Test 1 Questions Solar Applications: Applications

1. Name three applications for solar PV.

There are a number of them in the power point.

1. What is the name of the company who made the solar powered well pump?

Sunpumps

1. Where is the pump design area found?

On a pump curve

1. Name one area that solar lighting is used.

Where grid power is not available, unreliable or too expensive.

1. Are batteries required for solar lighting?

Yes

1. Name 3 of the major components of solar powered lighting systems.

Light, PV panel, structure, batteries, charge controller and enclosure.

1. Describe what a sun chart is?

A chart that shows the path of the sun for a location for every month of the year.

1. What is the perfect type of light for solar lighting applications?

LED light emitting diode.

1. What are the two basic types of batteries used in solar lighting applications?

Lead Acid and Lithium Ion.

1. What voltage is most common in RV’s?

12 Volts DC.

1. Can the PV panel be mounted on a roof of an RV?

Yes.

1. What does BOS stand for?

Balance Of System.

1. What is the most common type of PV connector?

MC 4 connectors.

1. Do MC 4 connectors lock together?

Yes.

1. What is the purpose of a charge controller?

To take the output of the PV panel to charge the battery.

1. What is the choice material for mounting PV panels in marine environments?

Stainless Steel.

1. In security systems what helps prevent vandalism?

Placing the equipment in an elevated position.

1. Name an innovated application that solar can provide refrigeration.

Cooling medicine.

1. Stand alone solar systems normally have batteries?

Yes.

1. Stand alone systems need to be grid connected?

False.

1. Off grid systems are not grid interactive?

False.

1. Can the on grid system sell power?

Yes.

1. Where do you find a microinverter mounted?

Behind the PV panel.

1. String inverters take the energy from just one panel at a time?

False.

* 1. For a very small load, what is a very common application for PV power?

Calculators.