Con-Serve User Case Study

Introduction to the case:

A London hotel group have been using Con-Serve for approximately 12 months for all 12 of its properties. Energy data is being collected at half hourly intervals through AMRs (Automated Meter Readings), and water and room nights data is tracked on a monthly basis.

For its most recent six monthly technical report, *Con-Serve Analysts* undertook a benchmarking exercise to assess the sustainability performance of each of the properties against one another.

Con-Serve Benchmarking Methodology & results:

Three variables were taken into account to assess and benchmark the performance of the 12 hotels, as shown in Figures 1 and 2:

- Absolute consumption, in kWh – represented by the size of the circles;
- Consumption per m^2 – on the horizontal axis; and
- Consumption per room night – on the vertical axis

The circles closest to the origin of the chart therefore represent properties that are more efficient, as they have lower electricity consumption per m2 and per room night, while the circles furthest from the origin represent the laggards in the group.

Fig. 1:

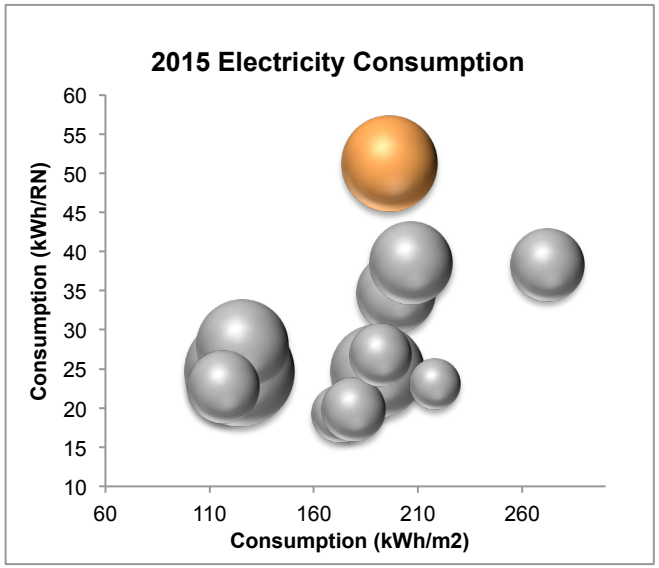
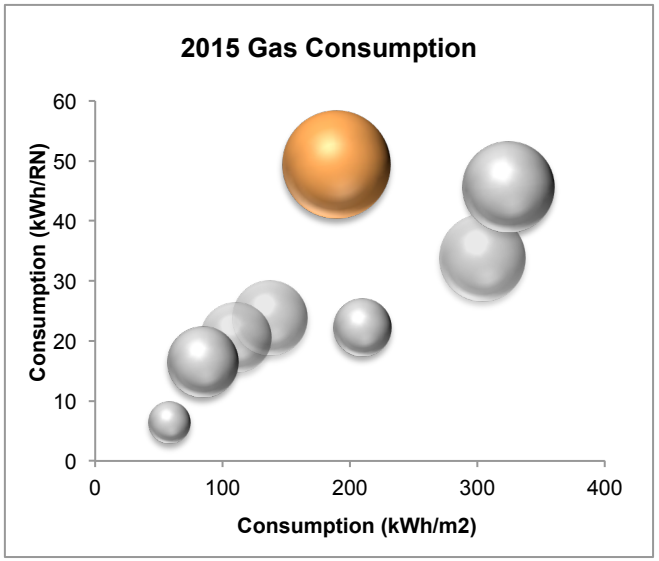


Fig. 2:



What happened next?

Following the submission of these findings, the General Manager at one of the more inefficiently performing hotels (highlighted in Figure 1 and 2 with orange), decided to implement a number of savings initiatives.

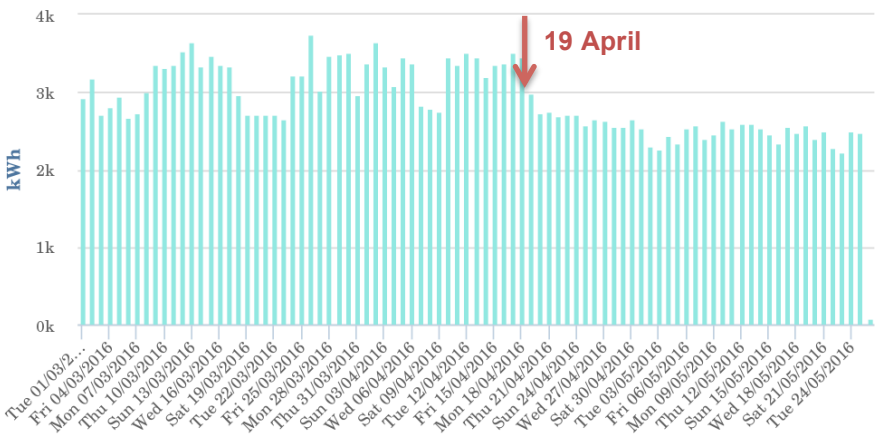
The following initiatives were implemented at the property at the end of April 2016:

- Staff training on energy and water
- Boiler set point reduced from 21.5°C to 19°C
- Peak time set point reduced from 82°C to 80°C
- Chandelier light turned off between 11pm and 5am
- Meeting rooms and unoccupied areas 'switched off'

- Under-floor heating switched off in lobby
- Terraced heating controlled during the day
- Guest room heating turned off from 9am to 6pm
- Trial of low energy LED lighting in meeting rooms
- Dripping taps in kitchen changed

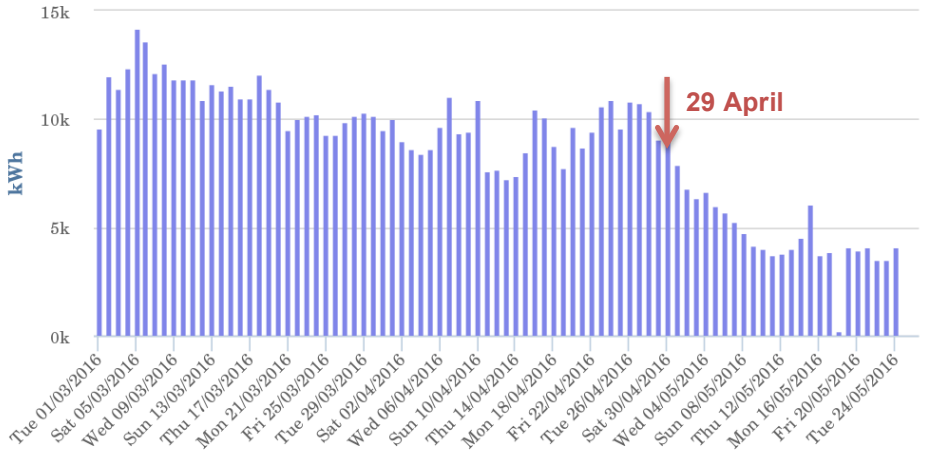
And with Con-Serve, they were able to quantify their results...

Fig. 3: Electricity consumption



£1,817.41 savings in **37 days**

Fig. 4: Gas consumption



£2,714.93 savings in **26 days**