# caccamo3

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## Buildings and Chicago Energy Rating 2020

Chicago Energy Rating by Zip Code

Average Natural Gas Usage vs Energy Star Rating over zip codes Average Chicago and Energy Star Score over Buildings zip codes

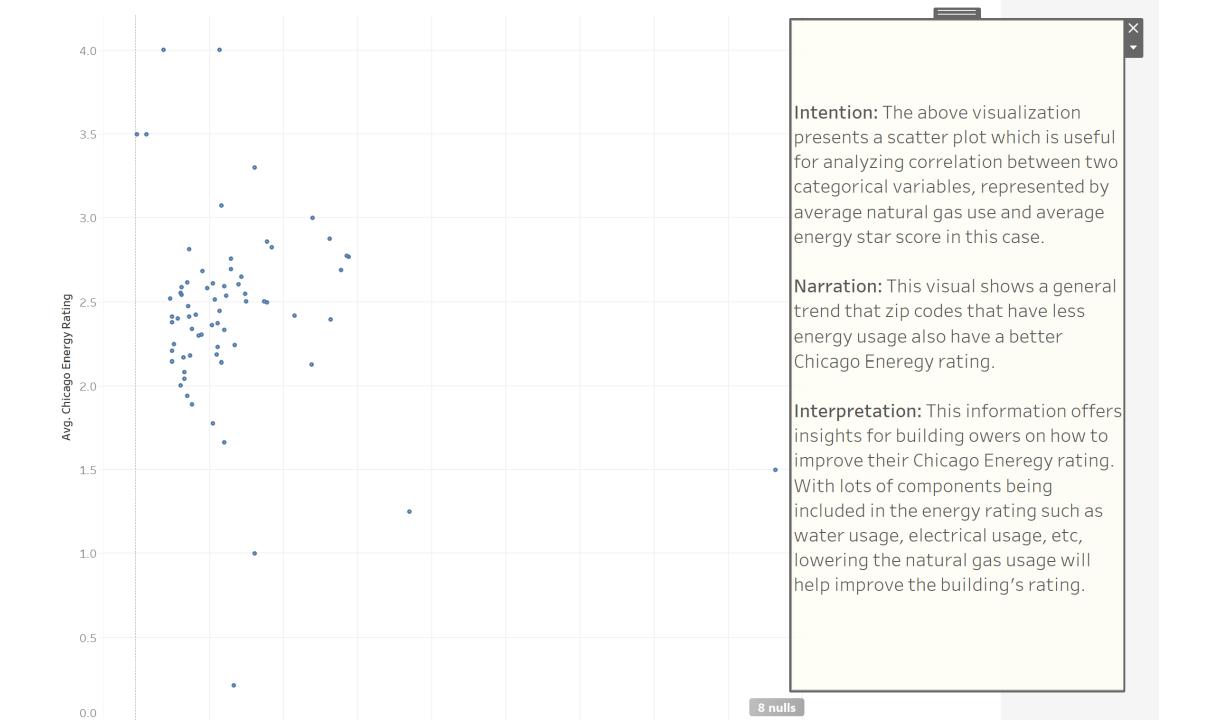
Reporting Status of

#### Observation:

An observation in this dataset is each unique building in the Chicago area. More specifically, each building is characterized by type of building, ID, year built, etc.

#### Research Question:

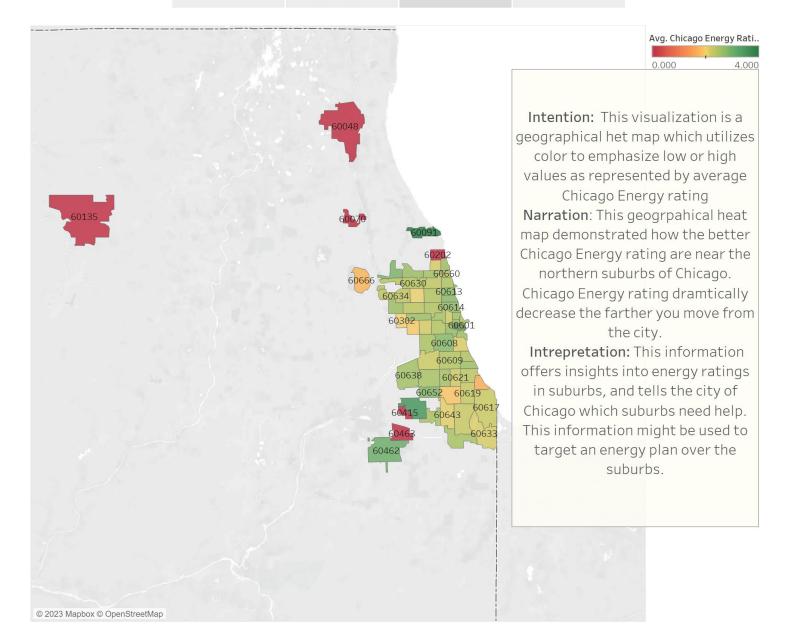
Is there a relationship between location and energy rating? In particular, how does the natural gas usage, zip code, and reporting status influence the Chicago energy rating?



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Chicago Energy Rating by Zip Code

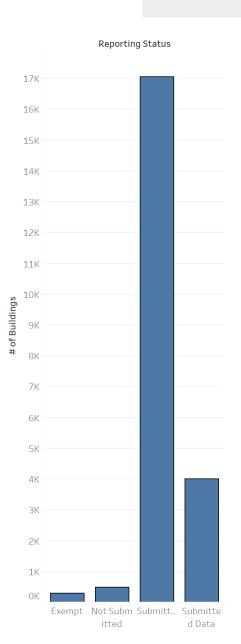
Average Natural Gas Usage vs Energy Star Rating over zip codes Average Chicago and Energy Star Score over zip codes Reporting Status of Buildings



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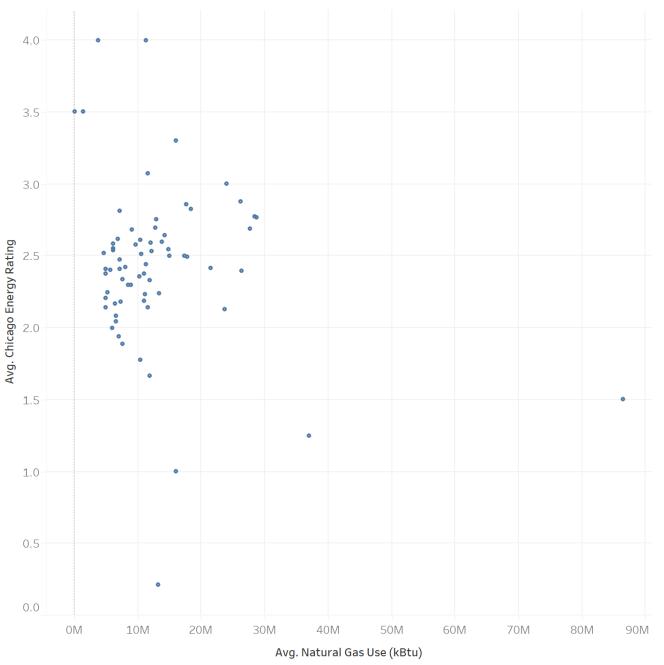


Intention: This visualization shows a column chart which is useful in analyzing the reporting status with number of buildings

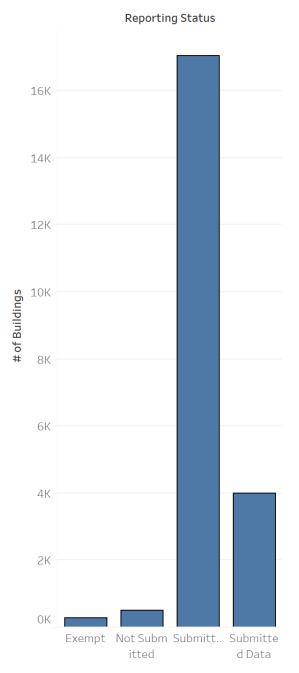
Narration: The data is skewed to the left and provides details about outliers. For the buildings that were "not submitted", the subsequent Chicago energy rating is automatically a zero. This brings down the average Chicago energy rating for certain zip codes.

Interpretation: This information offer insights for analysts and the city of Chicago in understanding how outliers effect Chicago energy rating.

# Average Natural Gas Usage vs Energy Star Rating over zip codes

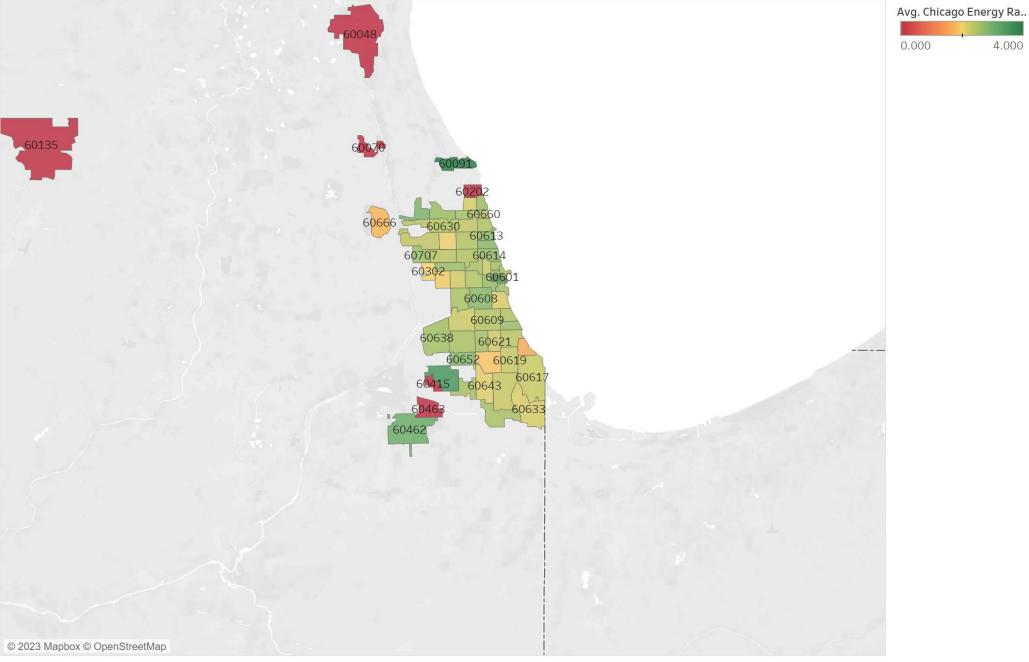


# Reporting Status of Buildings



Sum of # of Buildings for each Reporting Status.

# Average Chicago and Energy Star Score over zip codes



4.000

Map based on Longitude (generated) and Latitude (generated). Color shows average of Chicago Energy Rating. The marks are labeled by ZIP Code.