



KANSAS CITY MISSOURI



Energy Benchmarking

<https://www.kcmo.gov/benchmarking>

2.27.23

Climate Protection Steering Committee



Outline

- Benchmarking Overview
- 2022 Report Highlights
- Goals for Benchmarking in 2023

Ordinance Overview

Benchmarking Background, Who Benchmarks, Why do we Benchmark,
How do we Benchmark

Benchmarking Background

- 2008 Climate Protection Plan – reduce Greenhouse gases (GHG)
- Reduce municipal and citywide emissions by 30% of 2000 levels by the year 2020. Reduce emissions of both by 80% by 2050
- The municipal reductions were 40% by 2020 but the citywide reductions failed to meet the goal. Buildings represent about 60% of the city's emissions.
- 2015 the city adopted an ordinance, the Energy Empowerment Program, requiring private and public building owners to benchmark their energy usage using the Environmental Protection Agency's (EPA) Portfolio Manager application.
- In 2021 we updated the ordinance by passing Ordinance 211094 to make sure building occupants are responsible for benchmarking if owners are not paying utilities
- We publish data every year in August, the annual report is due December 31st happens every year
- The 2022 report can be found here:
<https://www.kcmo.gov/home/showpublisheddocument/10121/638131905648670000>

Who Benchmarks?

- All Buildings over 50,000 sf (1229 total buildings)
- City Buildings over 10,00 sf (125 total buildings)
- Many of those buildings are exempt due to their uses or lack of uses. We allow buildings to submit exemptions annually for the following reasons: demolition permit, certificate of occupancy, low physical occupancy, utility information unavailable, exemption from public disclosure, manufacturing or industrial, or other/special circumstances

Why do we Benchmark?

It gives us a baseline of where buildings are currently performing energy wise.

It makes building owners more aware of their energy usage compared to their peers.

Helps our local energy utilities and the City government target future financial and technical assistance.

How do we Benchmark?

- Send letters to building owners of the buildings required to benchmark
- Send reminder emails and warning letters after the deadline
- Work with Metropolitan Energy Center (MEC) to answer questions via phone and email from building owners and support the benchmarking process
- Process returned letters and update building owner information
- Host training (MEC x4, KCMO x2)
- Process and publish data

2022 Report Highlights

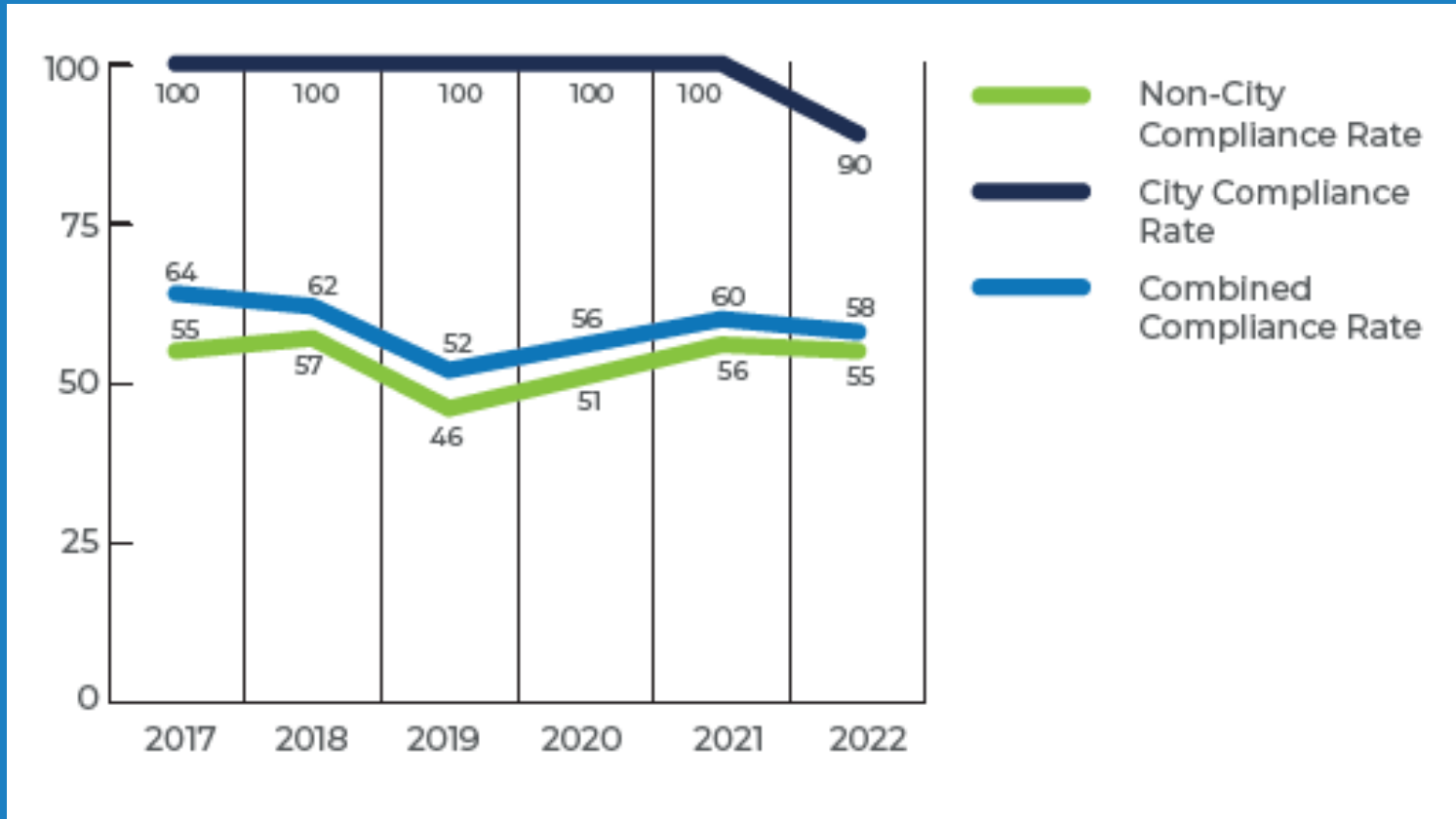
Compliance, Benchmarking Map, City ENERGY STAR Scores, Non-City ENERGY STAR Scores

Compliance

	City-Owned	Non-City- Owned	Total Combined
Properties Required	125	1229	1354
Properties Exempted	0	61	61
Properties Compliant	113	680	793
Properties Submitted	142	727	869
*Voluntary	29	47	76
Compliance Rate	90%	55%	58%


**Not included in Compliance Rate*

Compliance Year over Year



Benchmarking Map

Kansas City Benchmarking



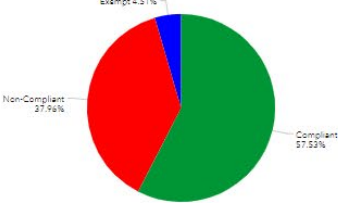
Kansas City's Energy Empowerment Ordinance requires owners of buildings 50,000 sq ft or greater to submit energy and water consumption to the City on an annual basis.

[Read more about Kansas City's energy benchmarking.](#)

Properties Eligible for Benchmarking

1,354

Compliance Status

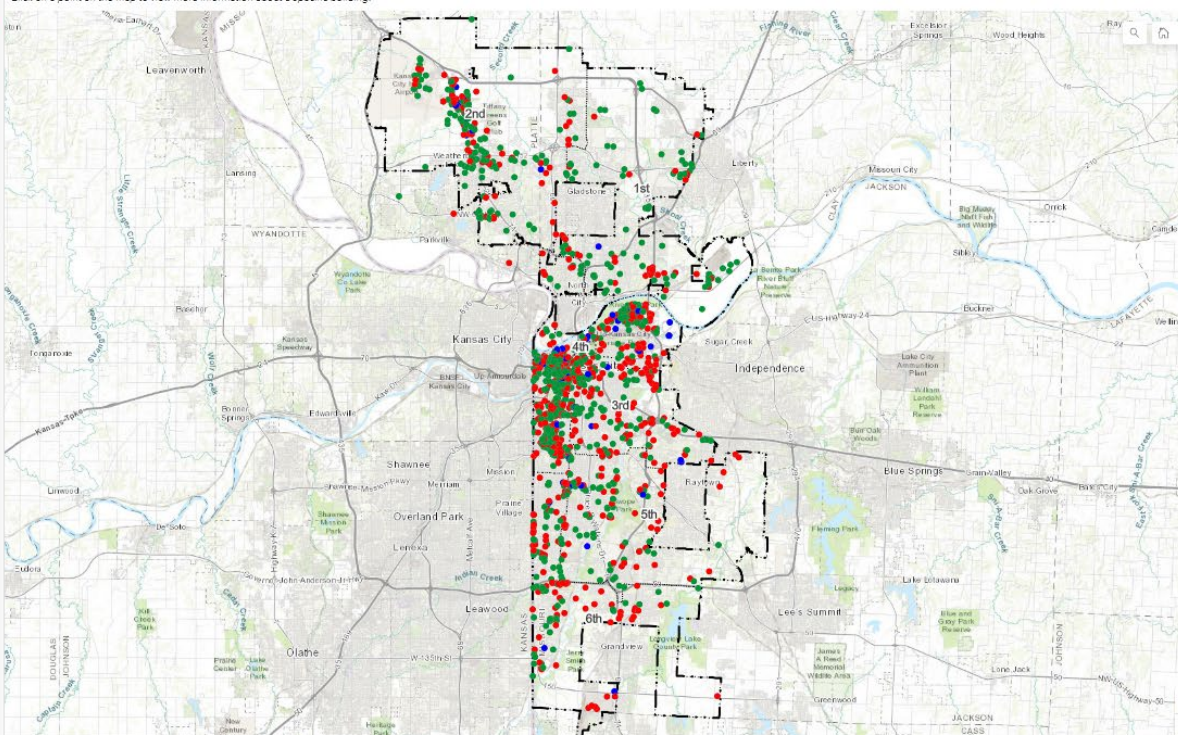


Compliance Status	Percentage
Compliant	57.53%
Non-Compliant	27.96%
Exempt	4.51%

*Non-compliance indicates energy usage has not been submitted

Building Address	Primary Property Type	Gross Floor Area (sq. ft.)	Site EUI (kBtu/sq. ft.)	ENERGY STAR Score
No address selected	No property type selected	No gross floor area selected	No site EUI selected	No score selected

KCMO Energy Benchmarking by Location as of 8/12/2022.
Click on a point on the map to view more information about a specific building.

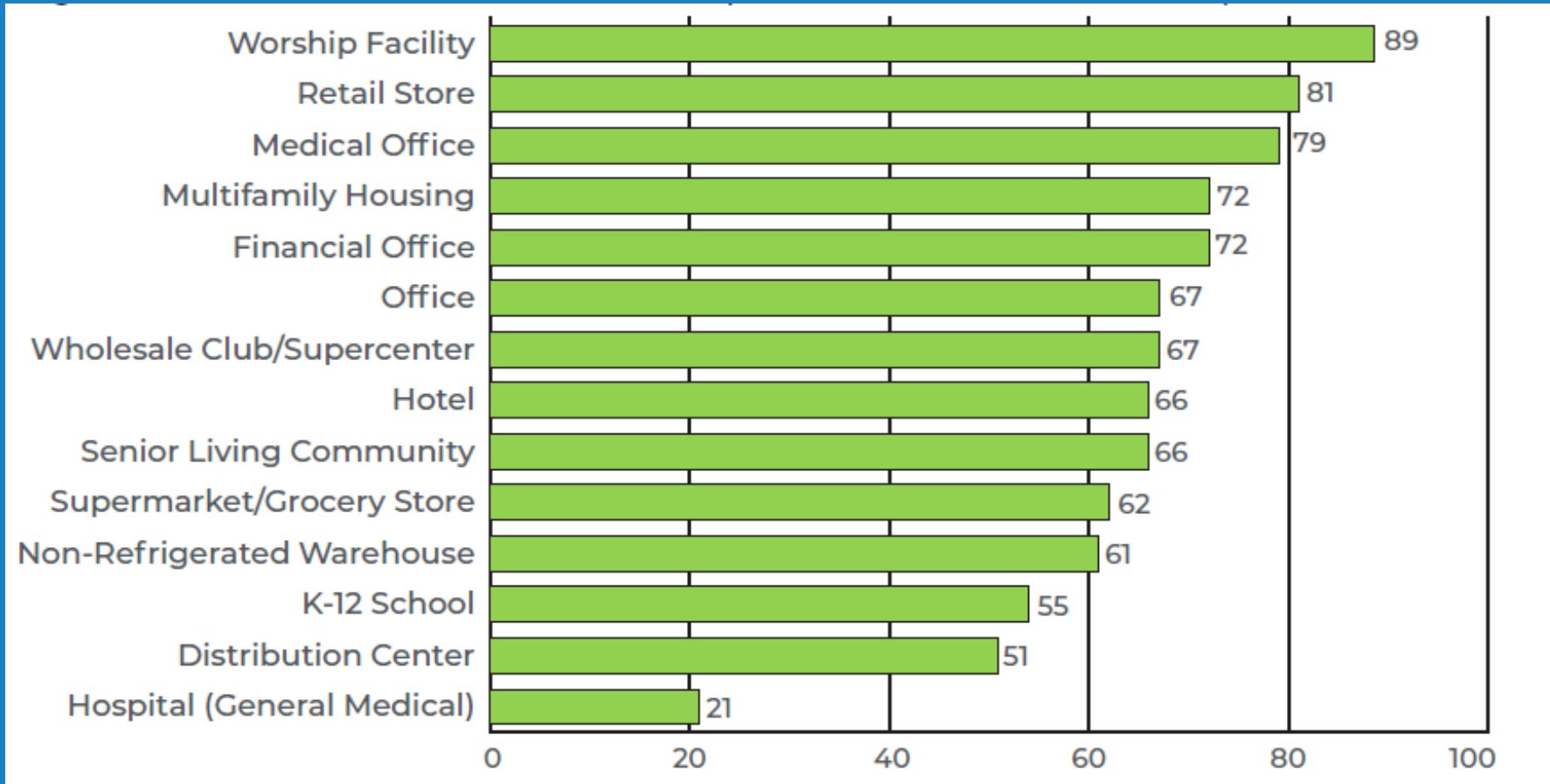


Kansas City, MO, Jackson County, MO, Missouri Dept. of Conservation, Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS
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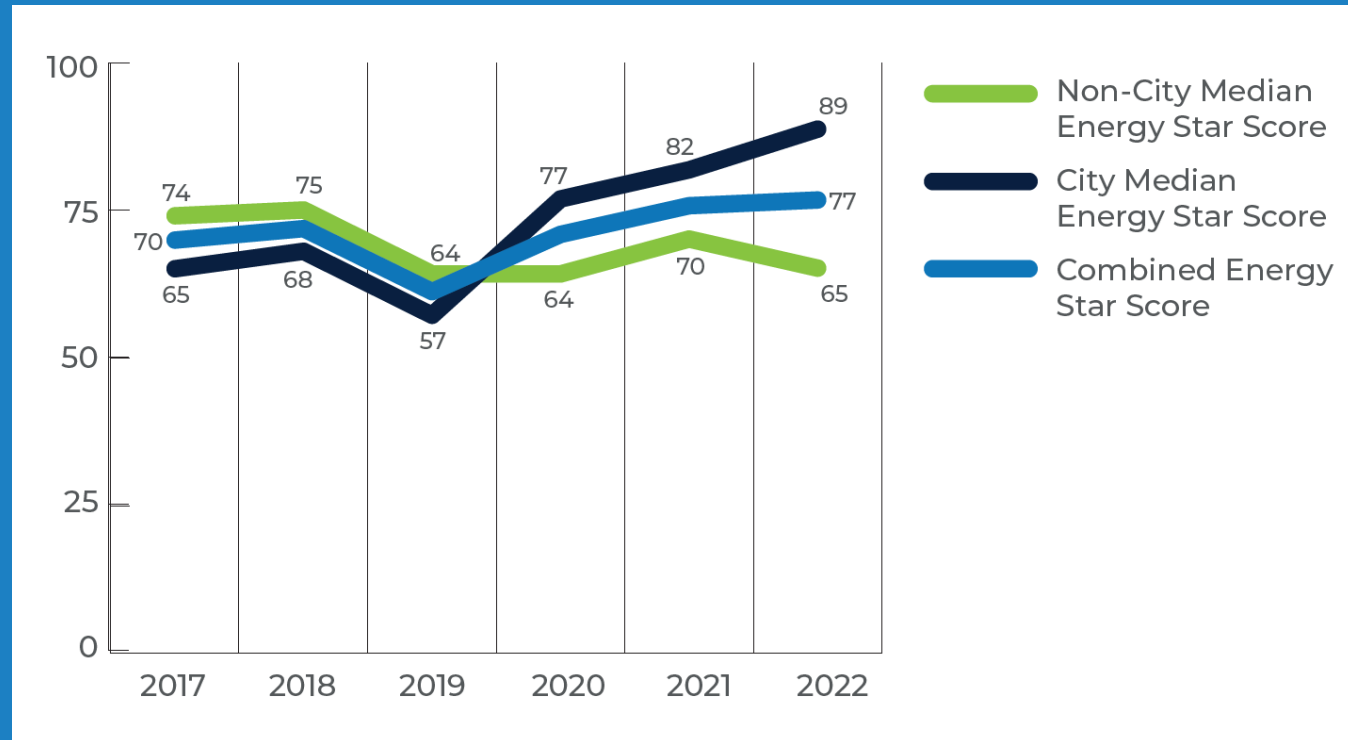
City ENERGY STAR Scores

Property Name	ENERGY STAR Score	Square Feet
Water Pollution Control	97	5,000
Parks Northland Maintenance Support	97	65,872
Water Services Department Main Complex	95	107,000
PW Streets District 1 Main Building	94	25,848
City Hall	89	413,901
Terry R. Dopson Building - Parks HQ	78	52,500
Police Dept. Headquarters Annex	16	29,440
Aviation Administration Building	13	41,500
Water Services Department IT Building	5	16,105

Non-City ENERGY STAR Scores



Energy Star Scores Year over Year



Goals for Benchmarking in 2023

Return the City to Full Compliance, Increase Compliance, Improve Accuracy in Reporting

Goal 1: Return the City to full Compliance

- Last year KCMO was not fully in compliance with the benchmarking ordinance. This was mainly due to changes at Evergy that made accessing data impossible for the City as the owner of properties. This year we will be working with Evergy to return to their previous practices. If that is not possible, we will expand our outreach to building tenants.

Goal 2: Increase Compliance

- Increase communication with building owners
- Strengthen relationships between building owners and MEC
- Helps to build a strong foundation to create a Building Performance Standard (BPS) program

Goal 3: Improve Accuracy in Reporting

- Follow up with building owners who have successfully submitted but have been unsuccessful in obtaining an energy star score
- Continue to provide accessible customer service to guide building owners
- Helps to build a strong foundation to create a Building Performance Standard (BPS) program



Questions?