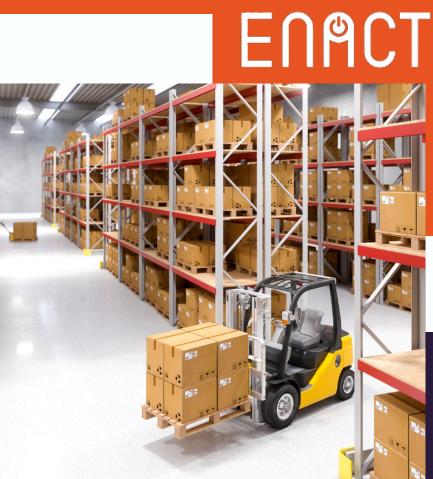


# WAREHOUSE Case Study Number: 14

## **Overview**

- Location: Mullingar (Rural)
- Size: 43,400 m<sup>2</sup>
- Constructed in: 1998
- BER Before: N/A | BER After: N/A
- Energy Savings: 730,238 kWh (Estimated)
- Carbon Savings: 448 tonnes CO<sub>2</sub> annually
- Display Energy Certificate: N/A

A deep renovation delivered major carbon and energy savings through heating system upgrades and large-scale solar PV integration in a rural logistics centre.



#### **CHALLENGES**

- No specific challenges or disruptions were reported.
- Project was completed within 12 months. Planning and approval details were not specified.

### **SIMPLE PAYBACK**

- Total project cost: €2,092,770
- Estimated payback: ~6 years
- Funding Mode: Private + SEAI Better Energy Community Grant (€627,831)

### **ADDITIONAL INFORMATION**

- The retrofit achieved an estimated 448 tonnes of CO<sub>2</sub> reduction annually and significantly reduced reliance on grid electricity.
- The project supports strong ESG alignment and operational efficiency for a high-energyuse logistics facility.

## **Energy Upgrade Measures**

#### HVAC Upgrade:

Gas boiler replaced with a Variable Refrigerant Volume (VRV) system to enable efficient, zoned heating and cooling.

#### **Renewable Energy Integration:**

1,200 kW solar PV system installed to supply substantial on-site renewable electricity.

Significant emissions savings from large-scale solar PV and efficient heating