

Quiz 3 for Module 5: Solar Energy in Agriculture

1. Where do all renewable energy sources and nonrenewable energy sources originate from?
The sun.
2. What are the two types of energy that we can use from the sun?
Solar photovoltaic and solar thermal.
3. What type of energy do “photovoltaics” produce?
Electricity.
4. What element are photovoltaic panels made from?
Silicon.
5. What does an inverter on a PV panel do?
Converts DC power to AC power.
6. “Solar thermal” energy is used for what?
Heating (or cooling).
7. Which direction should PV panels face when in the northern hemisphere?
South.
8. What are the two most common ways to mount a PV system?
Ground and roof-mounted
9. What steps can you take on your farm to ready the farm for a solar system?
 - A. Conduct an energy audit to determine where most energy is being used.
 - B. Convert non-electric loads to electric.
 - C. Make efficiency upgrades.
 - D. All of the above.**

10. Why do solar systems have essentially zero costs in maintenance?

No moving parts.

11. Give three reasons why solar energy is a good option for use on farms.

Reliable, low maintenance, reduces energy bill, independence from fossil fuel prices, self-sufficient, clean way to produce energy, getting cheaper to install.