

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 systems 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 Curve; 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.

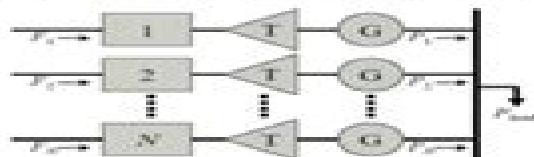


Fig. 1. N Generating Units Serving an Electrical Load [1]

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 SO₂, NO_x, CO and CO₂ 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:

$$\bullet \quad \text{Minimize } F_{\text{cost}} = \sum_{j=1}^{N_g} F_j(P_j) \quad (1)$$

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

$$\bullet \quad F_j(P_j) = a_j + b_j P_j + c_j P_j^2 \quad (2)$$

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Table of Contents Economic Dispatch In Power System Manual Solution

1. Understanding the eBook Economic Dispatch In Power System Manual Solution
 - The Rise of Digital Reading Economic Dispatch In Power System Manual Solution
 - Advantages of eBooks Over Traditional Books
2. Identifying Economic Dispatch In Power System Manual Solution
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Economic Dispatch In Power System Manual Solution
 - User-Friendly Interface
4. Exploring eBook Recommendations from Economic Dispatch In Power System Manual Solution
 - Personalized Recommendations
 - Economic Dispatch In Power System Manual Solution User Reviews and Ratings
 - Economic Dispatch In Power System Manual Solution and Bestseller Lists

5. Accessing Economic Dispatch In Power System Manual Solution Free and Paid eBooks
 - Economic Dispatch In Power System Manual Solution Public Domain eBooks
 - Economic Dispatch In Power System Manual Solution eBook Subscription Services
 - Economic Dispatch In Power System Manual Solution Budget-Friendly Options
6. Navigating Economic Dispatch In Power System Manual Solution eBook Formats
 - ePUB, PDF, MOBI, and More
 - Economic Dispatch In Power System Manual Solution Compatibility with Devices
 - Economic Dispatch In Power System Manual Solution Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Economic Dispatch In Power System Manual Solution
 - Highlighting and Note-Taking Economic Dispatch In Power System Manual Solution
 - Interactive Elements Economic Dispatch In Power System Manual Solution
8. Staying Engaged with Economic Dispatch In Power System Manual Solution
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Economic Dispatch In Power System Manual Solution
9. Balancing eBooks and Physical Books Economic Dispatch In Power System Manual Solution
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Economic Dispatch In Power System Manual Solution
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Economic Dispatch In Power System Manual Solution
 - Setting Reading Goals Economic Dispatch In Power System Manual Solution
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Economic Dispatch In Power System Manual Solution
 - Fact-Checking eBook Content of Economic Dispatch In Power System Manual Solution
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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