

# Heating and Insulating Upgrade

## SOS Kilkenny



With a large electricity, oil, and gas demand for heating at their buildings, SOS Kilkenny is concerned about promoting a sustainable energy practice while meeting its daily business objectives. However, after successfully upgrading their gas/oil boiler and increasing their attic and wall insulation, 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>	SOS Kilkenny
<b>Project actions:</b>	Increase attic insulation from 100 mm to 200 mm. Insulate partition wall in office space with 80 mm rigid insulated board. Fill cavity wall in Gym & Hall building with eco-bead insulation. Installation of high-efficiency heating devices.
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2016 programme
<b>% funding</b>	50%
<b>Grant amount:</b>	€ 91,716
<b>Total project cost:</b>	€ 183,433
<b>25-year savings:</b>	€ 504,152
<b>Simple payback time:</b>	4.55 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
<b>Imports Before project</b>	<b>429,548 kWh</b>	<b>€ 61,509.64</b>	<b>193 tonnes</b>
<b>Imports After project</b>	<b>274,585 kWh</b>	<b>€ 41,343.53</b>	<b>132 tonnes</b>
<b>Savings</b>	<b>154,963 kWh</b>	<b>€ 20,166.11</b>	<b>61 tonnes</b>

### Benefits

Thanks to the heating and insulating upgrade, SOS Kilkenny saved money and reduced its carbon footprint since they carried out their building's heating system and wall/attic insulation upgrade through the BEC 2016 Programme.

SOS Kilkenny has been upgraded by increasing attic and wall insulation measures. The insulating adjustments provided guarantee a more efficient U-value, i.e. a better building thermal insulation and a lower heating demand.

A wet radiator system with storage heaters, high-efficiency hybrid air to the water system with gas boiler, and mini district heating system has been installed. SOS Kilkenny gas/oil boiler has been upgraded by substituting it with a higher efficiency heating system connected to the gas network.

3CEA is 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.