



## CASE STUDY: HOTEL ENERGY MANAGEMENT

# Cutting high energy consumption & identifying cost savings at Clayton Hotel Cardiff Lane

## LOCATION



 Dublin, Ireland

## FINDINGS/INSIGHTS

- 50% of the occupied spaces did not maintain airflow accurately
- AC was left on in non-critical areas during off-peak times
- Multiple fans were manually overridden to “on”

## BACKGROUND

Clayton Hotels is a chain of hotels throughout Ireland & the UK renowned for offering a warm welcoming atmosphere and superior service. Clayton Hotels boasts a rapidly growing portfolio with 17 established hotels in Cork, Dublin, Galway, Limerick, Sligo, Wexford, Belfast, Cardiff, Leeds, London and Manchester Airport. Clayton is the sister brand to the Maldron Hotel Group, both of which are operated by the Dalata Hotel Group.

## PROBLEM TO BE SOLVED

Clayton Hotel Cardiff Lane had a history of high consumption and unaccounted for energy spikes which costed the hotel extra thousands of Euro each month. They required a solution that would help them to quickly identify and alert them to periods of excessive consumption, unplanned energy spikes as well as other areas of operational waste – to reduce kWh expenditure, energy costs and improve overall energy efficiency.

*“When I started working with Wattics, it was more than I expected, the wide range of system functionalities is unbelievable!” – Ioan Luntrariu, Facility Manager, Clayton Hotels Cardiff Lane, Dublin, Ireland.*

## SOLUTION

Sub-metered areas and appliances such as air-conditioning units, fans, pumps, electricity main (DB) were monitored by smart meters and connected to Wattics. Incoming data from monitored circuits was ready for analysis in a matter of minutes. With the Wattics platform, Clayton Hotel Cardiff Lane is able to:

- Monitor and track energy consumption in real-time
- Get remote access to consumption information and receive automatic data updates for all its monitored sites
- Alert/notify facility personnel of energy spikes and abnormalities in consumption, so that immediate action can be taken
- Benchmark and compare energy consumption trends
- Perform operations wastage analysis to identify areas of energy waste and opportunities for savings
- Save time and money, having a unified platform through which all monitored circuits consumption data is visible. No more manual data collection.
- Incorporate historical data to view trends over time
- Work with an easy-to use platform and interface to get the job done
- Document energy analysis and savings for dissemination

### Monthly Values – 2019 / 2014

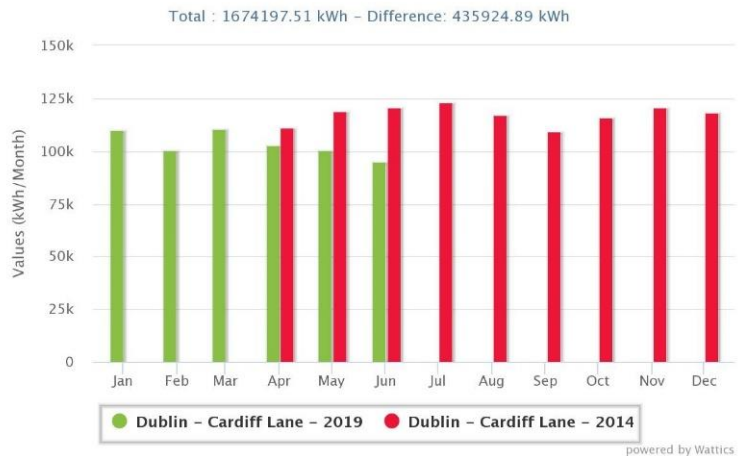


Figure 1: Total kWh consumption comparison 2014/2019

*“The software is very good, I’m really happy with it”*

### Monthly Values – 2019 / 2018

Total : 1899257.85 kWh – Difference: 646791.27 kWh



Figure 2: Total kWh consumption comparison 2018/2019

## RESULTS

- Clayton Hotels Cardiff Lane has saved in excess of 51,000 kWh and thousands of Euro in energy costs since working with the Wattics platform in 2014
- Wattics alerted Clayton Hotels Cardiff Lane to a spike in energy consumption in the first quarter of 2019 (see Figure 2), coinciding with a report from its energy supplier that its energy supply costs reached approximately €31,000
- Wattics has helped Clayton Hotels Cardiff Lane consistently identify high consuming appliances to offset unexpected consumption and costs and is on track to achieve €40,000+ in energy savings in the 2018 – 2019 financial year



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