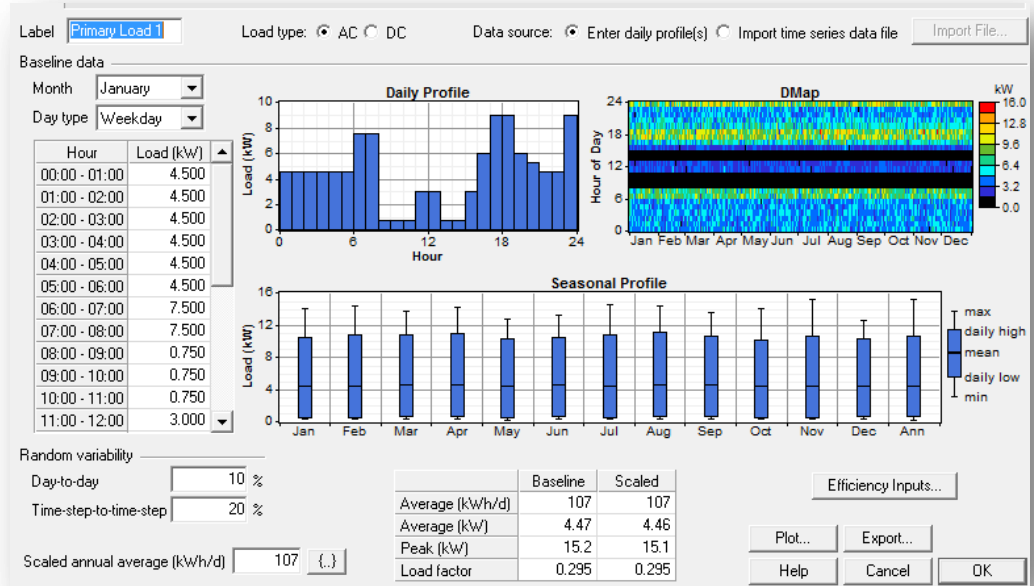


## Hybrid Power System Modeling and Specification

### FEATURES

- Solar Irradiance
- Simulation Based on Global Location
- Optimization of Fuel Consumption
- Maximize Battery Life by Limiting Depth of Discharge
- Minimize Component Quantity Mismatch
- Maximize System Reliability and Performance
- Maximize Monetary Allocation
- Minimize Transportation Weight and Cube



Designing and specifying components for a reliable hybrid power installation can sometimes be overwhelming. There are many environmental factors which affect the performance of the system throughout the year including the change in available solar energy. A properly designed and specified system will extend the longevity of the components, maximize the energy returned for the money invested, increase the system reliability, and minimize the transportation costs.

Energy Solutions begins design process by creating a daily load profile using information available about the application. Using this load profile and the proposed geographic location of the site, Energy Solutions models the system using Homer software. The Homer simulation produces a set of results with which Energy Solutions determines the hybrid system component sizes and quantities.

