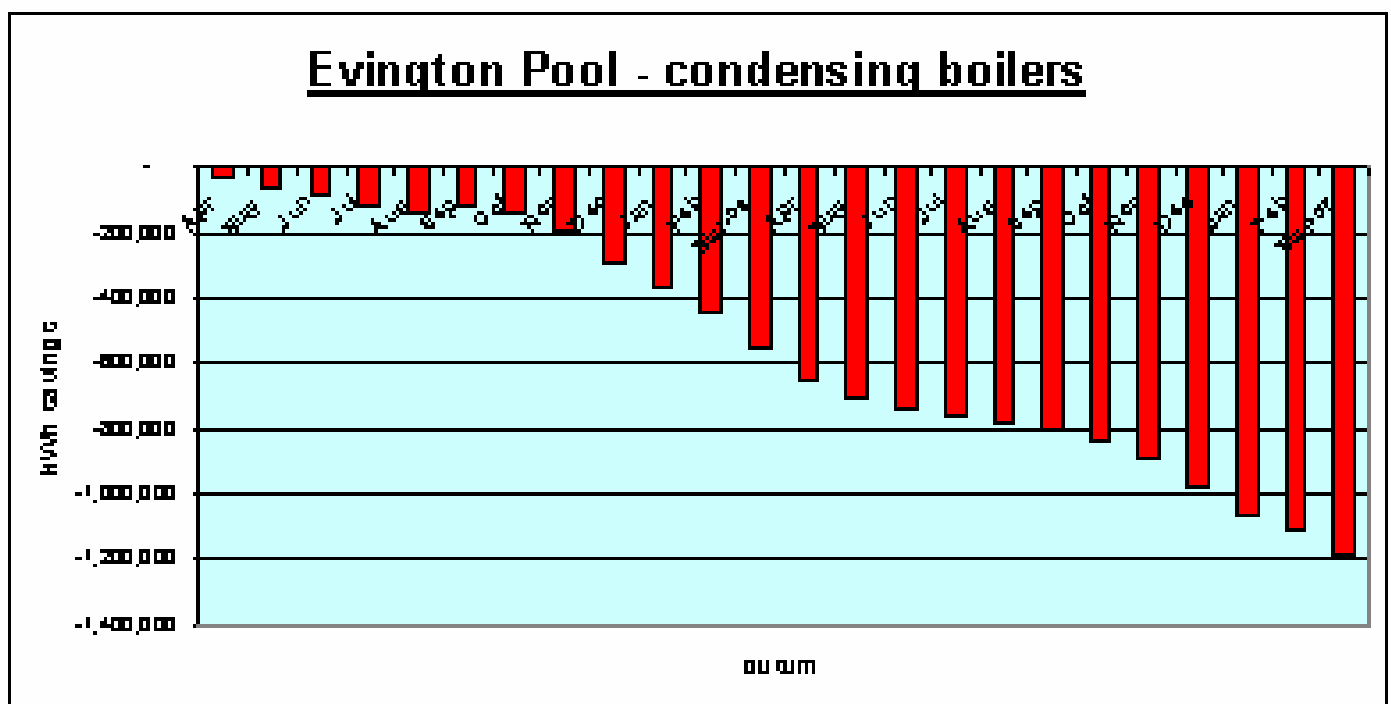


EVINGTON POOL

Energy Efficiency Measures

In March 1995 the ageing boiler plant at Evington Pool was replaced with high efficiency Broag Seagold condensing units. Two low-NOX units were installed each with 156kW output, and a conventional 158kW boiler for high load. Total cost of the project was £23,000.



Evaluation

A mathematical relationship was established between gas consumption and degree-days for the year immediately preceding the installation. This was used to generate a prediction of gas usage after the work was completed. The cumulative sum of the differences in actual and predicted monthly consumption CUSUM (above) shows gas savings worth about £6,000 within two years.

Conclusion

Condensing gas boilers can produce substantial energy savings when used in a replacement programme for elderly equipment. Reduced fuel consumption also cuts harmful atmospheric emissions, which helps to tackle the problem of global warming and preserves limited fossil fuel reserves. Condensing boilers are always specified now as the first option by Leicester City Council when replacing ageing boiler plant.