What are some common types of non depletable, potentially renewable, or nonrenewable energy resources? What are the differences between these types of resources?

Potentially renewable-

Non-depletable-

Renewable-

What is peak demand? How does it relate to energy conservation?

Tiered rate system-

Passive solar design-

Thermal inertia-

How can building design contribute to energy conservation and efficiency?

Biofuels-

Modern carbon-

Fossil carbon-

Carbon neutral-

Net Removal-

Biodiesel-

Flex-fuel vehicles-

What are advantages/disadvantages of different forms of biomass energy?

Hydroelectricity-

Run-of-the-river-

Water impoundment-

Tidal energy-

What are the trade-offs associated with using hydroelectricity compared with biomass energy?

Photovoltaic solar cells-

Concentrating solar thermal systems-

How do active and passive solar energy systems work? What are the advantages of each?

Geothermal energy-

Ground source heat pumps-

Wind energy-

Wind turbine-

How do near-offshore and land-based wind farms differ? How are they the same?

Fuel cell-

Electrolysis-

How do we obtain hydrogen for use in fuel cells?

Why is hydrogen useful as an alternative to fossil fuels?

What are the barriers to increasing our use of renewable energy sources? How are we overcoming them?

Consider a sustainable energy strategy for the U.S. What factors must be considered for a successful strategy? How achievable do you think this is in the next decade?