



Department Source: Sustainability

To: City Council

From: City Manager & Staff

Council Meeting Date: August 15, 2022

Re: Presentation of the 2022 City of Columbia Municipal Building Energy Report

Executive Summary

Attached for Council's information is the 2022 City of Columbia Municipal Building Energy Report (Report). It is for Council's information only.

Discussion

Action H-1.3.3 in the City of Columbia's Climate Action and Adaptation Plan (PR 89-19 A) reads: *Introduce a policy that requires all municipal buildings to be benchmarked with the current Energy Score rating, the energy use intensity (kBtu/sqft) and the energy reduction goal. These benchmarks and goals shall also be posted on the City's website.*

Development of the policy

In October of 2021, City Manager John Glascock approved by signature the City of Columbia Municipal Building Energy Benchmarking Policy. The policy was the product of several months of work by the Good Stewards-Buildings CAAP team. The team collected examples from other municipalities, consulted with staff involved in the implementation of policies, and received guidance from the Midwest Energy Efficiency Alliance. Staff also received input from the CAAP Core and Executive teams as well as the Climate and Environment Commission.

Impact

Measuring and tracking energy use in City buildings is fundamental to reducing wasted energy, minimizing operational expenses, and lowering emissions. In 2021 energy used in City buildings accounted for ~60% of our municipal emissions and cost \$4M.

CAAP action H-1.2.1 reads: *"Provide assistance to commercial buildings above a minimum gross floor area to track energy and water usage. Require all such commercial buildings to disclose their energy and water use."* By tracking energy usage in our buildings first, we show our commitment to the goals of the CAAP and our experience with this policy may also provide helpful insight to our community peers.

The services required to implement H-1.3.3 and H-1.2.1, such as building audits; collecting, reporting and analyzing data; and improvements to buildings and systems present opportunities for increased local economic activity.

The annual reporting schedule for the policy is June 1. The policy calls for having the details and energy use of all City of Columbia buildings entered into Portfolio Manager by June 1, 2023. This information will be provided in a report and available on the City website.



City of Columbia

701 East Broadway, Columbia, Missouri 65201

Since 2009 the Office of Sustainability has been collecting and inputting annual energy use information for 36 City buildings into EPA's Portfolio Manager. The Report covers energy use in these 36 buildings in 2021. The policy calls for all City of Columbia buildings covered by the policy be entered into EPA's Portfolio Manager by June 1, 2023. Staff on the Good Stewards – Buildings CAAP team is currently managing a contract for inspections to characterize more City buildings. The FY2023 budget for the Office of Sustainability contains a request for funding to continue characterizing more of the remaining City of Columbia buildings for inclusion in EPA's Portfolio Manager.

The Office of Sustainability and Good Stewards – Buildings CAAP team are developing placards to be displayed at benchmarked facilities with its energy and emissions data; as well as a publicly available data dashboard. These will both facilitate greater visibility and access for the City of Columbia's building energy use; and inform project prioritization. Inclusion of facility water use and building performance goals in the Report is also in progress.

Fiscal Impact

Short-Term Impact: \$15,000 for next round of building characterization inspections.

Long-Term Impact: Enter the cost of proposed legislation to the city for years **beyond two**.

Strategic & Comprehensive Plan Impact

Strategic Plan Impacts:

Primary Impact: Reliable Infrastructure, Secondary Impact: Organizational Excellence, Tertiary Impact: Tertiary

Comprehensive Plan Impacts:

Primary Impact: Infrastructure, Secondary Impact: Livable & Sustainable Communities, Tertiary Impact: Tertiary

Legislative History

| Date | Action |
|-----------|---|
| 6/17/2019 | Council adopted PR 89-19 A the City's Climate Action and Adaptation Plan. |

Suggested Council Action

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