

Should WT be used in microgrid dispatch?

WT is environmental protection and economy, so WT should be used to the maximum extent in microgrid dispatch.

What is ADP based economic dispatch?

Abstract: This paper proposes an approximate dynamic programming (ADP)-based approach for the economic dispatch (ED) of microgrid with distributed generations. The time-variant renewable generation, electricity price, and the power demand are considered as stochastic variables in this paper.

How can CCHP microgrids be decomposed into a main problem?

It can be decomposed into main problem from virtual coordinator, i.e., energy pool and sub-problems from CCHP microgrids by using GBD to solve the distributed optimization problem, and only tie-line power and benders cut need to be exchanged between the main problem and sub-problems.

How to promote cooperation between microgrids?

Compared with adding SC, cooperative operation among microgrids can fairly distribute the expenses of each microgrid, about 10%~30% discount compared with that of independent operation. Thus, fair cost allocation is essential to guarantee the economic stability of MGC coalition, and promote the cooperation between microgrids. Table 4.

What is decentralized economic dispatch?

The decentralized economic dispatch aims at optimizing the total expenses of the whole MGC where each microgrid must do a cooperation to complete a common objective. To ensure the economic stability of MGC coalition, it is a necessity to fairly allocate these expenses among each microgrid.

What are stochastic variables in a microgrid?

The time-variant renewable generation, electricity price, and the power demand are considered as stochastic variables in this paper. An ADP based ED (ADPED) algorithm is proposed to optimally operate the microgrid under these uncertainties.

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