

# Heating System Upgrade

## Rathdowney Library

*With a large electricity demand for heating at their Rathdowney Library, Laois County Council is concerned about promoting a sustainable energy practice while meeting its daily business objectives. However, after successfully installing their electric heating devices 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>Laois County Council</b>
<b>Project actions:</b>	Installation of seven electric radiant heating panels with thermostatic controls and 7-day timer clock.
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2017 programme
<b>Grant amount:</b>	€ 23,837
<b>Total project cost:</b>	€ 79,457
<b>25-year savings:</b>	€ 50,656
<b>Simple payback time:</b>	>20 years

**Rathdowney Library**



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
<b>Imports Before project</b>	<b>36,783 kWh</b>	<b>€ 2,942.64</b>	<b>17.21 tonnes</b>
<b>Imports After project</b>	<b>11,455 kWh</b>	<b>€ 916.40</b>	<b>5.36 tonnes</b>
<b>Savings</b>	<b>25,328 kWh</b>	<b>€ 2,026.24</b>	<b>11.85 tonnes</b>

### Benefits

Thanks to the heating system upgrade completed through the BEC 2017 programme, Laois County Council saved money and reduced their carbon footprint.

The electric radiant heating panels installed create a more efficient and environmentally friendly heating supply, leading to a more eco-friendly building.

Through the monitoring of individual room occupancy and temperature, the new heating control system ensures that heating is supplied only when needed.

*The application process for the 2019 energy efficiency and renewable energy projects has just been launched. 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.*