1. Merged data in folder(csv files)

1) Outage_final.csv: File with data on demographic, geographic and power outages. We use this data file for analysis.
2) Variables name:
   CustomerHoursOutTotal: Total customer outages hours
   CustomerHoursOutTotal_no_storm: No-weather related total customer outages hours
   CustomersTracked: Total Customer tracked
   SAIDI_Weather: Weather-related SAIDI
   SAIDI_Nonweather: Non-weather related SAIDI
   English_Dep: Percent English deficiency
   Poverty: Percent Poverty
   Minority_Racial: Percent racial minority
   Population_Density: Population density
   Road_Density: Road density
   TreeCover: Percent tree cover

2. Code in folder:

1) data_merge.R: Code to merge demographic data, geographic data, power outages data and utility service data.

2) SummaryStatistic.R: Code to create results listed in Table 1,2,3,4 in supplementary.

3) regression.R: Code to create results listed in Table 5,6,7,8,9,10,11,12,13 in supplementary information.

4) Graph.R: Code to create figure3,4,6 of paper.

5) pous_saidi.py: Code to aggregates outages and customers tracked to county level.

6) pous_storm_data_analysis.ipynb: Code to map storm events to outages data.

7) saidi_calculations.ipynb: Code to calculate SAID, utility mapping, and create Figure 1, 2 of paper.