

TOWN HALL

Energy Efficiency Measures

The Town Hall was built in 1876 of brick construction with a pitched slate roof and floor area of nearly 7,000 sq.metres. In 1994 a comprehensive package of energy saving measures was introduced under the Council's energy investment programme. This included the replacement of the ageing boiler plant with modern Viessmann gas fired condensing equipment with controls. Associated pipework and loft areas were insulated, draughtproofing was installed and lighting controls were introduced. The total cost of the scheme was £80,000 of which half was financed by government Supplementary Credit Approval. All the work was completed with due regard to preserving the "Victorian Splendour" of the building's appearance.



Evaluation

A mathematical relationship was established between gas consumption and degree-days for the twelve months immediately preceding the installation. This was used to generate a prediction of gas usage after the work was completed. The difference between the prediction and the actual usage shows that gas usage had been reduced by over 20%, representing a saving of over half a million kWh and 90 tonnes of carbon dioxide in two years.

Conclusion

Significant energy savings can be achieved in older buildings by comprehensive improvement measures without adversely affecting their historical appearance.