HOSPITALITY

Case Study Number: 16

Overview

- **Location:** Clare (Rural)
- **Size:** N/A
- **Constructed in:** 1950 (with 1996 addition)
- **BER Before:** E | **BER After:** A2
- **Energy Savings:** 56% in energy costs
- **Carbon Savings:** 65% operational CO_2
- **Display Energy Certificate:** N/A

A deep renovation modernised this rural leisure centre through a full services overhaul and renewable energy integration—cutting carbon by 65% and slashing energy costs by over half.

CHALLENGES

- Project challenges were not specified.
- Renovation was phased over 15 months.
- Planning permission and additional approvals were not reported.

SIMPLE PAYBACK

- **Total project cost:** €2,149,970 (ex VAT)
- **Estimated payback:** N/A
- **Funding Mode:** Private + SEAI Better Energy Communities 2020 Grant (30%)

ADDITIONAL INFORMATION

- The upgrade transformed a mid-century facility into a low-carbon, energy-efficient community asset.
- Renewables now supply 26% of its electricity.
- Smart controls and HVAC improvements enhanced comfort, predictability, and operational efficiency.

Energy Upgrade Measures

HVAC Upgrade:

- Geothermal heat pump system (2 × 79 kW units, 15 boreholes)
- Biomass boiler cascade (300 kW + 100 kW) with 10,000L buffer tank
- MVHR installed in non-pool areas
- Shower heat recovery (6 Recoup units, 42% efficiency)

Lighting Upgrade:

416 smart LED lights retrofitted for efficiency and control.

Renewable Energy Integration:

137 kWp solar PV system (310 Longi panels + 3 Solis inverters) for on-site electricity generation.