

Heating, Lighting and Insulation Upgrade

Waterford Intellectual Disability Association

WIDA's building was constructed in 1987, with minor alterations occurring during 1998. There is a large electricity and oil demand for heating and lighting at their building. However, after successfully upgrading their radiators, increasing their attic and wall insulation and replacing their windows, doors and lights, the benefits and cost savings were clear. The 3 Counties Energy Agency (3CEA) through the Sustainable Energy Authority of Ireland's Better Energy Communities programme is helping by administering state-wide funding for energy efficiency and renewable energy projects.

Summary

Company name:	WIDA
Project actions:	Increase attic insulation by 400 mm. Fill cavity wall with eco-bead insulation. Installation of high efficiency heating devices. Replace all single glazed windows, doors, rooflights with double glazed items. Replace all lights units with LED equivalent and install PIR's. Install high efficiency radiators.
Finance source:	Internal
Additional funding:	SEAI BEC 2018 programme
% funding:	50%
Grant amount:	€ 28,171
Total project cost:	€ 56,342
25-year savings:	€ 15,611
Simple payback time:	45.12 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	44,443 kWh	€ 1,397.44	9.9 tonnes
Imports After project	24,995 kWh	€ 773.01	5.5 tonnes
Savings	19,448 kWh	€ 624.43	4.4 tonnes

Benefits

Thanks to the heating, lighting and insulation upgrades, WIDA saved money and reduced its carbon footprint through the BEC 2018 Programme.

The heating and insulation upgrades have helped increase the thermal comfort of the building for its users and reduced the number of hours the heating is required.

The lighting upgrade has resulted in a much better quality of light by using the newest technology LED lamps. The decrease in wattage has led to much lower electricity bills.

3CEA are working hard to develop another award-winning project involving SMEs, local community groups, local authorities and homeowners.

For more information on BEC please contact 3CEA office.