



4* BOUTIQUE HOTEL

UE Tradeable White Certificates
project ID: SD-A58425448

60 guest rooms, 3.000 m²
Madrid
Spain

%
-45,4

VENTILATION
OUTDOOR AIRFLOW

%
-43,9

HVAC ANNUAL
CONSUMPTION

%
-17,5

BUILDING ANNUAL
CONSUMPTION

Years
3,14

PAYBACK
(0,15 €/kWh)

OBJECTIVES:

The HVAC annual consumption in a hotel is its second largest operating cost, only behind staff payroll and, depending on the case, ahead of F&B. **Reducing HVAC consumption in order to achieve decarbonisation targets and increase competitiveness is a priority** for the hotelery and hospitality sectors.

This is a 60 guest executive rooms boutique hotel in the downtown of an European capital. The hotel has a restaurant, SPA - Wellness and congress centres as main facilities. The building has two primary air AHU's (12,000 m³h), without recirculation, which feed through ducts to a fan coil system.

SOLUTIONS:

Improvement of indoor air quality with IBPA®, in a single integration phase (retrofit), without disturbing works, with the building in operation, without replacing any existing machines and without modifying the original installation:

- IBPA® solution design.
- Calculation of the new optimized ventilation outdoor airflow rates based in european standards.
- Project Management, installation and commissioning of the IBPA® solution.
- Certification of the result obtained by an accredited IAQ laboratory.
- Coordination of the Tradeable White Certificate and european subsidies with the local and European Administrations.