



2016 GRESB Snapshot

GRESB provides systematic assessment, objective scoring and peer benchmarking of real asset investments around the world. GRESB's unique data on the environmental, social and governance (ESG) performance of property companies and fund managers allows investors to better manage ESG risks and to enhance returns.

759 Entities

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

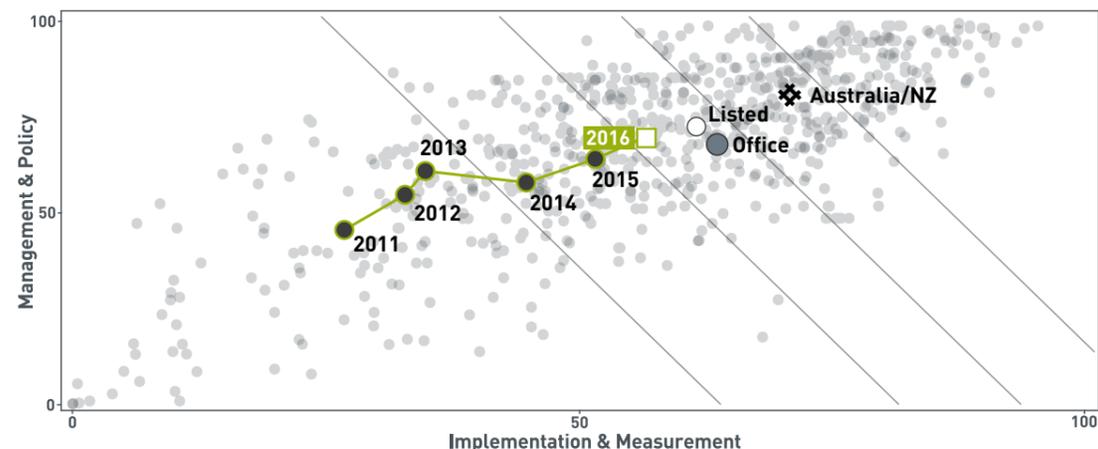
63 Countries

The 2016 GRESB Real Estate Assessment covers 66,000 assets across 63 countries on 6 continents.

\$2.8 trillion

The total gross asset value (GAV) of companies and funds reporting to GRESB Real Estate in 2016.

GRESB Model



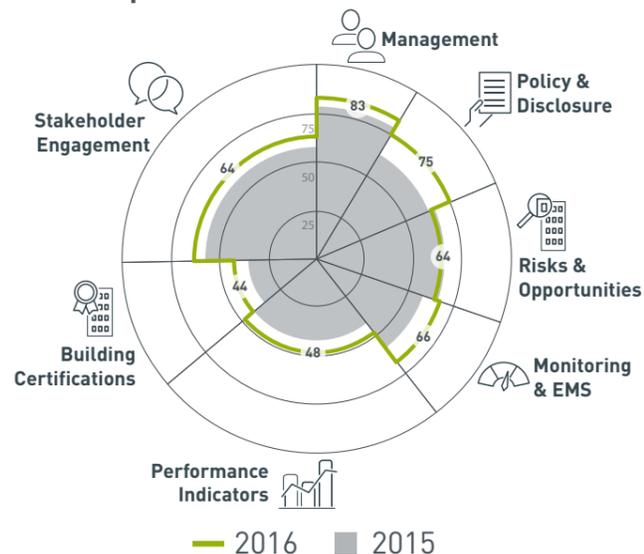
Overall GRESB scores continued to increase. The average GRESB Score increased from 55 to 60.

Australia/NZ entities outperformed all other regions with an average score of 74.

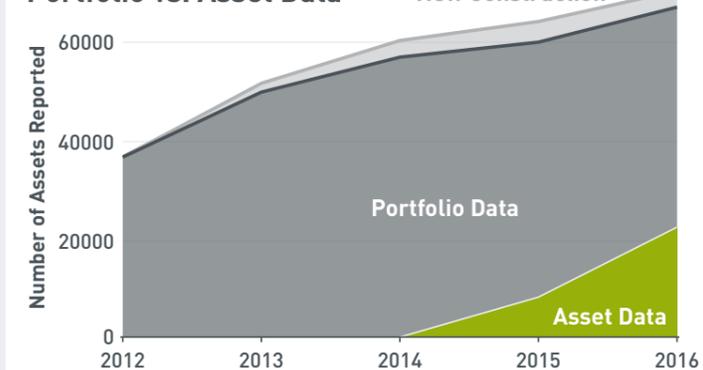
Office companies and funds outperformed other property types with an average score of 66.

Listed property companies outperformed private equity funds by 6 points.

GRESB Aspects



Portfolio vs. Asset Data



In 2016, 227 entities reported data on 22,000 individual assets through automated data connections (APIs) or the GRESB Asset spreadsheet. The remainder of the GRESB data was reported at the portfolio level.

ESG Performance Dynamics

Companies and funds reporting to GRESB significantly improve over time. Entities reporting for 7 years outperform the global average by 12 points.



GRESB Rating

The GRESB Rating is an overall measure of how well ESG issues are integrated into the management and holdings of real estate companies and funds. The rating is calculated relative to the global performance of reporting entities.

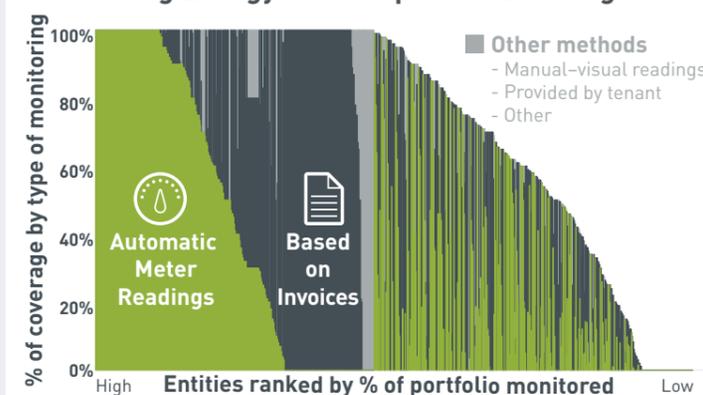


Stakeholder Engagement

The GRESB Real Estate Assessment provides stakeholder engagement indicators addressing employees, tenants, supply chains and communities.

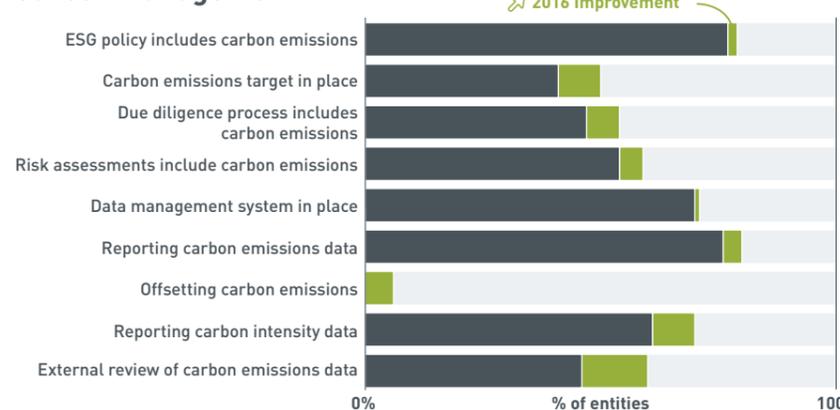


Monitoring Energy Consumption in Buildings

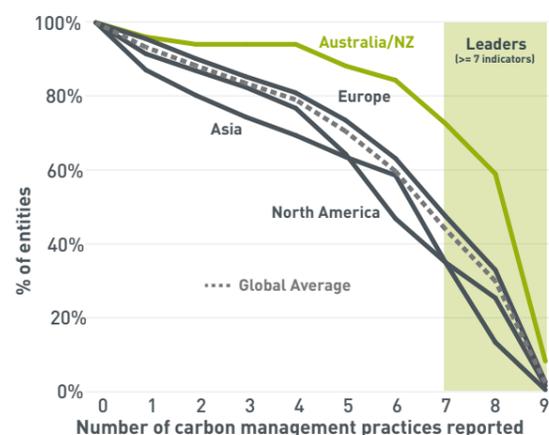


The GRESB Assessment aggregates information about data coverage (i.e., the fraction of a portfolio for which data is available) and data collection strategies (e.g., meters, invoices, etc.). GRESB participants use a mixture of automated meters, invoices and other methods to collect electricity consumption data. Approximately half of GRESB participants have electricity consumption data for their entire portfolio.

Carbon Management



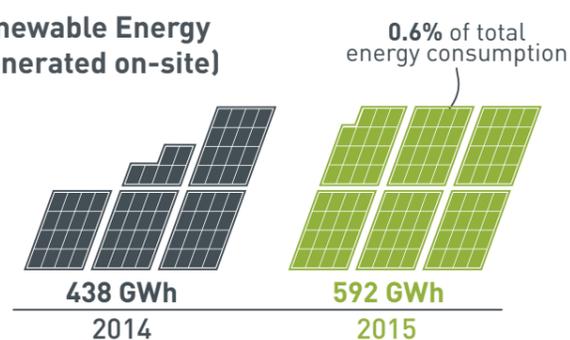
GRESB Carbon Management indicators can be considered individually (left panel) or as a set (right panel).



Key Performance Indicators (Total Footprint)



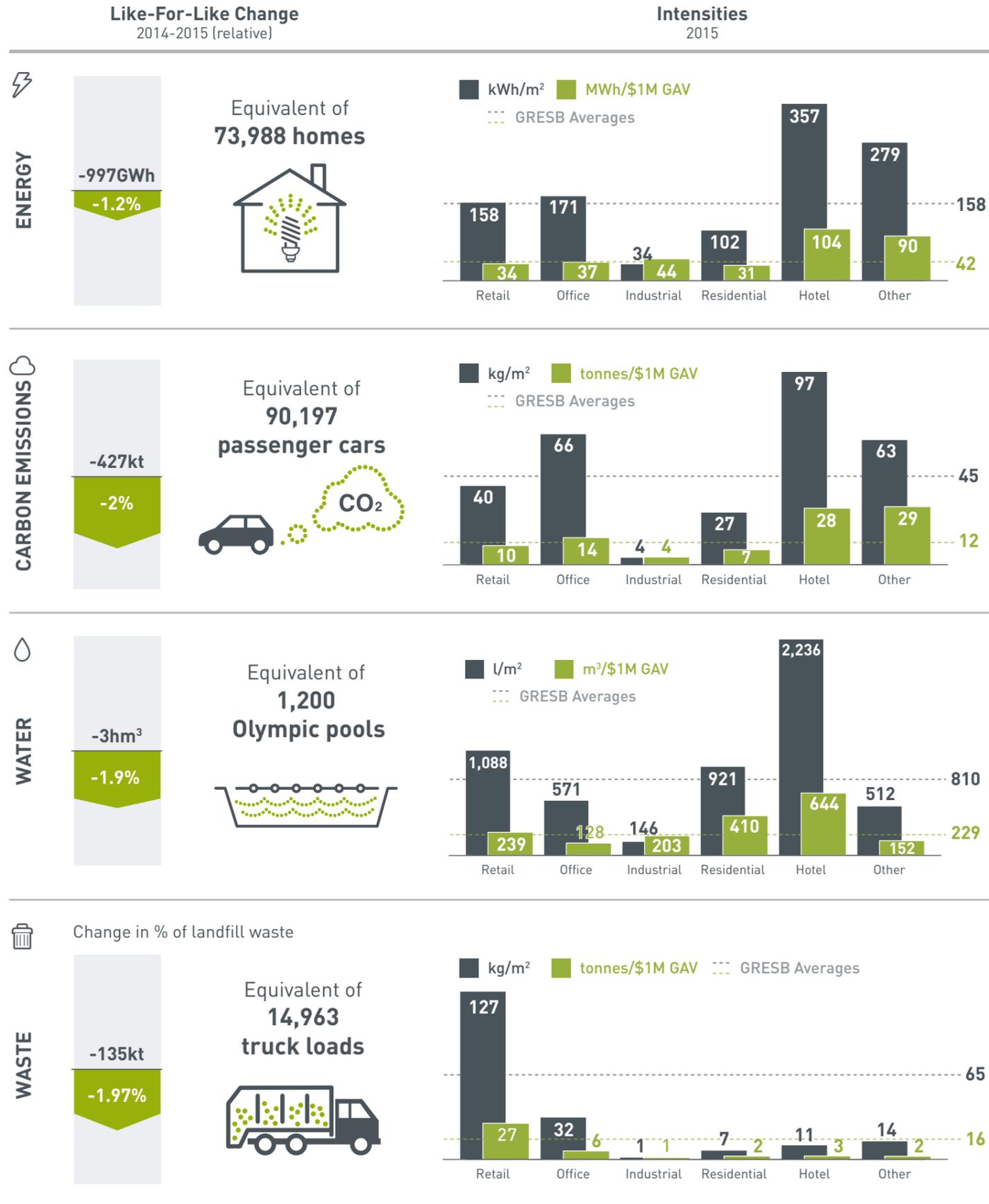
Renewable Energy (generated on-site)



Health & Well-being



Key Performance Indicators



GRESB defines "like-for-like" as the fraction of a portfolio continuously owned by an entity for at least 24 months. Like-for-like measurements represent a relatively stable subset of a portfolio, and they may better reflect management actions to improve performance. GRESB like-for-like metrics do not directly account for variation in weather, occupancy or other factors.

GRESB provides two complementary measures of portfolio-level resource productivity, including environmental impact (energy, GHG, water and waste) per floor area and per dollar of gross asset value (GAV). Resource productivity varies between property types. Lower intensities indicate relatively less environmental impact per unit floor area or per dollar of asset value.

GRESB Investor and Bank Members

Investor and Bank Members: Aberdeen, ABN-AMRO, actiam, AEGON Asset Management, AIMCO, AP FÖRSTA AP-FONDEN, Andra AP-fonden, AP3 Third Swedish National Pension Fund, AP FJÄRDE AP-FONDEN, apg, ARCADIS PENSIOENFONDS, atp=, AustralianSuper, AVIVA INVESTORS, Blue Sky Group, BMO Global Asset Management, BNP PARIBAS, Bouwinvest, CalPERS, cathoLIC super, CBRE CLARION SECURITIES, CBRE GLOBAL INVESTORS, cbus super fund, CenterSquare INVESTMENT MANAGEMENT, COHEN & STEERS, cube INFRASTRUCTURE FUND, DBJ, HOOPP Healthcare of Ontario Pension Plan, HERMES INVESTMENT MANAGEMENT, HESTA An Industry SuperFund, ING, Ivanhoe Cambridge, KAMES CAPITAL, KEMPEN & CO Merchant Bank, LOCAL GOVERNMENT SUPER, MAJID AL FUTTAIM, mirova Responsible Investing, MN, NORGES BANK INVESTMENT MANAGEMENT, AN OMERS WORLDWIDE COMPANY, ONTARIO TEACHERS' PENSION PLAN - RÉGIME DE RETRAITE DES ENSEIGNANTS ET DES ENSEIGNANTES, Pensioenfonds Detailhandel, PensionDanmark, oxford, PGGM, PRESIMA, NN, ROBECO The Investment Engineers, SEB TRYGG LIV, SPP, SWECO, THE CROWN ESTATE, TOWNSEND GROUP, TKP Investments, UBS, USS, VFMCO National Funds Management Corporation, WELLINGTON MANAGEMENT®

\$7.6 trillion
Institutional capital represented by 58 GRESB Investor Members

About GRESB
GRESB is an industry-driven organization committed to assessing the environmental, social and governance (ESG) performance of real assets globally, including real estate portfolios (public, private and direct), real estate debt portfolios and infrastructure. More than 200 members, including 58 pension funds and their fiduciaries, use GRESB data in their investment management and engagement process, with a clear goal to optimize the risk/return profile of their investments. For more information, visit www.gresb.com.