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Hydrogen House

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SCRATCH Workshop – 16/09/09

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# **FARADAY FILMS 2010**

## **Hydrogen House**

**Rough cut with guide audio**

**Dur: 6 mins 36 secs**

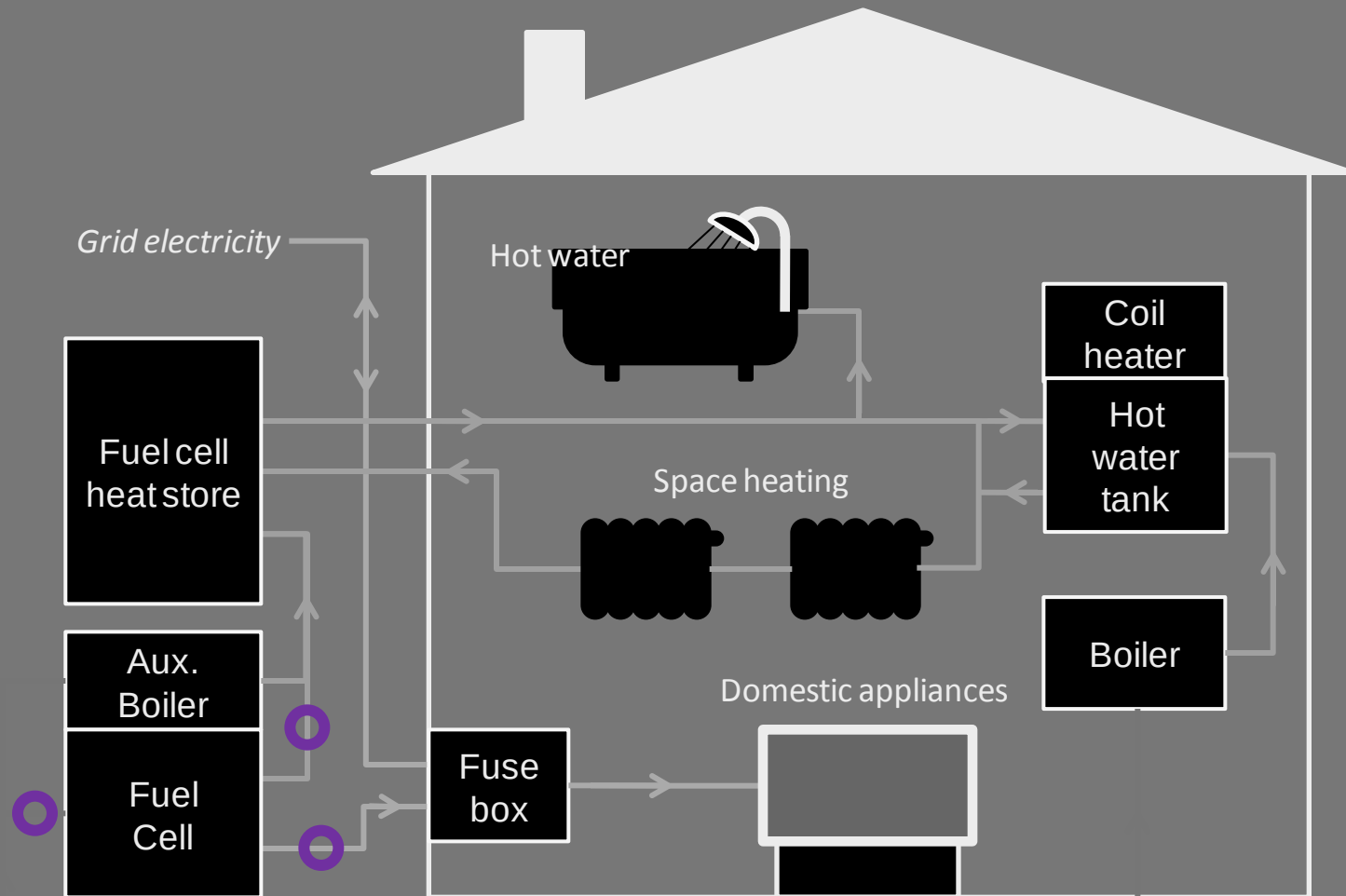
**Date: 10 September 2009**

# Results from the Baxi Field Trial



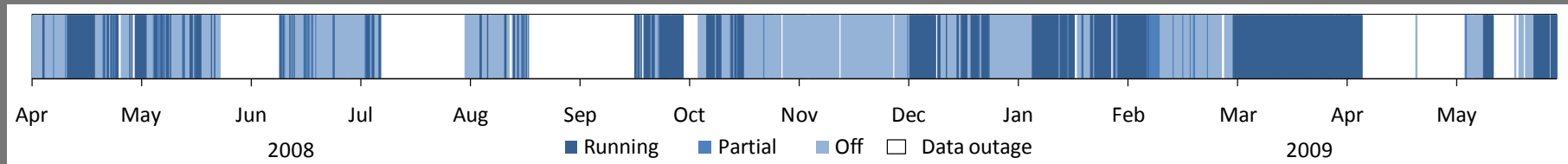
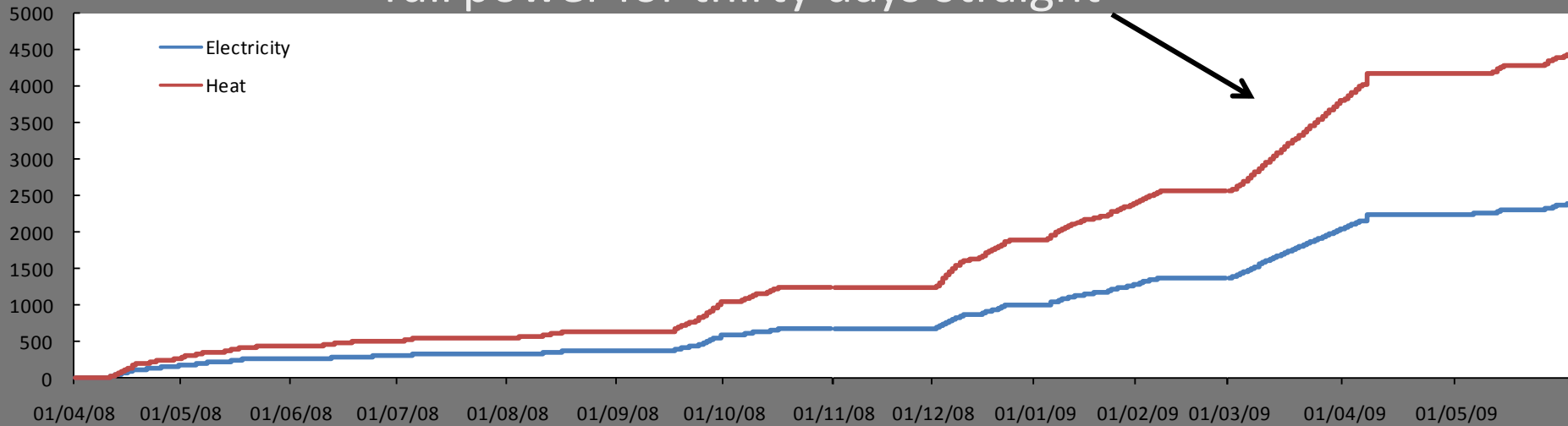


# Heating and electrical integration



# Operating status

Fuel cell set to run constantly at full power for thirty days straight

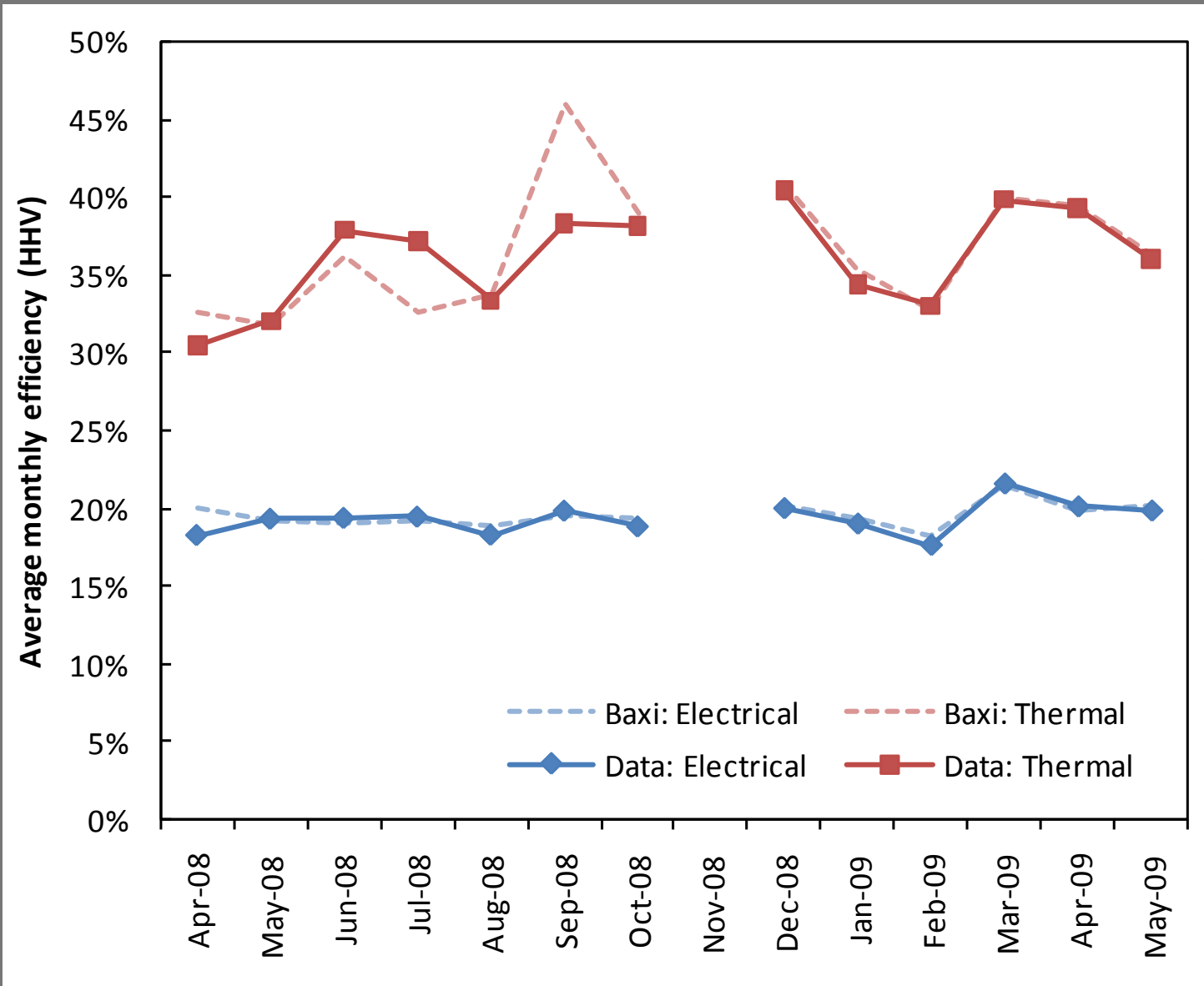


Interruptions to the field trial  
(maintenance, comm. errors)

Fuel cell turned off for 2 months  
(concerns about running costs)



# Average efficiency



30-40%  
thermal

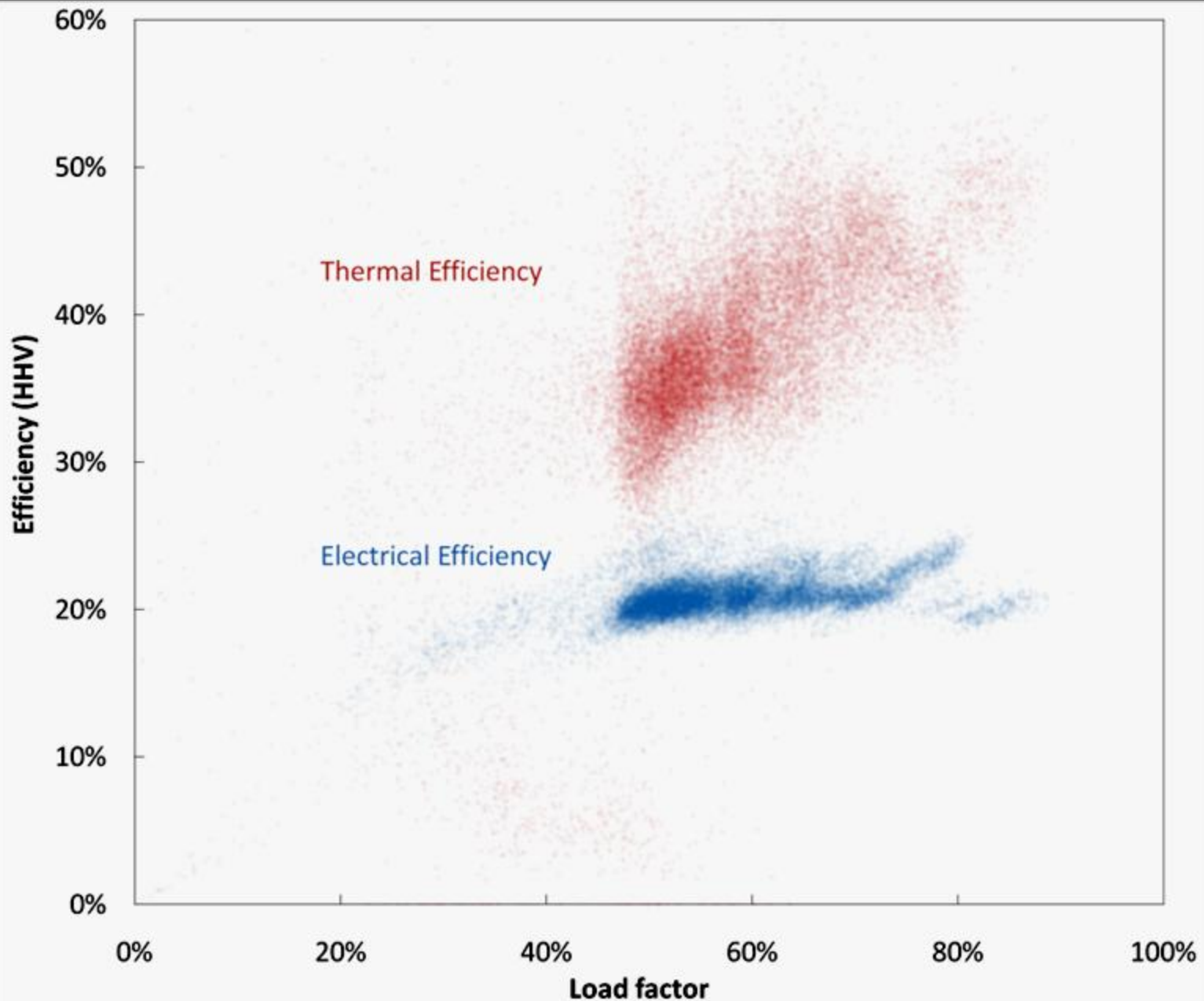
+

18-21%  
electrical

**48-61%**  
total

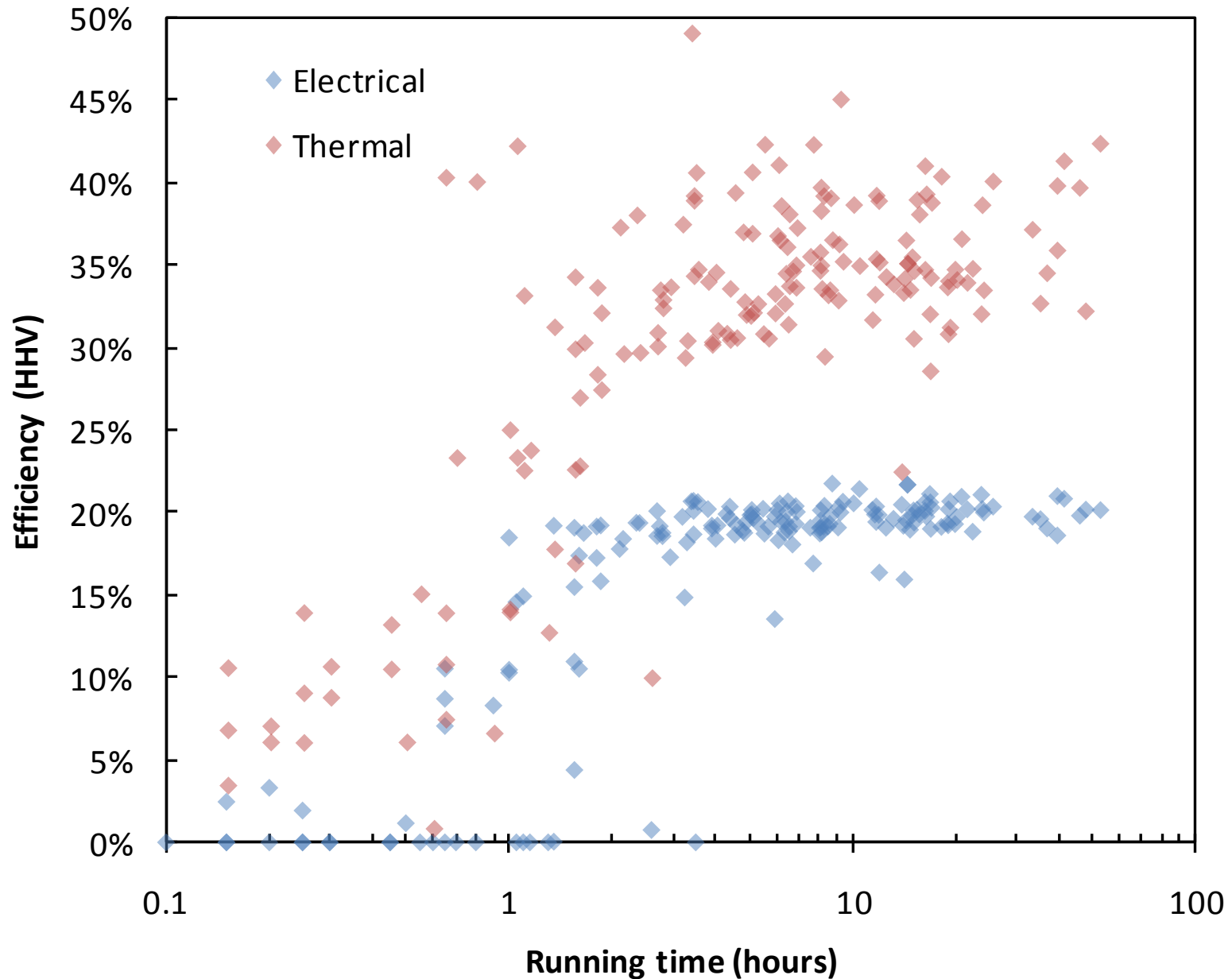
NINE  
BIRMINGHAM

# Efficiency vs. power output

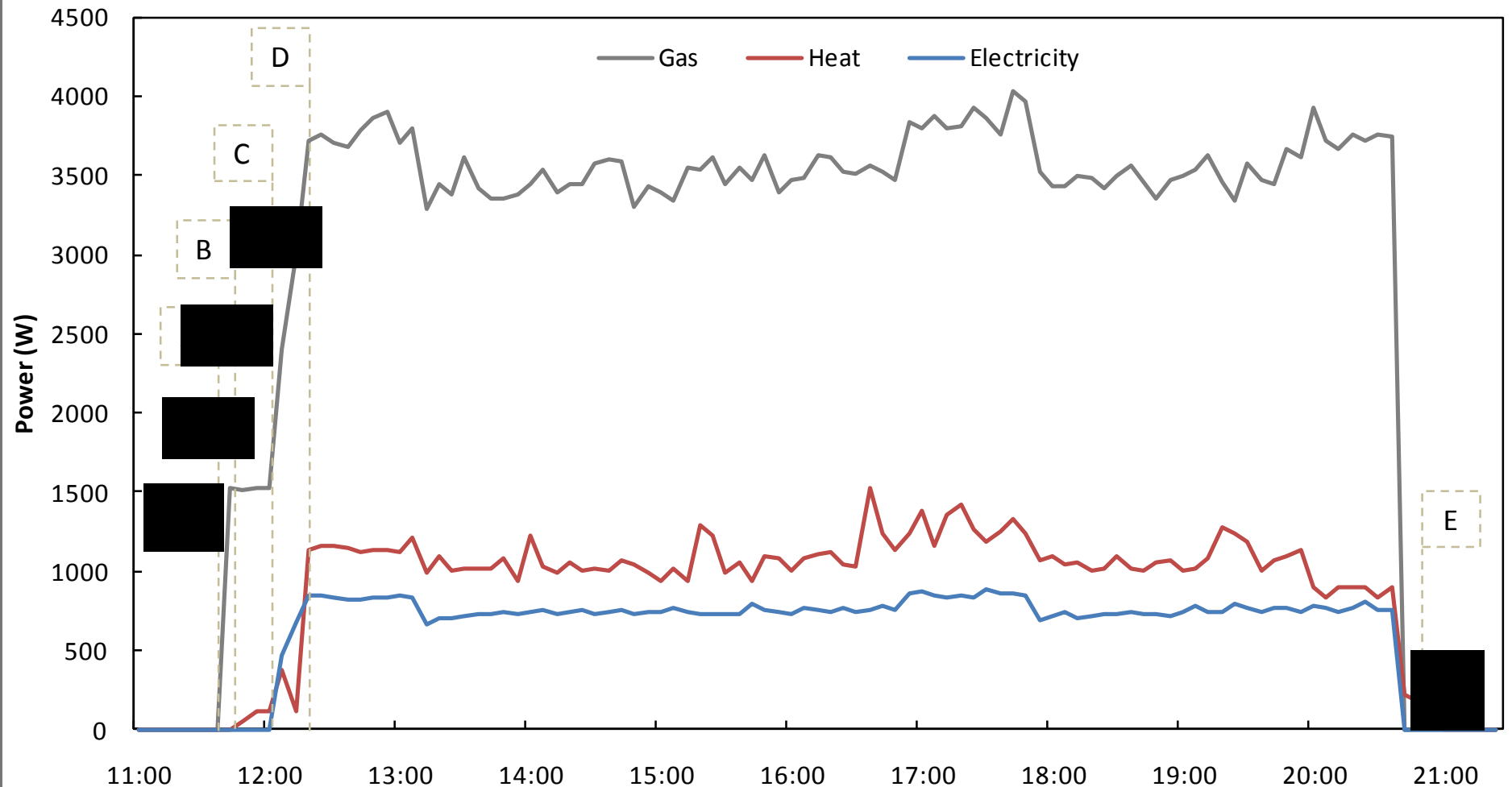




# Efficiency vs. running time



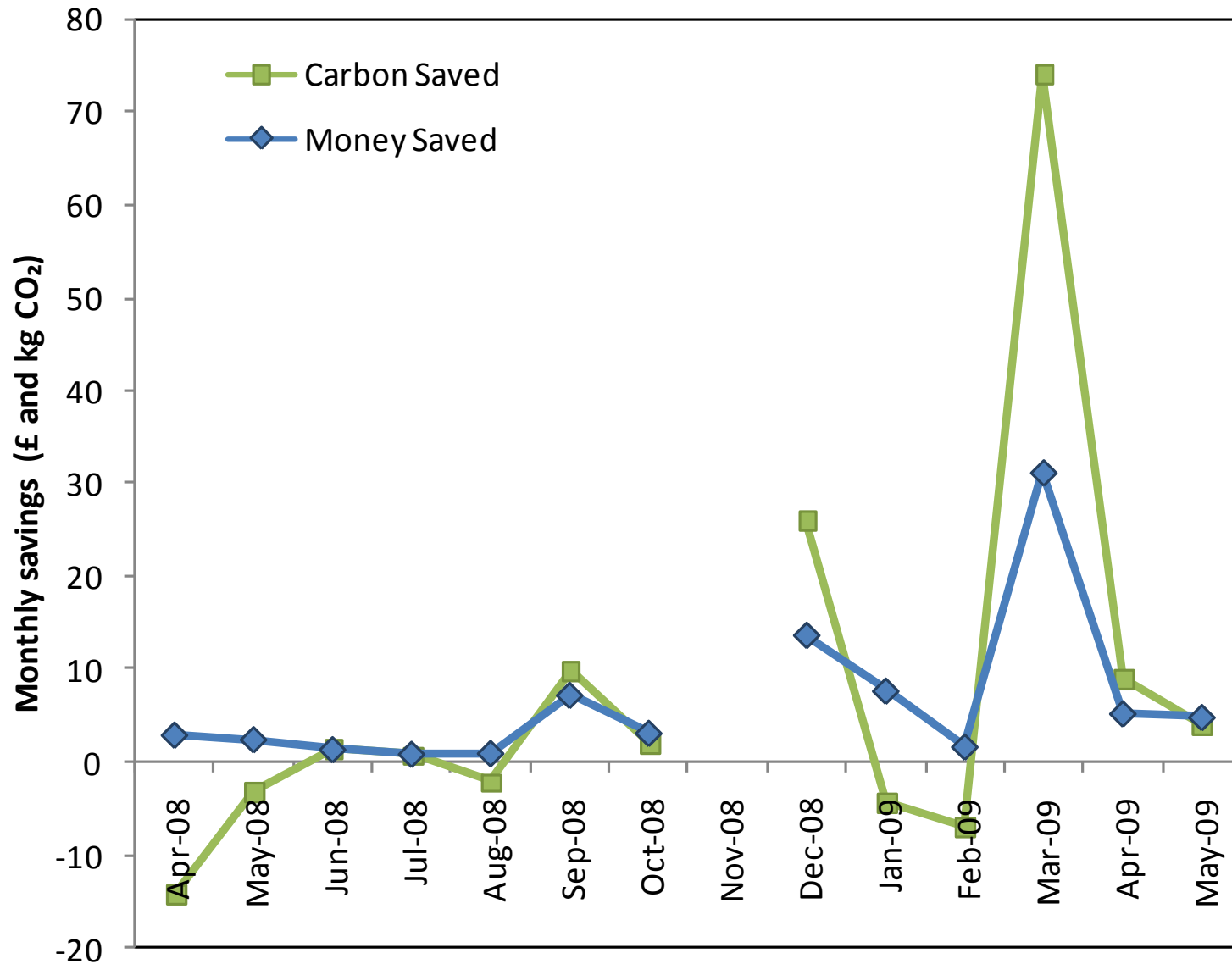
# Start-up profile



# Overall benefits

£84 on fuel bills

96kg of CO<sub>2</sub> emissions





The next step . . .

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