**Dash Energy App Use cases**

**(by: Ritu and Shravya)**

1. Select Total, Hourly, Actual**,** a meter, Year

* This should display the hourly actual energy consumption for that particular meter on the graph.

1. Select Total, Hourly, Actual, multiple meter, Year

* This should display hourly actual consumption for multiple meters

1. Select Total, Hourly, Actual, multiple meter, multiple Year
   * This should display hourly actual consumption for multiple meters for multiple years
2. Select Total, Hourly, Actual, multiple meter, Year, predicted
   * This displays predicted values too with prediction interval. Prediction intervals are displayed only for hourly consumption.
3. Graph is highly interactive; we can zoom in or zoom out into any section of the time frame and it will show us energy consumption values each hour.
4. The hover contains the details of each point corresponding to a meter.
5. Graph only plots data for year selected by the user. The years value is being pulled from the data so if this dashboard needs to be used next year then only data needs to be updated.
6. The second plot displays only the average hourly energy consumption basis hour of day, day of week, weekly or monthly.
7. A date picker is provided to select any date range for displaying data on the plot.
8. Second plot only displays data 2020 onwards.
9. Second plot compares the actual and predicted values for various unit of times.