

# Windows and Insulation Upgrade

## Cloneen Community Hall

With a large electricity and gas demand for heating at their Hall, the Cloneen Community is concerned about promoting a sustainable energy practice while meeting their daily business objectives. However, after successfully increasing their wall and attic insulation and replacing all single-glazed windows with double-glazed windows, 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>Cloneen Community Hall</b>
<b>Project actions:</b>	Wall insulation upgrade - filling cavity. Attic insulation upgrade - increasing insulation to 300mm. Ceiling replacement. Window Upgrade – replacement of single glazed windows with double glazed windows.
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2016 Programme
<b>Grant amount:</b>	€ 286,238
<b>Total project cost:</b>	€ 636,084
<b>25-year savings:</b>	€ 43,406
<b>Simple payback time:</b>	>20 years



Cloneen Community Hall

	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
<b>Imports Before project</b>	<b>21,452 kWh</b>	<b>€ 3,073.77</b>	<b>9.04 tonnes</b>
<b>Imports After project</b>	<b>9,094 kWh</b>	<b>€ 1,337.55</b>	<b>3.93 tonnes</b>
<b>Savings</b>	<b>12,358 kWh</b>	<b>€ 1,736.22</b>	<b>5.11 tonnes</b>

### Benefits

Cloneen Community has both saved money and reduced its carbon footprint thanks to window and insulation upgrades carried out through the BEC 2016 programme.

All single-glazed windows were replaced with double-glazed, cavity walls were filled, attic insulation was increased and ceilings were replaced. This resulted in an appreciable effect on the building's overall performance.

The insulating measures provided guarantee a more efficient U-Value, making the building more thermally insulated and consequently lowering heating demand.

*The application process for the 2019 energy efficiency and renewable energy projects has just been launched.  
For more information on BEC please contact 3CEA office.*