

Lighting and Insulating Upgrade

Piltown GAA Club

Piltown GAA Club is a sports club located in Kilkenny County, with a large electricity and oil demand for heating and lighting at their sports complex. However, after successfully upgrading their lights and increasing their attic, walls and windows 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 local energy efficiency and renewable energy projects.

Summary

Company name:	Piltown GAA Club
Project actions:	Increase attic insulation from 100 mm to 300 mm. Fill cavity wall with an insulating bead material of 50mm. Replace the existing lights quad with lower wattage products. Replace all glazed areas with double glazed windows.
Finance source:	Internal
Additional funding:	SEAI BEC 2017 programme
% funding:	50%
Grant amount:	€ 14,271
Total project cost:	€ 28,541
25-year savings:	€ 33,934
Simple payback time:	10.5 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	47,826 kWh	€ 6,380.05	20.00 tonnes
Imports After project	33,923 kWh	€ 5,022.70	15.68 tonnes
Savings	13,903 kWh	€ 1,357.35	4.32 tonnes

Benefits

Thanks to the lighting and insulation upgrades, Piltown GAA Club saved money and reduced its carbon footprint through the BEC 2017 Programme.

The 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.