



HOSPITALITY

Case Study Number: 19

Overview

- **Location:** Wicklow (Rural)
- **Size:** 11,008 m²
- **Constructed in:** 2002
- **BER Before:** N/A | **BER After:** N/A
- **Energy Savings:** 2,365,199 kWh (Actual), 3,380,000 kWh (Estimated)
- **Carbon Savings:** N/A
- **Display Energy Certificate:** N/A

A medium retrofit cut energy use through HVAC upgrades and smart controls in a large rural resort.



CHALLENGES

- No specific challenges or approvals were reported.
- Project focused on mechanical system optimisation and performance tracking.

SIMPLE PAYBACK

- **Total project cost:** €1,920,295
- **Estimated payback:** ~9 years
- **Funding Mode:** Private + SEAI Better Energy Community Grant (€576,089)

ADDITIONAL INFORMATION

- The project achieved over 2.3 million kWh in actual energy savings, with performance optimised through continuous monitoring.
- HVAC upgrades improved reliability and guest comfort.
- The retrofit supports decarbonisation goals through efficient system controls and low-carbon energy systems.

Energy Upgrade Measures

HVAC Upgrade:

- Upgraded fan coil units and AHUs
- Replaced and enhanced heat pump systems
- Installed advanced cooling controls and pump systems
- Added control systems for heat pump optimisation

Energy Management Systems:

Installed M&V system to monitor, measure, and optimise energy use in real time