

# Lighting and Pump Upgrade

## Waterford Childcare Centre

Waterford childcare centre had a large electricity demand for lighting at their buildings and supplying the water pump. However, after successfully upgrading their lights and replacing their pump, 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>Waterford Childcare Centre</b>
<b>Project actions:</b>	Replacement of existing external lights quad by LED equivalent lights. Replacement of water pipes and installation of a new VSD pump.
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2017 programme
<b>% funding:</b>	50%
<b>Grant amount:</b>	€ 4,848
<b>Total project cost:</b>	€ 9,695
<b>25-year savings:</b>	€ 34,774
<b>Simple payback time:</b>	3.49 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
Imports Before project	58,359 kWh	€ 8,512.69	23.0 tonnes
Imports After project	49,665 kWh	€ 7,121.71	18.9 tonnes
Savings	8,694 kWh	€ 1,390.98	4.1 tonnes

### Benefits

Thanks to the lighting and pump upgrades, Waterford Childcare Centre saved money and reduced its carbon footprint through the BEC 2017 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.

The plumbing and piping upgrades have helped reduce water wastage and reduce electricity running costs.

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.