



Data-Driven Innovation: Gas Usage Dashboard for Cremators

APSE CEMETERIES AND CREMATORIA SERVICE INNOVATION AWARD 2026

Context & Challenge

- FTIII cremators commissioned in 2023.
- Increasing energy costs.
- Gas usage previously monitored manually.
- Limited real-time insight and delayed identification of inefficiencies.



The Innovation

- Bespoke gas-usage dashboard.
- Built from weekly FTIII cremator reports.
- Automated capture and visualisation.
- Replaced retrospective logbook methods.
- Enables proactive, real-time oversight.

Manager Weekly Efficiency Report Sat Aug 09 23:00:21 2025

Chilterns Crematorium

Cremator number: 2 FTIII Cremator

General Operational Performance

Total Cremations for the week 31

Time Efficiency 71.1 % (Cremating time against waiting time)
Gas Efficiency 72.1 % (Cremating fuel against waiting fuel)
Machine Efficiency 65.0 % (Based on 5 cremations per day)
Cremation Efficiency 60.7 % (Based on a 90 min average cremation time)

Overall Operational Performance Rating 67.2 %

Fuel Data (If meter fitted)

Fuel Price 7.30 p/kWh (Fuel type 0 = NG, 1 = LPG) 0

Total Fuel 1250.1 m3 (13376.0 kWh)
Total Fuel Cost £976.45

Preheat Fuel Used 403.6 m3 (4318.5 kWh)
Preheat Fuel Cost £315.25

Preheat Over run Fuel used 95.0 m3 (1016.5 kWh)
Preheat Over run Fuel cost £ 74.20

Cremation Fuel Used 520.6 m3 (5570.4 kWh)
Cremation Fuel Cost £406.64

Cremation Inactivity Fuel Used 240.6 m3 (2574.4 kWh)
Cremation Fuel Cost £187.93

Ash Out Fuel Used 13.4 m3 (143.3 kWh)
Ash Out Fuel Cost £ 10.46

Standing Fuel Used 41.4 m3 (442.9 kWh)
Standing Fuel Cost £ 32.33

Fuel per Cremation 16.7 m3
Cost per Cremation £13.11

Total Fuel per Cremation 40.3 m3
Total Cost per Cremation £31.49

Week CO2 equivalent emissions 2449.9609812 kgCO2e
Note - all kWh figures are expressed as gross values as is CO2e



Crematoria Dashboard

Gas Usage Summary

Financial Year: 2025/2026

Financial QTR: Q4



Total Cremations QTR compared with LQTR and LYQTR

788

Last QTR: 644 (+144)
QTR LY: 813 (-25)

Total Fuel Cost QTR compared with LQTR and LYQTR

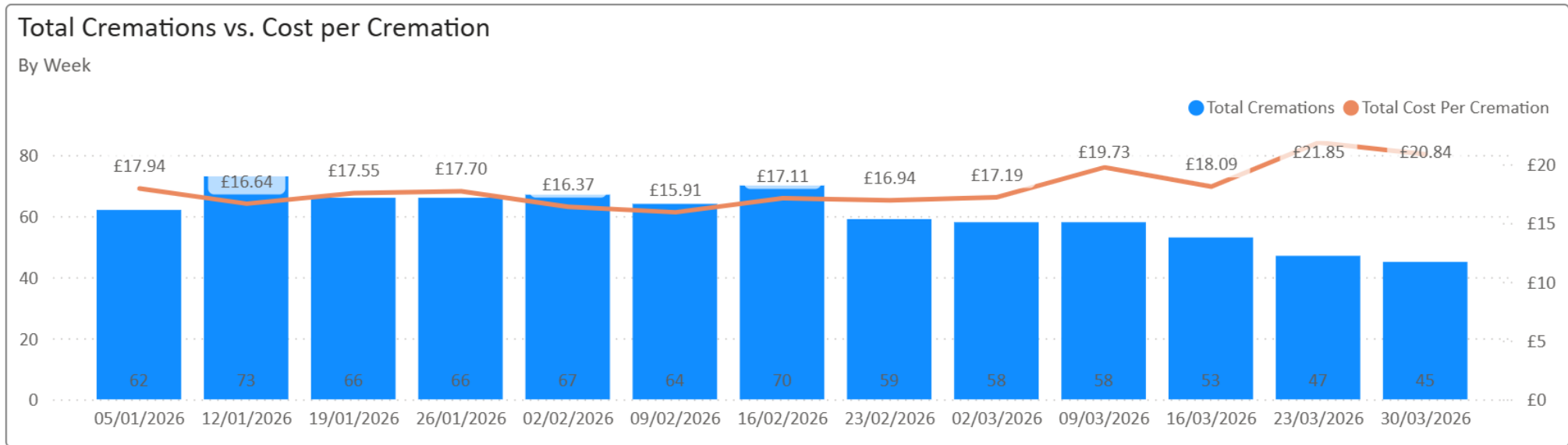
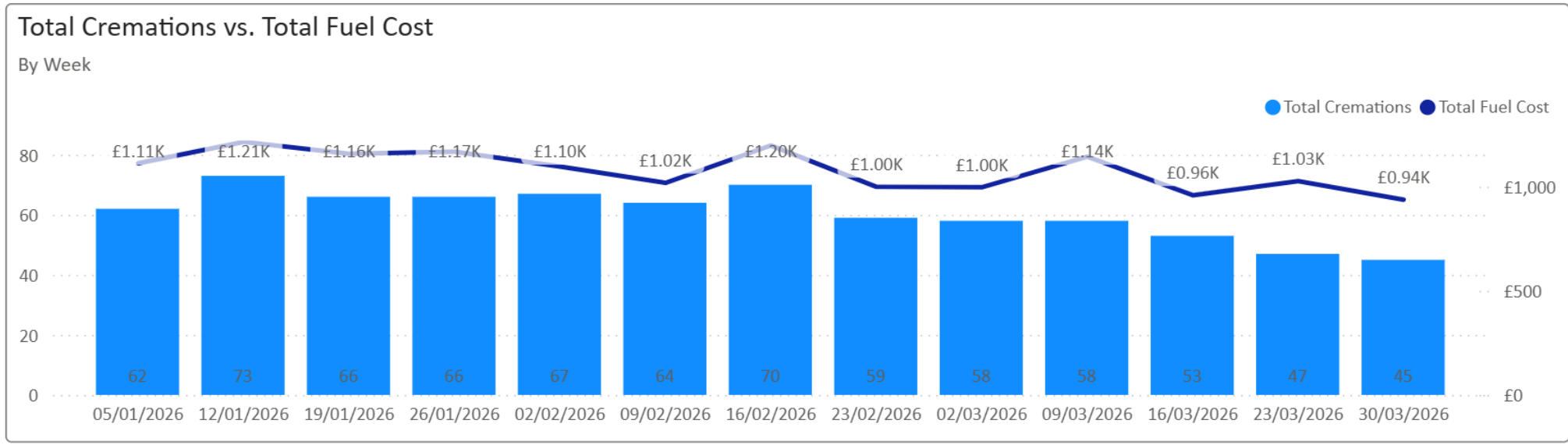
£14,031.35

Last QTR: £11,169 (+£2,862)
QTR LY: £14,522 (-£491)

Avg Cost Per Cremation QTR compared with LQTR and LYQTR

£17.81

Last QTR: £17.34 (£+0.46)
QTR LY: £17.86 (£-0.06)



What the Dashboard Delivers

- Utilised across the service.
- Supports transparency, shared ownership and informed operational decisions.
- Objective tool to encourage positive change.



Operational & Compliance Impact



Service resilience



Improved operational oversight.



Early identification of abnormal gas usage.



Robust, auditable records for compliance reporting.



Faster intervention, reduced downtime.



Reduced energy waste and inefficiency.

19/01/2026

Selected Week Start Date

66

Total Cremations

£1,158.18

Total Fuel Cost

£17.55

Avg Cost per Cremation

£17.43

Average Cost per Cremation (FY)

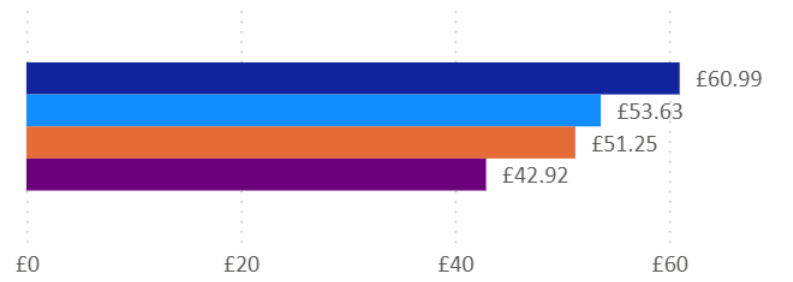
Preheat Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year



Preheat Overrun Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year



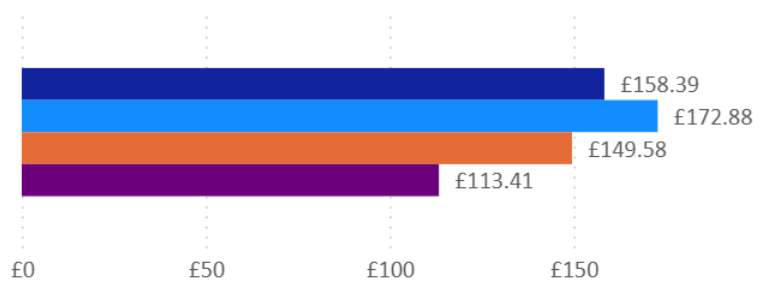
Cremation Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year



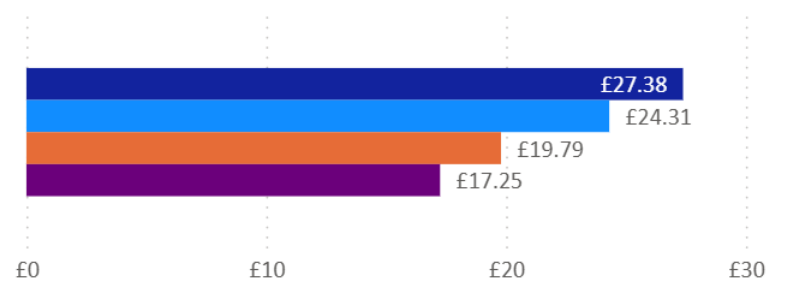
Cremation Inactivity Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year



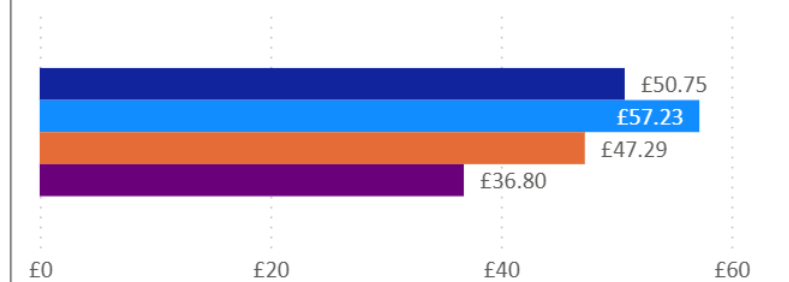
Ash Out Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year



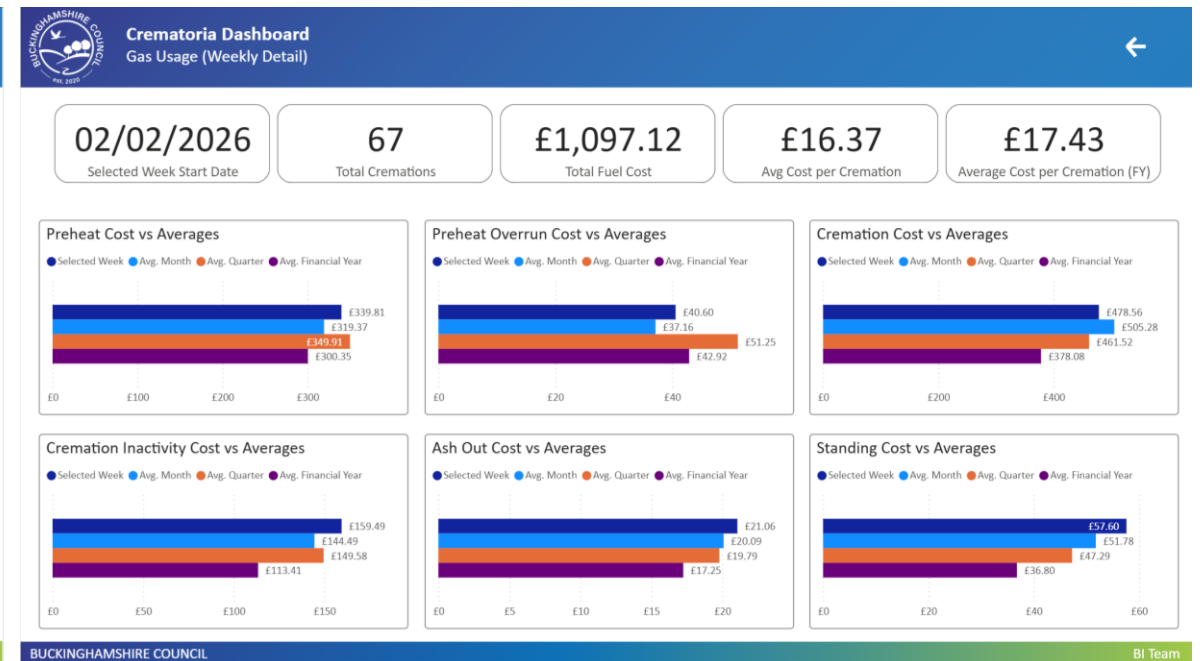
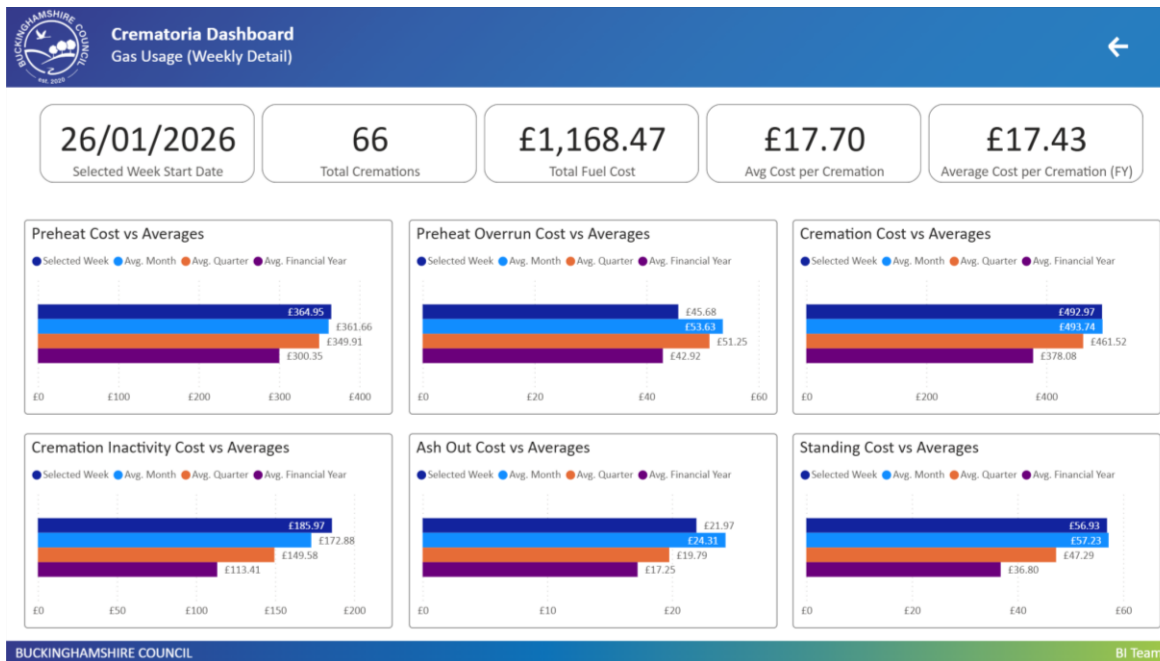
Standing Cost vs Averages

Selected Week Avg. Month Avg. Quarter Avg. Financial Year

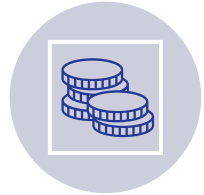


Workforce & Training Benefits

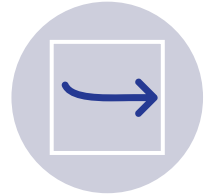
- Clear link between actions and outcomes.
- Objective data to support training and coaching.
- Targeted skills development.



Financial Outcomes



Proven cost savings



Sustained reduction in gas consumption.



£5.77 saving per cremation in the first two quarters.



Over £5,300 saved across two quarters.



Continuous improvement enabled through weekly reporting.



Supports delivery of cost-effective public services.

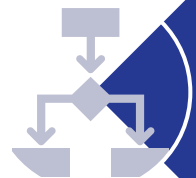
Strategic Value & Conclusion



Delivers operational, financial, and environmental benefits.



Strengthens workforce capability.



Embeds data-driven decision-making.



Scalable across other crematoria and services.

Any questions?

