

RE007 Exercises

- Q1-Explain how can you calculate the energy used by a car.**
- Q2.Compare the energy usage for different modes of transportation.**
- Q3.Explain how to estimate the power per unit area of a wind firm.**
- Q4.Estimate fuel consumption rate of a typical aircraft.**
- Q5.Compare the total heat generated by immersion heater& solar power heater.**
- Q6.Compare the energy usage & production of car, jet flight , solar & wing system per day.**
- Q7.Explain solar farming.**
- Q8.What is energy yield ratio?**
- Q9.What is power density in wheat to ethanol?**
- Q10.Sketch sun light to Net energy conversion diagram.**
- Q11.What is typical power usage of domestic water heating system?**
- Q12.Estimate typical power usage per day of cooling, cooking and cleaning appliances.**
- Q13.Which is more energy efficient, short distance travel with several starting and stopping and long distance travel at steady speed?**
- Q14.Which type of car is the most energy efficient?**
- Q15.Explain electric vehicle.**
- Q16.Explain the principle of energy efficient building.**
- Q17.Explain combined heat & power system.**
- Q18.Describe the cost of switching fossil fuel to renewables.**
- Q19.Describe the factors contributing the energy usage of a car.**
- Q20.Describe energy losses in building structure.**
- Q21.How can you achieve the energy efficiency in an office?**
- Q22.Describe the distributed generation.**
- Q23.Explain the principle of energy efficient power generation system planning.**
- Q24.Explain Plant Auxiliary Energy Efficiency Improvements**
- Q25.What are the benefits of energy efficiency?**

