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Abstract
To handle the correct characteristics of wind turbine is an important issue in the planning of wind power production. The wind power production is fluctuated in the different topographical, environments, even season.
The thesis is to derive the wind power planning by with its power curve of Loss of load Hours (LOLH) was used to constrain the optimization problem, the optimal allocation for wind turbine & storage battery can be achieved to complete the problems of wind generation planning. The Lagrange equation formulate the constrained optimization problem. The wind data of year 2006 from Tainan Yongkang weather station were tested to show the possible wind generation allocations in the terrain of Tainan Yongkang. Simulations with detailed discussions show the effectiveness of results on the optimal allocations for wind turbine/BTY.
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