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Linepack Planning Models for Gas Transmission Network under Uncertainty

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Highlights

- We investigate linepack planning problems for gas network under transient state.
- We build a model for minimising total deviation of planned and targeted linepacks.
- We develop a total cost minimisation model for resolving gas deficits.
- Linepack planning problem under supply shortfall and compressor failure is studied.
- A case study at National Grid is used to evaluate the efficiency of the models.

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