

ENERinTOWN Case Study

Energy use in the North Tipperary Civic Offices

Client North Tipperary County Council

Overall objective Implementing low cost measures to optimize the use and cost of electricity and heat and cooling in the North Tipperary Civic Offices.

Object data The office has approximately 350 staff and operates 250 days per annum. The electrical load supplies a ground source heat pump, a large lighting load and a typical office lighting load. The oil use supplies heating for a small section of the building. There are several small solar panel installations that cater for the washing facilities.



Initial Situation

- ? Excess lighting in some areas, poor efficiency luminaries
- ? Poor heating controls with excessive heating
- ? No night load heating or cooling.
- ? Poor lighting controls

Measures implemented

- ? Carpark lights switch off once car park is closed. (€1800/ annum saved)
- ? Excess lighting removed over filing cabinets, archive areas (€7,500 per annum saved)
- ? Switch the heating/ cooling to night rate ((€3,000)
- ? Staff training on management of natural ventilation.
- ? Incorporation of existing automatic window controls into temperature management.
- ? Installation of further space heating emitters to remove the need for portable electric heaters.

Results The Energy bill for the last three months has averaged 1,500 per month less than the equivalent in 2007, equating to a full year saving of €18,000 or 14%. It remains to be proven to see if the winter savings are more or less than the summer savings.

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Benefits for the clients

- ? €18,000/ annum saved
- ? Better temperature control
- ? More comfortable environment

Assistance provided

Bureascope Ltd (Energy Monitoring data)

Contact

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