



EDUCATION CASE STUDY

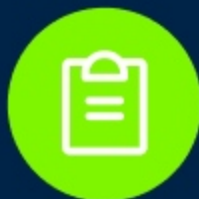
Reducing Energy Waste Through Smarter Hot Water Monitoring

Real-time visibility.
Lower energy costs.
Smarter school operations.



The Challenge

A secondary school was storing hot water at 70°C continuously, day and night.



Manual temperature checks were completed



Systems appeared to be operational



No obvious faults reported



Controls assumed to be working correctly



The excessive energy usage remained hidden.



The Challenge

(CONTINUED)

Without continuous monitoring,
the site experienced:



Unnecessary energy
consumption



Increased operational costs



Excessive system runtime



Limited visibility into actual
performance



The issue wasn't equipment
failure — it was a lack of visibility.

Our Approach

To understand system behaviour more clearly, we introduced:



Remote temperature monitoring



Real-time visibility across the system



Automated data tracking



Timed operational controls



Water Temperature (°C)



58.7°C

Current Temperature



This allowed the school and engineers to identify inefficiencies instantly.

What We Discovered

Within days, the data revealed:

- 1 Hot water was being maintained at 70°C continuously
- 2 Heating schedules were operating unnecessarily outside active school hours
- 3 Energy was being wasted overnight, weekends, and holidays

Hot Water Temperature (°C)



Hot water was being heated when there was no demand.

The Solution

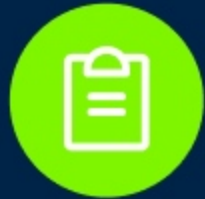
Based on the findings, we implemented:



Unnecessary energy consumption



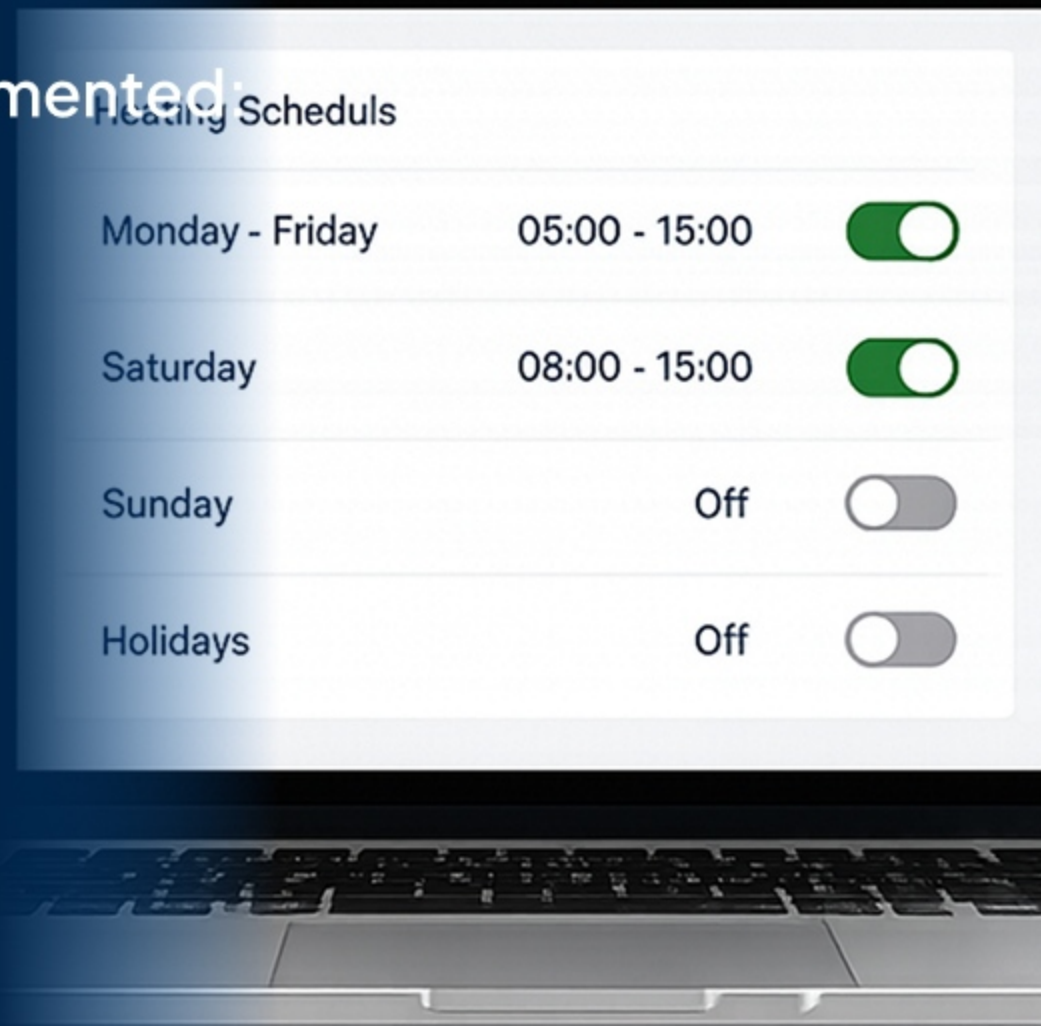
Increased operational costs



Excessive system runtime



Limited visibility into actual performance



This allowed the school and engineers to identify inefficiencies instantly.



Schedule



Monitor



Optimise



The Result



£300 – £1,200



66% reduction in site visits



Improved compliance
visibility



Reduced unnecessary
system runtime



Better operational efficiency



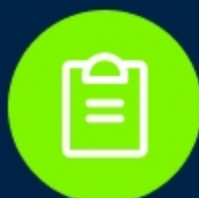
Smarter monitoring delivered immediate operational improvements without major capital spend.



Key Takeaway



Many schools waste energy without realising it.



Periodic checks can miss system behaviours happening outside normal operating hours.



Continuous monitoring provides the visibility needed to reduce waste, improve compliance, and lower operating costs.

Better visibility.
Smarter decisions.
Stronger schools.

That's the power of
Managed Water.

