

Cooling Upgrade

Locke Bar

Locke Bar is located in Limerick County and had a large electricity demand for their refrigeration system. However, after successfully installing an ice bank chiller with its compressors, 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:	Locke Bar
Project actions:	Installation of 1 No. high efficiency Ice bank Chiller, 1 No. variable speed cold room evaporator, 2 No. independent compressors and 4 No. Undercounter coolers.
Finance source:	Internal
Additional funding:	SEAI BEC 2017 programme
% funding:	30%
Grant amount:	€ 6,706
Total project cost:	€ 22,355
25-year savings:	€ 135,292
Simple payback time:	2.89 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	354,333kWh	€ 26,220.64	166 tonnes
Imports After project	281,202 kWh	€ 20,808.96	132 tonnes
Savings	73,131 kWh	€ 5,411.68	34 tonnes

Benefits

Thanks to the refrigeration system upgrade, Locke Bar saved money and reduced its carbon footprint through the BEC 2017 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.