



pickmysolar

TRIVIA

- 1. Solar photovoltaics reduces our use of fossil fuel-based energy generation, thereby reducing greenhouse gas emissions. A single 7 kilowatt residential solar system annually reduces carbon dioxide emissions equivalent to the sequestration of emissions from:**
 - A. 4 trees
 - B. 14 trees
 - C. 140 trees
 - D. 1400 trees
- 2. Tesla just finished the largest battery pack in Australia. What was the cost per kWh of that battery pack?**
 - A. \$180 per kilowatt-hour
 - B. \$250 per kilowatt-hour
 - C. \$350 per kilowatt-hour
 - D. \$450 per kilowatt-hour
- 3. Which of the following is a true statement?**
 - A. Energy Star appliances are always the best choices.
 - B. Cleaning refrigerator coils improves the efficiency of the machine.
 - C. The higher you set your thermostat, the faster it will heat up a cold room.
 - D. One Leaky faucet in your sink can waste 200 gallons of water a month.
- 4. Which of the following is a true statement?**
 - A. Homes need to breathe, so when adding insulation it is a mistake to shut things up too tight.
 - B. Closing air conditioning vents in unoccupied rooms doesn't help with energy conservation.
 - C. Electric space heaters placed in occupied rooms during the winter are efficient because they allow you to contain your heat where it is needed.
 - D. Buying a certified energy-efficient furnace and/or air conditioner automatically ensures a reduction in energy usage.
- 5. Replacing old windows with new energy-saving ones can lead to how large of a reduction in your energy consumption:**
 - A. 10 to 20 percent
 - B. 20 to 30 percent
 - C. 30 to 40 percent
 - D. Over 40 percent
- 6. What is the cost of the cheapest solar energy produced? Where is the plant located?**
 - A. \$17.70 per megawatt-hour in Mexico
 - B. \$17.86 per megawatt-hour in Saudi Arabia
 - C. \$21.48 per megawatt-hour in Chile
 - D. \$23.56 per megawatt-hour in India
- 7. How much land would be needed to power the entire United States with solar energy?**
 - A. 1,750 square miles (0.06% of continental USA)
 - B. 17,500 square miles (0.6% of continental USA)
 - C. 175,000 square miles (6% of continental USA)
 - D. 1,750,000 square miles (60% of continental USA)
- 8. Which of the following appliances contributes the most to California's residential electricity consumption?**
 - A. Electric Vehicles
 - B. Air Conditioners
 - C. Pool Pumps
 - D. Mobile Phones, computers, and Cable Boxes.
- 9. Which of the following is the most efficient at turning hydrocarbons into electricity.**
 - A. Fuel Cell
 - B. Diesel Engine
 - C. Combined Cycle Gas Power Plant
 - D. Mobile Phones, Computers, and Cable Boxes