



Objectives

upon completion of this chapter, you will be able to:

1. Understand various operating costs of a power system.
2. Determine the load sharing between different generators for minimum cost dispatch.

Introduction

The efficient and optimum economic operation of electric power generation systems has occupied an important position in the electric power industry. Economic operation is very important for a power system to return a profit on the capital invested.

The optimum operation of the system involves the consideration of economy of operation, system security, emissions at a certain fossil-fuel plants. The hydrothermal coordination problem is another optimum operating problem area that has received a great deal of attention. Another factor that influences the power generation at minimum cost is transmission losses.

The most efficient generator in the system does not guarantee minimum cost as it may be located in an area where fuel cost is high. Also, if the plant is located far from the load centre, transmission loss may be higher, and hence the plant may be uneconomical.

The basic objective is to determine the generation of different plants, such that total operating cost is minimum. The operating cost plays an important role in economic scheduling.

Generator Operating Cost

The total generation cost includes fuel, labour, and maintenance costs. In case of economic load dispatch, the generations are not fixed, but they are allowed to take values within certain allowable limits so as to meet a particular load demand with minimum fuel consumption. The total cost of generation is a function of the individual generation of the sources, which can take values within certain constraints; the cost of generation will depend on system constraints for a particular load demand. In this section, we will only consider fuel costs because other costs cannot be optimised based on generation.

We usually express instead of cost (P_g), input energy rate $F(P_g)$ [Mkcal/h] because fuel cost may change daily/monthly.

Heat rate curve $H(P_g)$ is heat energy in Mkcal need to generate one unit of electrical energy (kWh). Based on experimental data for a plant the heat rate curve is plotted in Figure 3.1.



Fig. 3.1 Variation of Cost and Heat Rate with Power

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