I. Faceted bar chart

Steam Workflow by Zone:

I. Faceted bar chart of portfolio steam consumption over 2 year interval spaces grouped by ".......r" tags, normalized by area. Observation: absolute value also increases for sector:NW and sector:SE groups, decreases for other groups, large decrease for usual and sector.

Ib (possible). LineUp plot of portfolio steam consumption over 2 year interval, spaces grouped by " tags, normalized by area. Observation:

V" group moves up in the rankings from 5th to 1st, absolute value also increases reverse for " group.

2. Faceted Bar chart of "consumption over 2 year interval, individual spaces, normalized by area. Observation: several considerable increases; are these caused by anomalous spikes or by a gradual increase?"

3. Faceted Box plot of 'consumption over 2 year interval, individual spaces, normalized by area. Observation: x-axis scale is skewed by / outliers in 2012 and in 2013. Single outliers not important, especially for steam (meters are less reliable than Electricity); groups of outliers closer to whisker are more interesting. Omit single distant outliers.

5i (possible). Small multiple time series line plots plot of "V" steam consumption over 2 year interval by month, individual spaces, normalized by area.

Sii (possible). Small multiple time series line plots plot of " v" steam consumption in May 2012, 2013 by week, individual spaces, normalized by area.

Sa (possible). Heatmap plot of "........" steam consumption over 2 year interval, individual spaces, normalized by area. Observation; some IQR / median increases from step 5, such as can be explained by observation that the building wasn't reporting any consumption in the first several weeks of 2012.

5b (possible). Differential % Heatmap of " steam consumption over 2 year interval individual spaces, normalized by area. Observation: increase in IOR / median observed earlier could be explained by non-repeating spikes in consumption throughout the year.

5b (possible). Differential % heatmap of "steam demand; week 19 highlighted; line plot tooltip by weekday, vearover-year comparison. Desirable; show a finer time scale than a day (requires date correction). Observation; Week 19 in the worse this year than last year, especially at the start of the week.

6. Time series line plots of steam consumption in week 19 by weekday for 2 years, individual spaces, normalized by area. Desirable: show a finer time scale than a day (requires date correction). Observation: and education buildings exhibiting different trends from one year to the next.



recording.

