The initial optimization model was developed considering houses but the data file can be modified in whatever way we need to change the scale and enter characteristics of the umbrellas.

The Microgrid analysis excel workbook contains the modelling of one umbrella using different scenarios and how microgrid optimization reduces the payback period.

Time-series instructions are included step-by-step within the jupyter notebooks for both visualizations and the notebook used for prediction. Certain libraries such as Pyramid and TensorFlow may require special installation instructions. Please refer to [Pyramid](https://github.com/tgsmith61591/pyramid) and [TensorFlow](https://www.tensorflow.org/install/install_windows)  for instructions. To run model after installing the necessary packages, simply hit “run all” and the code should reproduce itself.