Mikkel Jonas Bak

District Energy Engineer · Heat Networks

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Summary

Energy engineer analysing heat network performance across generation and connected buildings. Turns metered data into proposals that operators can verify without disrupting service.

Skills

Heat networks · Meter data validation · Heat pump feasibility · Commissioning review

Projects

Low return temperature trial

2025

Worked with operators at six substations to test control changes. Median return temperature fell by 4 °C across matched operating weeks.

Experience

District Energy Engineer

West Quay Heat Partners | 2021-10 – Present

- Built a baseline for 28 connected buildings and prioritised investigations by excess return temperature and metered heat demand.
- Compared operating scenarios for a proposed heat pump connection. Documented seasonal flow assumptions and separated fuel estimates from contracted tariffs.
- Reconciled the handover meter list with the controls contractor. Resolved eight mismatches before the client accepted the trend logs.

Graduate Energy Engineer

Hedebrook Building Performance | 2018-09 – 2021-09

- Checked heat balance spreadsheets against commissioning records and documented meter gaps for the reviewing engineer.
- Built monthly plant dashboards with weather-normalised demand and flagged suspect readings before issuing reports.

Languages

Danish · English

Education

MSc Energy Engineering

North Sound Technical University | 2018