

Lighting and Heating Upgrade

Clontubbrit Church

With a large electricity and fuel demand for lighting and heating at Clontubbrit Church, Lisdowney Parish in Kilkenny is concerned about promoting a sustainable energy practice while maintaining their daily business objectives. However, after successfully installing their new sustainable lighting system, upgrading their gas/oil boiler and insulating their roof, 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:	Lisdowney Parish
Project actions:	Replacement of previous light fittings with new, energy efficient LED fittings. Replacement of previous boiler with high efficiency condensing boiler. Upgrade of roof insulation to 300mm.
Finance source:	Internal
Additional funding:	SEAI BEC 2016 Programme
Grant amount:	€ 23,075.34
Total project cost:	€ 46,150.67
25-year savings:	€ 2,853.75
Simple payback time:	>20 years



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	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	12,501 kWh	€ 1,133.63	4.22 tonnes
Imports After project	10,153 kWh	€ 1,019.48	3.67 tonnes
Savings	2,348 kWh	€ 114.15	0.56 tonnes

Benefits

Thanks to the lighting, heating and insulation upgrades completed through the BEC 2016 programme, Clontubbrit Church is now a more efficient building, saving Lisdowney Parish money and reducing their carbon footprint.

By upgrading to 300 mm roof insulation the building now has a more efficient U-Value. The building is more thermally insulated, leading to a lower heating demand and a much more efficient building.

The upgrade to a high efficiency condensing boiler guarantees a gross seasonal efficiency greater than 90%. This and the upgrade to the new LED lighting system leads to a much more environmentally friendly building.

*The application process for next year's energy efficiency and renewable energy projects has just been launched.
For more information on BEC please contact 3CEA office.*