

Heating, Lighting and Insulating Upgrade

Wexford Machinery Yard

The Machinery Yard building was built in 1990 and was heated with pre-1998 oil boilers. The machinery yard had a large electricity and oil demand for heating and lighting at their buildings. However, after successfully replacing their oil boiler and their skylights, 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:	Wexford County Council
Project actions:	Replacement of the old oil boiler with a 2x12.5kW Power Inverter Heat Pump. Replacement of skylights with Kingspan translucent panels.
Finance source:	Internal
Additional funding:	SEAI BEC 2017 programme
% funding:	30%
Grant amount:	€ 13,135
Total project cost:	€ 43,783
25-year savings:	€ 459,113
Simple payback time:	1.67 years



	Annual Energy (kWh)	Annual Value (€)	Annual CO ₂ (tonnes)
Imports Before project	356,419 kWh	€ 50,327.67	125.6 tonnes
Imports After project	213,088 kWh	€ 31,963.14	99.7 tonnes
Savings	143,331 kWh	€ 18,364.53	25.9 tonnes

Benefits

Thanks to the heating, lighting and insulation upgrades, Wexford County Council saved money and reduced its carbon footprint through the BEC 2017 Programme.

The insulation and heating upgrades have helped increase the thermal comfort of the building for its users, reduced the number of hours the heating is required and stopped the use of oil on the site.

The replacement of skylights has allowed more daylight in the building and combined with the daylight sensors it 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.