PROJECT REQUIREMENTS - Preliminary Project Name SolarSize

Functional Requirements

Database - GreenWave has one that we will be accessing, will possibly need to setup our own to manipulate that data as needed

API - TBD, might be one at GreenWave if not we may aim to create one in our program for integration with their systems.

Login - Users and GreenWave Admin accounts. Varying abilities to both.

Graphs - Interactive and scalable graphs using data from AI/Algorithms and databases.

Solar Intensity Data - Some way of automatically getting solar intensity map information.

Map Display - Display solar installations on a map based on locations.

Email/Text Alerts - Determine when issues have occurred and notify Clients and GreenWave.

Solar Sizing - Calculate ideal solar installation size for ROI based on usage patterns.

Technical/Performance Requirements

Scalable - New Clients will be auto populated from the database. Both the database and program should be able to accommodate this.

Secure - Clients should only be able to see their own data. Security to ensure accounts have separation is needed.

Good Experience/Pretty UI - A good UI is key as this will be a client-facing tool.

Efficient - Load times are minimal, and do not negatively impact user experience. Key for "real-time data" and to efficiently determine scale of solar installation.