

Heating, Lighting and Insulating Upgrade

Woodbine Heights Community Centre

Woodbine Heights Community Centre was built in 2005 and had a large electricity and oil demand for heating and lighting at their buildings. However, after successfully upgrading their oil boiler, upgrading their lights and increasing their ceiling, doors and wall insulation, 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:	Wexford County Council
Project actions:	Increase suspended ceiling insulation to 300 mm. Fill cavity wall with eco-bead insulation. Replacement of the existing oil boiler with a high efficiency condensing oil boiler. Replacement of existing lighting quad with LED equivalent lights. Replacement of front and back doors by composite external doors.
Finance source:	Internal
Additional funding:	SEAI BEC 2017 programme
% funding:	50%
Grant amount:	€ 7,977
Total project cost:	€ 15,954
25-year savings:	€ 25,259
Simple payback time:	7.9 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	32,407 kWh	€ 3,712.02	11.3 tonnes
Imports After project	21,999 kWh	€ 2,701.68	8.1 tonnes
Savings	10,408 kWh	€ 1,010.34	3.2 tonnes

Benefits

Thanks to the heating, lighting and insulation upgrades, Wexford County Council saved money and reduced its carbon footprint through the BEC 2017 Programme.

The insulation and heating 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.