

Making the Business Case and Getting Buy-In for Building Energy Benchmarking

June 17, 2021



Partner of the Year Award

✓ Excellence in Energy Management

- Robust energy management practices & program
- Address all areas of the <u>ENERGY STAR</u> <u>Guidelines for Energy Management</u>
- Help define best practices

✓ Leverage ENERGY STAR tools

- Excellent internal & external communications
- ✓ Active in the Partner community
- ✓ Strong energy performance
- ✓Awarded annually



Energystar.gov/awards



2021 Award Winner Webinars

- September 9 @ 1 PM EDT Benchmarking Energy Use and Assessing Energy and GHG Performance During A Pandemic
- November 9 @ 1PM EST Dive into water and waste savings strategies from BOMA's W2 Challenge Champions
- December 9 @ 1 PM EST Working Together to Save Energy: Employee Engagement Strategies

Register here: https://www.energystar.gov/buildings/training/learn_best



3

Today's Speakers



• Josh Schubert – Director of Energy Engineering, Goby



 Jason McIntyre – Director of Real Estate Operations and Sustainability, USAA Real Estate



4



Building the Business Case for Benchmarking



Josh Schubert Director of Energy Engineering

jschubert@gobyinc.com



About Goby

- ✓ ENERGY STAR Partner of the Year Award 2014
 2021
- A leading commercial building ENERGY STAR Award service provider
- ✓ Goby completes 10% of all ENERGY STARs
- ✓ ULI GreenPrint strategic partner

✓ 1st GRESB Data Partner

- ✓ 2019 Submitted 43 GRESB Funds
- ✓ 2020 Submitted 57 GRESB Funds
- ✓ 100% of clients saw an increase in 2019 GRESB
 Score and received a Green Star

150+ client accounts across 52 countries











Benchmarking and CRE

A Disk with the second second

ANT MADE FROM SHARE MADE MADE ANNO STATES TO UNDER S MADE ANNO STATES TO UNDER S MADE ANTO MADE AND STATES

What is Utility Benchmarking?

Utility benchmarking is the practice of measuring how much energy and water a building consumes and comparing that against other, similar buildings. This allows owners and occupants to understand their buildings' energy performances relative to similar buildings and helps identify opportunities to cut waste.



Motivations

- Direct Comparisons: How are we doing?
- Regulatory Requirements: Let's not get fined!
- Voluntary ESG Program Participation: Can we highlight great things we are doing and attract investors?



Data benchmarking & submission



Direct comparison

• ENERGY STAR Portfolio Manager

To raise the score by 4 points,

reduce usage by 14%,

need to save \$232,000 in annual

consumption



Metrics Comparison for Your Property & Your Target / Change Time Period

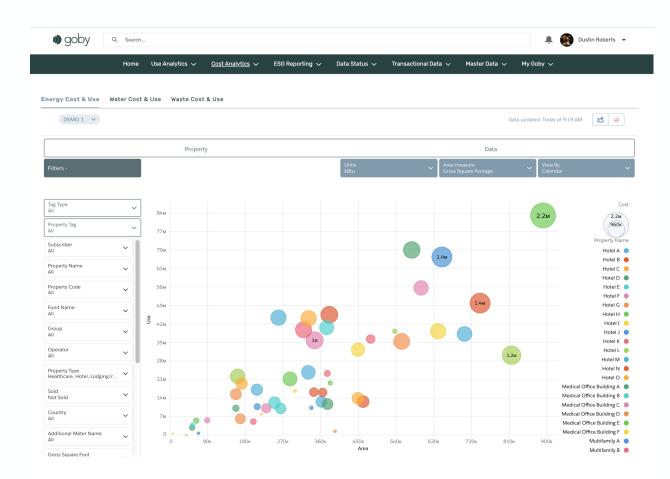
Metric	Dec 31 2014 (Energy 🥖 Baseline)	Mar 31 2020 💋	Target*	Median Property*
ENERGY STAR score(1-100)	92	90	94	50
Source EUI(kBtu/ft²)	88.6	94.3	81.3	195.5
Site EUI(kBtu/ft²)	31.7	41.8	36.1	86.7
Source Energy Use(kBtu)	70193440.7	74647297.8	64418710.5	154835719.7
Site Energy Use(kBtu)	25069086.0	33110012.0	28573093.0	68677801.5
Energy Cost(\$)	1274366.03	1695186.55	1462902.59	3516208.49
Total GHG Emissions(Metric Tons CO2e)	1661.9	2196.2	1895.2	4555.3

* To compute the metrics at the target and median levels of performance, we will use the fuel mix associated with your property's current energy use.



Data tools

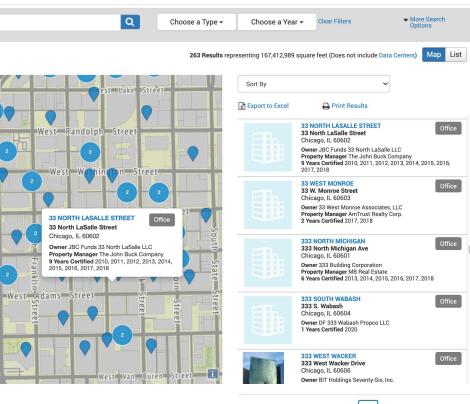
Analytics





Data tools

ENERGY STAR list of certified buildings









Drive

Find Products

Save at Home

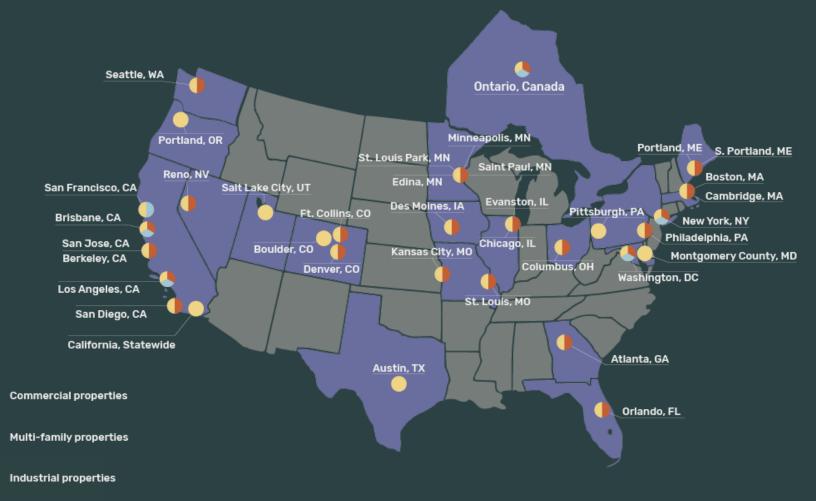
About Recursos en Español



Regulatory compliance

- Mandated energy disclosures from city, state/province, and mortgage lenders
- Sometimes includes water consumption
- Common tool to submit for compliance: ENERGY STAR Portfolio Manager





Data tools

• Local city database



oata 🚦	ID :	Prop	Add 🛧 🗄	ZIP C	Com :	Prim	Gros	Year :	# of :	ENER :	Elect	Na
2017	238554	336 Welli	336 W W	60657	LAKE VIEW	Multifami	135,081	1967	1	72	2,286,525	12,
2017	159646	339 W. Ba	337-339	60657	LAKE VIEW	Multifami	118,000	1967	1	26	2,988,591	9,
2017	103317	(IL504) - 3	33 E. Ced	60611	NEAR NO	Multifami	162,398	1958	1	74	2,400,533	8,
2017	103743	33 N. Dea	33 N. Dea	60602	LOOP	Office	372,137	1966	1	92	8,443,697	13,9
2017	103641	33 North	33 North	60602	LOOP	Office	477,171	1929	1	82	15,473,659	21,4
2017	156854	(IL272	th LaSalle Stre	60610	NEAR NO	Multifami	148,938	1985	1	15	8,740,892	3,4
2017	103278	33 W. Hur	33 W. Hur	60654	NEAR NO	Multifami	185,571	1998	1	99	2,427,802	4,9
2017	158426	Hampton	33 W Illin	60654	NEAR NO	Hotel	160,000	1999	1	16	8,533,965	16,1
2017	158184	33 West	33 W. Mo	60603	LOOP	Office	1,085,869	1980	1	77	61,656,819	
2017	160293	Millenniu	33 W Ont	60654	NEAR NO	Multifami	1,043,204	2003	1	73	24,604,434	29,3
2017	254101	3400 Lak	3400 Lak	60657	Lake View	Multifami	193,567	1921	1	94	3,515,063	7,4
2017	101420	Chicago A	3400 N A	60634	DUNNING	K-12 Scho	250,844	1934	1	66	6,205,773	16,9
2017	251310	03501-W	3400 N	60618	NORTH C	Superma	55,600	2002	1	79	8,789,530	3,4
2017	136830	Chevy Ch	3400 S. In	60616	DOUGLAS	Senior Ca	72,844	1977	1	5	5,093,806	12,5

View Data

Create Visualization





Requirements Vary

California – AB802

Due 6/1/2021 Buildings 50,000+ sq ft Energy data only They reserve the right to fine, but not currently listed



Chicago Due 6/1/2021 Buildings 50,000+ sq ft, commercial and multifamily Energy data only \$100 for 1st violation plus daily \$25.

Los Angeles – currently suspended until further notice Due 6/1/2021 Buildings 20,000+ sq ft, commercial, industrial and multifamily Energy and water data \$202 fine for non-compliance Requires Energy Audit and Retro-Commissioning reports submitted every 5 years

New York

Due 5/1/2021, extended to 6/1/2021 Buildings 25,000+ sq ft, commercial, industrial, and multifamily Energy and Water data \$500 first deadline, \$500 each additional quarter up to \$2000 Requires Energy Audit and Retro-Commissioning reports submitted every 10 years

San Francisco

Due 4/1/2021 Buildings 10,000+ sq ft Energy data only Various fines per day up to \$1500 or \$2500 Energy audit every 5 years (Level 1 audit up to 50,000 sq ft, Level 2 audit for 50,000+ sq ft)

Des Moines

Due 7/1/2021 Buildings 25,000+ sq ft commercial and multifamily Energy and water data \$50 late fee

Your pathways to compliance



DIY

Appoint a team member

3rd party



Beyond benchmarking best practices





ENERGY STAR award





ENERGY STAR Score

ENERGY STAR's Portfolio Manager assigns buildings a score between 1 and 100, comparing building performance among peers, between national averages, and across years. A score of 50 represents the median of energy performance; a score of 75 or above indicates that the building is a top performer and makes the building eligible to apply for ENERGY STAR certification.



ENERGY STAR Certification

After achieving an ENERGY STAR score of 75 or higher, a building becomes eligible to apply for ENERGY STAR certification. Whether required or voluntary, achieving an ENERGY STAR certification recognizes and celebrates a building's commitment to reducing energy use and greenhouse gas emissions.





Best practices for higher scores



- Gross Square Footage is the largest value of indoor area inclusive of stairwells and mechanical rooms, larger the better
- Account for parking if the parking lighting is on the building utility account, also a pool if one is present
- Correct units on energy
- Accurate counts on occupants, computers, etc



ESG Programs and Recognition

- Benchmarking plays a role in many ESG programs such as
 - LEED, GRESB, SASB, CDP and many others
 - See https://www.gobyinc.com/esg-solutions/the-esg-reporting-matrix/
- Need the energy data to be able to participate effectively
- Relate to stakeholders such as Property Management, Asset Management, and Investor Relations for public and private companies



Streamline with Goby ESG



Thank you!

Josh Schubert Director of Energy Engineering

jschubert@gobyinc.com



Making the Business Case and Getting Buy-In for Building Energy Benchmarking



Jason McIntyre, LEED AP, FMP

Director | Sustainability and Real Estate Operations



High Performance Sustainable Real Estate

USAA Real Estate is driving the business case for sustainable, energy efficient operations by saving more than we spend to execute the strategy.

With this focus, we lower operational costs, improve operational and energy efficiency, and accomplish higher building occupancy and rental rates.





Business Case Approach to Energy Benchmarking & Efficiency

Clear Value Proposition = Buy In

- Reduce Energy Expenses & Consumption
- Improve Transparency, Awareness & Accountability
- Partner with our Tenants, Investors, & Community in their respective goals and objectives



Clear Value Proposition = Buy In

LISTEN to your stakeholder's main goals, strategy, and levers.

Example: Real Estate

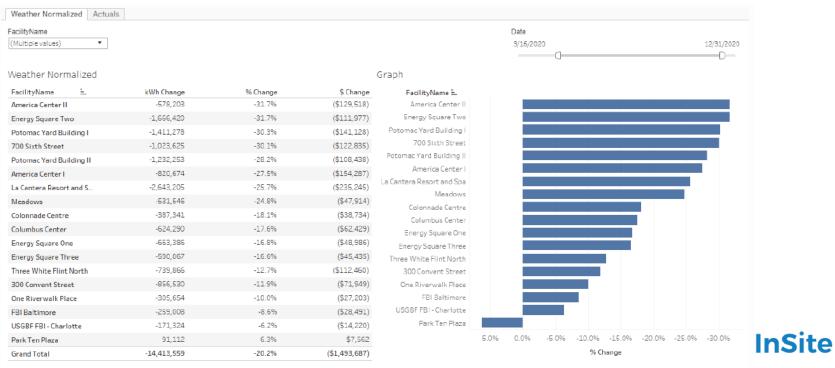
- Risk Adjusted Returns
- Capital Raising & Investor Engagement
- Tenant Retention and Attraction
- Asset Liquidity at time of sale

Incorporating the Value Proposition & Levers

- Benchmarking Ordinances & Efficiency Regulations
- Portfolio Energy Efficiency Status
- Tenant and Investor Engagement and Demands
- Communication & Differentiation

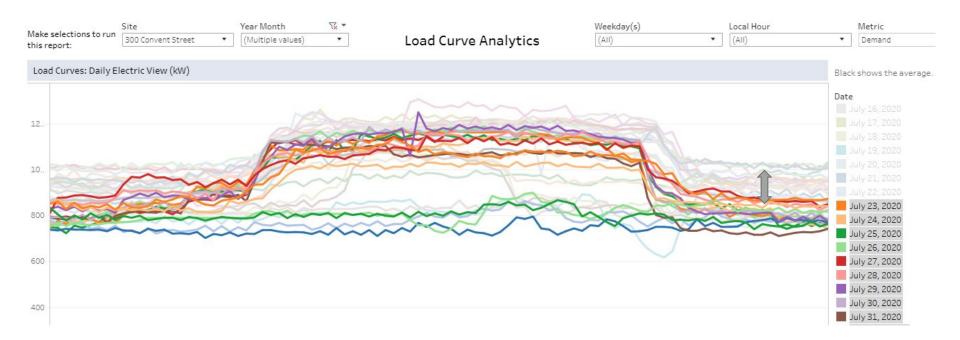
Building Performance Report: 2020 COVID Period

- USAA Consumption: 20.2% below 2019 baseline
- Above InSite Portfolio Median of 16.6%
- Savings: \$1.49 Million



Recent Success: 300 Convent – San Antonio

Consumption: Reduced by 9% overnight!



"As the current crisis has reinforced our commitment to preserving value for our investors, we are reminded that USAA Real Estate's dedication to developing and operating innovative, high-performing, and sustainable real estate certainly support this cause by driving benefits for our tenants, partners, co-investors, employees and communities we serve."

-LEN O'DONNELL President and Ceo, USAA real estate

Thank You!



Jason McIntyre, LEED AP, FMP

Director | Sustainability and Real Estate Operations

Questions / Comments

• Please use the chat box to ask questions or share comments.



35

2021 Award Winner Webinars

September 9 @ 1 PM EDT	Benchmarking Energy Use and Assessing Energy and GHG Performance During A Pandemic
November 9 @ 1PM EST	Dive into water and waste savings strategies from BOMA's W2 Challenge Champions
December 9 @ 1 PM EST	Working Together to Save Energy: Employee Engagement Strategies

https://www.energystar.gov/buildings/training/learn_best



36

SEPA ENERGY STAR. The simple choice for energy efficiency.



Questions?



