

Cork floats active comfort zones

Towards Class A - Shining examples

...are everywhere and in a town near you...

Introduction

Formerly a hotel, Annabella House is Northern Cork County Council's headquarters. Originally, the building was heated by an old coal boiler, converted to burn oil.



This ran continuously from 8.30 am to 4.30 pm, Monday to Friday, September till May and supplied heat via a single pipe system that left patches of building severely under-heated. The building was lit using 1.5m 80W fluorescent tubes.

Improvements

- Oil boiler was replaced with two wall-mounted modulating gas boilers.
- Eleven new radiators were installed
- The building was divided into 19 separate heating zones
- 51 electronic thermostatic radiator valves were fitted (one on each radiator)
- State of the art computer-based remote monitoring and control system was installed.
- All old 1.5m, 80w fluorescent strips were upgraded to twin 32W high frequency fittings. 15% of the lighting was not replaced due to the improved performance

Funding and Savings

This project was carried out with 50% funding from the Ecos Overture programme of the European Commission (DG XVI), and remainder from Cork County Council.

The results achieved were as follows:

- 35% reduction in heating costs
- 30% reduction in CO₂ emissions
- 50% reduction in lighting load
- Reduced ecological footprint
- Much improved comfort levels
- Better working environment

Summary

Cork has shown how an old building's energy performance can be dramatically improved without major capital costs, complication or disruption.

Furthermore in making these changes, the staff have become more energy conscious, expertise has been acquired, and additional measures identified, should further resources become available in the future.



Partners



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