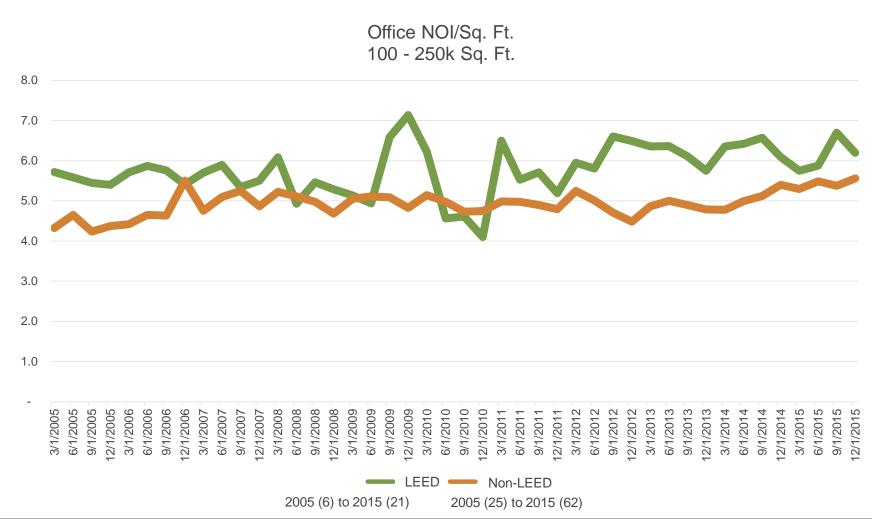
LEED EB-OM vs. non-LEED – NCREIF data in Gateway Markets





LEED EB-OM vs. non-LEED – NCREIF data in Gateway Markets

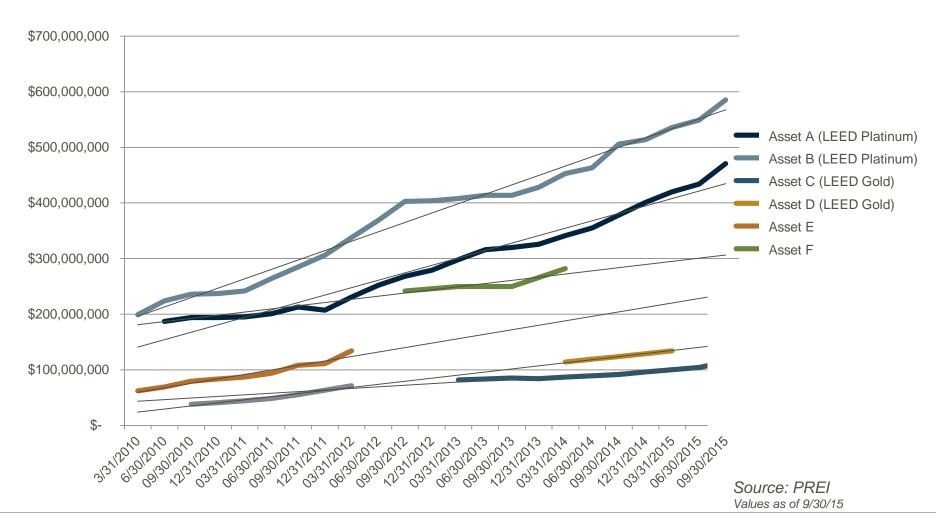




LEED EB-OM vs. non-LEED – San Francisco PREI assets



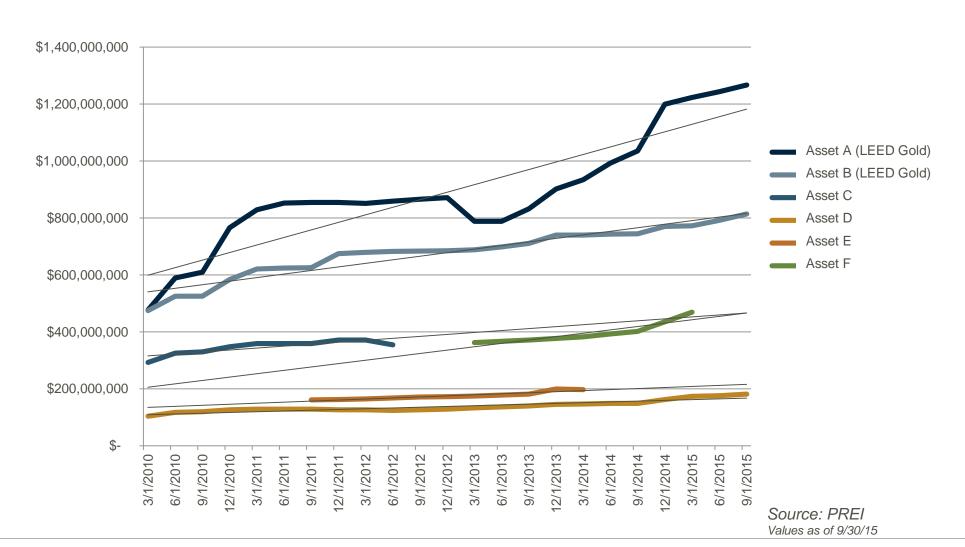
Office Building valuations over time



LEED EB-OM vs. non-LEED – New York City PREI assets



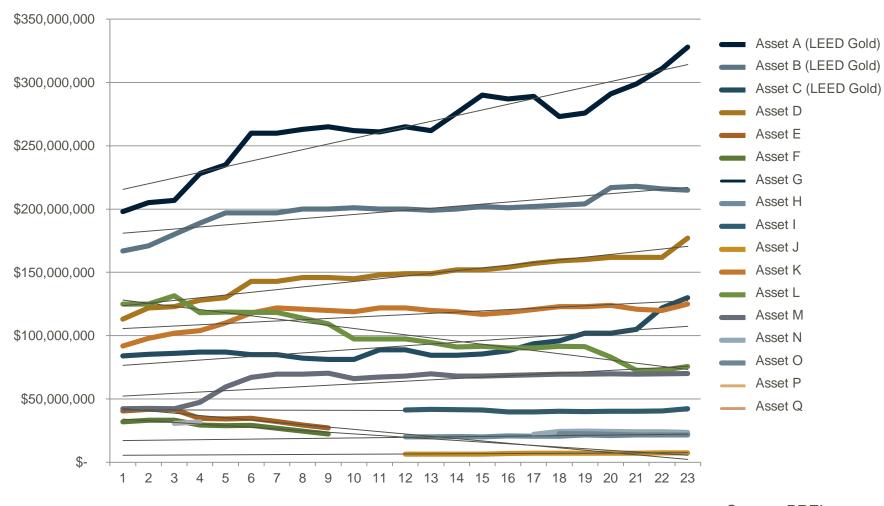
Office Building valuations over time



LEED EB-OM vs. non-LEED – Washington DC Metro PREI assets



Office Building valuations over time



Source: PREI Values as of 9/30/15

Jennifer McConkey, Principal Real Estate Investors





MAY 11, 2016

JENNIFER MCCONKEY

Senior Director, Operations and Sustainability



PRINCIPAL REAL ESTATE INVESTORS

- \$63.3 billion¹ in real estate assets under management
- Draw from six decades of real estate investment experience²
- In-depth coverage of over 45 U.S. metropolitan real estate markets
- 300 unaffiliated institutional clients
- Top 10 manager of real estate³

FOUR QUADRANT REAL ESTATE PLATFORM





REAL ESTATE EQUITY

- \$30.3 billion in private equity real estate assets and \$10.7 billion in public REITs
- 171 million square feet of commercial property
- 25,429 multifamily units
- More than 118 million square feet of developed real estate

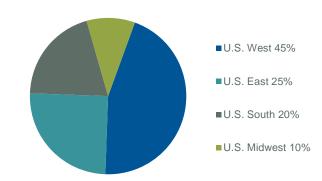
REAL ESTATE EQUITY ASSETS

BY PROPERTY TYPE¹

■ Industrial 23% ■ Real Estate Securities 27% ■ Office 21% ■ Retail 15% ■ Multifamily 11%

Other 3%

BY GEOGRAPHIC REGION²





PILLARS OF RESPONSIBLE PROPERTY INVESTING OVERVIEW

EXPANDED AND RE-BRANDED BEYOND SUSTAINABILITY





MARKET RESILIENCE

Reinforcing the social and economic vitality of markets where we do business through equitable contracting practices, job creation, and a focus on healthy and productive buildings.



CORPORATE GOVERNANCE

Managing risk and meeting investor objectives through integrity, transparency, and managerial oversight.



PROPERTY PERFORMANCE

Improving each building's competitive stature, reducing costs, and delivering enhanced financial and environmental performance through reduced energy, water and waste consumption.



CHANGING MARKET DYNAMICS

- Market emphasis on environmental, social, and governance issues (ESG)
- Investor expectations
- Market differentiation
- Tenant demand
- Regulatory oversight
- Market transparency
- Cost reductions and value creation



THE INVESTMENT OPPORTUNITY



Increased Value



Risk Mitigation



Competitive Parity



Tenant Attraction & Retention



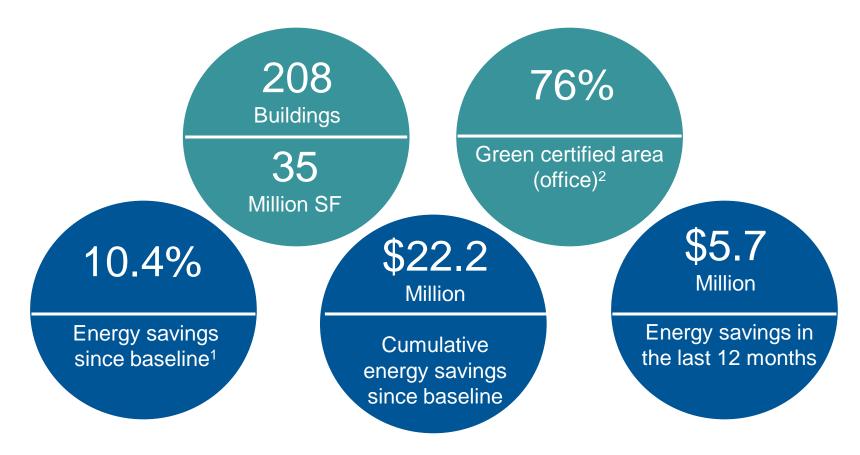
Cost Reductions



Community Appeal



PORTFOLIO ACCOMPLISHMENTS



As of 31 December 2015. This summary is being presented for illustrative purposes only. Additional information regarding the assumptions, calculations and estimates used with respect to this summary is available upon request. The portfolio described on this page (this "Portfolio") represents 208 office, retail and multifamily investments that are categorized within Principal Real Estate Investor's "responsible property investing" initiatives. Such investments were made on behalf of discretionary and non-discretionary clients, both directly and through joint venture relationships. The investments included in this Portfolio are not comprehensive and do not include all investments made by Principal or all investments within Principal Real Estate Investor's "responsible property investing" initiatives. In particular, this Portfolio excludes industrial and land investments and excludes certain office, retail and multifamily investments. "Baselines represent the start date for the estimated energy savings calculations described on this page. For office properties, such baselines are individually set and generally date back to 2009 (irrespective of potentially earlier acquisition date); for retail and multifamily properties, such baselines are individually set and generally date back to 2012 (irrespective of potentially earlier acquisition date). The energy savings performance figures are being provided for illustrative purposes. Such figures are estimates with respect to the Portfolio and have been calculated in good faith and are based on original sources and data, as applicable, including information derived from sources other than Principal or its affiliates that is believed to be reliable; however, Principal does not independently verify or guarantee the accuracy or validity of such information. Certain information related to specific properties may have not been obtained in preparing such calculations, and no representations are made as to the completeness of the data. ²For purposes of this page, "Green Certif



MARKET RECOGNITION AND SUCCESS

- Awarded the U.S. Environmental Protection Agency's ENERGY STAR Partner of the Year (2016).¹
- Received Green Star ranking from Global Real Estate Sustainability Benchmark (2014, 2015)²
- Received "A" rating on UN PRI survey (2015)³
- Recognized as Executive Member of EPA's Certification Nation (2014)⁴
- Cited by Commercial Property Executive as being among the greenest real estate companies in the U.S. (2011-2015)⁵
- The Principal® named to the CDP Climate Performance Leadership Index and Climate Disclosure Index (2014, 2015)⁶













¹March 28, 2016, The U.S. Environmental Protection Agency (EPA) annually honors organizations that have made outstanding contributions to protecting the environment through energy efficiency. ²Sustainability Benchmark (GRESB) survey. (2015 Global Real Estate Sustainability Benchmark (GRESB) survey, GRESB Foundation, data as of 31 December 2014 ³Performance band score of "A" by earning 47 out of 51 points in the UN PRI 2015 Assessment release July 2015 *For further details, please refer to the PRI Assessment Methodology, Principal Global Investors full Assessment Report and Transparency Report, all of which is available upon request. ⁴Based on data in the ENERGY STAR certified building registry www.energystar.gov. As of 31 December 2014. ⁵Commercial Property Executive" rankings - Ranked #4 (published April 2015), Ranked #3 (published March 2014) and #2 (published April 2012 and April 2013) ⁶The Principal®, a global investment management leader, is one of just 27 S&P 500 companies to be named to both the 2015 CDP Climate Performance Leadership Index and to the 2015 Climate Disclosure Index. The indices highlight S&P 500 companies committed to improving their impact on the environment. (CDP S&P 500 Climate Change Report 2015, November 2015) Principal Global Investors is the institutional asset management arm of the Principal Financial Group® (The Principal®).



PRINCIPAL GREEN PROPERTY FUND I

- 7 year closed-end, commingled fund* launched in 2009
- Institutional investors including public and private pension funds – equity commitments of \$329.4 M
- Multifamily, office, industrial, mixed-use deal size \$15-220 M
- Ground-up development & acquisition of valueadd properties throughout U.S. to achieve LEED certification
- Performance surpassed projected IRR



Campbell Mithun Tower Minneapolis, Minnesota



SUSTAINABILITY PROFILES



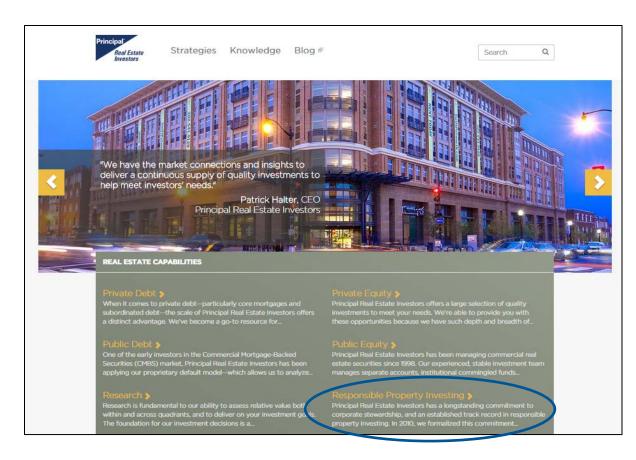
Texas Lighting Campaign



150 Spear Street



ADDITIONAL INFORMATION



For more information and to download our publications please visit the Responsible Property Investing page on PrincipalGlobal.com





Discussion



Thank you!

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Principal Real Estate Investors is committed to operating practices that are environmentally responsible.





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