

# Carlow Public Lighting Upgrade

## Carlow Public Lighting

Public lighting is source of large spending for Carlow County Council, because of a large electricity demand. However, after successfully upgrading their public lighting, 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:	Carlow County Council
Project actions:	Public lighting retrofit to LED using Smart photocell control utilising the new unmetered burn profiles to allow for Trimming and Dimming.
Finance source:	Internal
Additional funding:	SEAI BEC 2018 programme
% funding:	30%
Grant amount:	€ 78,789
Total project cost:	€ 262,632
25-year savings:	€ 550,180
Simple payback time:	8.4 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
Imports Before project	287,910 kWh	€ 37,428.30	117.8 tonnes
Imports After project	118,624 kWh	€ 15,421.12	48.5 tonnes
Savings	169,286 kWh	€ 22,007.18	69.3 tonnes

## Benefits

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

The public light upgrade has resulted in a much better quality of light by using the newest technology LED lights. The decrease in wattage has led to much lower electricity bills.

