عنوان مقاله:

Optimal Design of A Wind Farm Accompanied by A Simultanous Stability Verification

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خلاصه مقاله:

This paper studies the economic evaluation of a grid connected wind farm for Zabol, a city in the southeastern part of Iran. The wind farm concept has been looked from the businesspoint of view where investors try to produce electricity energy as cheap and clean as possible and consequently gain more benefits.A sensitivity investigation has been performed to model inflation rate uncertainties and the wind farm capacity options. Finally,based on the most economical case a stability analysis has been conducted in Simulink (MATLAB) to verify the stable operationof the wind farm during a fault and the results have been discussed.

کلمات کلیدی:

Hybrid Energy Systems (HES), Wind Farm(WF), Economic Feasibility, Net Present Cost (NPC), Environmental Issues, StabilityAnalysis