

Insulation and Door Upgrade

Graiguenamanagh National School

With a large oil demand for heating at their building, Graiguenamanagh National School is concerned about promoting a sustainable energy practice while meeting daily business objectives. However, after successfully increasing their external wall and attic insulation and replacing all single-glazed with double-glazed doors, 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:	Graiguenamanagh National School
Project actions:	Insulate dry line external wall with plasterboard. Horizontally insulate attic space with fiberglass insulation up to 300mm. Replacement of single-glazed doors with double-glazed doors.
Finance source:	Internal
Additional funding:	SEAI BEC 2016 programme
Grant amount:	€ 5,306
Total project cost:	€ 10,612
25-year savings:	€ 4,089
Simple payback time:	>20 years



Graiguenamanagh National School

	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	26,096 kWh	€ 1,304.80	6.71 tonnes
Imports After project	22,825 kWh	€ 1,141.25	5.87 tonnes
Savings	3,271 kWh	€ 163.55	0.84 tonnes

Benefits

Thanks to the insulation and door upgrade carried out through the BEC 2016 Programme, Graiguenamanagh National School has saved money and has reduced their carbon footprint.

The upgrade was completed through the replacement of all single-glazed doors with double-glazed doors and the increase of attic and external wall insulation.

Through these improvements the building is now more thermally efficient, requiring a reduced heating load which results in a more efficient, eco-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.*