# EXAM EIGHT EXPECTATIONS

## ENVIRONMENTAL SCIENCE EXAM EIGHT
## "Renewable Energy and Conservation"

**STATE the regional area of the U.S. that has the greatest potential for solar power**
**STATE the largest energy consumers in an average U.S. home**
**DEFINE biogas**
**DEFINE biomass**
**DEFINE energy efficiency**
**DEFINE net energy yield**
**LIST energy sources that originated from the solar energy**
**LIST factors that effect that amount of solar radiation reaching the earth's surface**
**LIST potential fuels that can be used in fuel cell technologies**
**LIST environmental downsides associated with hydropower**
**LIST strategies employed by utility companies to save energy or reduce energy consumption**
**DISTINGUISH renewable and nonrenewable energy sources**
**IDENTIFY a fuel that is not converted from biomass**
**IDENTIFY examples and non-examples of biomass**
**IDENTIFY pros/cons to each alternative energy source discussed in your text**
**IDENTIFY the source of the most energy waste in North America**
**OUTLINE hydropower**
**OUTLINE tidal energy**
**OUTLINE geothermal energy**
**OUTLINE wind energy**
**OUTLINE ocean temperature gradients**
**OUTLINE cogeneration**
**OUTLINE solar power towers**
**OUTLINE solar ovens**
**OUTLINE geothermal heat pumps**
**OUTLINE plants use and storage of solar radiation**
**DESCRIBE the generation of electricity at night using photovoltaic cells**
**DESCRIBE photovoltaic cells**
**COMPARE alternative energies and conventional energies**
**COMPARE passive and active solar heating**
**COMPARE the competitive costs of various alternative energy sources**
**COMPARE flexible fuel vehicles (FFV's) and Plug-in hybrid electric vehicles (PHEV's)**
**EXPLAIN how homes incorporate solar passive heating**
**EXPLAIN what you & the author of your text believe is the most promising solution to our energy needs**
**EXPLAIN suitable locations fro wind farms**
**EVALUATE the agricultural production of growing one crop**
**EVALUATE the biomass as an energy source**
**EVALUATE the use of dung as fuel source**
**PREDICT the effects of monocultures**
**DISCUSS the use (potential or present) of photovoltaic cells in developing countries and or rural areas**
**DISCUSS wind as an energy source**
**DISCUSS geothermal energy**
**DISCUSS solar power**
**SUGGEST how eating habits could save energy**
**SUGGEST ways to save money on energy bills in your home (include easiest, cheapest, fastest etc)**
**DETERMINE energy saving behaviors or applications from a list of choices**
**ANALYZE a graph**