

EWRB:

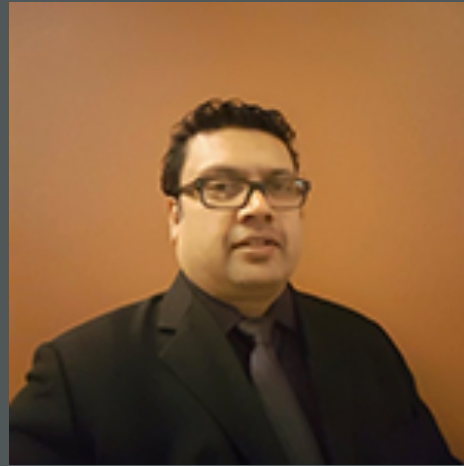
Beyond Mandatory Benchmarking



Our presenters:



Robert Smith
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BOMA Toronto



Neil Pegram
GRESB



Helee Lev
Goby





March 21, 2018

Ontario Energy and Water Reporting & Benchmarking (O.Reg 20/17) Overview

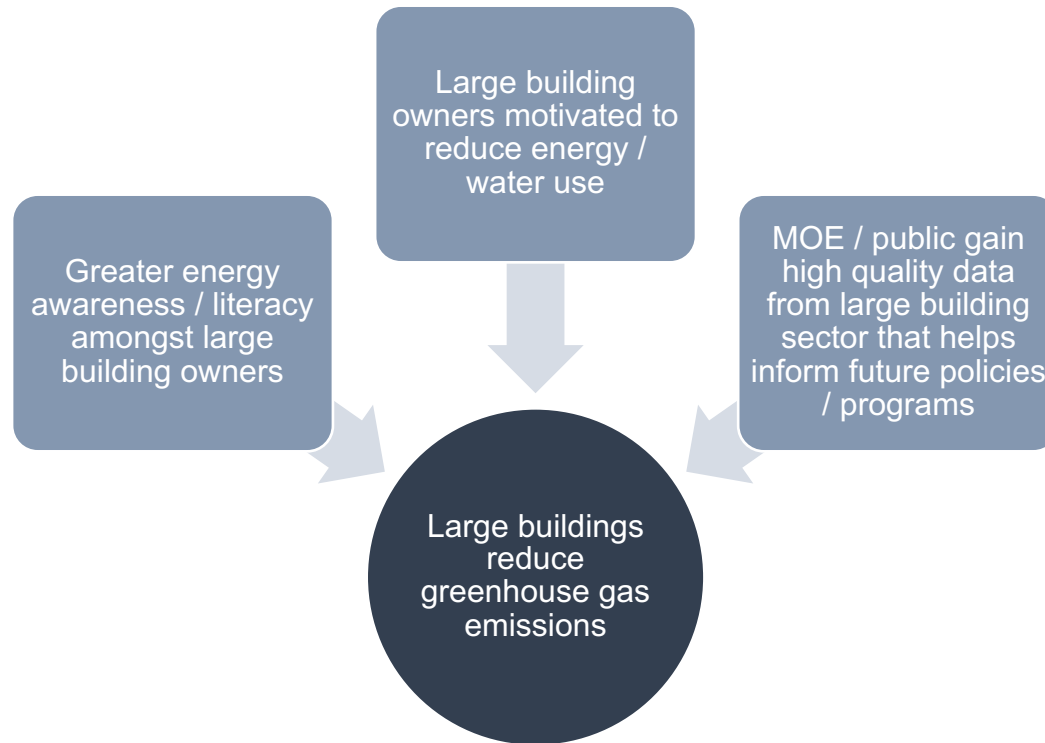
EWRB Overview

- On February 6, 2017, Ontario introduced mandatory energy and water reporting and benchmarking for large buildings (EWRB).
- Under the regulation, building owners of commercial, industrial, multi-unit residential and other building types that are 50,000 square feet or larger are required to report their building's energy and water consumption, and greenhouse gas emission data annually to the Ministry of Energy.
- Some of this data will be publicly available as outlined in O. Reg. 20/17.
- Supports Conservation First Framework under the 2013 Long-Term Energy Plan, and the broader 2016 Climate Change Action Plan.



Source: GreenPSF

Goals



Number of Buildings, Training and Education, Reporting Schedule

- Approximately 18,000 buildings across 12,000 unique owners
- Reporting will be phased-in over three years
- Most building owners captured under the regulation are not currently tracking and benchmarking their buildings' energy and water use and greenhouse gas emission data
- Special training and education materials and individual assistance services will be available to building owners

Reporting Schedule:

Phased Mandatory Reporting Deadlines	Who Needs to Report		Total Buildings
	Commercial and Industrial	Multi-Unit Residential	
Year 1: July 1, 2018 (information for the 2017 calendar year)	250,000 square feet and larger	Not required to report in 2018	~1,013 Buildings (~1,013 total)
Year 2: July 1, 2019 (information for the 2018 calendar year)	100,000 square feet and larger	100,000 square feet and larger	~7,226 Buildings (~8,239 total)
Year 3: July 1, 2020 (information for the 2019 calendar year)	50,000 square feet and larger	50,000 square feet and larger	~9,536 Buildings (~17,775 total)

On-line Contact Information Update

Fields marked with an asterisk (*) are mandatory.

Section 1 : Property Owner Contact Details

Ontario EWRB ID *		MPAC Assessment Roll Number *
Property Owner Contact Information		
Last Name *		First Name *
Telephone Number *	Email Address *	
Organization Mailing Address		
Address (Street Number, Street Name, Unit No. PO Box) *		
City/Town *		Province *
Postal Code *	Country *	

Section 2: Acknowledgement and Submission

By selecting the “Submit Contact Update Form” button, you acknowledge that all information submitted in this contact update form is accurate and complete to the best of your knowledge.

[Save Form](#)
[Submit Contact Update Form](#)
[Print Form](#)
[Clear Form](#)

Important Links and Contacts

Regulation: [O. Reg. 20/17: Reporting of Energy Consumption and Water Use](#)

Guidelines: [Information on the Energy and Water Reporting and Benchmarking \(EWRB\) initiative and the regulation](#)

Training: [How to use Portfolio Manager](#)

Forms:

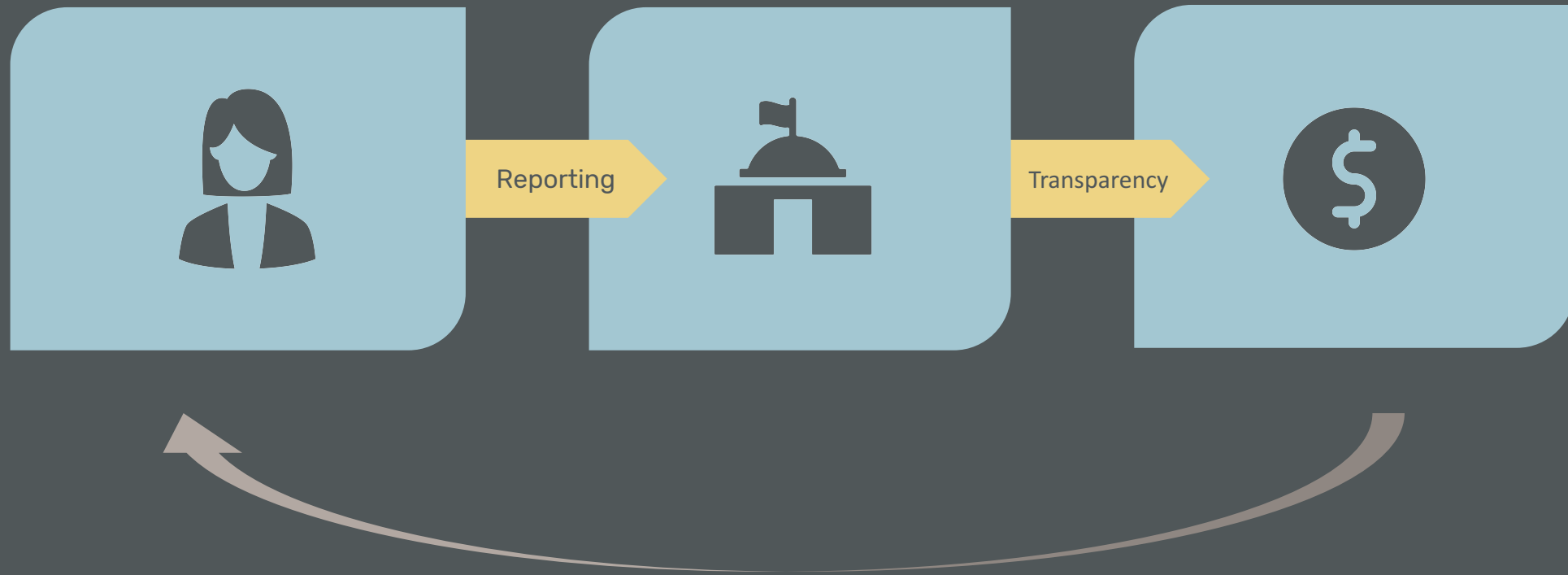
- [Exemption Notice](#)
- [Property Owner Contact Update](#)

For any questions, please call us at **1.844.274.0689** or send an email to EWRBSupport@ontario.ca.

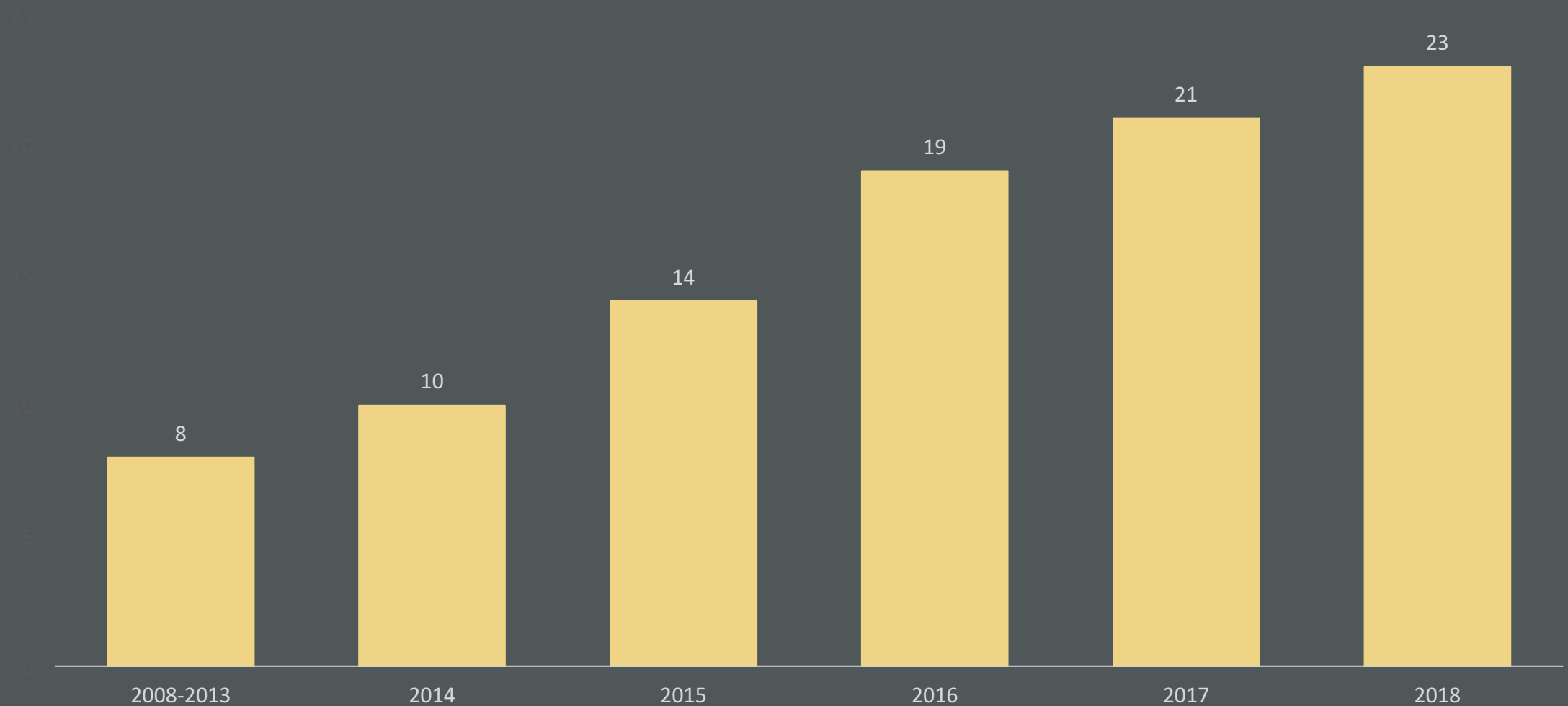
What is Benchmarking?



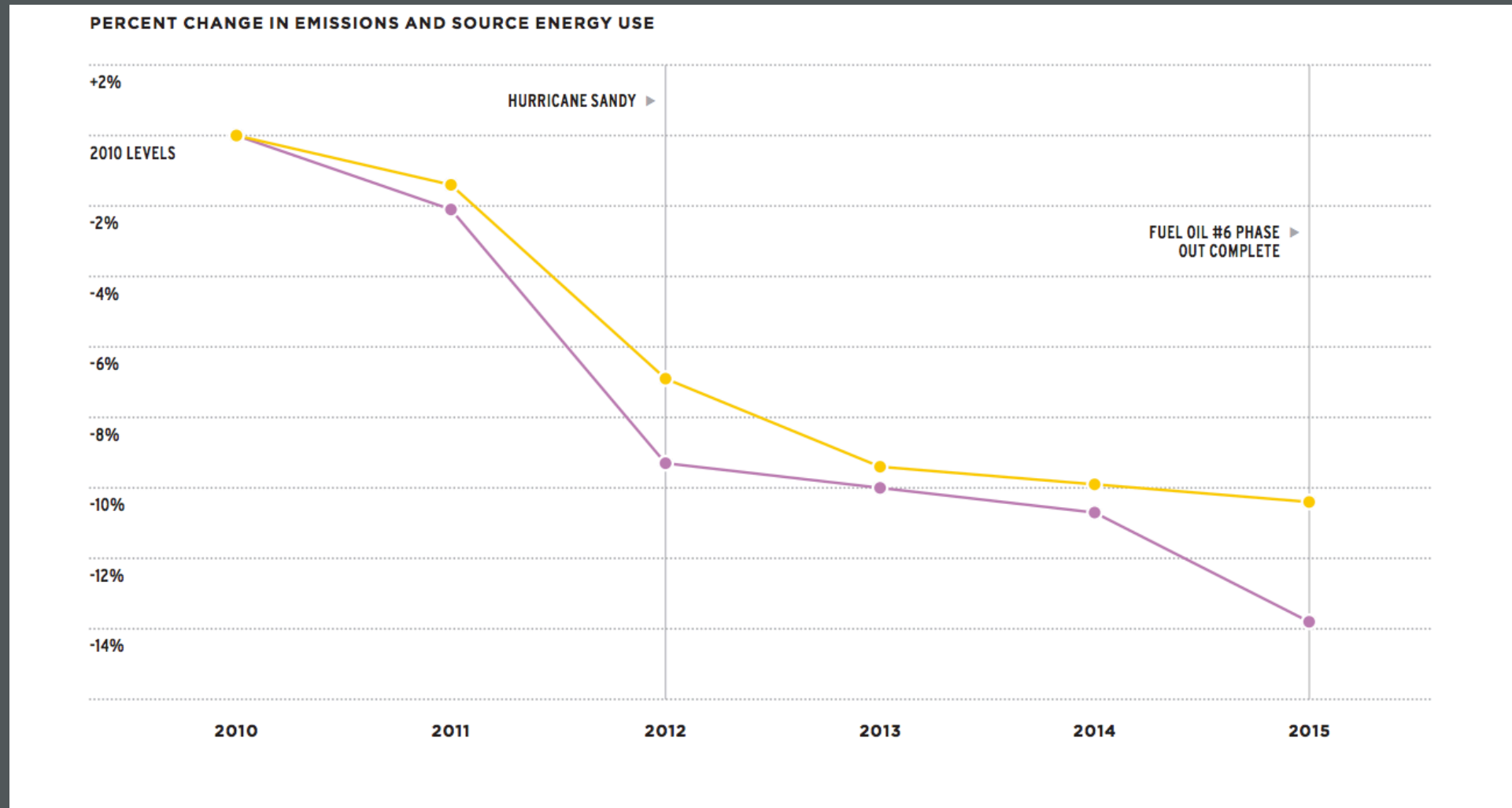
The Ecosystem



A Growing Trend



The Impact NYC Results



Data Benchmarking and Submission



12
months of data



Basic
building info

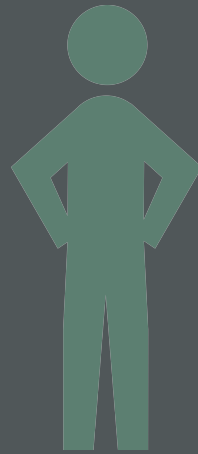


Local
requirements

Your Pathways to Compliance



DIY



Appoint a team
member



3rd party

Challenges Building-Level

- ✓ Data collection
- ✓ Access to data
- ✓ Data validation
- ✓ Personnel

Challenges Portfolio-Level

- ✓ Data collection
- ✓ Access to data
- ✓ Data validation
- ✓ Personnel

- ✓ Specific requirements vary by city & building type
- ✓ Deadlines change
- ✓ Some cities require a PE
- ✓ Different asset classes
- ✓ Portfolio visibility

How can Goby **help?**



Our ENERGY STAR **Expertise**



+500 benchmarking submissions

+800 ENERGY STAR award submissions

in **20** different cities or regions

Beyond Benchmarking Best Practices



Identify
opportunities

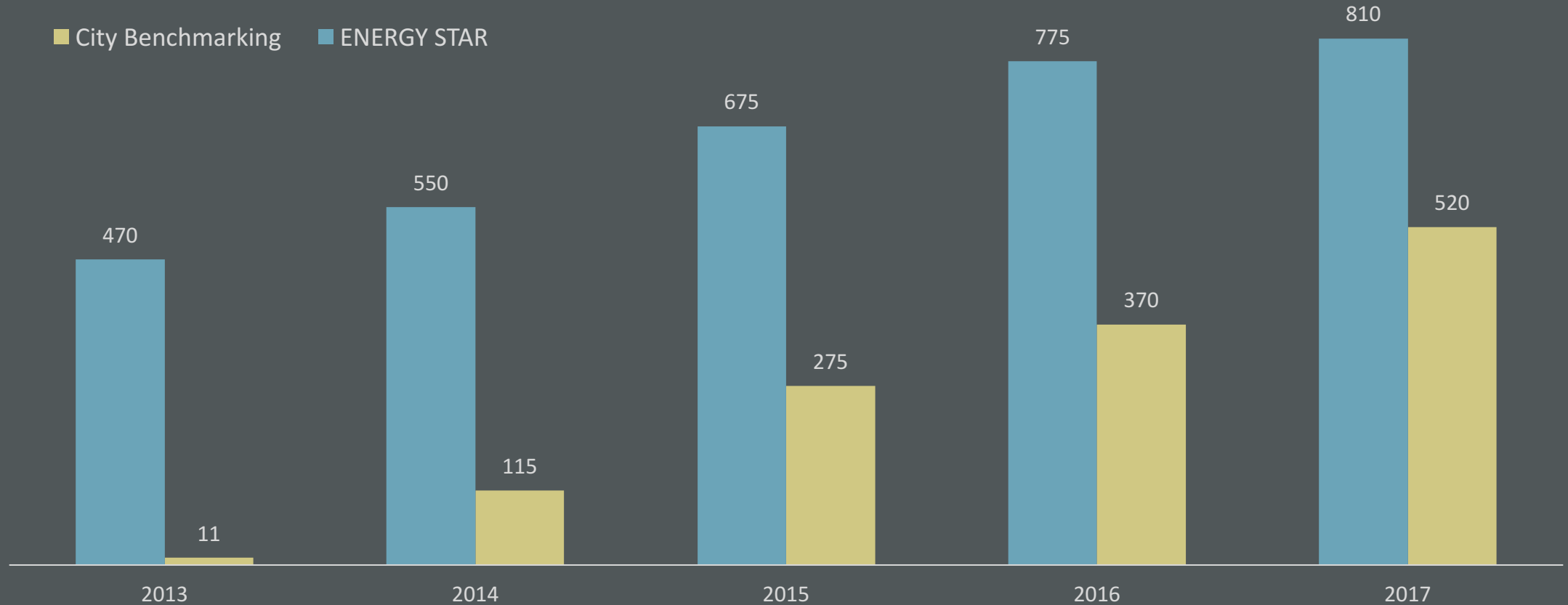


Measure
efficiency



Increase
asset value

City Benchmarking & ENERGY STAR Awards



Case Study Marc Realty



"Goby saves our property management teams hours of manual work."

Our executives have full transparency into our performance and are able to identify new opportunities for energy efficiencies and cost reductions.

The energy strategy developed with Goby will save our portfolio over \$1 million in utility expenses"

- Jim Sadowski, Director of Operations
Marc Realty

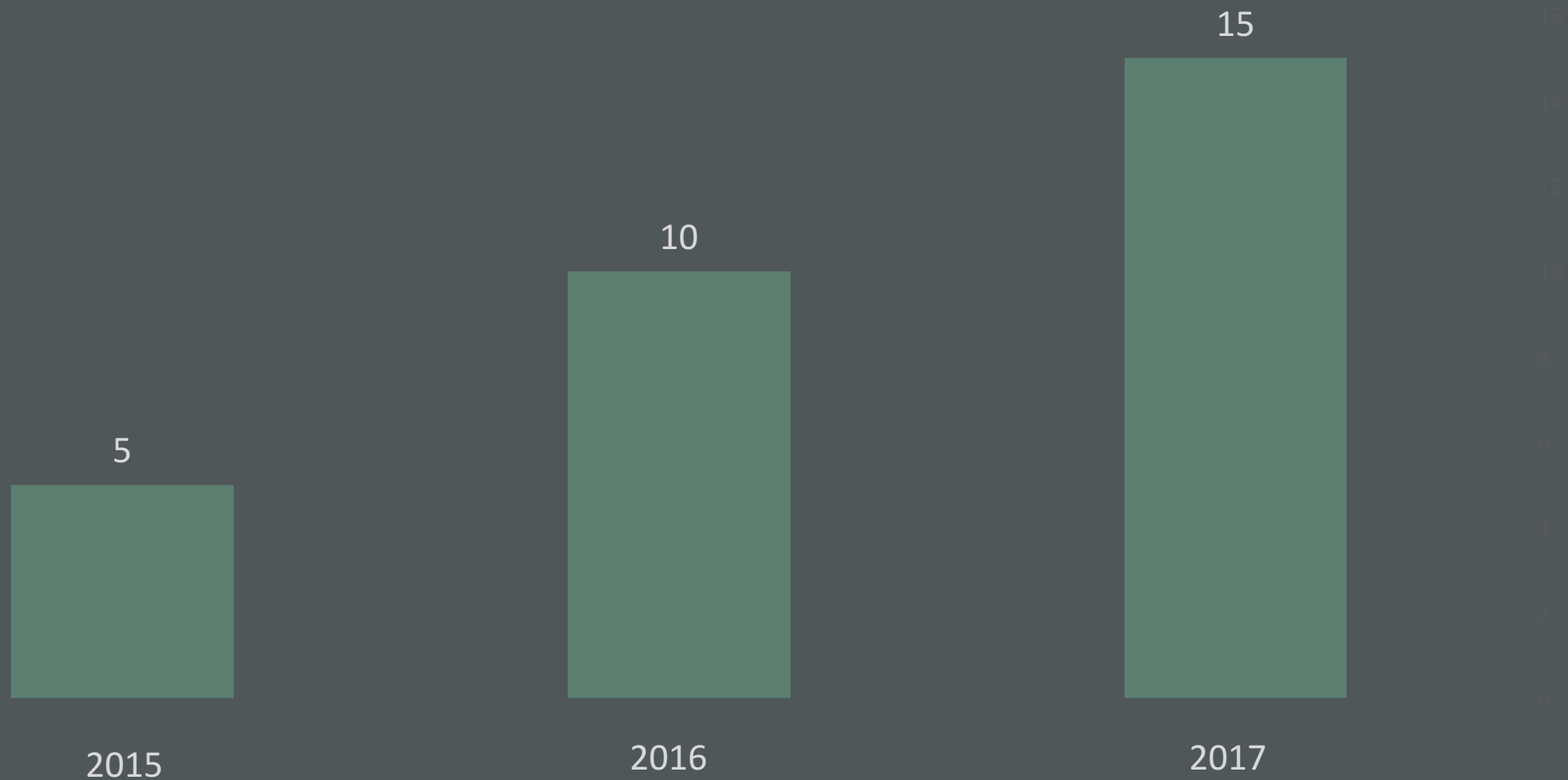
Before Goby

- No tool to accurately measure and capture the savings and results of energy efficiency projects

The Goby **Solution**

- Identify and prioritize opportunities for energy savings
- Earn building recognition
- Full transparency into building and portfolio performance
- Hours of manual work – saved
- City benchmarking compliance streamlined

Marc Realty ENERGY STAR Awards

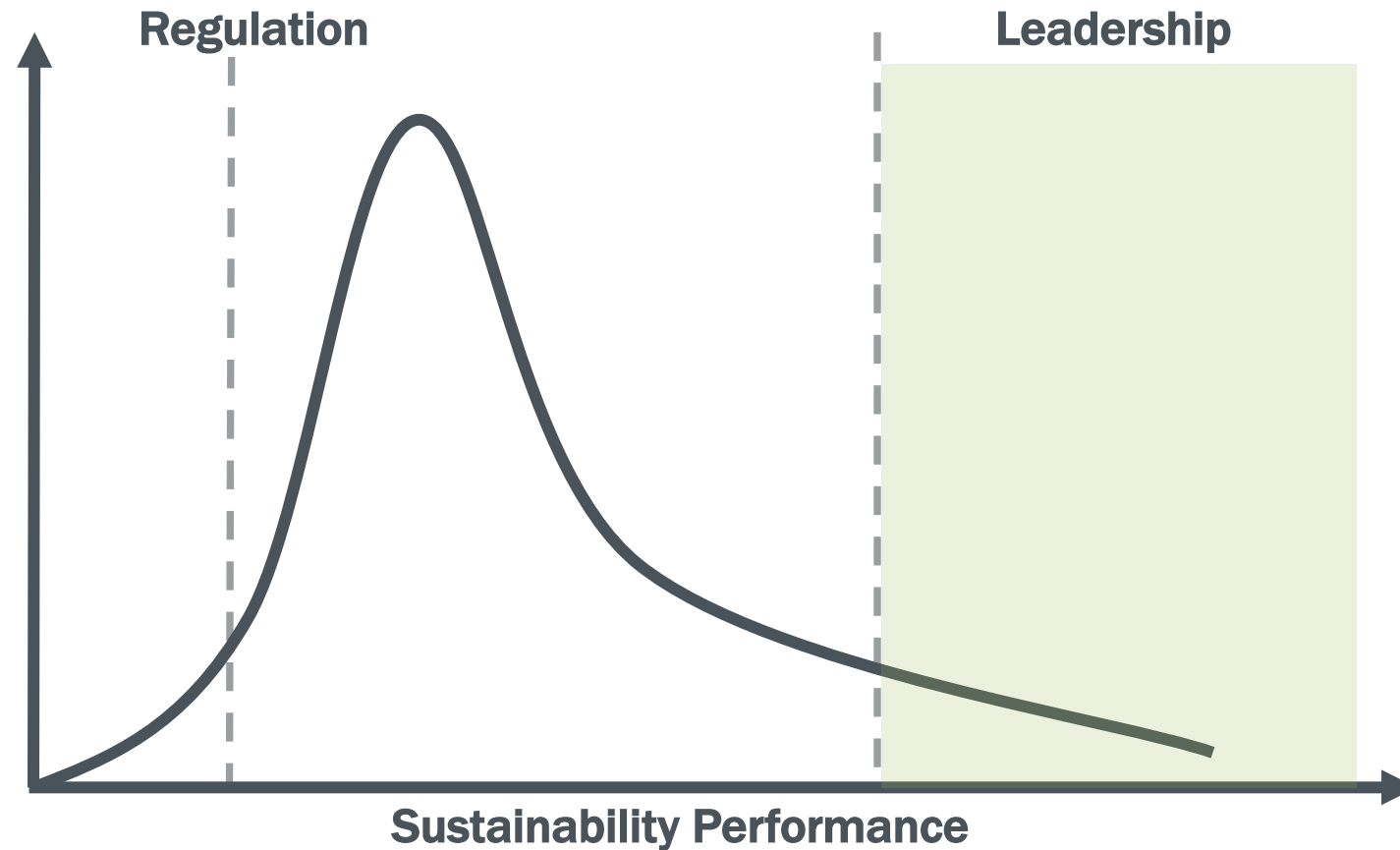




Enhance and protect shareholder value by assessing and empowering sustainability practices in the **real asset sector**

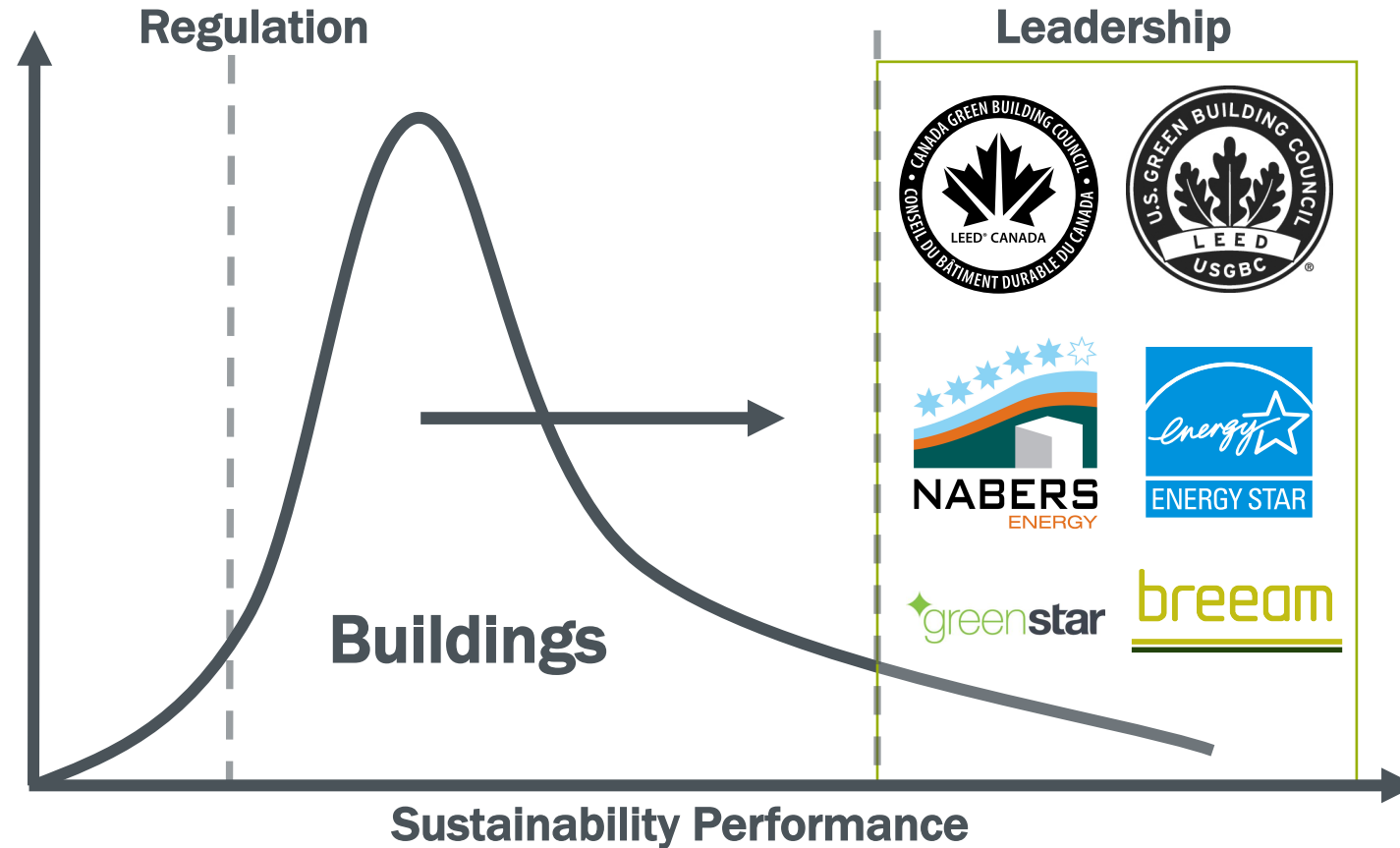
Market Behavior

Distribution of activity | All economic sectors



Real Estate Market

Economic signaling



GRESB Real Estate Assessment

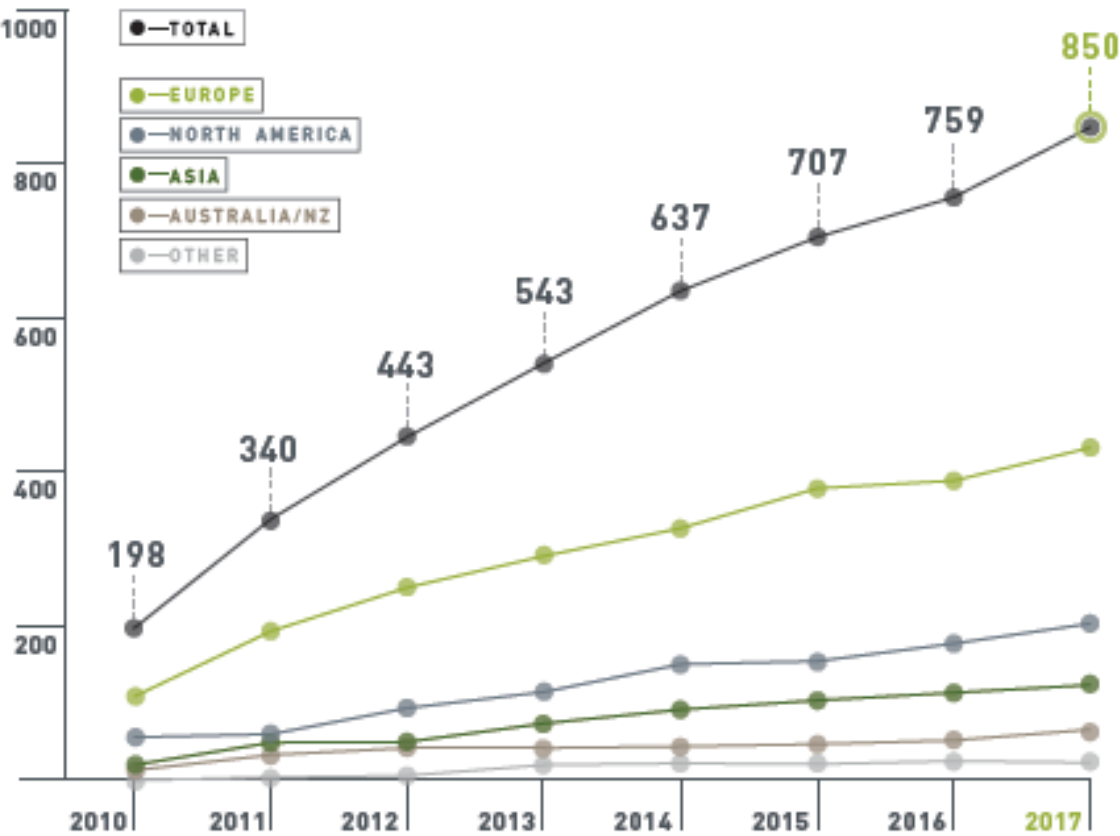
Private equity funds | Separate accounts | Private + Public REITs | JVs & Club deals



GRESB Real Estate

RESPONSE RATE DEVELOPMENT

► Real Estate, Real Estate Developer



G R E S B
★ ★ ★ ★ ★ 2017

199 entities are publicly traded, the remainder are private equity funds and accounts.

ENTITIES
850



The 2017 GRESB Real Estate Assessment covers 77,000 assets across 62 countries on 6 continents.

COUNTRIES
62



The total gross asset value (GAV) of companies and funds reporting to GRESB Real Estate in 2017.

TRILLION
\$3.7



Precise energy data coverage



57%

EUROPE

Intensities/Property type
(KWh/m³)



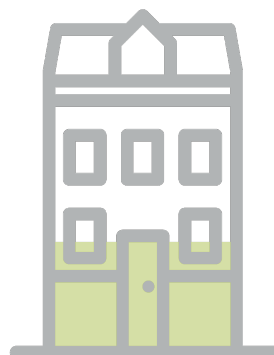
80

INDUSTRIAL



162

RETAIL



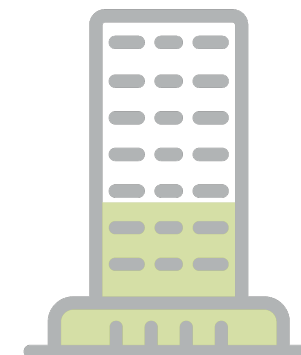
120

RESIDENTIAL



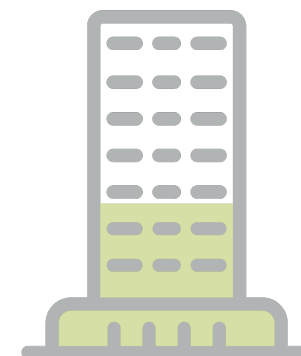
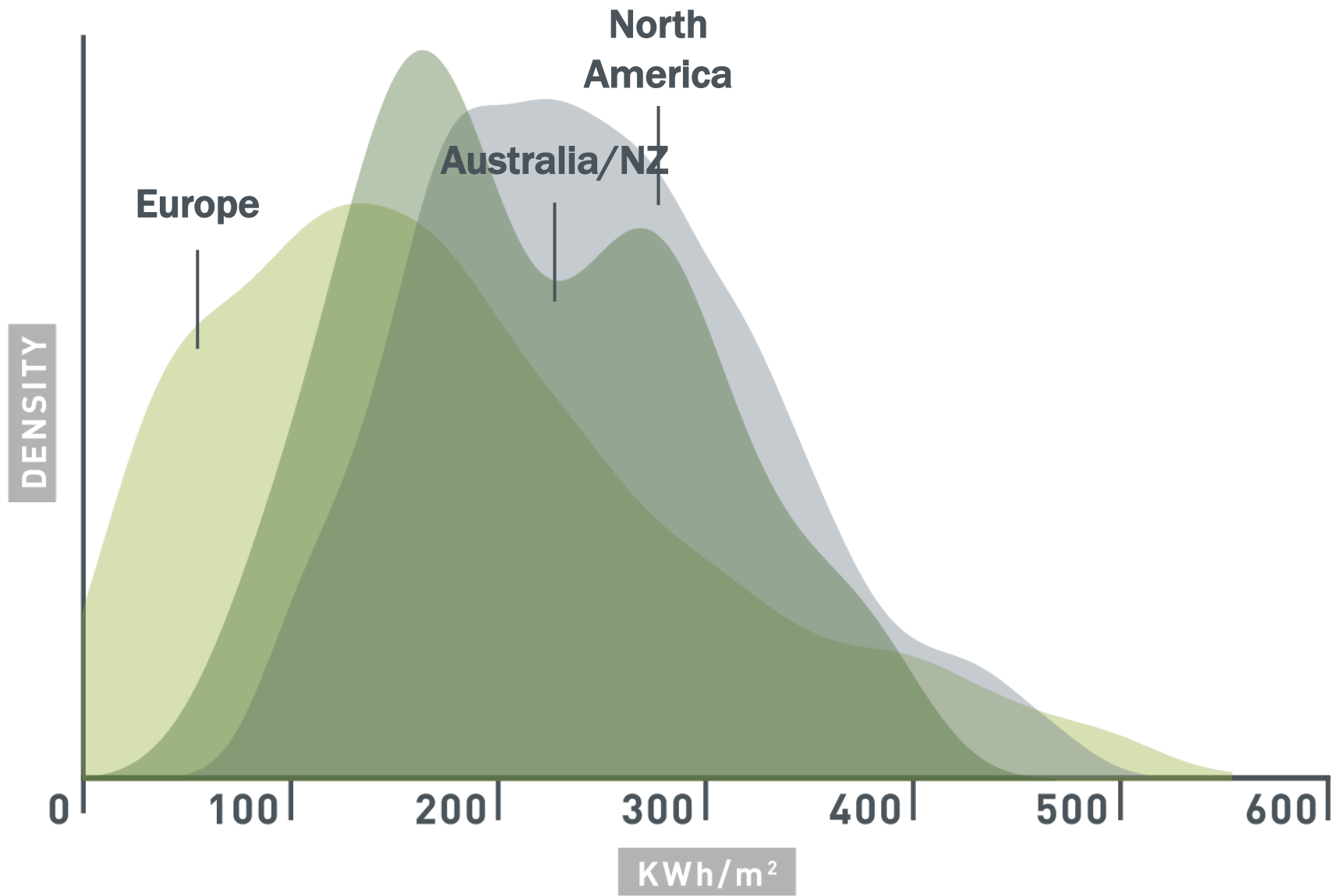
216

HOTEL



166

OFFICE



OFFICE Intensity

GRESB Real Estate Framework

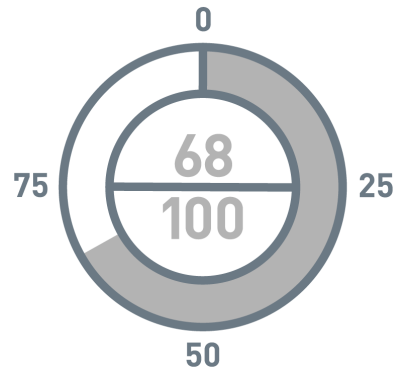
Assessing and benchmarking ESG performance

SYSTEMATIC ASSESSMENT

COMPANIES | FUNDS | SEPARATE ACCOUNTS | JVS



1. VALIDATION



2. OBJECTIVE SCORING



3. PEER BENCHMARKING

GRESB Model

Basis for absolute benchmarking

Addresses two essential dimensions

Management & Policy

Plans, policies, governance,
accountability and data management

28% of GRESB Score

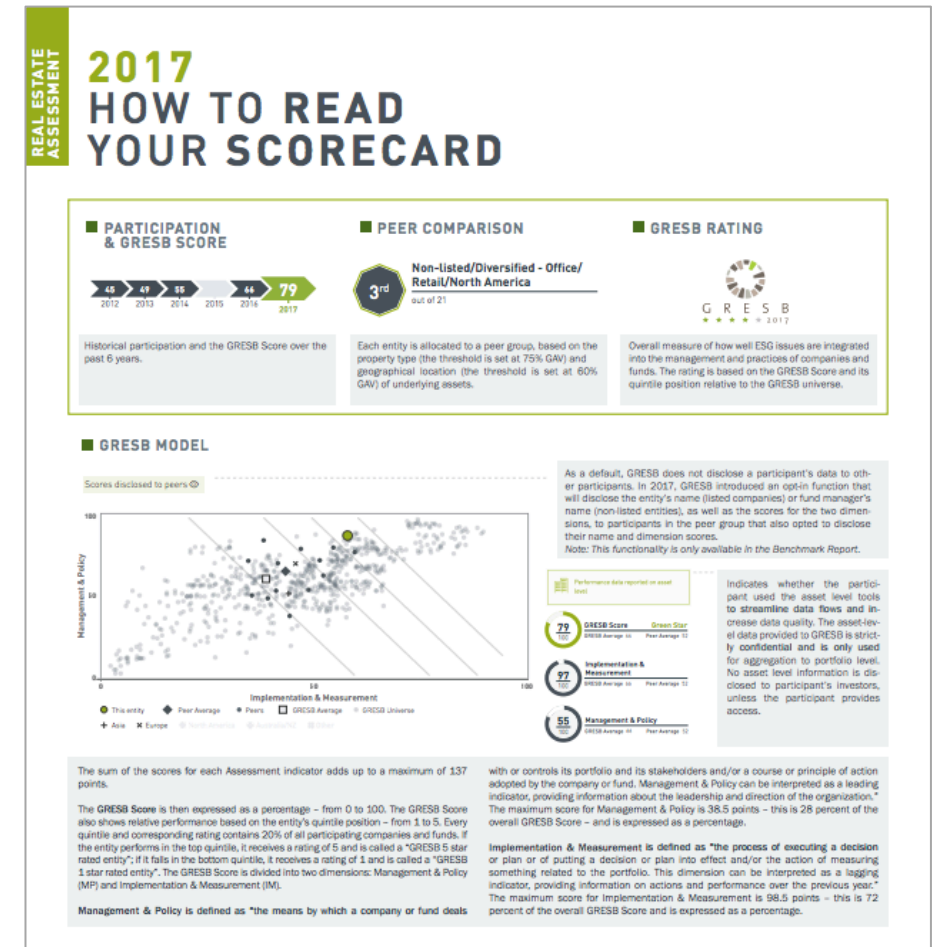
Implementation & Measurement

Actions, monitoring, outcomes
and analysis

72% of GRESB Score

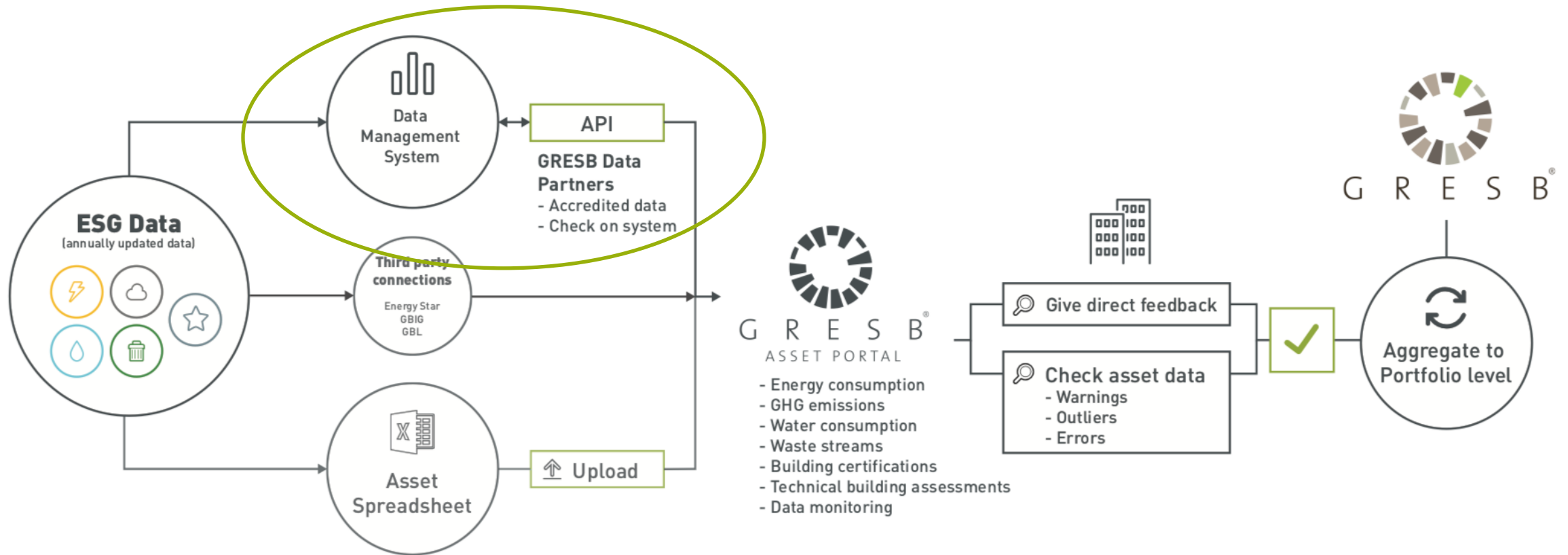
Scorecard and Benchmark Reports

How-to-Read/Demonstration



GRESB Asset Data Flow

Import data through the API or by uploading an Asset spreadsheet



Open Discussion

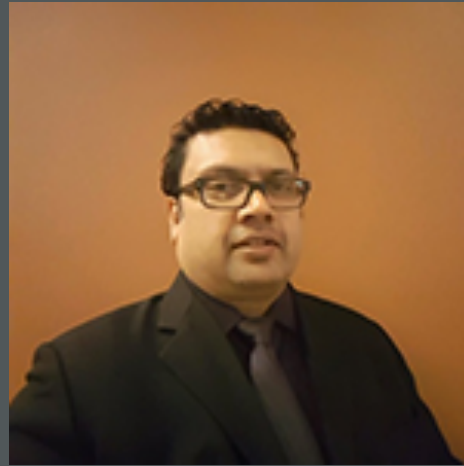


Questions?



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