

Lighting Upgrade

Callan Fire Station

Kilkenny Fire Service have engaged with the BEC process since 2014 making energy upgrades to their buildings. Callan Fire Station having previously completed the attic and wall insulation. Phase two of the upgrades of Callan Fire Station is required, because of a large electricity demand for lighting at their buildings. However, after successfully retrofitting their 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:	Kilkenny County Council
Project actions:	Retrofit internal and external existing lighting quad with LED equivalent lighting.
Finance source:	Internal
Additional funding:	SEAI BEC 2018 programme
% funding:	30%
Grant amount:	€ 1,269
Total project cost:	€ 4,231
25-year savings:	€ 12,756
Simple payback time:	5.8 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	42,621 kWh	€ 6,393.15	17.4 tonnes
Imports After project	39,219 kWh	€ 5,882.93	16.0 tonnes
Savings	3,402 kWh	€ 510.23	1.4 tonnes

Benefits

Thanks to the lighting upgrade, Kilkenny County Council saved money and reduced its carbon footprint through the BEC 2018 Programme.

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.