

Introduction to the lecture



- > Solar energy is used for direct conversion of sunlight to electricity with advantages of minimum maintenance.
- > Lecture on solar energy has 3 parts.
- ➤ Part 1 of solar energy introduces the concept of solar energy, fundamentals of solar energy, radiant energy, quantity of solar energy and advantages and disadvantages of solar energy.
- Part 2 of this lecture provides an on solar cell principles and cell manufacture.

Introduction to the lecture



- This lecture discusses the photovoltaic cell (PV), principles of solar electric system, cross section of PV cell, principles of PV cell and solar cell manufacture.
- ➤ Part 3 provides information on solar PV facts & trends i.e. world solar power production, solar cell production volume in the world and photovoltaic market.

Aim and Learning outcomes



- The aim is to introduce students to the concept of renewable solar energy system and its global production and describe the procedure to manufacture solar cell.
- >After completing of this lecture students will be able to:
 - Explain the principles that underlie various natural phenomena for the production of solar energy.
 - Develop a comprehensive technological understanding of solar PV system.

Aim and Learning outcomes



- >After completing of this lecture students will be able to:
 - >Provide in-depth understanding of PV cell design.
 - Design a basic photovoltaic system to meet energy.
 - Compare the advantages and disadvantages of solar energy production.
 - >Understand the present scenario of global solar energy production and consumption.

Talk outline



- Part-
- Introduction Solar Energy
 - Fundamentals of Solar Energy



































































