



Kilmartin Service Station Refrigeration Upgrade

24 hr Service Station on the N6
Dublin Road, Athlone

Project Overview

Company name:	Kilmartin Service Station
Project actions:	Refrigeration Upgrade
Finance source:	Internal
Additional funding:	SEAI BEC 2019 programme
% funding:	30%
Grant amount:	€ 21,525
Total project cost:	€ 71,750
25-year savings:	€ 19,429
Simple payback time:	6.7 years

About the Client

Kilmartin N6 (24hr) Service Station, Dublin Road Athlone, was first set up in 1999 and now boasts a convenience store with a hot food deli counter as well as all other services including fuel, air, and water.

Since this service station operates 24hrs a day, 365 days a year, running open refrigeration systems and an extensive food/ deli counter, the electrical consumption is very high. In a bid to reduce energy consumption, an upgrade of all refrigeration units is to be carried out.

The team at 3 Counties Energy Agency coordinated the entire Better Energy Community (BEC) application from the initial energy audit, procurement to warranty checks and all required paperwork.

The Challenge

In 2017 the site used 395,819 kW/h at a cost of about €63,331. The challenge is to reduce consumption in a financially viable manner. This will be done by upgrading the refrigeration units to ones with a higher energy efficiency.

The Approach

In order to reduce annual energy consumption, it has been decided following an energy audit, to upgrade the refrigeration units to ones with a higher energy efficiency. This will save money and reduce the carbon footprint of the building.

Results



18.797
tonnes CO₂

Reduced carbon footprint by 18.8 tonnes by investing in a refrigeration upgrade system.



€9,077.35
Annual savings

The refrigeration upgrade has led to a reduction in energy bills on the site.



56,721 kWh
Energy savings

Investment payback time is just over 6 and a half years.

Get in contact

We expect more service stations and other retail enterprises will follow in the footsteps of Kilmartin's business and invest in refrigeration systems to upgrade their on-site energy usage under the SEAI Better Energy Communities Program. Send us a brief overview of the project to: BEC@3cea.ie or call 056 779 0856.



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