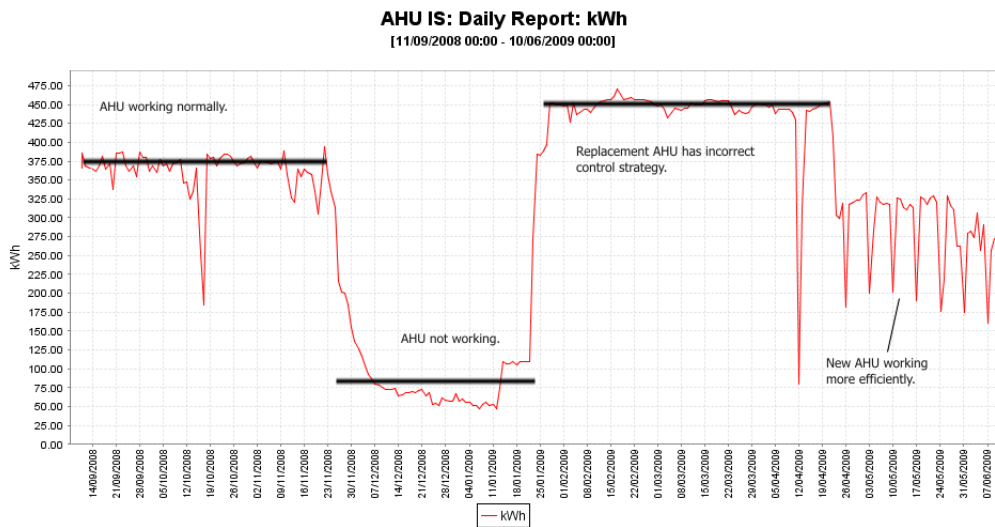


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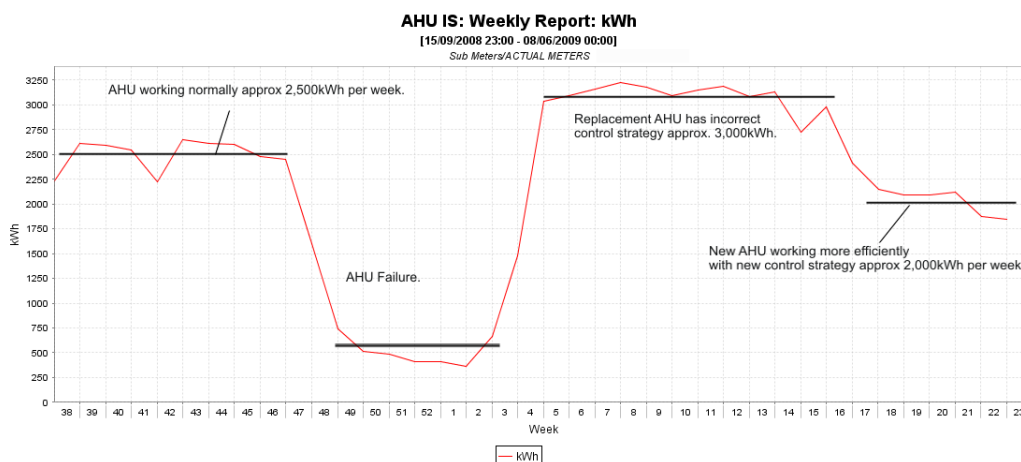
Case Study: Air Handling Unit Failure.

Study Description

The graph below shows the daily kWh of a single Air Handling Unit. As can be seen, the unit is initially performing as normal, but then malfunctions. This change in profile shape on the graph alerted the customer to the problem – which was subsequently rectified.



However, the same report also showed that the new AHU was consuming significantly more consumption even though it was supposedly a more energy efficient modern unit. Upon investigation, it was discovered that the control strategy was set up incorrectly. After another site visit the control logic was corrected, the following graph clearly shows the effect of this.



Conclusion

Without EnergyMGT’s sub metering reports, this issue would not have been detected. Detecting the new AHU had incorrect control strategy has saved the client approximately 52,000 kWh/year (approx 28 tonnes of CO₂/year) at just one site.