To meet the growing load demand and provide reliable power supply, competition is introduced in the operation of electrical power market. In this scenario, the generators are submitting their energy bids in different time blocks. The market power for the corresponding load demand is determined from the submitted generators bids. In this paper, the total production cost for the corresponding load demand is determined from the generators bids and the corresponding power flow is demonstrated on 26 bus practical utility system. The obtained results proved that the proposed method is effective in the determining the generator operating settings from their submitted bids for the corresponding load demand.


Index Terms

Computer Science

Algorithms
Key words
Competitive environment  Bids  Market power
Load demand