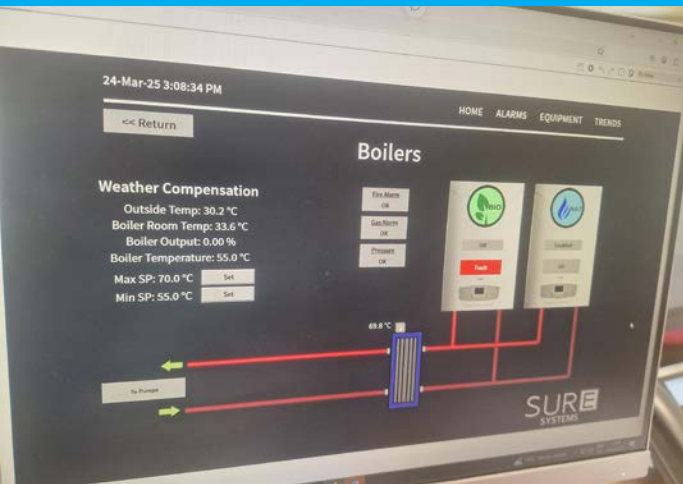
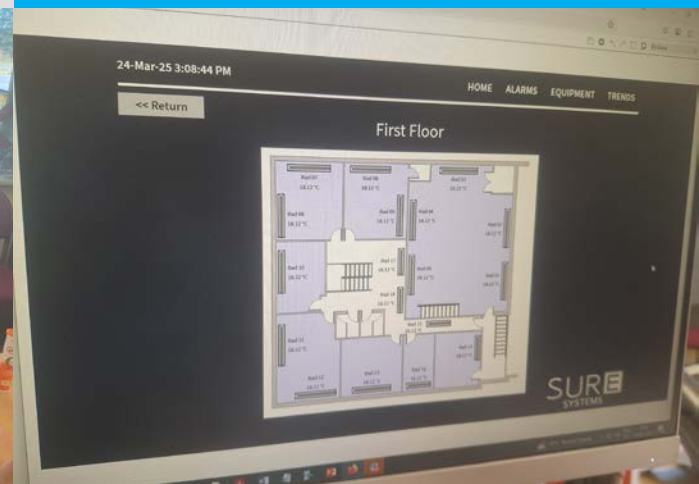
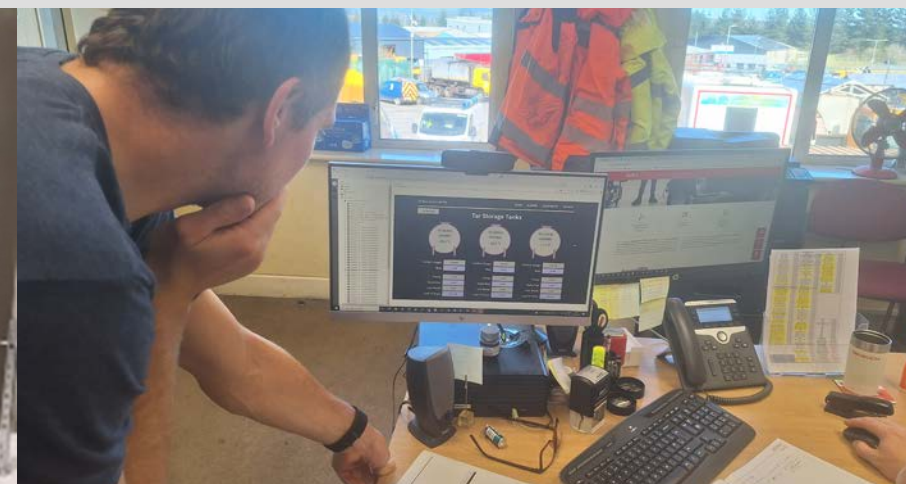
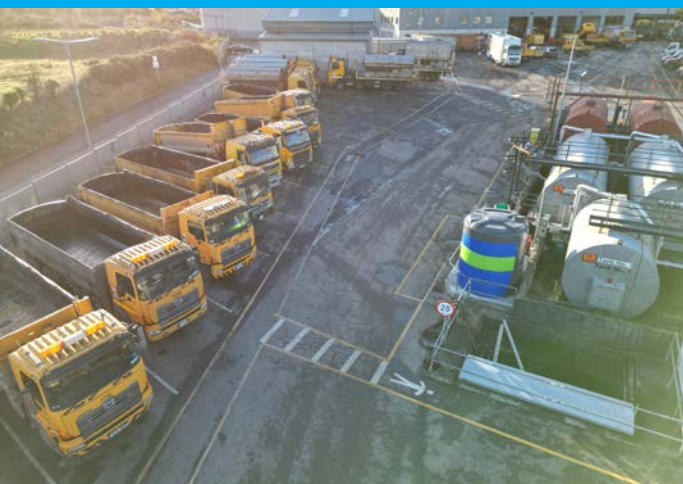


# Kilkenny Going Green



REDUCE  
YOUR USE





# Message from the Chief Executive Officer Kilkenny County Council



I would just like to take this opportunity to thank all staff for participating in the 2024/2025 Kilkenny County Council Reduce Your Use Campaign.

This is our second Reduce Your Use Campaign and we can see what can once again be achieved by taking small steps in investment by introducing new technologies that will assist us reduce our emissions and work towards helping Kilkenny County Council reach our climate action goals. This report is part of an overall communicational strategy that will be used to keep you and the wider public informed on our progress in implementing our agreed actions in the Kilkenny County Council Climate Action Plan 2024-2029.

Special thanks to all the staff in the Kilkenny County Council Machinery Yard who worked with the Climate Action team over the last number of months. It is through collective efforts like this that we can bring about positive change and create a more sustainable future for us all.

Sincerely

Lar Power  
Chief Executive Officer  
Kilkenny County Council

  
**Kilkenny**  
**Going Green**



Comhairle Chontae Chill Chainnigh  
Kilkenny County Council

*Kilkenny*





# REDUCE YOUR USE CAMPAIGN OCTOBER 2024 - MARCH 2025

Kilkenny County Council signed up for the 2024/25 Reduce Your Use campaign. The Reduce Your Use Campaign is a voluntary initiative for the public sector as part of a whole-of-government national campaign to reduce energy use through the winter months.

Running from November 2024 to March 2025, we asked the machinery yard to participate in the programme as they had recently installed a Building Management System that was designed to control the operation of the heating system in the machinery yard. The Machinery yard had also started to run some of their fleet using HVO fuel and this was also part of the overall plan to reduce emissions.

OVERALL TARGET  
**15%**  
ENERGY SAVINGS



REDUCE YOUR USE

By reducing our daily energy use,  
we can save money and limit our  
reliance on imported fossil fuels.

[Find out more](#)



Kilias na Míreann  
Government of Ireland



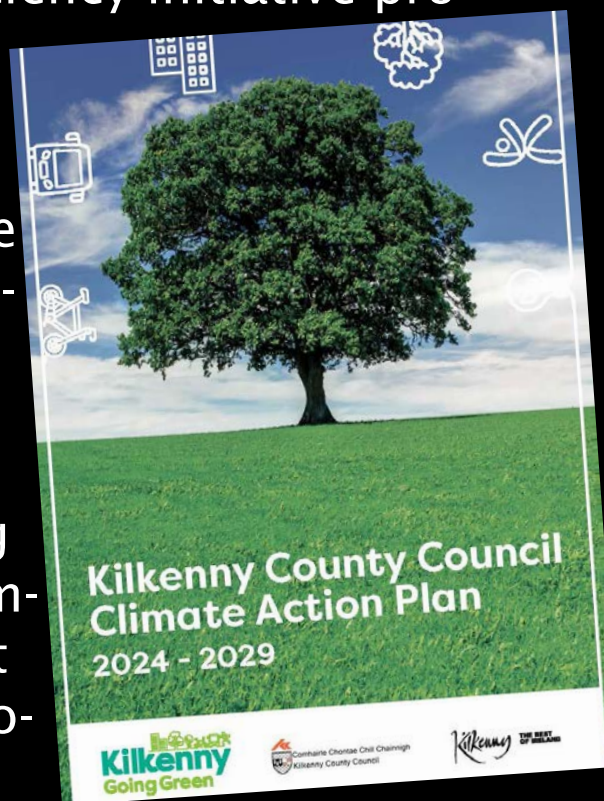
# OBJECTIVE

The overall objective of the Reduce Your Use Campaign for the Kilkenny Co Co machinery yard was to reach a combined energy savings on buildings between November 2024 to March 2025 of 15%.

Given Kilkenny County Councils commitment to reducing emissions in the recently launched Kilkenny County Council Climate Action Plan 2024-2029 and the ongoing situation in relation to energy prices and supply, there is now a concerted effort across Kilkenny County Council and the public sector to lead by example in lowering energy consumption and costs.

The Reduce Your Use energy efficiency initiative provides a structured programme of energy saving activities that Kilkenny County Council can use to help us reach our targets in the recently published Kilkenny County Council Climate Action Plan 2024-2029.

The Initiative is focused on taking action in the short term and on implementing measures that will set our organisations on a pathway towards achieving our 2030 energy efficiency targets.



## KILKENNY CO CO MACHINERY YARD BUILDING MANAGEMENT SYSTEM

**REDUCE YOUR USE**

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[Find out more](#)



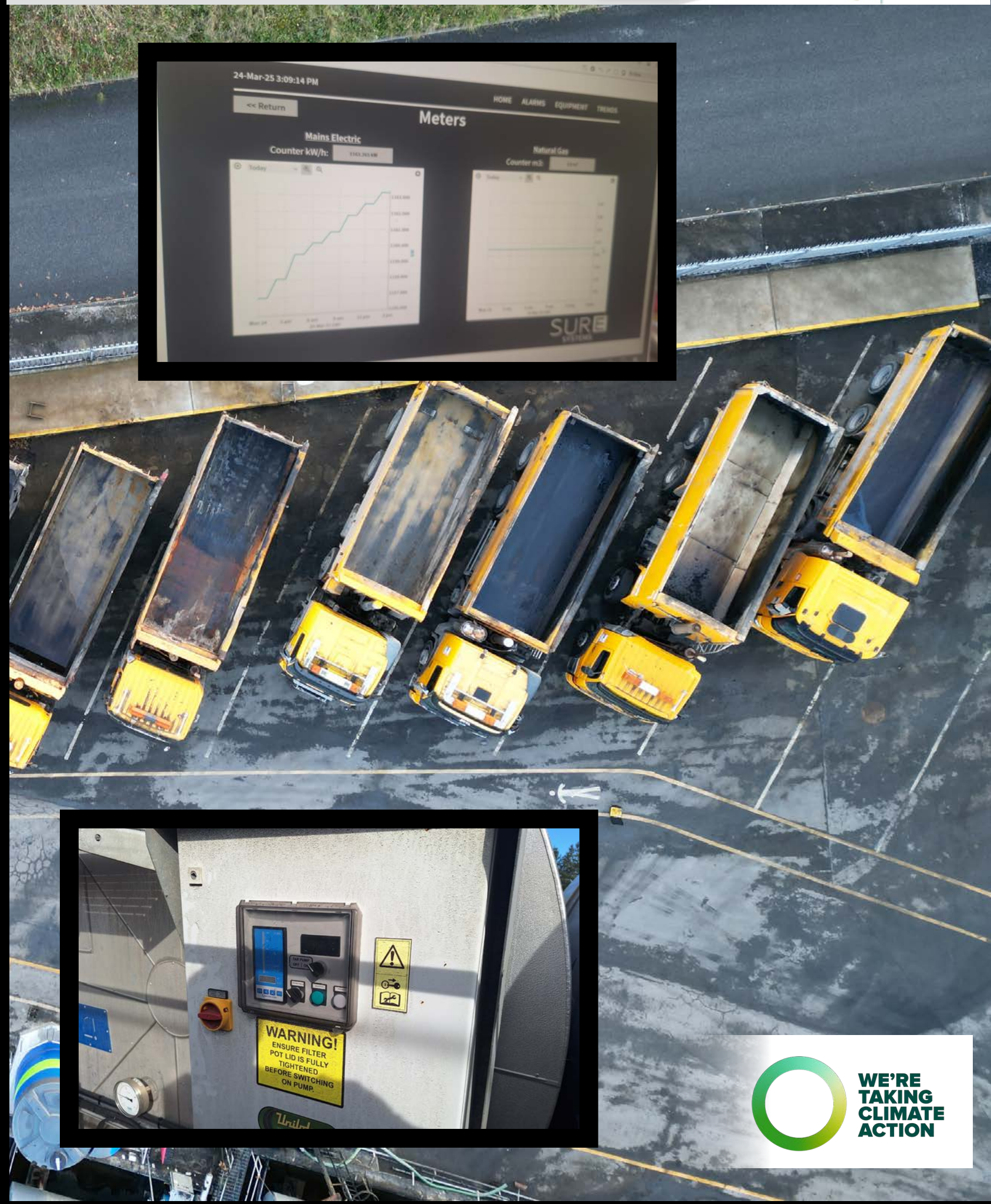
# BENEFITS OF BUILDING MANAGEMENT SYSTEMS

A Building Management System (BMS) can help reduce energy and maintenance costs by maintaining building temperatures within a specified range, lighting rooms according to an occupancy schedule, monitoring performance and device failures in all systems and notifying facility managers in the event of a malfunction.

## KEY BENEFITS INCLUDE

**Improved Energy Efficiency:** BMS systems can monitor and control various building systems, including HVAC, lighting, and power, to optimize energy usage. This can lead to significant energy savings, potentially reducing energy bills by 5% to 15% on average

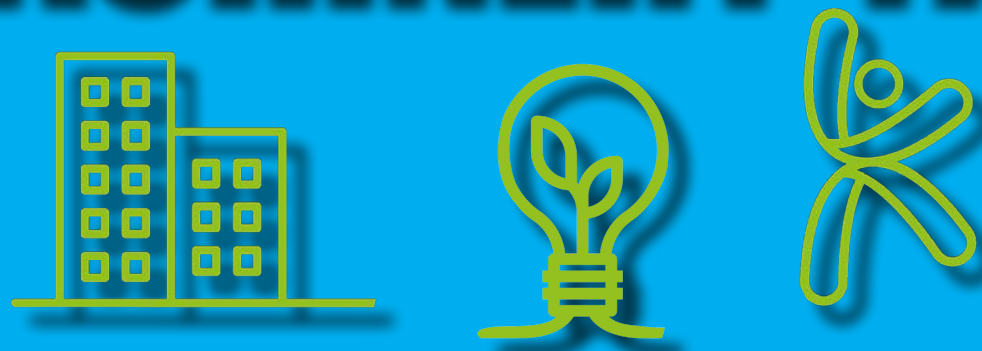
**Return on Investment:** While there is an initial investment in a BMS, the long-term benefits can outweigh the costs, especially considering reduced energy and maintenance expense.





REDUCE  
YOUR USE

# ACTIONS TAKEN IN THE KILKENNY CO CO MACHINERY YARD







# Kilkenny Going Green

Since 2016 the Kilkenny Machinery Yard has implemented a number of projects to reduce its energy consumption and overall carbon emissions, they include;

## Lighting Upgrade

External Lighting replaced to LED in 2017

Internal Lighting replaced to LED in 2021

## Heating

Two gas boilers replaced to high efficiency boilers in 2021 and 2023

Switching of one gas boiler from natural gas to biomethane supplied from Ormonde upgrading, Portlaw County Waterford.

## Solar PV

11kW solar PV array installed on roof of workshop in 2016.

## Fleet

Installation of two twin 22kW EV chargers.

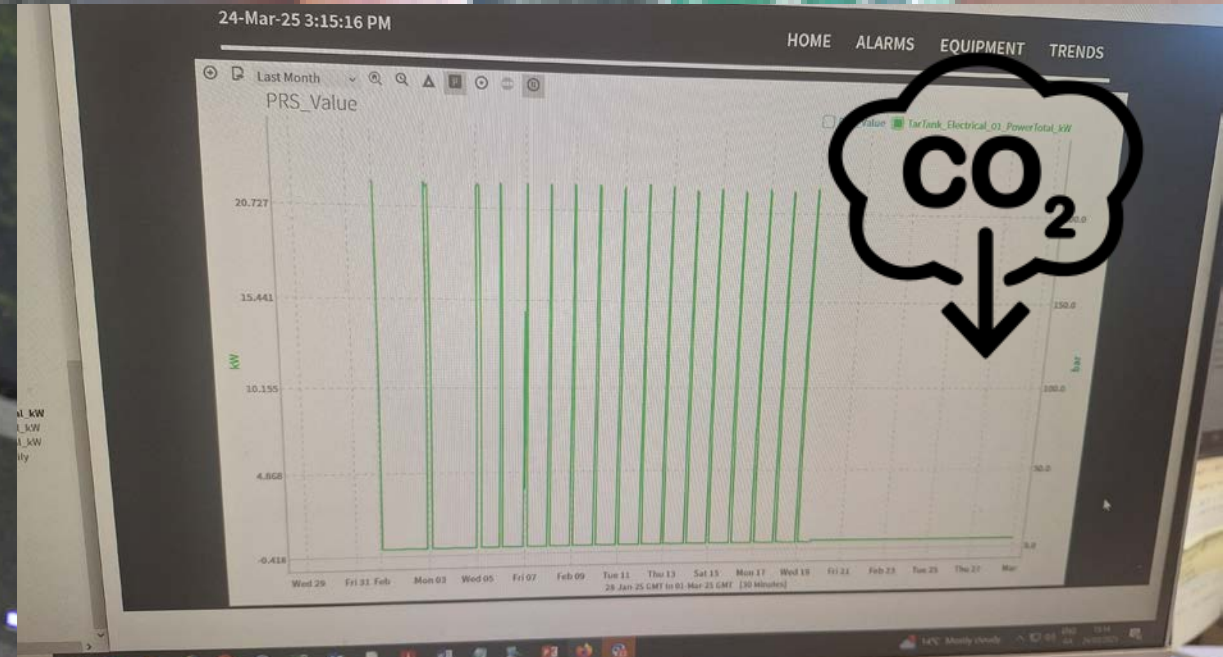
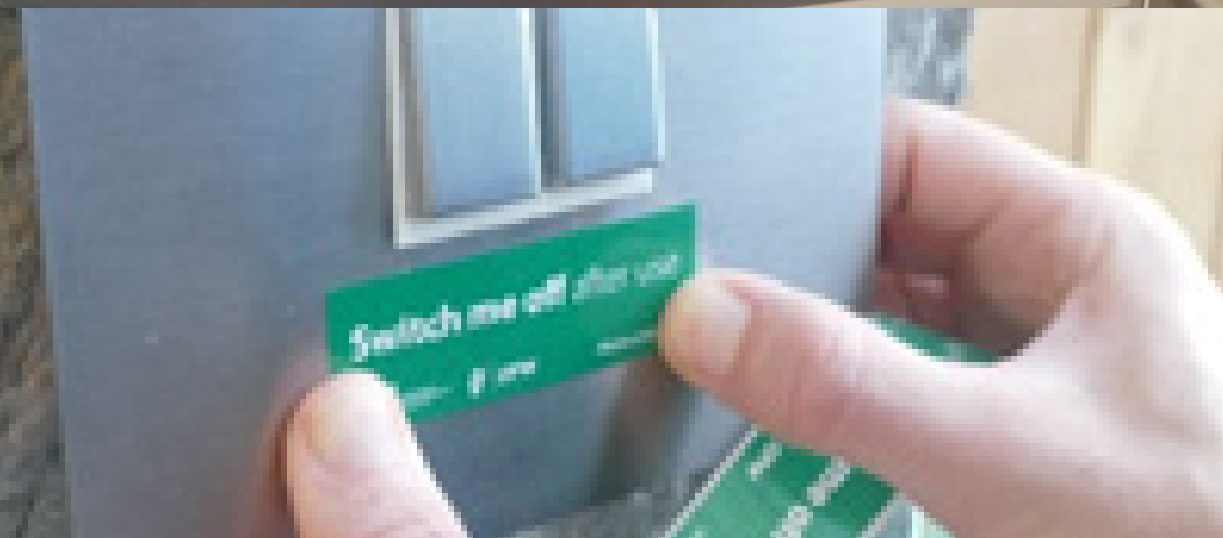
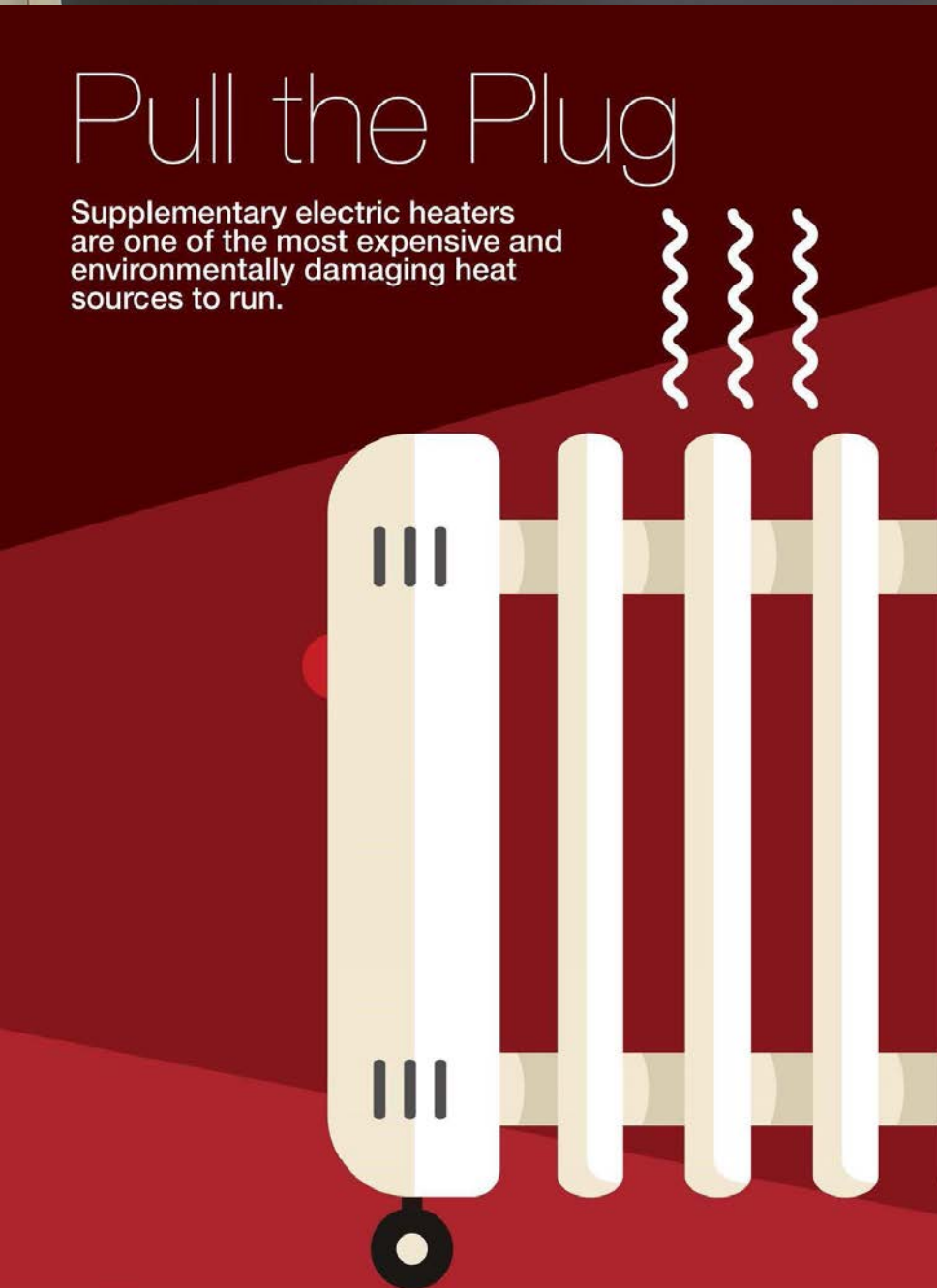
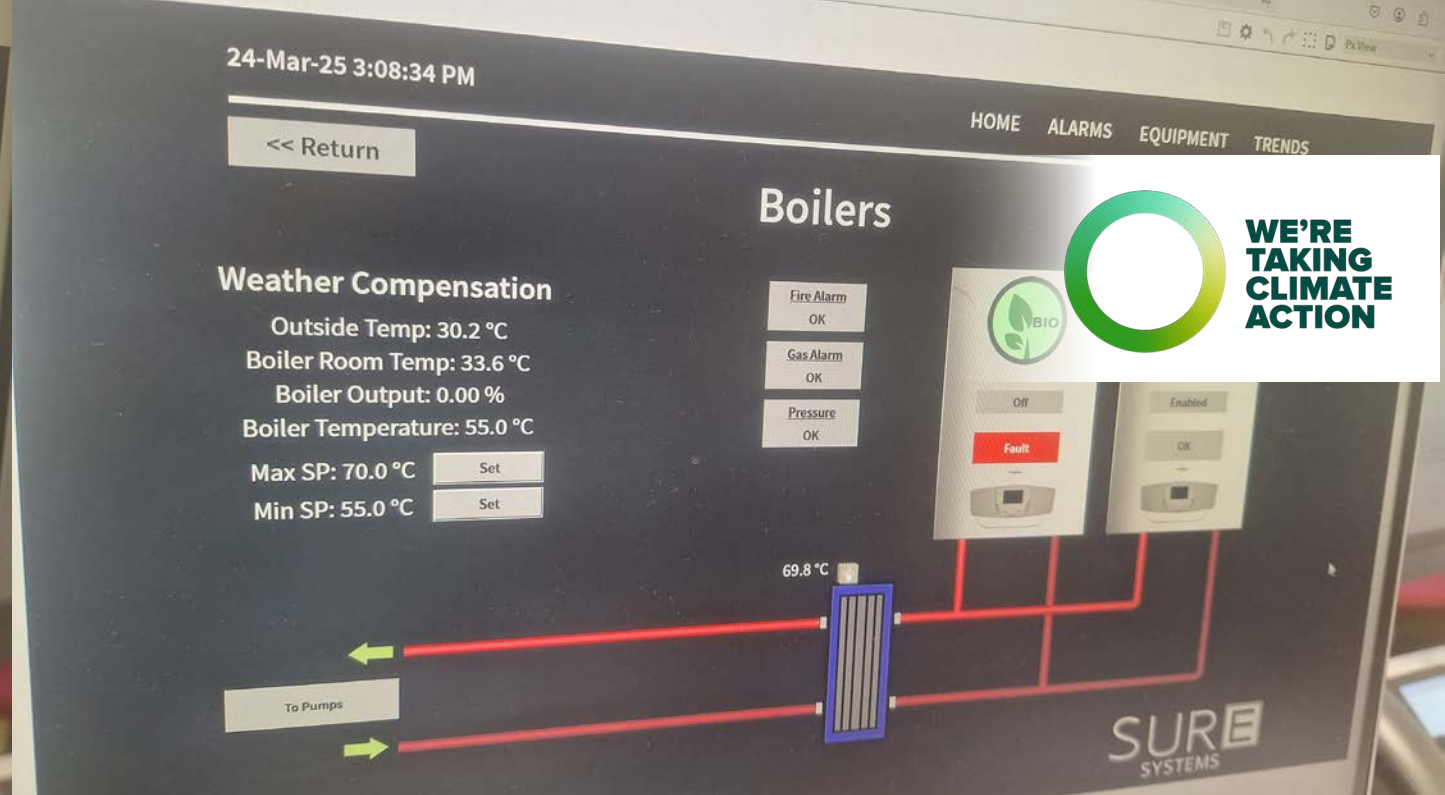
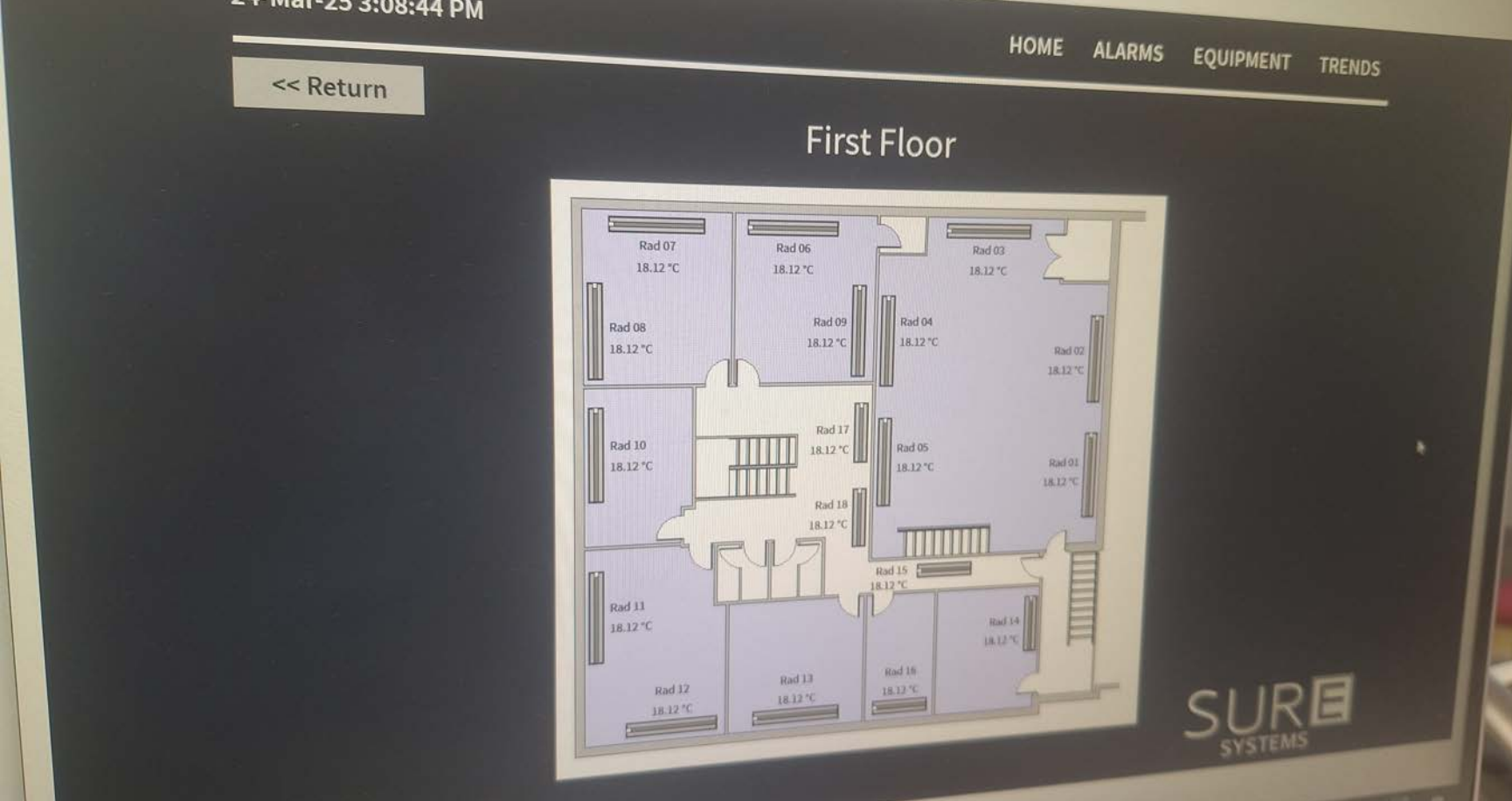
Trial of HVO in 10 council vehicles.

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# REDUCE YOUR USE

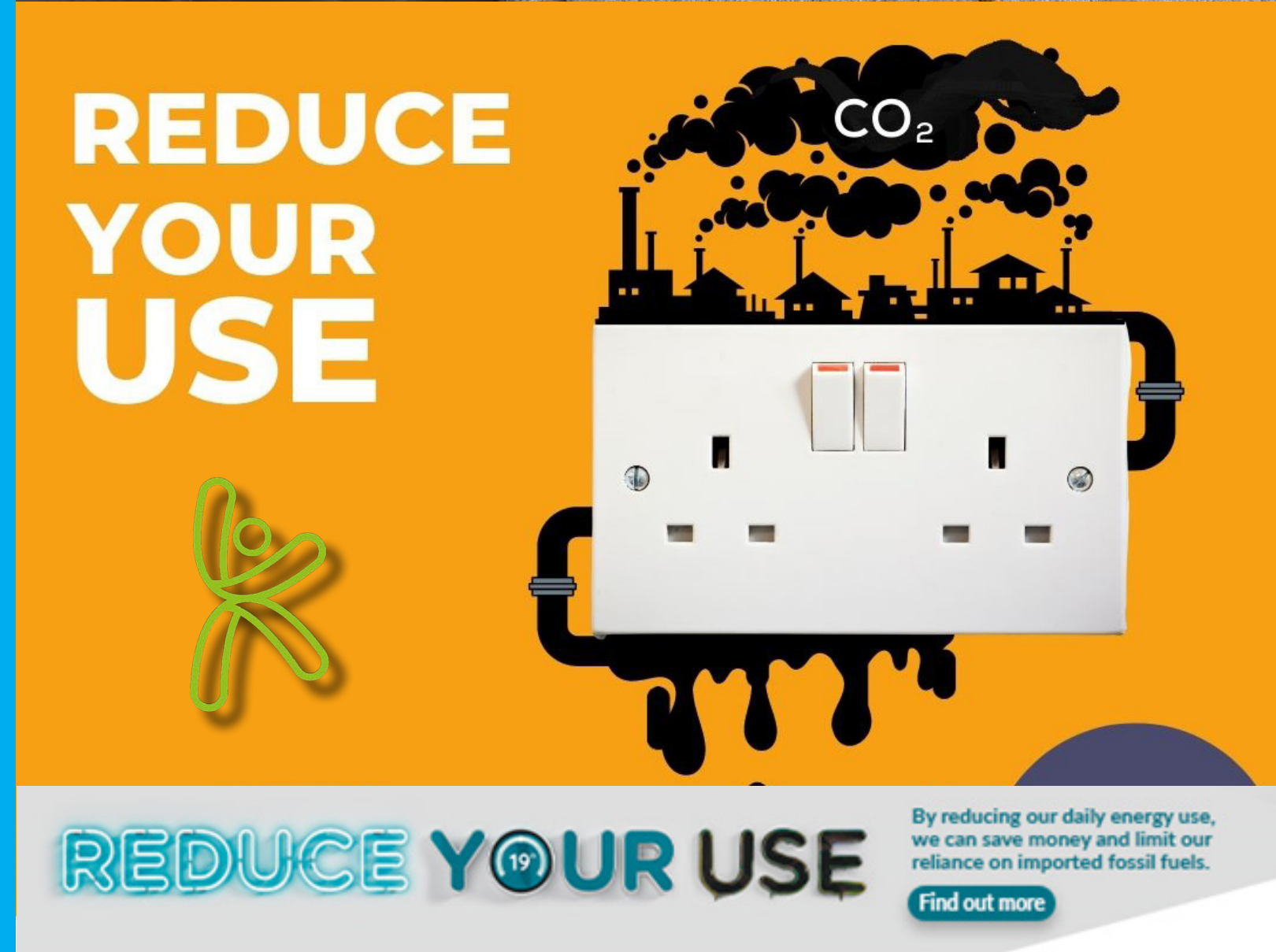
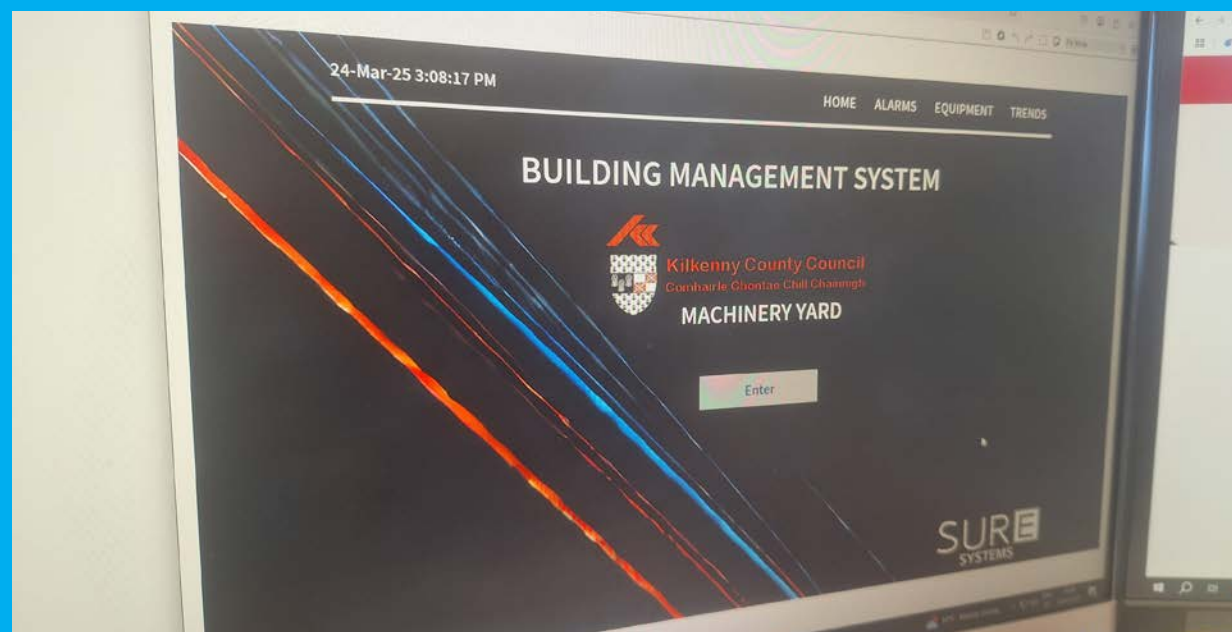


# The Reduce Your Use Measures incorporated in the Kilkenny County Council Machinery Yard

The heating system was previously controlled by two switches and a temperature sensor. This was upgraded in 2024 to a BMS installed by Sure Systems based in Carrick-on-Suir, Co. Tipperary.

The new BMS is now computer based and managed by the facility manager. Each radiator in the building was equipped with smart radiator thermostat communicating to the BMS by wireless technology. The Facility Manager has now full control of the heating time schedule and heating setpoint in each room.

A monitoring system has been added to the BMS to allow for the tracking of the main energy users on site and the identification of potential opportunities for future energy savings.

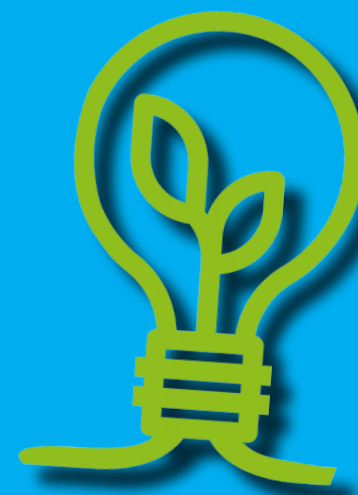




# CALCULATING

## THE REDUCTION IN ENERGY USE

*in the Kilkenney Co Co Machinery Yard*

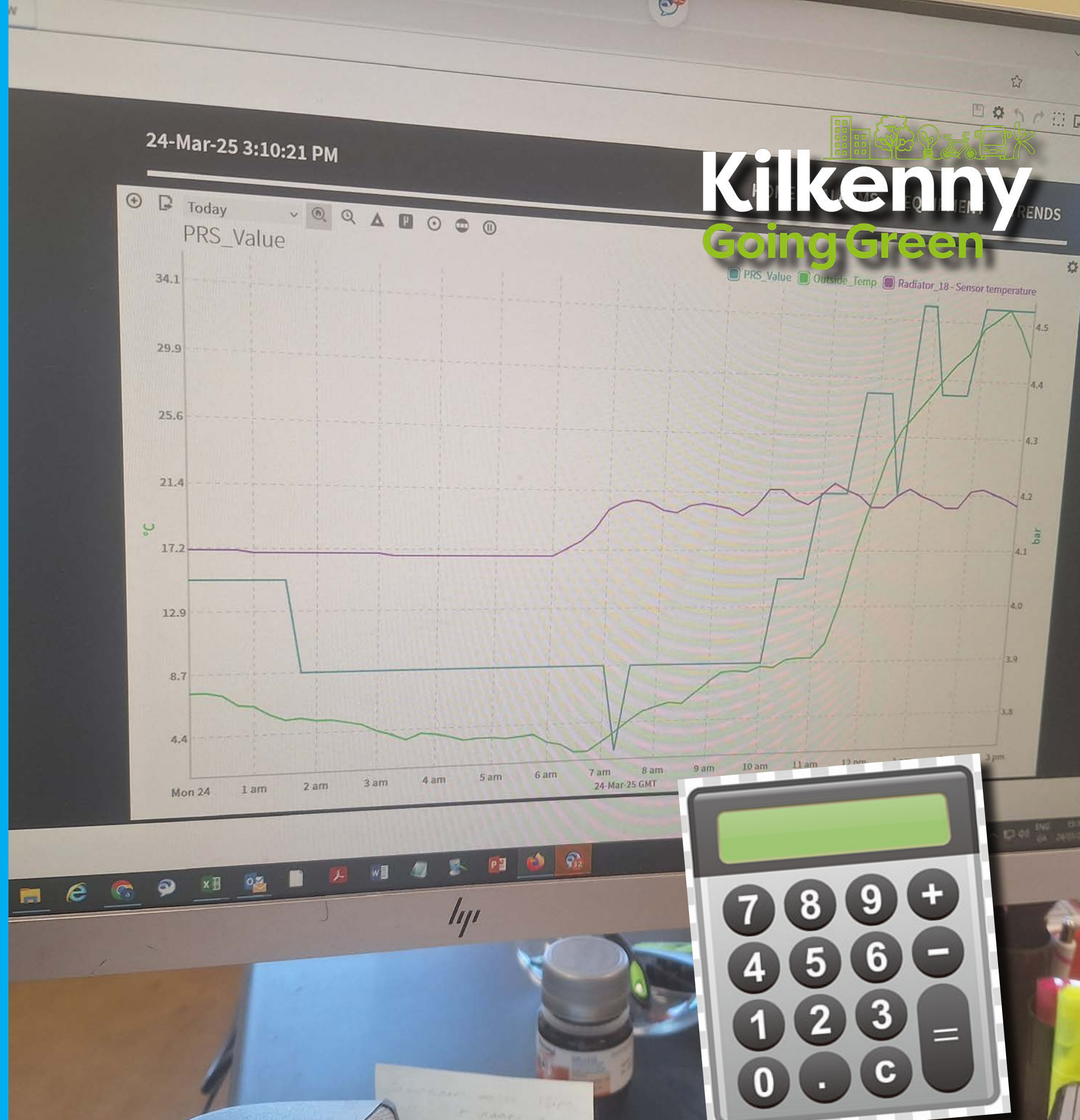




# CALCULATING THE RESULTS

Monitoring data recorded by the BMS alongside bills data and meter readings were used when comparing the current energy performance of the site with the baseline energy performance for the 2019/2020 period.

The BMS records readings from the gas and electricity meters. For the biomethane, it records the pressure of the gas in the storage units. This pressure can then be used to estimate the volume of gas remaining in the storage units and the consumption over a period of time.



Kilkenny  
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Riadas na hÉireann  
Government of Ireland

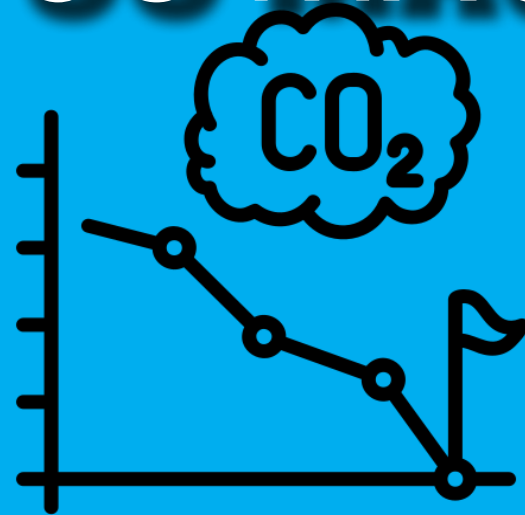


SOUTH EAST  
ENERGY AGENCY



# THE RESULTS

## KILKENNY CO CO MACHINERY YARD





REDUCE  
YOUR USE

OVERALL TARGET  
FOR THE MACHINERY YARD = 15%

*achieved*

35%

*i.e. combined total reduction  
in energy use*

*Total CO<sub>2</sub>  
Savings*

18.5 tonnes pa



*Financial  
Savings*

4,200 pa





# Kilkenny Going Green

[WWW.KILKENNYCOCO.IE](http://WWW.KILKENNYCOCO.IE)

REDUCE  
YOUR USE