



CHP Outreach Workshops

Programme: Reducing Energy Costs with Combined Heat & Power

London 10th March 2015



CITYWEST HOMES

The Pimlico District Heating Undertaking - CHP operations

David Wickersham

A brief history...



Quality *homes* in great *communities*



CITYWEST HOMES

A brief history...

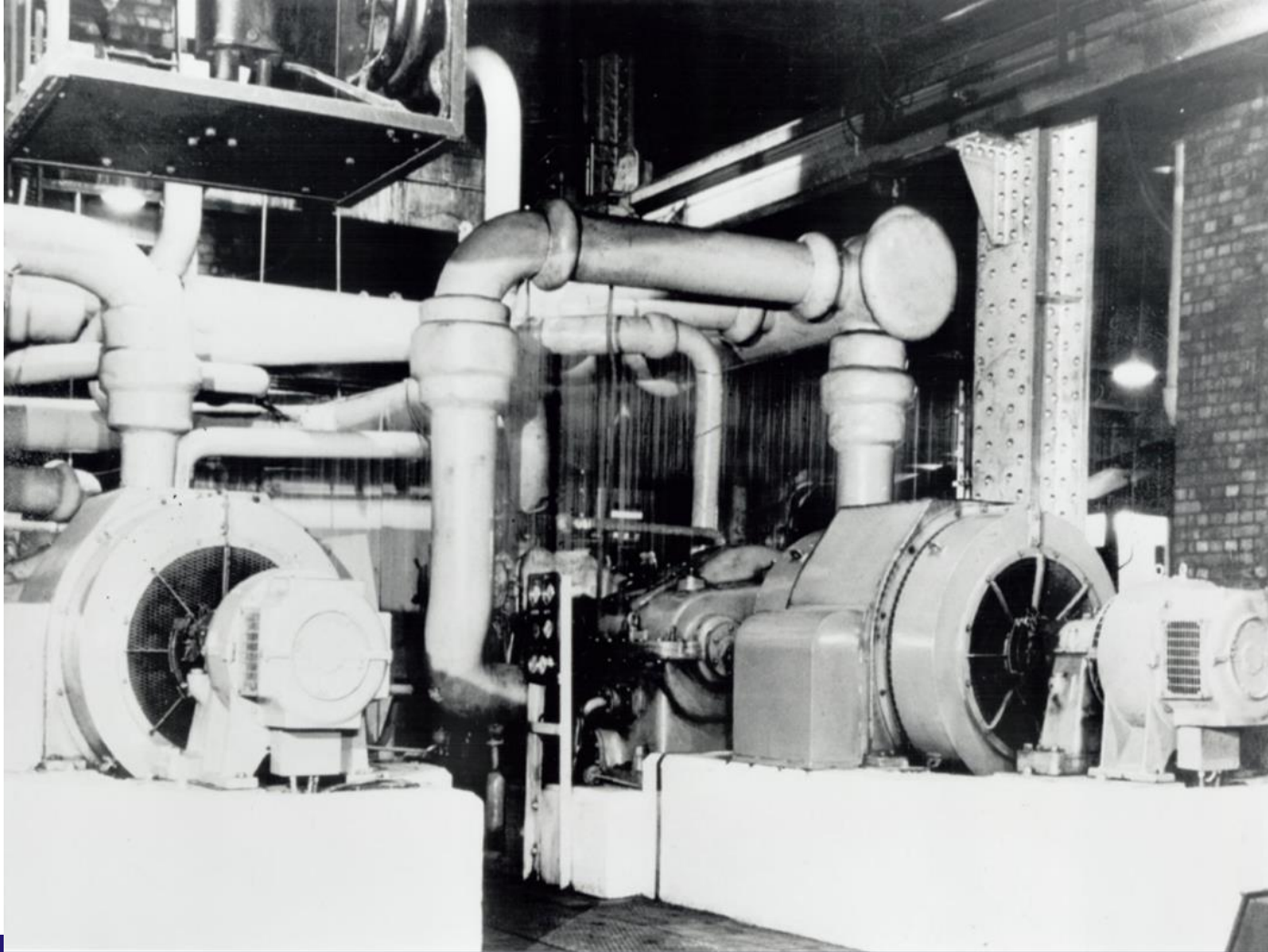


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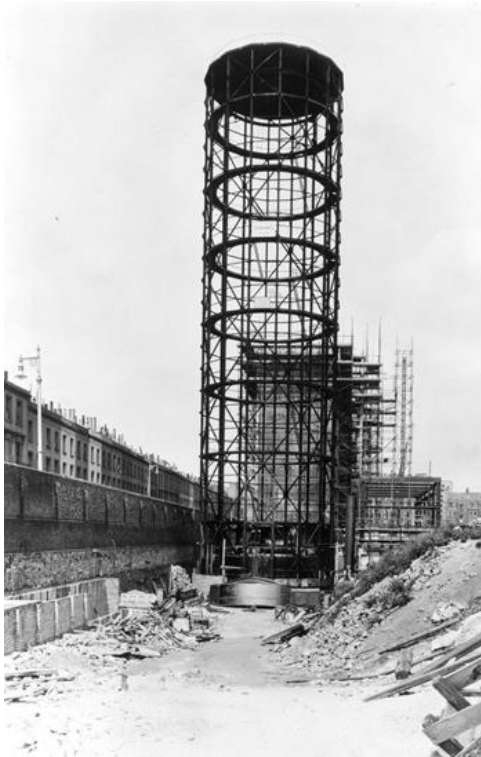


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PDHU today...



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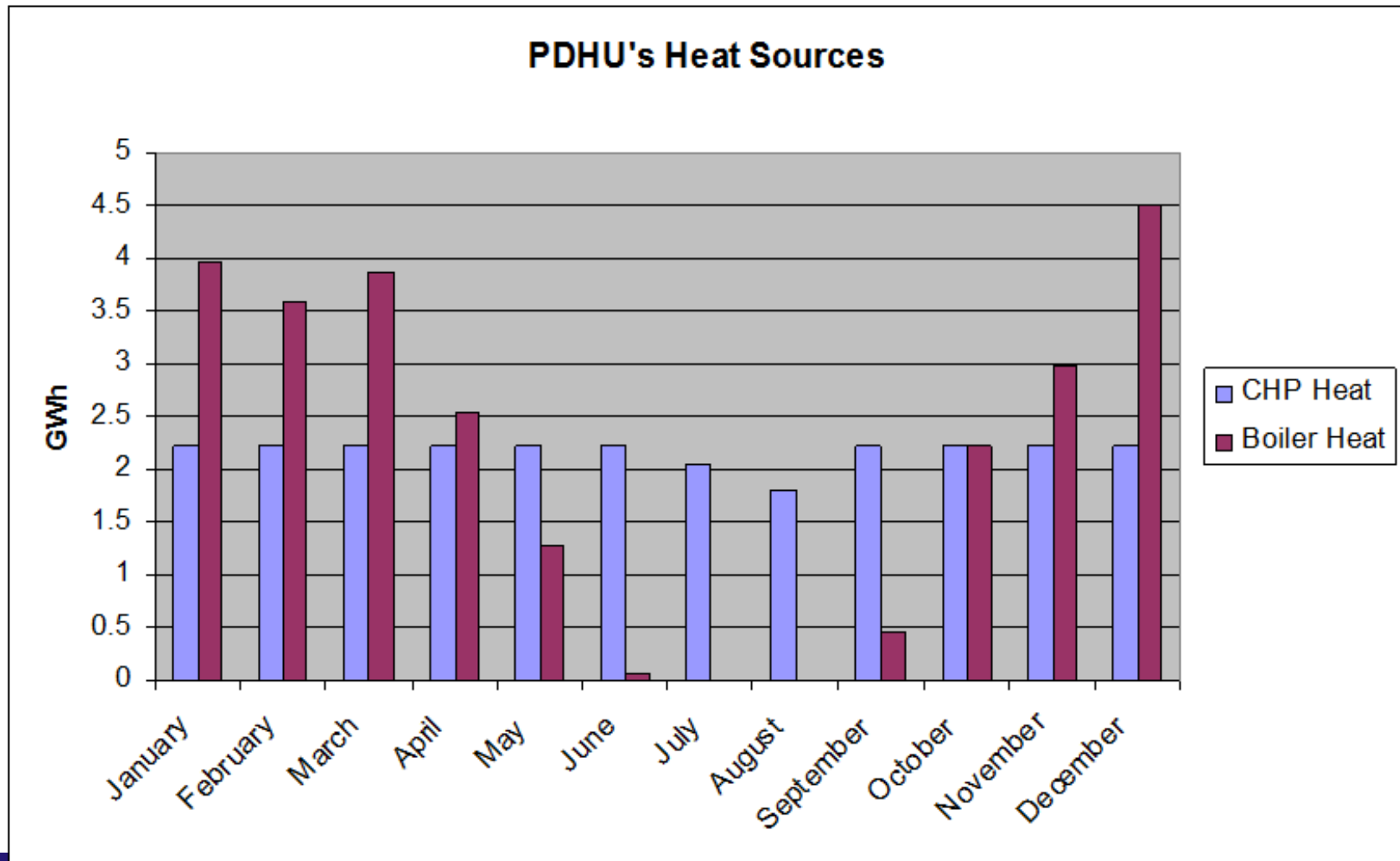


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PDHU today...



PDHU today...

- 3,299 homes
- 40 small commercial premises
- 3 schools
- 51GWh pa heat requirement
- Not-for-profit
- £3m turnover

PDHU today...

- 2 x 1.6MWe natural gas CHP engines
- CHP installation cost £2.5m
- Electricity export 14GWh pa
- Marginal cost of gas 2.1p/kWh
- Engine maintenance 1.3p/kWh
- Wholesale electricity 6.4p/kWh
- Heat price <5.2p/kWh

Operational issues...

- **Noise**
- **Dispersion analysis and air quality**
- **Engine maintenance and availability**
- **Electricity wholesale and retail tariffs**

PDHU, the future...

- **Engine availability of 90%+**
- **3rd engine**
- **Supply licence exemption**
- **Displacement of retail electricity tariff**
- **Network expansion**



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