

GRESB 101 Start early and outperform your peers



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Introduction to GRESB Real Estate | Debt | Infrastructure

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Mission

Serving institutional investors since 2009

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



Market Behavior

Distribution of activity | all economic sectors Regulation Leadership

Sustainability Performance

Real Estate Assets

Economic signaling



Sustainability Performance

Institutional Investors

Assessing companies and private equity funds



Efficient Capital Markets

GRESB Assessments

Powered by a common mission and platform

GRESB Real Estate

 Assesses the ESG performance of property companies, fund managers and developers

GRESB Real Estate Debt

• Assesses ESG performance of real estate lenders

GRESB Infrastructure

• Assesses the ESG performance of infrastructure assets and portfolios



Institutional Investor Members

Integrate ESG data | utilize GRESB analytic tools

Founding Mem



Institutional Investor Members

Integrate ESG data | utilize GRESB analytic tools

New in 2017



Competencies

Understanding and improving ESG performance

1. Systematic assessment

Ocompanies | funds | separate accounts | JVs

1. Objective scoring

OESG performance – environmental | social | governance

1. Peer benchmarking

Odifferentiate market participants

Applications

Data for investor engagement – portfolio risks / opportunities

Institutional Investors

- 1. Positive screening
- 2. Investment management integration
- 3. Portfolio monitoring

Participants – Private Equity Firms / REITs

- 1. Comparative business intelligence
- 2. Internal engagement | gap analysis | improvement pathways

2016 GRESB Participants

Comparative business intelligence | gap analysis | management introspection

Aberdeen Asset Management **AEW Capital Management AEW Europe** Alberta Investment Mgmt **American Realty Advisors AMP** Capital Investors Avison Young Aviva Investors AXA Investment Management **Bentall Kennedy Group** BlackRock Blackstone **BNP Paribas REIM France** Bouwfonds Investment Mgmt **Bouwinvest REIM British Land** Brookfield **Canary Wharf Group Carr Properties CBRE Global Investors** CIM Group **Clarion Partners** Colony Capital, Inc.

CommonWealth Partners Cordea Savills Investments Cornerstone Real Estate CorVal Credit Suisse Crown Estate **Deutsche Asset Management DEXUS Property Group DivcoWest** DTZ Investors Ltd **Europa Capital LLP Exeter Property Group Federal Capital Partners Fidelity International Fortius Funds Management** Frasers Property Australia Goodman Group **Grainger Asset Management** Greystar **Grosvenor Fund Management GTIS Partners GWL Realty Advisors** Harrison Street

Heitman Hermes Real Estate Internos Global Investors Invesco Real Estate Investa Ivanhoe Cambridge J.P. Morgan Asset Management **Jamestown Properties** Jonathan Rose Companies KingSett Capital LaSalle Investment Management Legal and General Property Lendlease MacFarlane Partners Madison Marguette Majid Al Futtaim Properties Manulife / John Hancock MetLife Investment Management Minto Group Moorfield Investment Management Morgan Stanley National Real Estate Advisors LLC NBIM

Nordic Real Estate Partners AB Normandy Real Estate Partners Ontario Teachers' Pension Plan **Oxford Properties Group PGIM Real Estate** Pine Tree **Principal Real Estate Investors** Prologis **Rockefeller Group Royal London RXR Realty** Schroder Real Estate Sentinel **Shorenstein Properties** Standard Life Investments Syntrus Achmea TA Realtv TIAA Henderson Real Estate **Tishman Speyer Trinity Real Estate** Triovest **Tristan Capital Partners**

Nomura

UBS Global Asset Management Universities Superannuation Scheme USAA Real Estate Vasakronan Vesteda Investment B.V. Xander Investment Management

217 private equity firms190 listed companies

ESG Engagement Drivers

Top down | bottom up



GRESB Framework

Real Estate









DATA PARTNERS (API)



Validation

Three layer process for investment grade data



Participant Information Tools

Aggregated business intelligence into market advances



Annual Scorecard

Aspect (Weight in GRESB Score) Management (weight: 9.7%)	score 64	Benchmark Comparison			
		BENCHMARK 70 AVERAGE	0	50	Average
Policy & Disclosure (weight: 8.2%)	54	BENCHMARK 56 AVERAGE	0	Benchmark Average	100
Risks & Opportunities (weight: 15.0%)	38	BENCHMARK 66 AVERAGE	0	Benchmark Ave	arage 100
Monitoring & EMS (weight: 9.7%)	49	BENCHMARK 52 AVERAGE	0	Benchmark Average	100
Performance Indicators (weight: 24.0%)	17	BENCHMARK 35 AVERAGE	•	Benchmark Average	100
Building Certification & Benchmarking (weight: 10.5%)	30	BENCHMARK 26 AVERAGE	Bend	hmark Average	100
Stakeholder Engagement (weight: 22.8%)	33	BENCHMARK 52 AVERAGE	0	Benchmark Average	100

Benchmark Report



Portfolio Analysis

Free to all participants

GRESB Member benefit

GRESB Members only

available ala carte

Example: GRESB Real Estate

2017 Timeline

Predictable annual cycle

April 1, 2017 **GRESB** assessment opens Deadline for **Response Check request** until June 15 **GRESB** assessment closes June 30 [end of 2Q17] Data validation + analysis July + August Release Scorecards | Benchmark Reports September Assessment review + revisions **November + December January 2018 GRESB IT preparation** April 1 2018 assessment opens



GRESB Results

Real Estate

GRESB Participation

Participants year-on-year



Global Scope

2016 industry coverage

759 Entities | 63 Countries | 66,000 Assets

Geographic Distribution







North America Participation Rate

United States and Canada :: 2013 to current



AEW Capital Management Alberta Investment Mgmt American Realty Advisors **AMP** Capital Investors Avison Young Bentall Kennedy Group BlackRock Blackstone Brookfield **Carr Properties CBRE** Global Investors **CIM** Group **Clarion Partners** Colony Capital, Inc. CommonWealth Partners Cornerstone Real Estate DivcoWest Exeter Property Group Federal Capital Partners Federal Realty Trust Greystar **GTIS** Partners **GWL** Realty Advisors Harrison Street

Heitman Invesco Real Estate Investa Ivanhoe Cambridge J.P. Morgan Asset Management **Jamestown Properties** Jonathan Rose Companies **KingSett Capital** LaSalle Investment Management MacFarlane Partners Madison Marquette Manulife / John Hancock MetLife Investment Management Minto Group Moorfield Investment Management UBS Global Asset Management Morgan Stanley National Real Estate Advisors LLC Normandy Real Estate Partners **Ontario Teachers' Pension Plan Oxford Properties Group** PGIM Real Estate

Pine Tree **Principal Real Estate Investors** Prologis Rockefeller Group RXR Realty Savanna Funds Sentinel Real Estate **Shorenstein Properties** Standard Life Investments TA Realty TIAA | Henderson Real Estate **Time Equities Tishman Speyer** Triovest **USAA Real Estate**

2016 Results

Scoring and benchmarking ESG performance





Performance Trends

GRESB cohort analysis



Participants per cohort

GRESB Assessment

Private equity funds | separate accounts | private + public REITs | JVs & club deals



GRESB Infrastructure GRESB Debt

GRESB Infrastructure

Private equity funds | governments | SPE's







Conventional energy



Social infrastructure



Airports



Ports



Toll roads



GRESB Real Estate Debt

Private equity debt funds | primary lenders





GRESB Model



GRESB Green Bond Guidelines

Industry-specific sector guidance



- Developed as real estate sector guidance to compliment the Green Bond Principles
- Provides framework for the full spectrum of real estate issuers and investors
- Drawn from GRESB Green Bond Working Group recommendations
 - Property bond originators
 - Underwriters and placement firms
 - Green bond investors

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Real Estate Sector Applicability

Alignment with Green Bond Principles



Used across multiple bond types

- Green Use of Proceeds Bond
- Green Use of Proceeds Revenue Bond
- Green Project Bond
- Green Securitized Bond

Spans the full range of construction and real estate investment activities

Questions?



GRESB

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GRESB 101 Start Early and Outperform Your Peers

Goby's DNA





Based in the cloud, grounded in performance







Centralize Your data in one single platform Leverage Data with reports that provide actionable insights Drive profitability Improve your bottom line





Opportunities revealed. Performance optimized.



+750 M Sqf Managed from the cloud



21,000

Utility bills processed monthly. Average savings per building per year: \$400 errors, \$450 late fees







+20% NOI Savings start within weeks of onboarding



-24%

Percentage of energy reduction by SeaSuite community since 2010

28,600

Hours of property management teams saved per year





Green Talk

Green Starters

Green Walk



2016 Goby Results



+35%







2016 Goby Results



Leading Office Fund Green Star Sector leader - Office increased score by 27%



Pine Tree Green Star Sector Leader -Retail First time submittal



Leading Office Fund Green Star 2015 19 KPI 2016 40 KPI



Mixed use Fund Green Star 2015 6 KPI 2016 37



FRIT Green Star **97% increase** 73 points of 100







Starting Early is a Game Changer





New to GRESB: Benefits

- Benchmark yourself against peer groups
- Collect property level data, such as energy, water, and waste over a 2 year period
- Take a deeper look into internal policies
- Identify risks and opportunities to improve performance



New to GRESB: Plan of Action

- GRESB kick-off
- Introduce GRESB to properties + Onboard within platform
- Gather 24 months of energy, water and waste data from each property
- Review GRESB survey questions with executive team
- Collect documentation of organizational policies and asset-level plans, projects, improvements
- Review Results
- Set goals for next year



New to GRESB: Goby Best Practices

- Notify properties of GRESB and what's to come
- Gather internal policies
- Organize portfolio details
- Transparency to stakeholders
- Implement technical building assessments



Veteran Players: Benefits

- Refine internal policies
- Discover goals/areas for improvement
- Improve transparency
- Improve data collection



Veteran Players: Plan of Action

- GRESB kick-off
- Onboard new properties
- Gather 12 months of data
- Collect any new documentation
- Review GRESB survey questions with executive team
- Submit + review results
- Set goals for next year



Veteran Players: Goby Best Practices

- Increase data collection methods & monitor performance
- Monitor efficiency projects within the portfolio
 - with intent to submit for Leader in the Light
- Pursue low-hanging fruit items



Empowering sustainability. Powering profitability.

- KPI Data
- Continuity
- Consulting
- All on one platform



Can I do this Alone?



Turning big data into big opportunities







