

Cost Savings... €10,914 / Annum
Investment..... €11,000
Payback..... 12.1 Months

Environmental Benefits:
Water reduced: 4,829m³ p.a.

Water Management Programme Saves €10,914 Per Annum

CARLTON ATLANTIC COAST HOTEL - WESTPORT



Description of Property

The Carlton Atlantic Coast Hotel is a 4 star property with 85 bedrooms, a restaurant, bar & bistro, and a leisure centre with a 17 metre swimming pool, sauna & steam room. The Carlton Atlantic Coast Hotel was awarded the Green Hospitality Gold Award and received the Special Category Award for Most Improved Water Management in 2008 at the Green Hospitality Awards.



Project Description

An analysis of water usage was carried out throughout the property and an 18 month plan was drawn up to reduce water consumption. This plan tackled all areas with mains water consumption, particularly bedrooms, public toilets and the leisure centre.

- All taps throughout the hotel were fitted with aerators which reduced water flow from 8.5 litres per minute to 5.5 litres per minute (even lower flows can be achieved).
- Toilet cistern flush was adjusted from a flush of 6.5 litres to 5 litres.
- All water taps in public toilets were replaced with automatic push taps.
- Urinal flushes were adjusted from 1 every hour to 1 every 2 ½ hours.
- A carbon filter and flocculent dosing system was installed in the plant room for chemical dosing of the pool water. This system has reduced the number of times required to back wash the pool from twice a week to once a fortnight.
- A 6,000 litre Green Water harvesting tank was installed to service the public toilets. The hotel harvests 250,000 litres of rainwater per annum.



The Results

The Atlantic Coast has reduced its annual water consumption by 4,800 m³ per annum – equal to a 28% reduction in consumption. Consequently the hotel reduced its water costs by €10,914 / annum. In 2008 the hotel invested €11,000 on various water saving measures. The payback on this investment is just over one year.



TOP TIP - There are numerous low cost options for reducing water cost with a payback of only 12 months.

Water Consumption	2007	2008
WATER USAGE m³	17,000	12,200
WATER REDUCTION m³		4,800
% REDUCTION IN 2008		28.35%
COST SAVINGS		€10,900
INVESTMENT		€11,000
PAYBACK TIME		12.1 Months

