



# HOSPITALITY

Case Study Number: 17

## Overview

- **Location:** Limerick (Urban)
- **Size:** 8,760 m<sup>2</sup>
- **Constructed in:** 2009
- **BER Before:** N/A | **BER After:** N/A
- **Energy Savings:** 206,431 kWh (Estimated)
- **Carbon Savings:** 53 tonnes CO<sub>2</sub> annually
- **Display Energy Certificate:** N/A

A targeted light renovation with system upgrade improved spa and pool heating efficiency in this urban hotel, delivering significant energy savings and improved comfort.



## CHALLENGES

- No planning, disruption, or approval issues were reported.
- Project-specific data such as occupancy and timeline were not specified.

## SIMPLE PAYBACK

- **Total project cost:** €108,270
- **Estimated payback:** ~4.5 years
- **Funding Mode:** Private + SEAI Better Energy Community Grant (€32,481)

## ADDITIONAL INFORMATION

- Comfort and indoor conditions were enhanced, especially in spa and leisure areas.
- The hotel's energy performance and market appeal benefited from the improved efficiency.

## Energy Upgrade Measures

### HVAC Upgrade:

Heatstar Hybrid System installed for pool and spa heating—combining a heat pump with a high-efficiency recuperator to reduce thermal energy demand.

### Energy Management Systems:

Real-time energy monitoring and performance optimisation introduced through a new M&V system.

The system-specific upgrade resulted in an estimated 206,431 kWh reduction in energy use and 53 tonnes in carbon savings per year.