

# Greenlight Energy Survey

Now that you are on the track to saving money with our energy saving products we will require as much of the listed information below to give us the best idea of how to save you money. Once we receive the required information we'll work with you and your HVACR/Electrician contacts to layout the best savings plan available to your company.

## Product Wide

- 12 Months of Electric Bills

## HVACR and Refrigeration

- Fill out the provided equipment form
- Estimated run time of all units
- Thermostat set points for all units
- Type of Thermostats used (programmable, or basic)

## Inductive Loads

- Fill out the provided assessment form
- Operating Hours for the Pumps, Motors, etc.
- Do your units have any starter, contactor, soft start, VFD, VSD, etc. that controls the inductive load

**Installing a Circuit Master**  
**(Three Phase Equipment)**

Always install the Circuit Master on the load side of the switching gear, and take both your pre and post (before and after) measurements from the line side of the switching gear. Switching gear can be a disconnect, control center, circuit breaker, etc., or any other device that is used to turn off the power for that inductive load (motor/equipment). Be sure the Circuit Master is installed upline from any soft start, VFD, or VSD devices in the system.

**Taking Your Measurements**  
**(From Line Side Only)**

Using an \*Amprobe Model ACD-51/ACD-51 HP/ACD-31P, or similar measuring device, take your Pre-Readings from the line side for the following and fill in the Pre Blanks only at this time.

**VOLTAGE**

Line one to ground Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Line two to ground Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Line three to ground Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Average Voltage (L1 + L2 + L3) = Pre = \_\_\_\_\_ Post = \_\_\_\_\_

**AMPS**

Line 1 Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Line 2 Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Line 3 Pre = \_\_\_\_\_ Post = \_\_\_\_\_  
Average Amps (L1 + L2 + L3) = Pre = \_\_\_\_\_ Post = \_\_\_\_\_

KVA = Pre = \_\_\_\_\_ Post = \_\_\_\_\_

KVAR = Pre = \_\_\_\_\_ Post = \_\_\_\_\_

P.F.= Pre = \_\_\_\_\_ Post = \_\_\_\_\_

After you have selected the proper Circuit Master from the KVAR/Voltage sizing chart, install it on the load side and fill in the new reading in the post blanks. To determine the percentage improvements for all readings, subtract the Post-Readings from the Pre- Readings and divide the difference by the Pre-Reading.

$$\frac{\text{Pre} (-) \text{Post}}{\text{Pre}} = \% \text{ Improvement}$$

\* Amprobe is a brand name used by most SEP dealers

Commercial / Residential Unit Type \_\_\_\_\_ Year \_\_\_\_\_  
Manufacturer \_\_\_\_\_ Model # \_\_\_\_\_  
Serial# \_\_\_\_\_ Size (Tons/BTU's) \_\_\_\_\_ # of Units \_\_\_\_\_  
SEER/EER \_\_\_\_\_ Hours of Operation \_\_\_\_\_  
Last maintained \_\_\_\_\_ PM Schedule \_\_\_\_\_  
Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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