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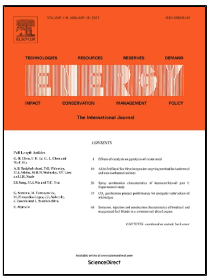

Optimal Energy Pricing for Integrated Natural Gas and Electric Power Network with Considerations for Techno-Economic Constraints

K. Amirnekooei, M.M. Ardehali, A. Sadri

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Research Highlights

- Natural gas (NG) and electricity prices are interdependent.
- Optimal pricing of NG and electricity is simulated for an integrated network.
- Results confirm that price of NG affects that of electricity and vice versa.
- Electricity locational marginal price is a function of generation cost as well as network contingency status.
- Efficiency improvement for power plant can decrease Electricity locational marginal price.

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