

# Heating Controls and Lighting Upgrade

## Bunclody Fire Station

Bunclody Fire Station was built in 2006 and had a large electricity and oil usage for heating and lighting. However, after successfully upgrading their lights and installing heating controls, 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

<b>Company name:</b>	<b>Wexford County Council</b>
<b>Project actions:</b>	Replace existing lighting quad with LED equivalent fittings. Install new controls, thermostats and 3-zone system.
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2018 programme
<b>% funding:</b>	30%
<b>Grant amount:</b>	€ 4,533
<b>Total project cost:</b>	€ 15,110
<b>25-year savings:</b>	€ 24,158
<b>Simple payback time:</b>	10.95 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
<b>Imports Before project</b>	<b>33,004 kWh</b>	<b>€ 5,190.68</b>	<b>12.3 tonnes</b>
<b>Imports After project</b>	<b>27,114 kWh</b>	<b>€ 4,224.38</b>	<b>10.0 tonnes</b>
<b>Savings</b>	<b>5,890 kWh</b>	<b>€ 966.30</b>	<b>2.3 tonnes</b>

## Benefits

Thanks to the heating controls and lighting upgrades, Wexford County Council saved money and reduced its carbon footprint through the BEC 2018 Programme.

The heating controls upgrades have helped manage 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.

. 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.