

Carbon Reduction Commitment: impact of early adopter measures

Presenter

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Impact of early adopter measures

- Using voluntary AMR metering to improve league table position and funds recycling.
- Capitalising on the energy data to identify energy waste reducing costs, emissions and improving league table position.



CRC and metering

- You are on the CRC radar if you have one or more half hourly settled meters.
- The qualifying criterion for CRC is if an organisation consumes 6,000 MWh or more of electricity from half hourly metered electricity supplies during the qualifying year (2008).
- The CRC will only capture AMR (remotely read) meters which are the main meters measuring the quantity of electricity supplied to a premises, not sub-meters or clip-on devices.

Electricity metering classes

A half hourly electricity meter includes:

- all electricity consumed through meters settled in the HH market [Mandatory half hourly meters]
- all electricity consumed through profile class 5-8 meters [Mandatory half hourly meters]
- all electricity consumed through AMR profile class 3-4 meters [Voluntary half hourly meters]

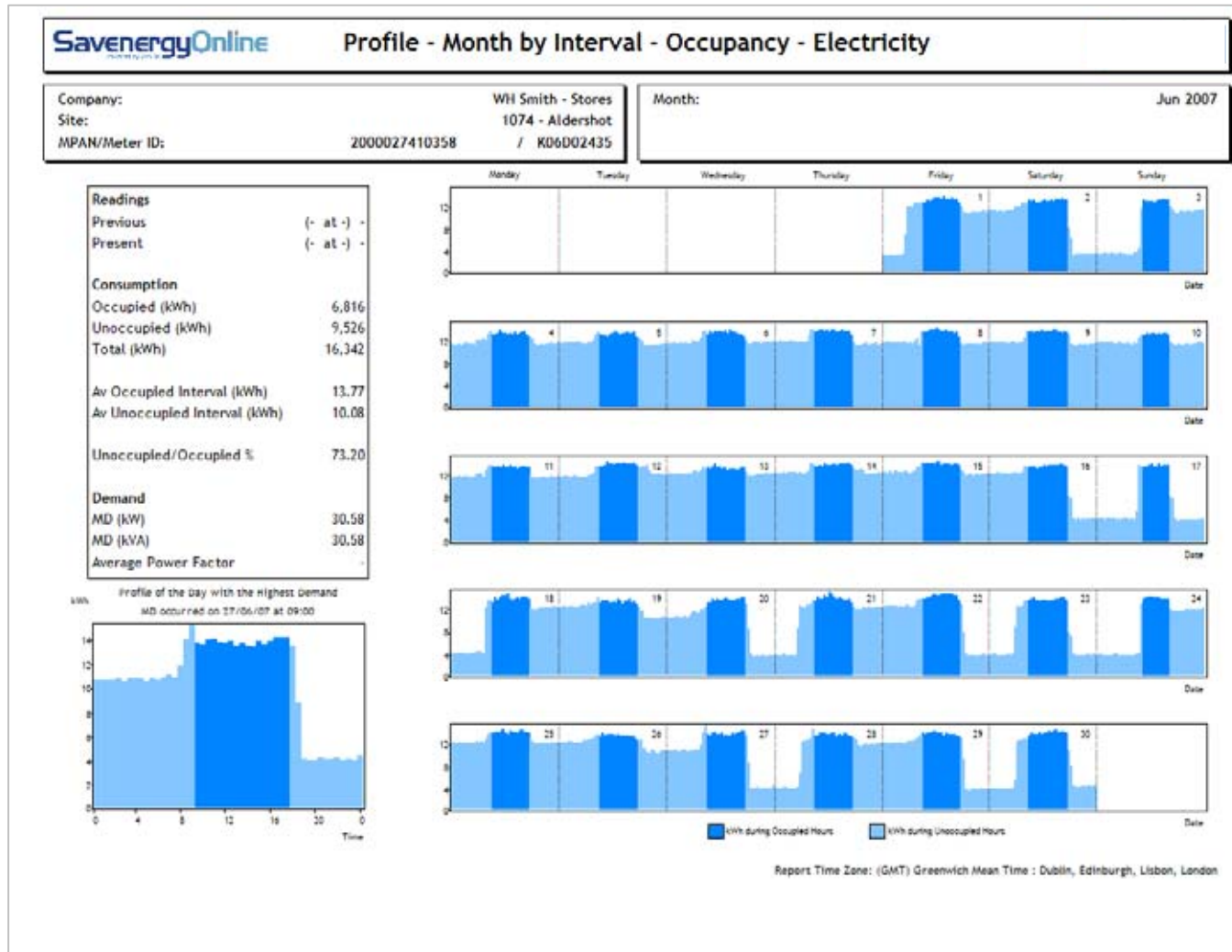
Total energy metering

- If the energy consumed through half hourly electricity meters is 6000MWh or more, then at least 90% of your total footprint emissions must be regulated by the CRC. All your emissions from core sources must be included.
- Core sources include:
 - electricity half hourly meters
 - all daily-read gas meters
 - all gas consumed through AMR meters
 - all non-daily metered gas consumption of more than 73,200 kWh per annum

The Early Action Metric

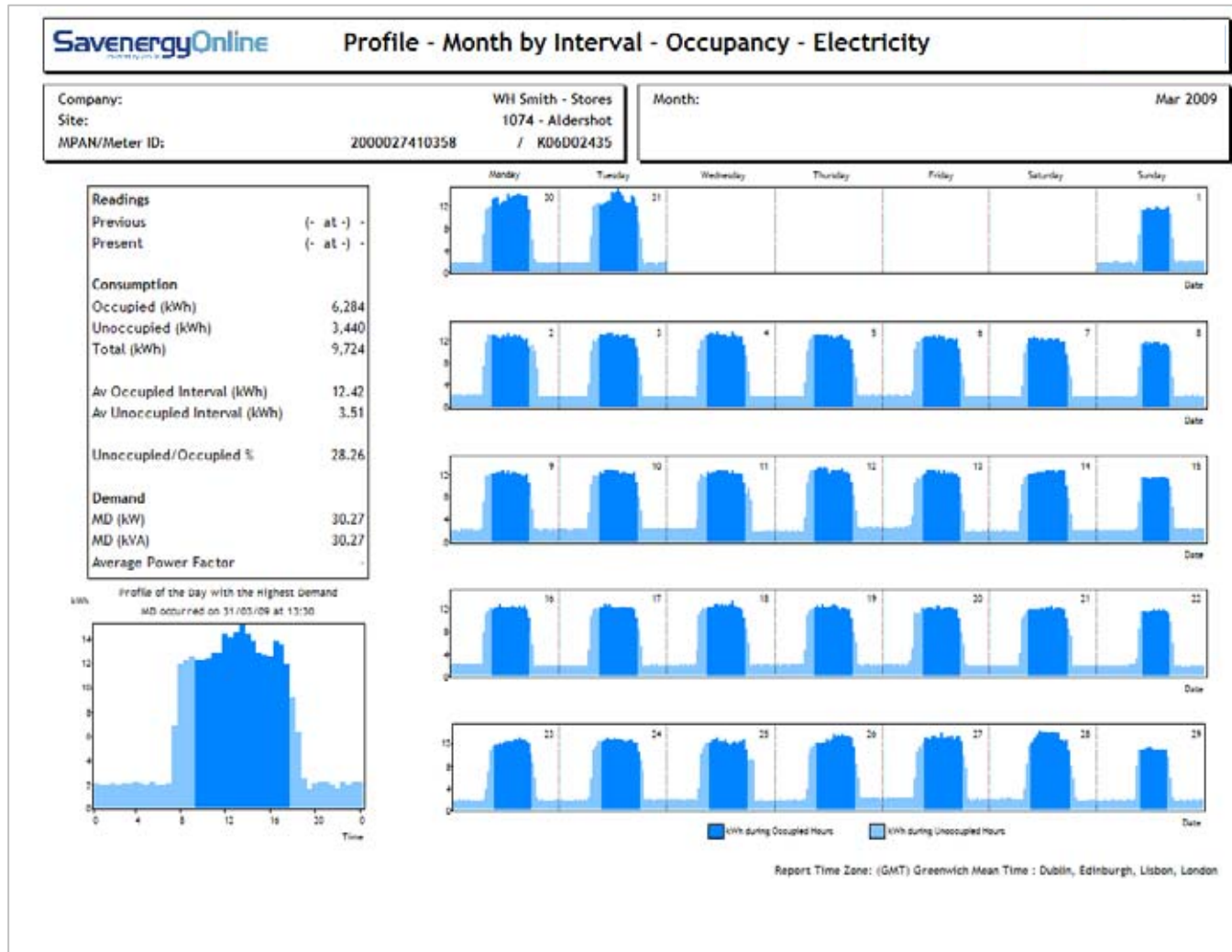
- As an incentive to install AMR meters, and in recognition for good energy management undertaken prior to the start of the scheme, there is a mechanism called the Early Action Metric which rewards participants who install voluntary half hourly electricity and gas AMR by 31 March 2011.
- What's it worth?

1. Eliminate waste - before

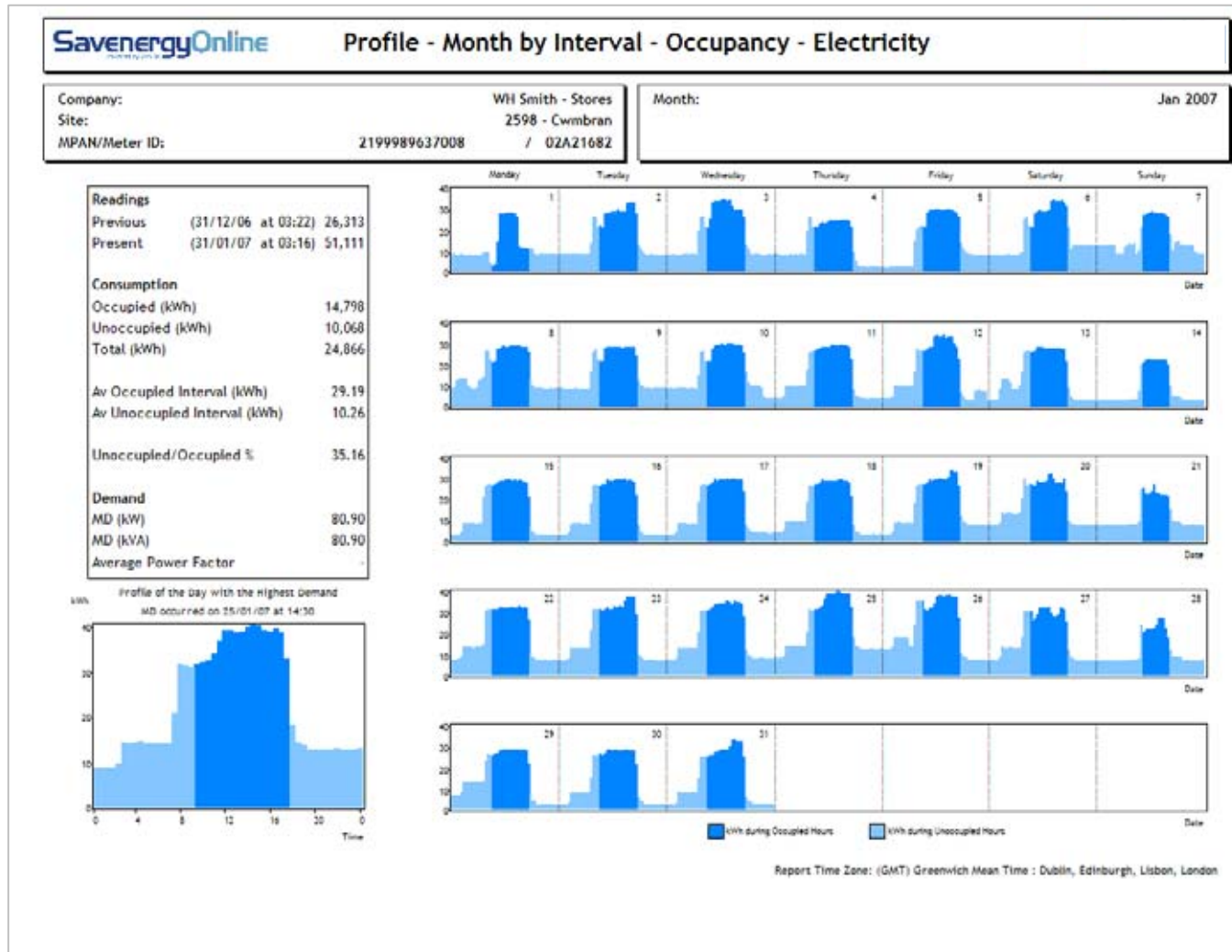


1. Eliminate waste - after

It was discovered that the 'early morning team' who come in to sort the newspapers were using the override facility on the BMS when they arrived for work. This override facility was meant for emergency use only and, by using it, they were switching on all the plant and lighting stayed on 24/7.

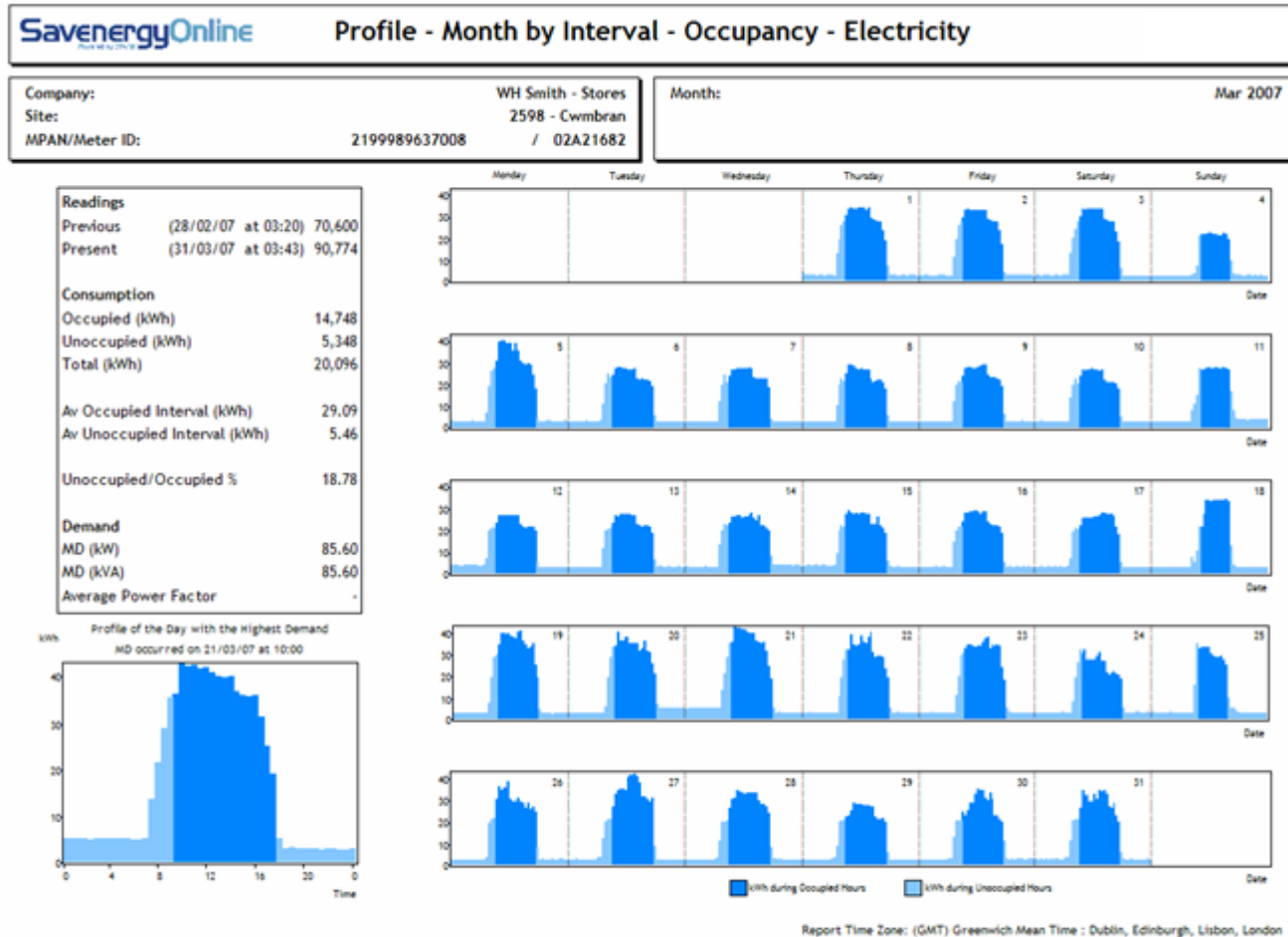


2. Eliminate waste - before

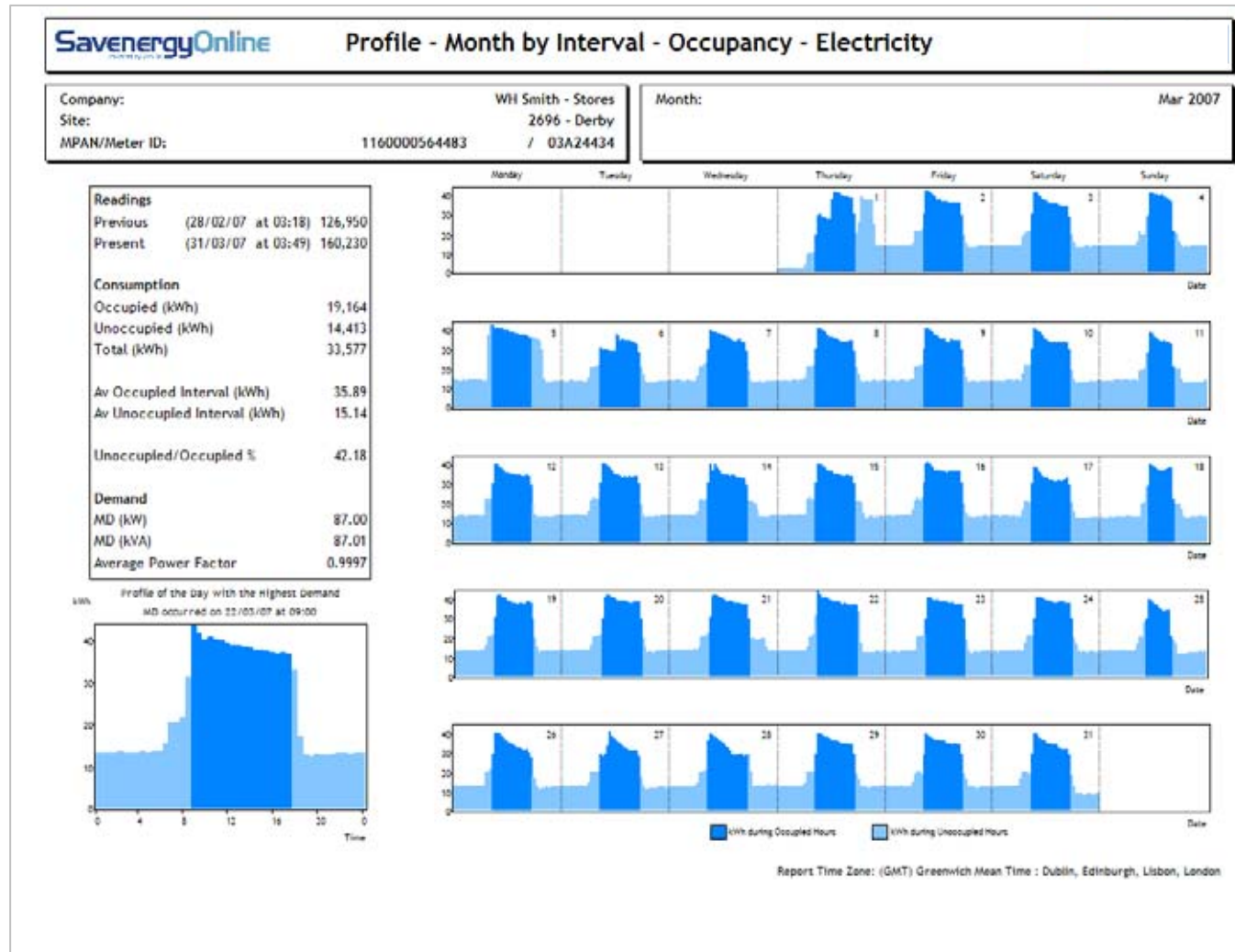


2. Eliminate waste - after

An energy audit found there was a time switch controlling the over door heaters that had been set incorrectly, allowing the heaters to run overnight. A second time switch was found to be controlling the off-sales ventilation plant. Re-setting time switches produced significant savings.

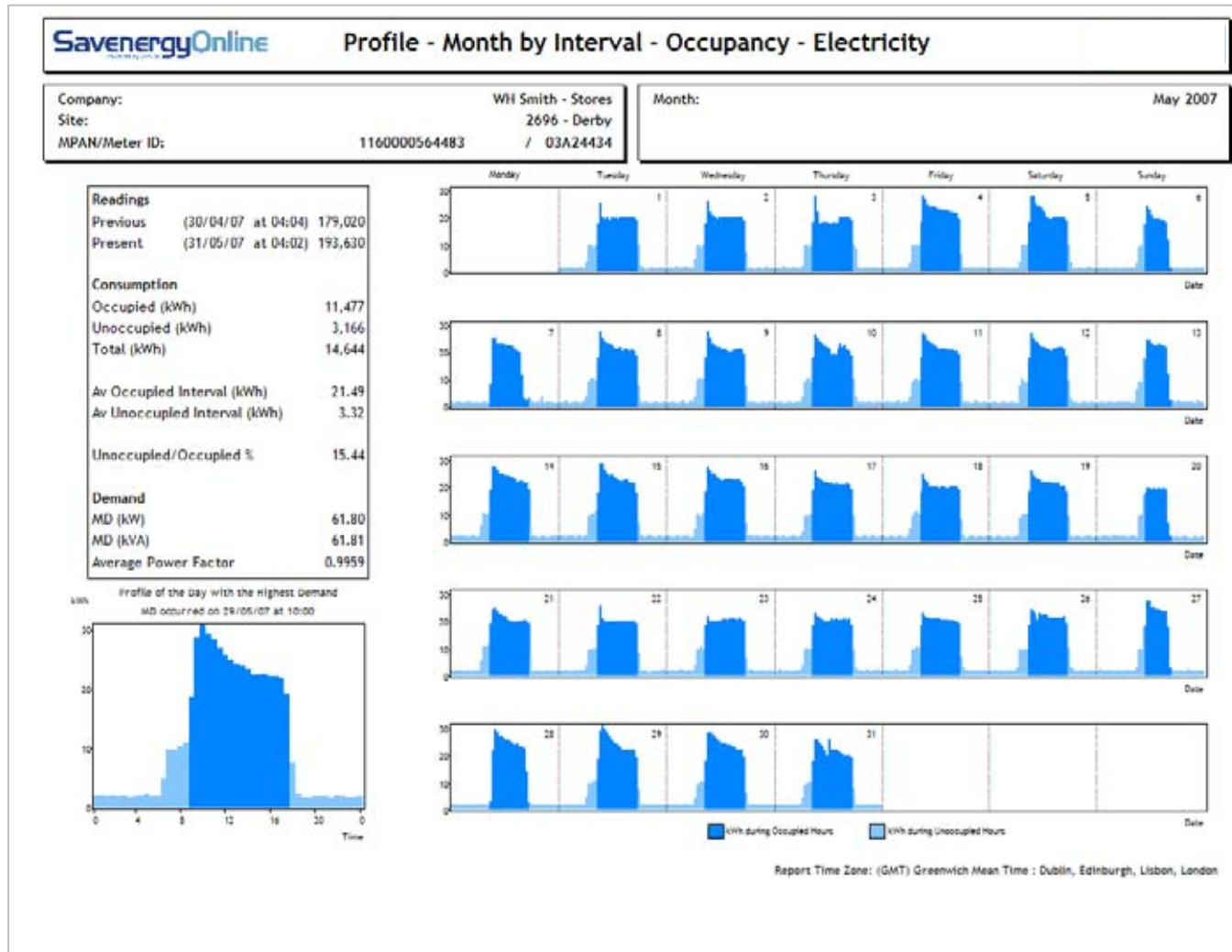


3. Eliminate waste - before



3. Eliminate waste - after

At this brand new store, however, the interface link between the intruder alarm and the building management system had never been installed. This meant the lights were left on all night in error.



Summary

- Identify those meters that make up the 90% of total footprint emissions
- Prioritise the '90%' for AMR
- It's eliminating the waste that will feature most in reducing your footprint and improve you league table standing
- The half hourly data reporting system is the key tool for identifying and monitoring energy performance