



Energy Resources Unit Outline

- I. Fossil Fuels
 - A. Formation
 - 1. Coal and natural gas
 - a) ancient plant (swamp) material
 - 2. Oil
 - a) ancient sea life
 - B. Mined and processed
 - 1. Coal
 - a) surface mining
 - b) underground mining
 - c) cleaned of ash, dirt, and other materials
 - 2. Oil and natural gas
 - a) deep drilling
 - b) oil processing: distillation of hydrocarbons
 - C. Environmental Impacts
 - 1. Release gases
 - a) acid rain
 - b) climate change
 - D. Human Impacts
 - 1. Drives industry
 - 2. Changing lifestyles
- II. Alternative Energy Resources: wind, solar, biofuels, hydropower
 - A. Costs and Benefits
 - 1. Environmental costs
 - 2. Financial costs (LCOE)
 - 3. Sustainability