

# Cooling Upgrade

## Stables Bar

Stables Bar is a student bar and restaurant located in University of Limerick. The bar had a large electricity demand for their refrigeration system. However, after successfully upgrading their condensing unit and cooling system, 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>	Castle Oaks Catering/ University of Limerick
<b>Project actions:</b>	Installation of 4 x 13 line ECO Pythons. Removal of Glycol Line system. Replacement of 2 Tap Boxes. Replacement of Condensing Unit with higher efficient unit. Installation of Single 48 Track Kilkenny Cooling Systems VS Beer Refrigeration Unit
<b>Finance source:</b>	Internal
<b>Additional funding:</b>	SEAI BEC 2018 programme
<b>% funding:</b>	30%
<b>Grant amount:</b>	€ 7,934
<b>Total project cost:</b>	€ 26,447
<b>25-year savings:</b>	€ 58,081
<b>Simple payback time:</b>	8 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO <sub>2</sub> (tonnes)
Imports Before project	196,690 kWh	€ 20,455.76	80.4 tonnes
Imports After project	174,351 kWh	€ 18,132.50	71.3 tonnes
Savings	22,339 kWh	€ 2,323.26	9.1 tonnes

## Benefits

Thanks to the cooling upgrades, Castle Oaks Catering saved money and reduced its carbon footprint through the BEC 2018 Programme.

The refrigeration upgrade has helped reduce the time of the cooling process. The increase in efficiency of the system has led to much lower electricity bills.

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.