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An Integrated Market for Electricity and Natural Gas Systems with Stochastic Power Producers

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Highlights

- An integrated market for electricity and natural gas systems is proposed.
- Uncertain power supply is efficiently handled by utilizing stochastic programming.
- A novel approach to model the natural gas system with linepack is considered.
- The proposed model reveals the inherent flexibility of the natural gas system.
- A coupled operation of energy systems facilitates renewable energy integration.

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