

Lighting and Insulation Upgrade

Central Services, KARE



KARE's Central Services is located in Newbridge, Co. Kildare and provides support to people who have an intellectual disability and their families. The Central Services Centre was deemed to be KARE's No.2 Natural Gas Consumer and, No.1 Electricity User. However, after successfully upgrading their light system and increasing their attic 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:	Central Services, KARE
Project actions:	Install attic insulation of 300mm throughout at ceiling level. Fill cavity with Insulating Bead. Upgrade of lighting system by replacing the existing quad by LED fitting/lamp
Finance source:	Internal
Additional funding:	SEAI BEC 2017 programme
% funding	50%
Grant amount:	€ 19,329
Total project cost:	€ 38,658
25-year savings:	€ 119,691
Simple payback time:	4.04 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	200,894 kWh	€ 20,747.52	58.75 tonnes
Imports After project	160,380 kWh	€ 15,959.90	44.64 tonnes
Savings	40,514 kWh	€ 4,787.62	14.12 tonnes

Benefits

Thanks to the lighting and insulation upgrades, KARE 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.