



## Solar Electric Design

**Program:** Electrician Technician

**Course:** EL190 – Solar Electric

**Objectives:** Under the supervision of your instructor, you should be able to do the following:

- Complete a site survey and checklist
- Design a grid-connected PV system.

**Lab Equipment:** N/A

**Required Tool:** N/A

**Material:**

- Textbook
- Pencil
- Grid paper

**Safety (PPE):** N/A

**Resources:** N/A

**Required Time:** One Day

**Shop Maintenance:**

- All work will cease 20 minutes prior to the end of class.
- All work areas must be cleaned.
- Tools and equipment must be cleaned and returned to the designated areas (cage, tool room, cabinets etc.)
- Any broken or missing tools must be reported immediately.
- Tools and equipment are students' responsibility

**Procedures:**

- Given the results of customer interview (details provided by instructor) and the sample house drawing (*Figure 1*) complete a site survey check list, (Page 48, Solar Electric Applications)
- Given a completed site assessment, design a grid-connected PV system.



*Figure 1*

