

# Case Study

## Worlds End boiler control



**apolloconnect**  
M2M web based monitoring & control

### The customer

AEC Environmental - working on behalf of the Royal Borough of Kensington & Chelsea - AEC develop control algorithms specifically for plant optimisation and energy efficiency

### The brief

To achieve a minimum 10% gas savings at the Worlds End Housing Estate (containing 742 flats in seven tower blocks) and provide remote internet access to the boiler plant



### The challenge

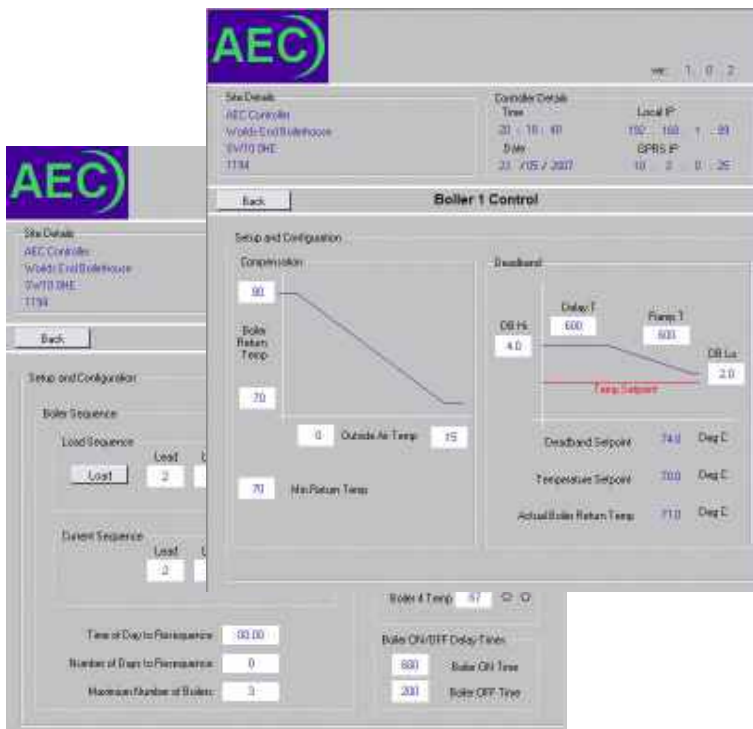
The 4 boiler, 12MW centralised plant room was controlled by a local Trend IQ220 system – with no remote monitoring or alarm system installed. The boilers were controlled entirely on local thermostats and to apply a specialist control strategy would involve significant plant control modifications and would therefore be expensive

### The solution

Apollo Connect installed and commissioned a TBox Lite controller with a Compass Interface unit to gather data directly from the existing temperature sensors and boiler management system



With this data a control strategy was developed by AEC and the TBox enabled this to sit directly on top of the existing unmodified control system. This now allows the performance of the boiler plant to be monitored and therefore setpoints managed remotely



### The result

- The current gas spend of £800k for the Local Authority has been reduced by in excess of 20%
- The On-duty engineer is now able to receive SMS text messages if the delivered temperature falls below its alarm setpoints
- The Engineering Manager also receives an alarm notification, by e-mail, allowing him to react to the residents requirements effectively

### The conclusion

This Apollo Connect TBox installation fulfills its primary objective of providing our client with remote internet access to the boiler plant and thereby enabling significant energy savings

Additional benefits include automated remote alarm handling and plant optimisation facilities, allowing the plant to operate at its optimum level whilst minimising outage and poor performance

For more information on how you can optimise your plant performance please email us on [m2m@apolloconnect.co.uk](mailto:m2m@apolloconnect.co.uk) or call us on 0845 036 4100 to discuss your requirements