

1.2 IMPORTANCE OF RENEWABLE ENERGY SYSTEM:

1.3.1 There is a growing concern worldwide on the use of fossil fuels for the following reasons:

- (a) There is ever-increasing use of fossil fuels.
- (b) Depletion of fossil fuels is taking place at a rapid pace.
- (c) Oil crisis that happened in 1973 during that year Organization of Petrol Exporting Countries (OPEC) has put restriction on oil production and export, they also started controlling strategy on oil price resulting in energy crisis and steep rise in oil prices worldwide.

Owing to above reasons, more importance is being given to the development of alternative sources of energy such as non-conventional, renewable and environmental-friendly.

The importance of non-conventional energy resources is also increasingly felt due to the following reasons:

- ✿ The demand of energy is rapidly increasing due to fast industrialization and population growth. The conventional energy resources are insufficient to meet such growing demand.
- ✿ The conventional energy resources are non-renewable and these are depleting fast.
- ✿ The conventional energy resources cause pollution, thereby degrading the environment.
- ✿ The projects to harness large hydro resources affect wildlife, cause deforestation and affect nearby villagers due to submerging of a vast area.
- ✿ Fossil fuels are also used as raw materials in the chemical industry. There is need to conserve fossil fuels for future generation.

It is important to explore and develop renewable energy resources to reduce excessive dependence on Non-Renewable resources. The present trend is to develop Renewable resources to serve as supplement rather than alternative for Non-Renewable Resources