

Heating Upgrade

Ballyfacey National School

Ballyfacey National School was originally built in 1958 and was extended in 2006. The school had a large oil demand for heating at their building. However, after successfully upgrading their oil boiler and installing time and temperature control, 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:	Ballyfacey National School
Project actions:	Replace old oil boiler with high efficiency condensing oil boiler. Split current single circuit into 4 heating zones. Install time and temperature control on all circuits.
Finance source:	Internal
Additional funding:	SEAI BEC 2018 programme
% funding:	50%
Grant amount:	€ 8,794
Total project cost:	€ 17,588
25-year savings:	€ 6,943
Simple payback time:	31.6 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	23,218 kWh	€ 603.67	4.8 tonnes
Imports After project	12,537 kWh	€ 325.96	2.6 tonnes
Savings	10,681 kWh	€ 277.71	2.2 tonnes

Benefits

Thanks to the heating upgrade, Ballyfacey National School saved money and reduced its carbon footprint through the BEC 2018 Programme.

The heating upgrades have helped increase the thermal comfort of the building for its users and reduced the number of hours the heating is required.