

Study guide for EE351, 1st test

1. Identify causes of global warming and melting of ice.
2. Some economic analysis of cost of owning hybrid cars
3. LCOE for various types of power plants
4. Some NPV calculations-eg price increasing for natural gas
5. How does uncertainty affect power generation decisions?
6. Identify how fuels are used for different purposes in the US
7. Discuss various methods of home heating (eg how does geothermal heating system work)
8. Discuss various methods for reducing energy consumption in residential and commercial sectors
9. Discuss various ways of producing electric power-how can we increase efficiency of power generation
10. Discuss how solar heating can be used for residences. Make some estimates of how much collector area would be needed on a roof to heat a house. Discuss both passive and active heating systems

chap 1, 3, 4.1, 4.2, 5, parts of 11, 12