

Economic Dispatch in Power Systems

A comparison between vertically integrated and liberalized markets

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Abstract—Economic Dispatch is an important optimization problem in power system planning. This article presents an overview of the economic dispatch problem, its formulation, and a comparison of addressing the problem between the vertically integrated market and the liberalized market environments.

Keywords—Economic Dispatch; Dispatch Centre; Vertically Integrated Markets; Liberalized Markets

I. INTRODUCTION

Consider a system consists of N generating units serving an electrical load as shown in Fig. 1. In this system there are multiple types of fuel input used to operate the power plant e.g. (Hydro, Gas, Steam, Diesel, Nuclear, Coal, Solar, Wind... etc.). Knowing that the power systems should be operated under a high degree of economy so that the system will be operated at minimum cost; therefore the economic dispatch concept will tell how much should be the output of each generator so that the total operating cost is minimized.

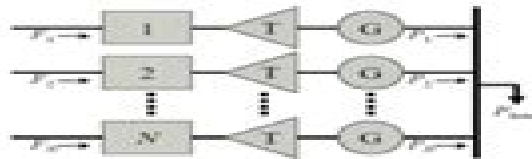


Fig. 1. N Generating Units Serving an Electrical Load [1]

II. ECONOMIC DISPATCH FORMULATION

A. Economic Dispatch Definition

The purpose of the economic dispatch is to schedule the outputs of all available generation units in the power system such that the fuel cost is minimized while system constraints are satisfied. Also it can be explained as the process of allocating generation among the committed units such that the constraints imposed are satisfied and the energy requirements are minimized.

Furthermore, the economic power dispatch for interconnected power system can be explained as the process of finding the total real and reactive power schedule of each power plant in such a way as to minimize the operating cost. This means that the generator's real and reactive power is

allowed to vary within certain limits so that it can meet the demand with minimum fuel cost. This is called the optimal power flow. The optimal power flow is used to optimize the power flow solution of large scale power system. This is done by minimizing selected objective functions while maintaining an acceptable system performance in terms of generators capability limits and the output of the compensating devices [1].

It is useful to divide economic dispatch practices in two separate stages: unit commitment and unit dispatch. Unit commitment takes place before real-time operation and determines the set of generating units that will be available for dispatch. Unit dispatch occurs in real time and determines the amount of generation needed from each available unit [2].

B. Objective of the Power Economic Dispatch

The Main objective of the power economic dispatch is to find the total power generation output so as to minimize operating cost. Beside the main objective, there are also numbers of objectives listed as follows:

- To schedule the committed generating units outputs so as to meet the required load demand at minimum operating cost while satisfying all units and system equality and inequality constraints [3].
- Minimization of the emissions (the gaseous emission such as SO_2 , NO_x , CO and CO_2 produced by thermal power plants) ;
- Maximization of the profit by reducing the total cost.
- Maintain System Stability and Security Constraint.

Economic Dispatch Mathematical formulation

➤ The objective function of an ED problem is to:

$$\bullet \text{ Minimize } F_{cost} = \sum_{i=1}^N F_i(P_i) \quad (1)$$

where usually the operating cost of each generator when generating a specific output power is modeled as

$$\bullet F_i(P_i) = a_i + b_i P_i + c_i P_i^2 \quad (2)$$

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