Chapter Objective

- 1. To be able to understand the need for hybrid energy system.
- 2. To be able to build hybrid energy systems for a given application.

Chapter Motivation

As each of the renewable energy sources are not available continuously and at the same energy levels, hybrid source utilization is the future solution.

Sample Questions

- 1. Why are hybrid energy based systems needed?
- 2. Give some examples of hybrid energy systems that you see in every day life?
- 3. Compare the three water heating systems one which is based on electric grid alone, one that is based on solar thermal collectors and one that is based on a combination of electric grid and solar thermal collectors.
- 4. Draw the block schematic of a hybrid electric vehicle. What are the different hybrid energies are used?
- 5. What are the advantages and disadvantages of hybrid energy based systems?