

CITY OF MINNEAPOLIS

Energy Benchmarking Policy amendment

Nadia Khan

Content

- Background of Energy Benchmarking
- Importance of data quality
- Evolution of private building data
 - 2013
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- Public Disclosure date – findings from other Benchmarking Cities
- Actions needed

Background



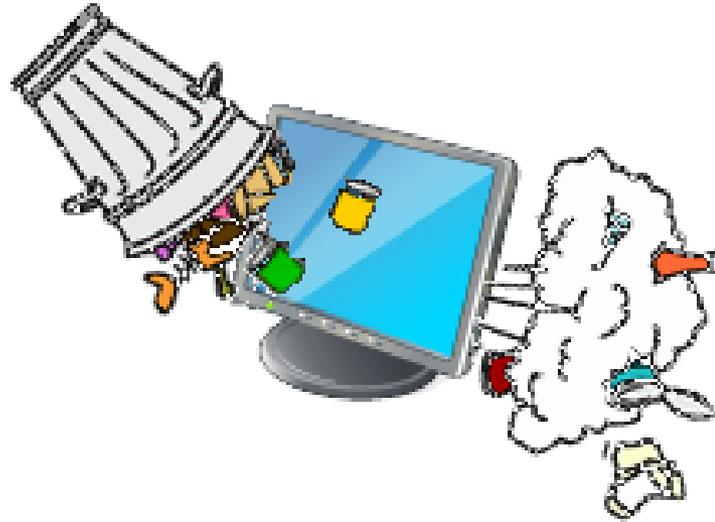
5 Ws of Energy Benchmarking

- Who – Commercial buildings w/ area of and over 50, 000 sq. feet, all public buildings
- What – Building managers report annual (previous year's) energy and water consumption data
- Where – EPA's Energy Star Portfolio Manager
- When – June 1 each year
- Why – To improve building's energy efficiency, helps to meet City's goal towards Climate Action Plan

Importance of Data Quality



Why focus on data quality?



- Data must be useful for buildings to improve
- Data provides measure of program's effectiveness

City Goals

Baseline 2006

The Climate Action Plan is a roadmap to reducing our city's climate impact.

Minneapolis will meet its adopted targets, reducing citywide greenhouse gas emissions

15% by 2015

30% by 2025

Business as usual 2025

Climate action 2025



Evolution of Data Quality

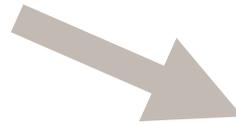
2013



2013 data focus = response

A "Response" is:

Submission or
Exemption



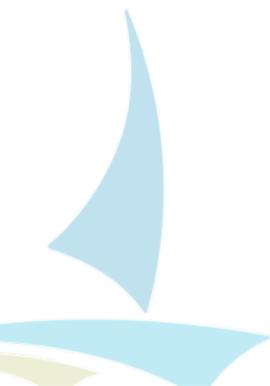
87% Response



75% Analyzable

2013 data quality issues

- Extreme low/high EUI (Energy Use Intensity)
- Energy units
- Missing full year data
- Area discrepancy
- Portfolio Manger doesn't detect the defective data



Evolution of Data Quality

2014



2014 Focus – Improve Data Quality



Data Field	Compliance Threshold
Building ID and Property ID	Include correct IDs
Gross floor area*	Within 10% of Tax assessor
Property Type	Include correct building type
Electric energy data	Data < 12 kWh/sf may be reviewed
Energy Use Intensity (EUI)	EUIs < 25 and > 400 kBtu/sf/yr may be reviewed
ENERGY STAR Score	Scores <5 and >95 may be reviewed
6 more ...	

2014 Data Results

ANNOUNCED
METRICS
+
DATA CHECKER
+
FOLLOW UP



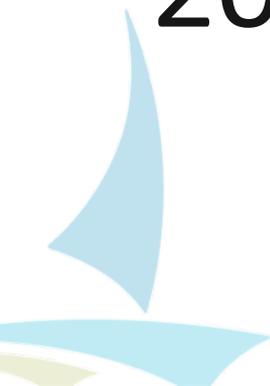
100% Response



~90% Analyzable

Evolution of Data Quality

2015



2015 focus = Enforce on Data quality

ANNOUNCED
METRICS
+
DATA CHECKER
+
FOLLOW UP



100% Response



100% Analyzable



Public disclosure date



Findings from other benchmarking Cities

City	Annual Reporting Deadline	Cut-off Deadline	Public Disclosure Date of Energy Data
Austin	June 1st		no clear date
Chicago	June 1st	August 1st	no clear data; mentioned only in the annual report w/o any date
Minneapolis	June 1st	August 30th	August 30th
Philadelphia	June 30	no date	annual report by sustainability office
Seattle	April 1st	no date	sharing data is owner's responsibility
Washington, DC	April 1st	no date	On January 28, 2015, DOEE published detailed data on the 2013 energy and water performance of 736 privately owned buildings over 100,000 gross square feet

Compliance Standards for Energy Benchmarking

- Minneapolis Building and Property ID**
- Property floor area w/in +/- 25% of tax assessor data**
- Property Type
- Electricity Data (> 0)
- Heating Data* (> 0)
- Water Data (>0)
- Site EUI (Energy Use Intensity) (25-400)
- Complete/full calendar year (Jan. 1 – Dec. 31) meter data for electricity, heat and water use
- Energy Star Score(5-95) as applicable
- Total greenhouse gas emissions

*Parking Structures are exempt from reporting heating data

**City provides these data

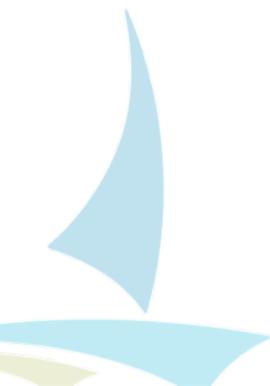
- **Disclosure and publication of benchmarking information**

- The director shall make readily available to the public, and update at least annually, benchmarking information for the previous calendar year according to a publically stated schedule.

Clarifying Existing Authority

The Health Department already has authority to determine compliance.

This change clarifies the standard at which we will enforce.



Thank you!

- For questions/comments/concerns contact us
 - Email: mplsenergystar@minneapolismn.gov
 - Phone: 612-673-3091
- Compliance website
 - www.ci.minneapolis.mn.us/environment/energy/index.htm
- Help and Outreach website
 - www.minneapolisenergybenchmarking.org