

SECTION 6 - USER DOCUMENTATION

This section is a necessity for each project and can be completed last, prior to delivery.

6.1 INSTALLATION GUIDE

The final installation procedures will be decided by EPB at the time of implementation, based on how EPB has decided to integrate this tool. As of the end of Spring 2023, the product is available in the form of a simple downloadable executable file. This file should be immediately launchable. Dependencies and packages will be automatically unpacked/installed on the first run. Users/installers will be alerted via Command Line to expect a slightly delayed run upon the executable's first launch.

6.2 USER'S GUIDE

To run the current version of the program, follow the steps below:

1. Install dependencies (if not already installed):
 - a. Python 3
 - b. Python 3 libraries;
 - i. Matplotlib
 - ii. NumPy
 - iii. Pandas (normally included with NumPy)
 - iv. Statistics module
 - v. MySQL-Python connector
 - vi. SQLAlchemy
2. Open terminal/command prompt in the directory containing *SingleExecutable.py* and/or *BatchExecutable.py*

SingleExecutable

3. Execute: *python3 ./SingleExecutable.py*
4. The user will now be prompted to input a premise ID. This is the ID of the EPB meter.
5. Once the premise ID is entered, a visual will appear displaying a graph as described below.
 - a. **Left y-axis:** Temperature (celsius)
 - b. **Right y-axis:** power consumption (kilowatt per hour)
 - c. **X-axis:** Time (months)
 - d. **Blue line:** temperature
 - e. **Red line:** power consumption
6. To close the program, simply close the window containing the graph.

BatchExecutable

3. Execute: *python3 ./BatchExecutable.py*
4. The program runs without a progress bar.
5. Once the program is finished, it will print the amount of time it took to complete.

Alternatively, a Window's compatible executable will also be available. This removes the need to install dependencies and run the programs via command line.