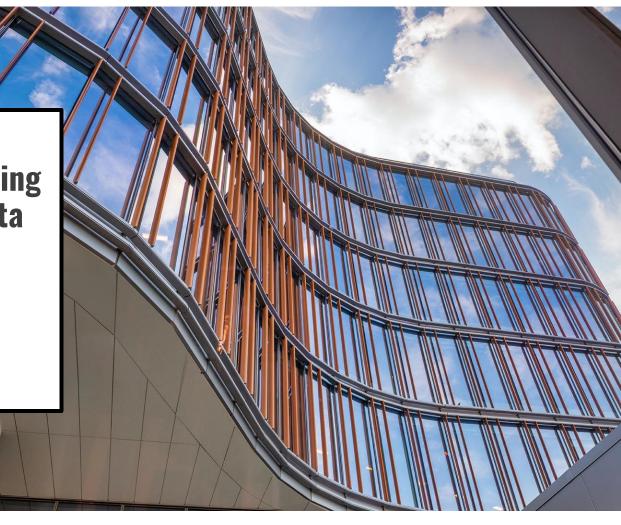


Tenant Data Case Study

Michael Daschle, SVP Sustainability



Commercial office tenants consume approximately 60% of an office building's electricity load.

Considering buildings are responsible for approximately 75% of the nation's electricity use and 40% of total carbon emissions, tenant engagement is a crucial piece of the overall decarbonization strategy.

Brookfield Properties Case Study

Building a better conversation starter



Which tenants should we engage first?

In a large office property with more than 30 tenants, how do we determine the most impactful engagement strategy? Which tenants should we start with and what information should we bring them to inform productive discussions?

Considerations:

- Highest aggregate energy users
- . Highest energy intensity users
- . Most receptive, aligned companies
- Benchmarking data available similar size, industry, office fit-out date, operational profile, etc.

Tenant energy consumption inventory

Space- and time- specific analysis to pinpoint targeted areas of engagement

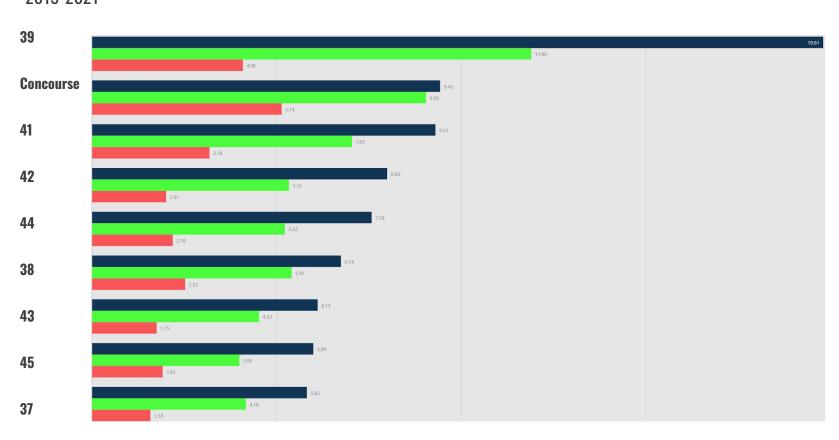
2.3M SF Downtown Manhattan Office Property

2 nd highest intensity user					
Tenant Name*	Rentable SF	RSF % of Total	kWh	kWh % of Total	kWh / RSF
Modern Securities	9,528	0%	380,000	3%	40
Capital Computer Sciences Group	132,092	6%	2,020,000	14%	15
Elevated Capital	7,193	0%	90,000	1%	13
Largest consumers:					
Smith, Johnson & Taylor LLP	366,947	16%	3,170,000	22%	9
Capital Computer Sciences Group	132,092	6%	2,020,000	14%	15
National Association	231,617	10%	1,470,000	10%	6
Empire Insurance 2 nd highest total user	216,177	9%	1,170,000	8%	5

^{*}Tenant names altered for anonymity

9

Tenant Energy Intensity by Load Floor and Year 2019-2021



Data Quality

Madeline Robertson
Director of Sustainability
Greystar

Roles & Responsibilities

Utilities

 Provide whole building data where regulations required

Asset/Property Managers

- Manage the Utility Billing Provider Relationship
- * Educate on site teams

Owners

 Collaborate with partners on goal management

Closing the Sustainability Lexicon Gap

Owner Sustainability Surveys





On Site Community Teams



Nuveen <> Greystar Case Study



Objective: Complete Nuveen's 2023 SSBB Survey (700+ questions and sub questions)



Respondents: Greystar Regional Property Managers and Community Managers



Challenge: Knowledge gap, resulting in incomplete data



Solution: Greystar Sustainability to train and support RPMs & CMs on survey language



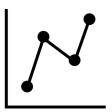
Result: Increased collaboration internally and externally, survey results to follow in March

Sustainability Translation Tactics in 2023



Sustainability Team

- Ongoing questions
- Live trainings
- Resource creation



Data Management

- Active oversight
- Leveraging PowerBI



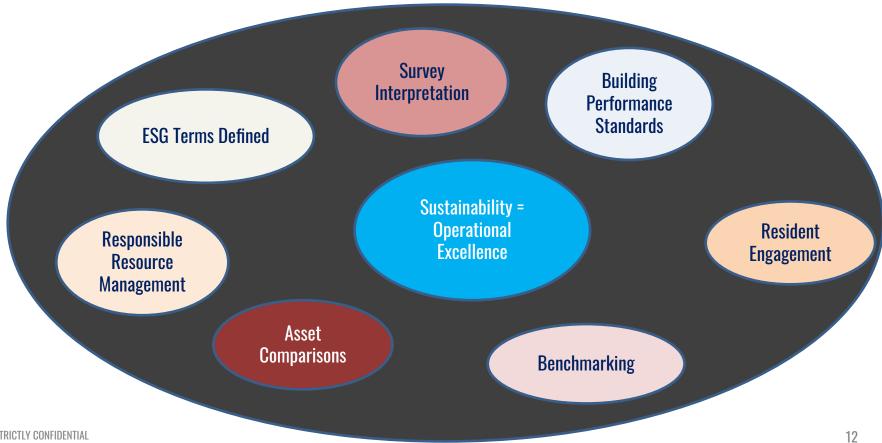
Resource Library

- Toolkits
- Regional resources
- Green Glossary

Internal Education

- Peer to peer
- Hierarchical

Education Focus Areas



Greystar Current Projects

NAA Sustainable Living Addendum Update

Local Utility Capture Forms

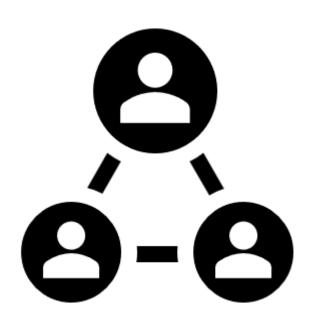
Utility Billing Partners Requesting Whole Building Data

Active ESPM Management

Internal Education

Future State

- Higher quality data
- Enhanced collaboration and goal sharing between owner property manager
- Streamline roles & responsibilities leads to more time for impact
- Empowerment of onsite community teammates
- Knowledge can shine through to residents (over 740,000 units)



Lessons at Greystar

Active ESPM Management

- Sharing profiles
- Manage blind spots

Constant Stakeholder Engagement

- Communicate feasibility and goals
- Consistent touchpoints

Accessible Education

- On site team involvement
- Internal education

ESPM Data Quality

Strategies

- Weekly touchpoints with utility billing managers
 - Internal audits to risk assess if there are communities not covered by UBM's benchmarking services
- Internal or external point person overseeing:
 - Onboarding (escalations)
 - Live data quality
 - Transitions
 - Sharing guidelines (designating PDA where applicable, etc.)
- Benchmarking tracker
 - Ensuring data quality ahead of deadlines (city energy reporting, HUD Green Loan Reporting)
- ESPM audit
 - Check for duplicates/unshared profiles
 - Confirm attributes



Communication Cycle

- Assess baseline (with partners)
- Determine goals
- Communicate goals/assess feasibility with partners

Owner

Manager

- Deploy resources to manage goal
- Communicate goal with teams
- Communicate value to residents

• Engage as needed (LOA, Green leases)

Resident

Sustainability Data Transparency & Real Estate Stakeholder Alignment

Stephanie Grayson Cofounder & Co-CEO Cambio (Previously KKR & Goldman Sachs)





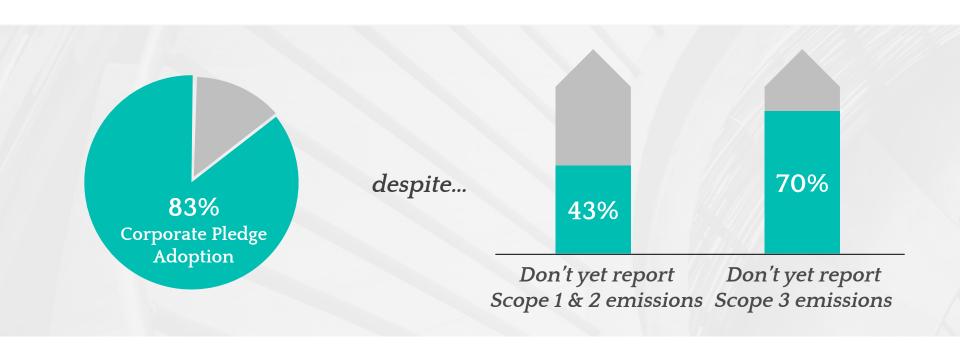






Sustainability has gone from best practice to table stakes, requiring <u>all</u> real estate stakeholders to come to the table

An expected 12,000 companies will be impacted by the SEC's carbon emissions reporting requirements, driving more corporate pledges



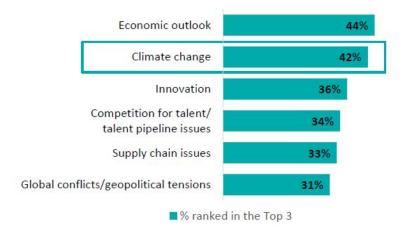
Climate change has risen to the top of the corporate agenda

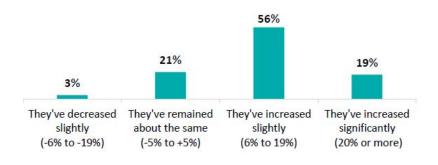


What does your organization see as the most pressing issues to focus on over the next year? (rank in order of importance)



How have your sustainability investments changed over the last year?





75% of executives say their organizations have increased their sustainability investments, nearly 20% of whom say they've increased investments "significantly"

Meanwhile more and more LP investors are requiring ESG prioritization and transparent sustainability reporting



The 'stakeholder pressure cooker' directly impacts asset performance, driving GPs to invest in sustainability



2.5-5% Green buildings achieve a 2.5-5% rent premium



Green buildings see 1-2% lower vacancy



.1-.25% Green buildings achieve 0.1-0.25% lower cap rates



10-20% Green buildings achieve a 10-20% valuation premia

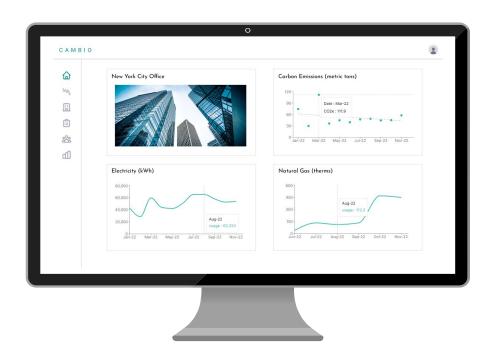


50% Pledged Real Estate **Emissions**

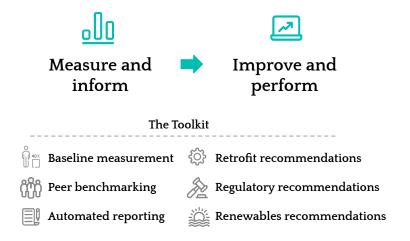
By Avison Young, Ivanhoe Cambridge & JLL, to name a few



Automated carbon analytics & accretive retrofit recommendations help <u>all stakeholders</u> measure and improve environmental performance



Accurate & automated data sourcing is needed to:





LPs are Prioritizing Fund-Level Sustainability Transparency

Cambio Limited Partner Webapp Interface

LPs are investing in ranking GP exposure by sustainability metrics like EUI







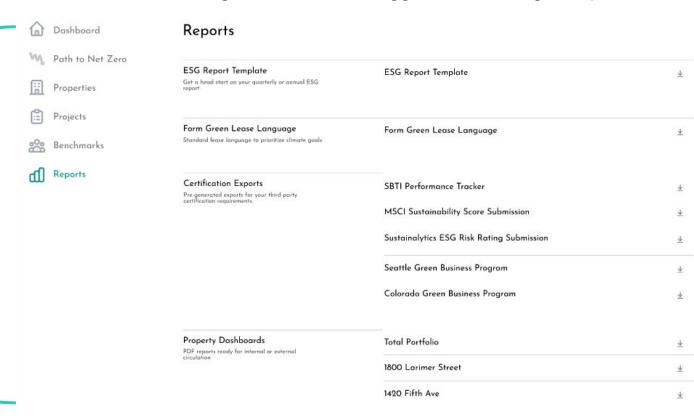




While Tenants are Actively Investing in Measurement & Compliance

Cambio Corporate Tenant Webapp Interface - Reporting Module

While the output reporting formats may vary, corporate tenants are investing in sourcing the same sustainability input data as GPs



Takeaway: Other RE stakeholders should be data collection allies, as they are facing similar data collection processes and challenges



31,829 sf Total Area

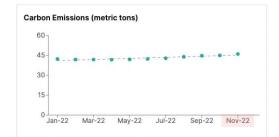
56.7 kBtu psf Avg Energy Usage Intensity

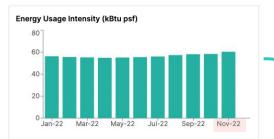
474.7 metric tons
Carbon Emissions

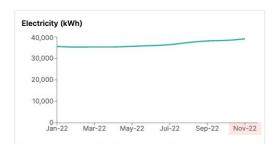
30.7% % Renewable

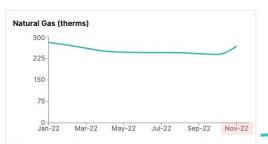
402,649 kWh

2,795 therms









- As publicly-traded tenants must now report on their energy usage data, they have considerable risk exposure to incomplete data
- This incomplete dataset was provided by an owner via a manual collection process and flagged by Cambio's automated data validation tool

Incomplete energy data



Denver Office



31,829 sf Total Area

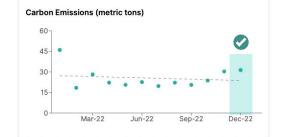
35.5 kBtu psf Avg Energy Usage Intensity

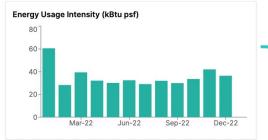
305.5 metric tons

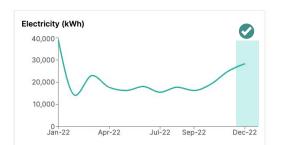
30.7%

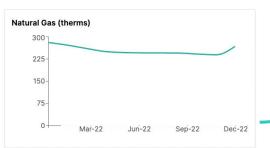
249,611 kWh

2,795 therms







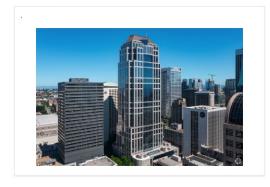


After Cambio QA

- With the SEC's Emissions
 Transparency Proposal,
 corporate tenants must invest
 not only in energy usage data
 tracking, but also in data
 <u>assurance</u>
- This is why corporates like GPs – are investing in tools to support automated data collection and assurance

Complete energy data





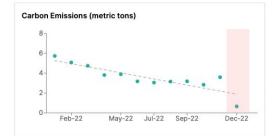
20,809 sf Total Area

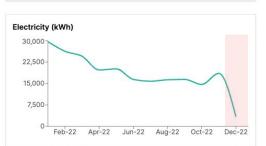
42.9 metric tons
Carbon Emissions

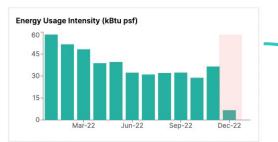
221,997 kWh Electricity 36.4 kBtu psf
Avg Energy Usage Intensity

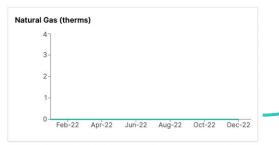
75.0% % Renewable

N/A therms
Natural Gas





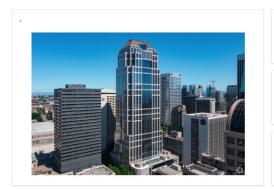




This inaccurate dataset was provided by an owner via a manual collection process and flagged by Cambio's automated data validation tool

Inaccurate energy data







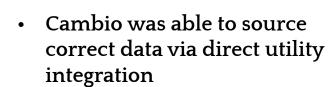
47.5 metric tons
Carbon Emissions

245,798 kWh

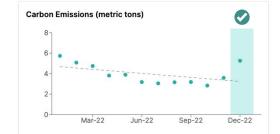


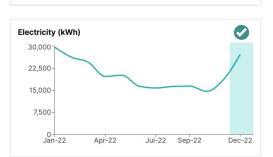
75.0% % Renewable

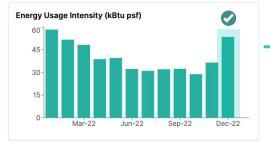
N/A therms
Natural Gas

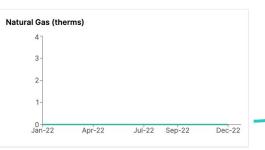


After Cambio QA









✓ Correct energy data



Want to learn more? Reach out.



Stephanie Grayson Cofounder & Co-CEO Cambio



stephanie@cambio.ai



914.924.9256



Cambio.AI



Cambio is software that helps commercial real estate companies and their corporate tenants decarbonize their buildings.



Our team comes from commercial real estate investing and operations, making Cambio the sustainability solution *for* investors, *by* investors.

We are backed by FIFTH | WALL, executives of the world's leading GPs, Y Combinator and Google, and proudly serve market-leading GPs, Fortune 500 tenants and major LPs.