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Abstract

In this paper, the Ant Colony Optimization (ACO) based Optimal Power Flow (OPF) analysis implemented using MATLAB® is applied for the Iraqi Super High (SHV) grid, which consists of (11) generation and (13) load bus connected to each other with 400-kV power transmission lines. The results obtained with the proposed approach are presented and compared favorably with results of other approaches, like the Linear Programming (LP) method. All data used this analysis is taken from the Iraqi Operation and Control Office, which belongs to the ministry of electricity.

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Keywords

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