

# CATALYST



## Royal Mail

# Royal Mail: A Success Story in Scalable Energy Data Transformation

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# Agenda



- About Royal Mail
- The Story
- See it in Action
- Q&A

# About Royal Mail

# Royal Mail: Powered by Posties

UK and Northern Ireland's national postal service, trusted to deliver mail for 500 years

Our posties walk up to a billion steps a day visiting 32 million addresses to deliver over 6 billions letters and a billion parcels

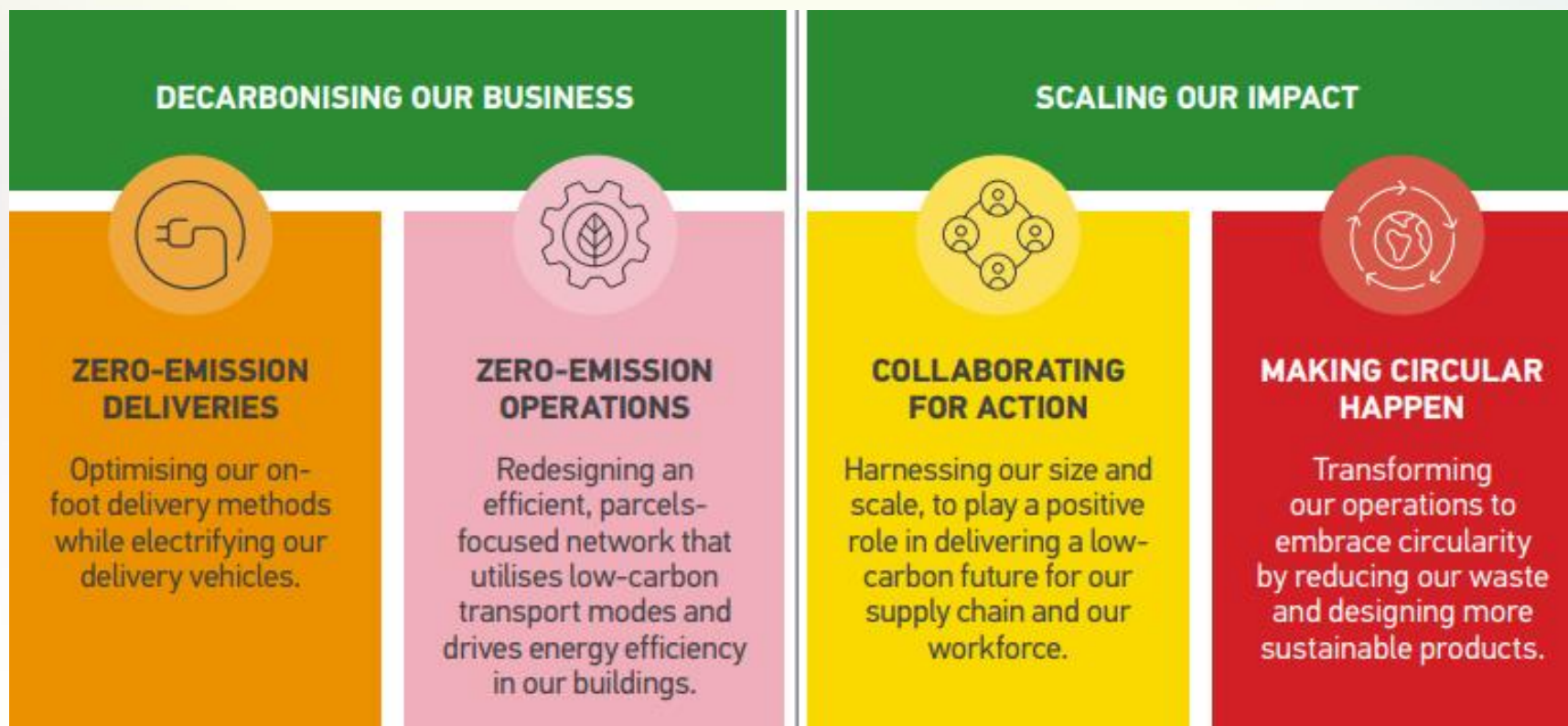
Property estate of over 1,400 sites, ranging from large regional mail centres and parcel hubs to local delivery offices

We have over 100,000 employees and operate the UK's largest electric van delivery fleet with over 6,000 final mile vehicles



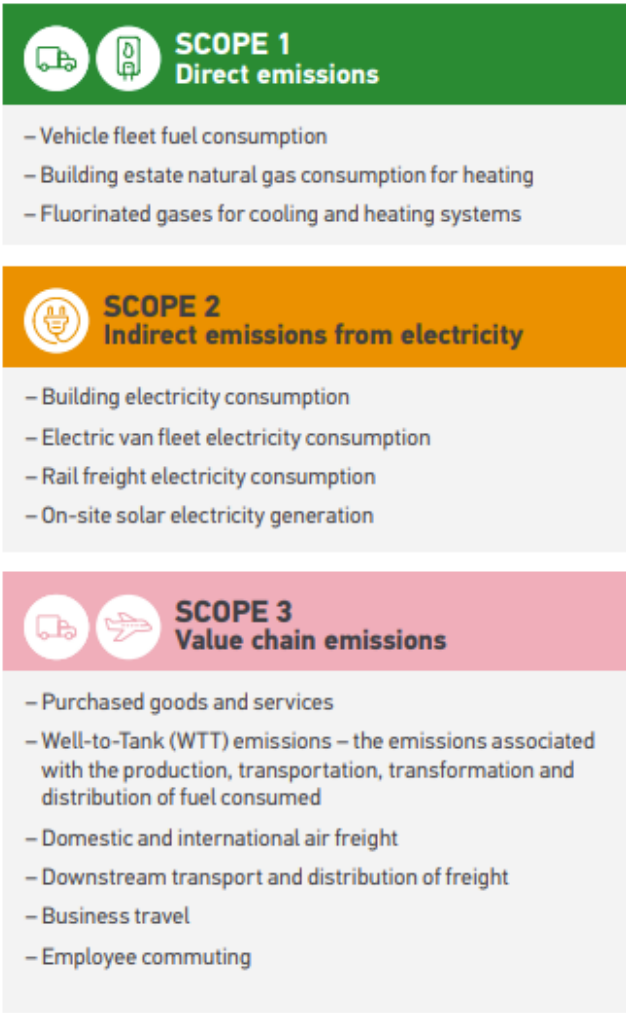
# Steps to Zero

Proud to be UK's greenest parcel operator (200g CO<sub>2</sub>e per parcel) with Net Zero goals by 2040 and with interim targets to be achieved by 2030 and 2035. Targets validated by Science Based Targets Initiative (SBTi).



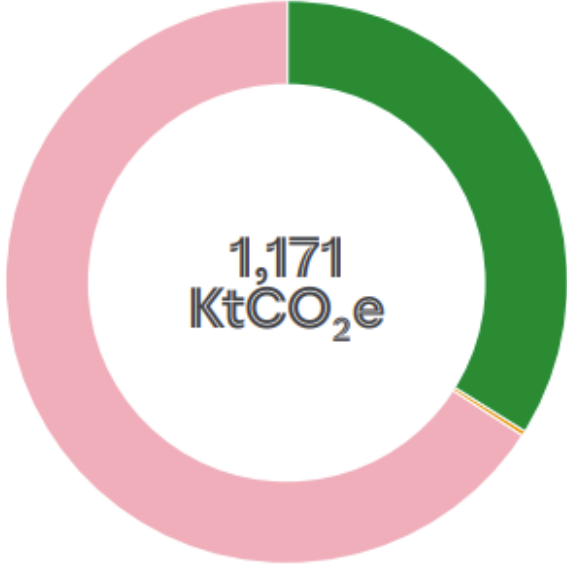
# Steps to Zero

## UNDERSTANDING OUR EMISSIONS



## EMISSIONS BY SCOPE

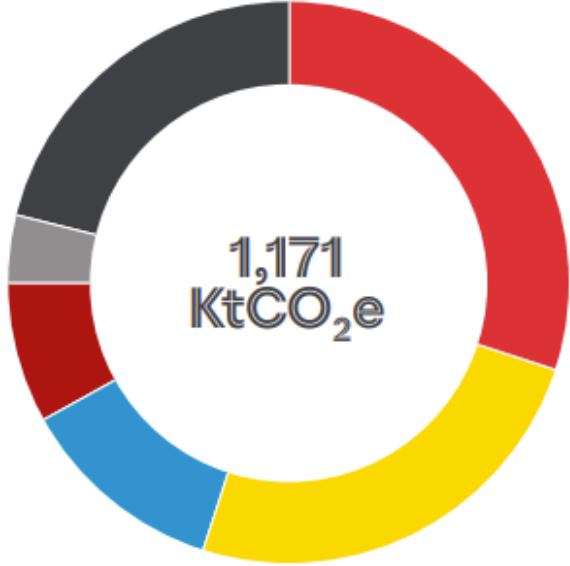
Our direct emissions (Scope 1) and indirect emissions (Scopes 2 and 3) are equally significant, recognising the need to decarbonise our fleet of around 46,000 vehicles<sup>9</sup> and 1,400 properties, along with supply chain transport providers and other purchased goods and services. Under a market-based approach, our Scope 2 emissions are near zero because we predominantly purchase and generate 100% renewable electricity. A further breakdown of our Scope 3 emissions by category can be found on page 19.



34%	Scope 1 (394.6KtCO <sub>2</sub> e)
0%	Scope 2* (0.3KtCO <sub>2</sub> e)
66%	Scope 3 (775.8KtCO <sub>2</sub> e)

## EMISSIONS BY ACTIVITY

We segment our emissions into key business activities and recognise that our international and domestic transport networks are our highest emission activities at present. Our final-mile emissions are comparatively very low for our industry due to our local delivery office presence, coupled with a growing zero-emission delivery model.



30%	Domestic transport network
25%	International transport network
12%	Domestic final mile
8%	Our estate
4%	Our people
21%	Supply chain spend and other

# The Story

## Before...

- Previously manual, spreadsheet-based processes
- Data only available from third party providers or utilities suppliers
- Limited visibility into energy anomalies, trends and efficiency
- Difficult to overlay different utilities and integrate other data sets
- Need for better automation, analytics, and behavioural insights
- Half-hourly gas and electricity data logging at over 1,400 buildings going back nearly a decade
- Over 500 billion data points but no way to extract value from the data!

*"It was all manual. It was all spreadsheet-based." – Aleem Hussain, Energy Manager – Royal Mail*



## Now...

Smart Analytics for real-time data tracking

Quick and easy access to utilities data, e.g. from phone or tablet

Ability to overlay different utilities and compare buildings

Dashboards and simplified charts to help drive behaviour change

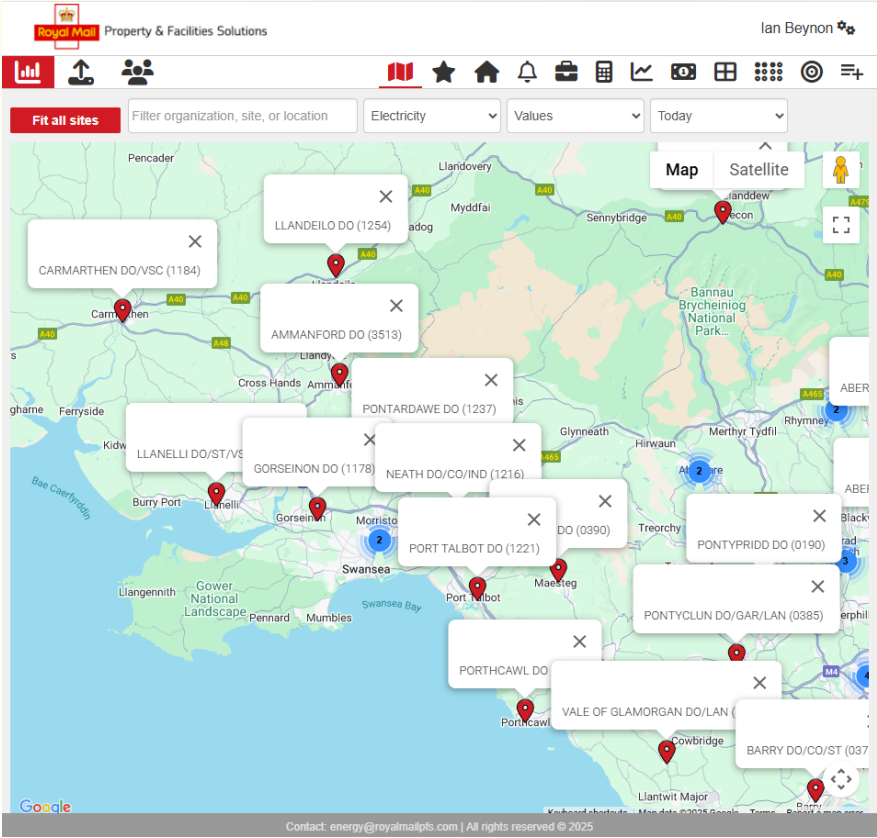
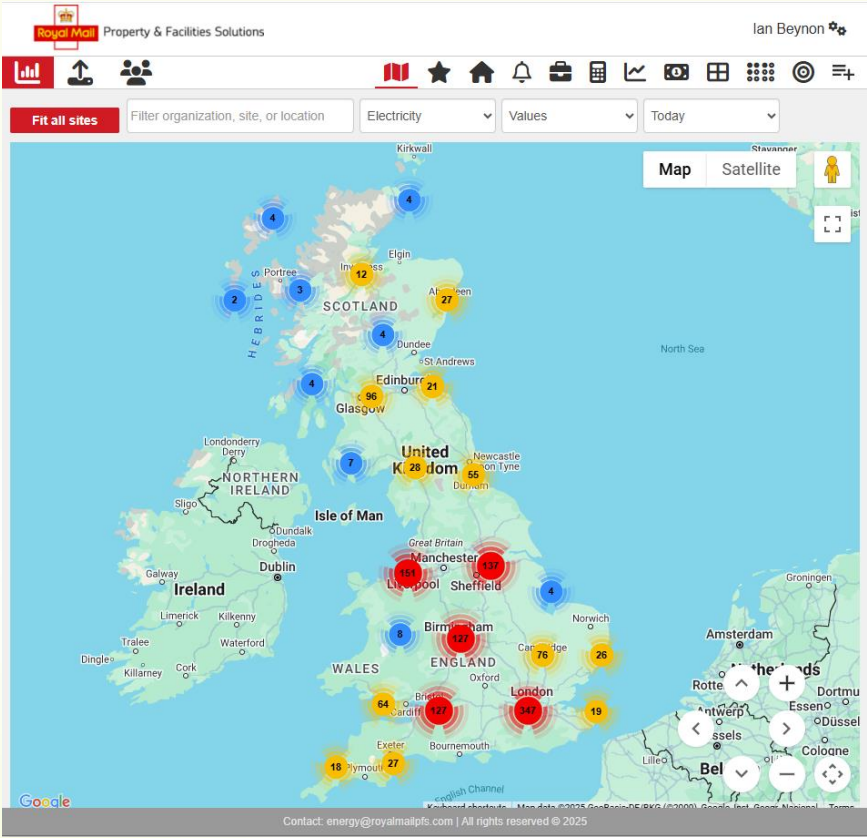
Data loggers installed on water supplies covering half of our estate usage

Sub-metering in our largest sites to measure HVAC, lighting and process loads

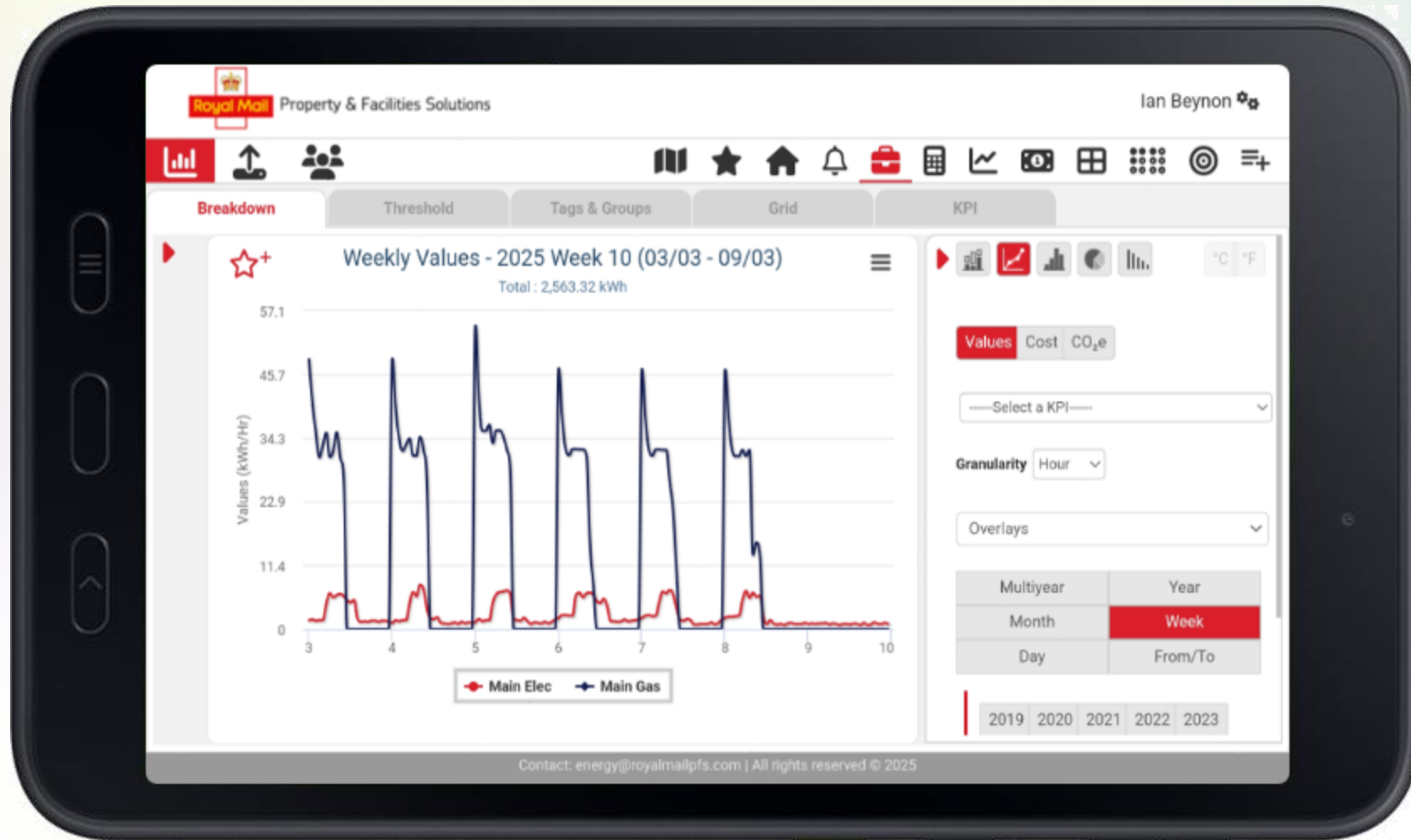
Ability to readily provide measurement and verification (M&V) of projects and provide accurate data for business cases

**See it in Action**

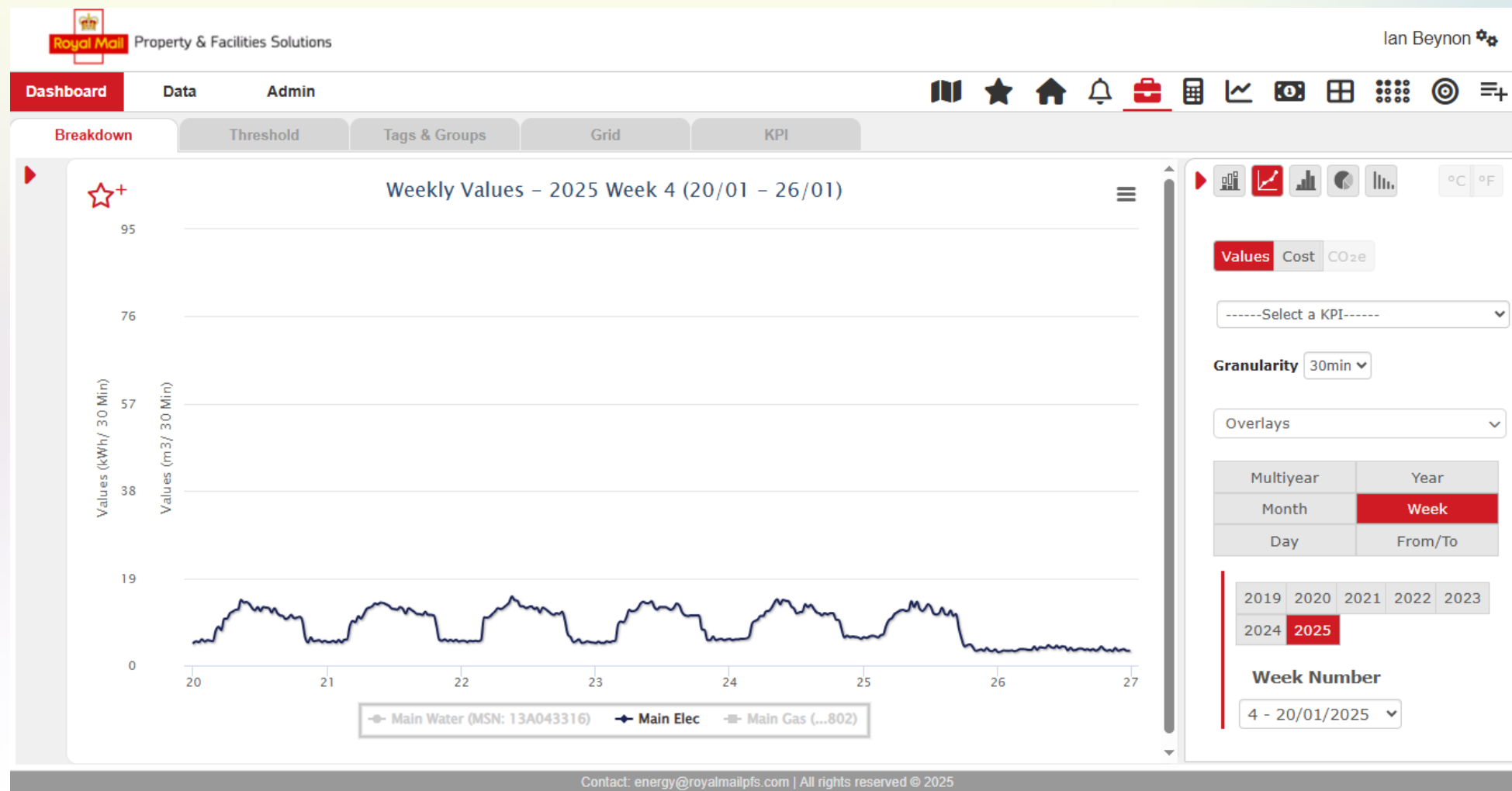
# Map View



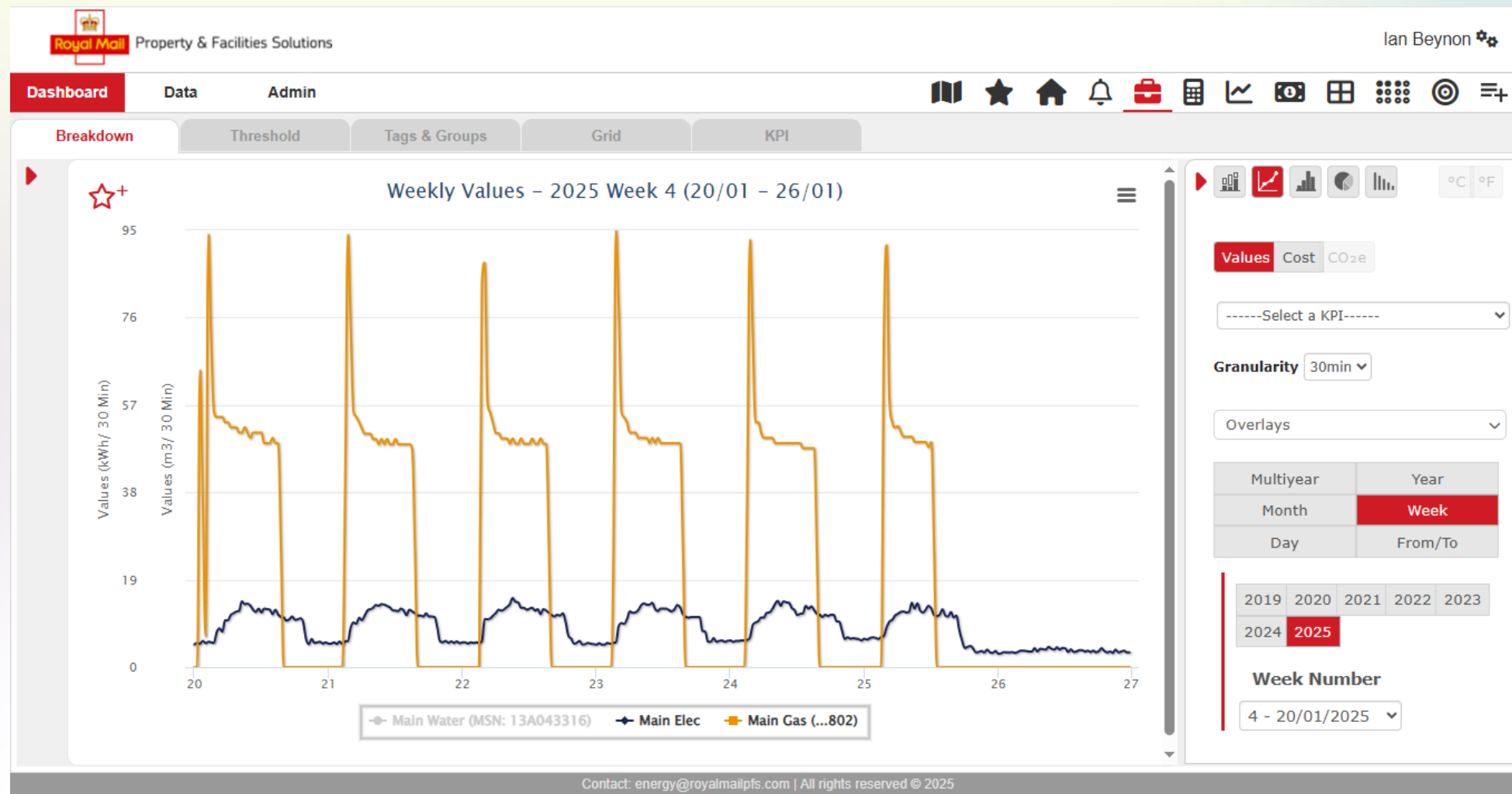
# Mobile Devices



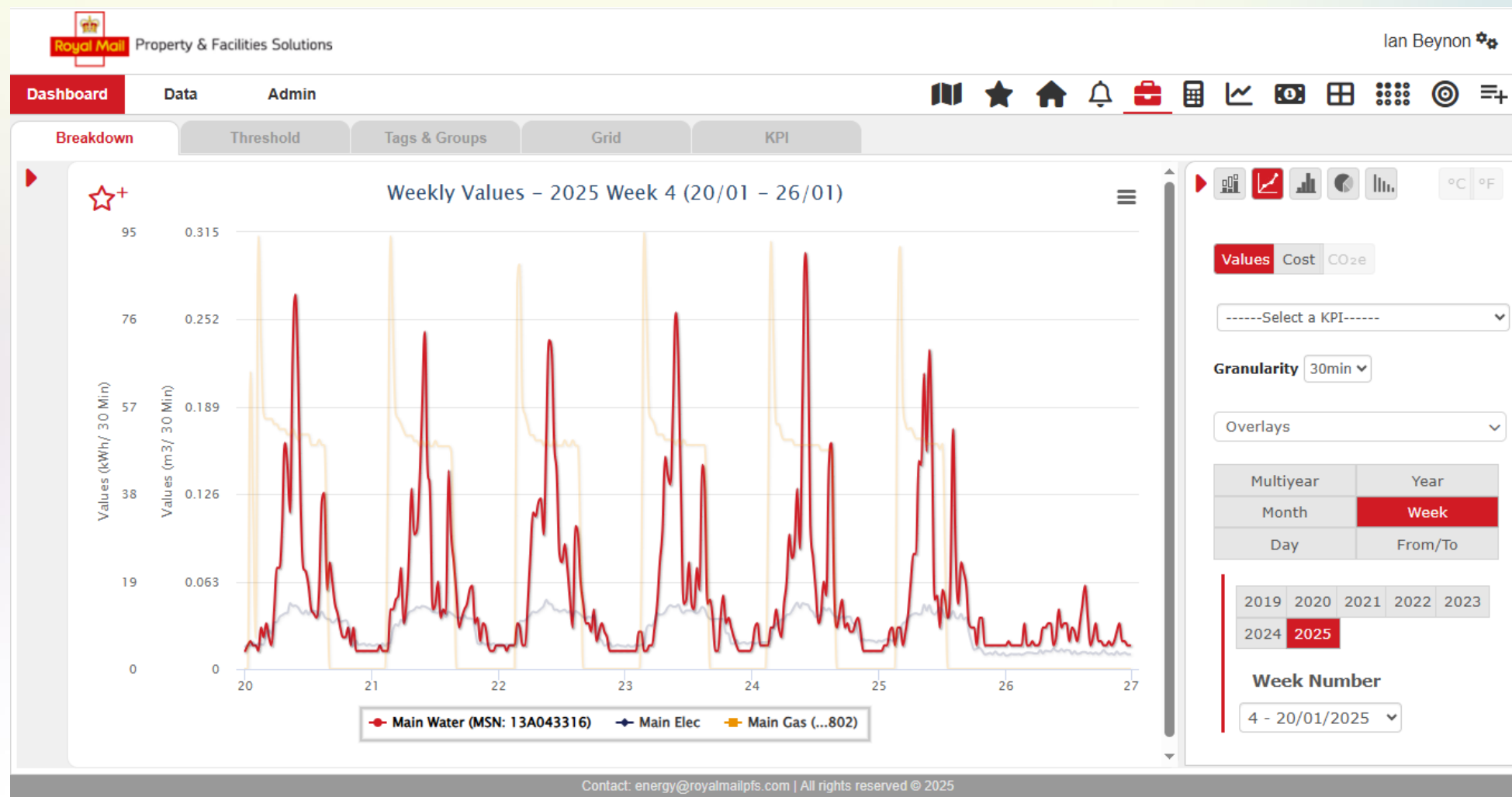
# Multiple Utilities



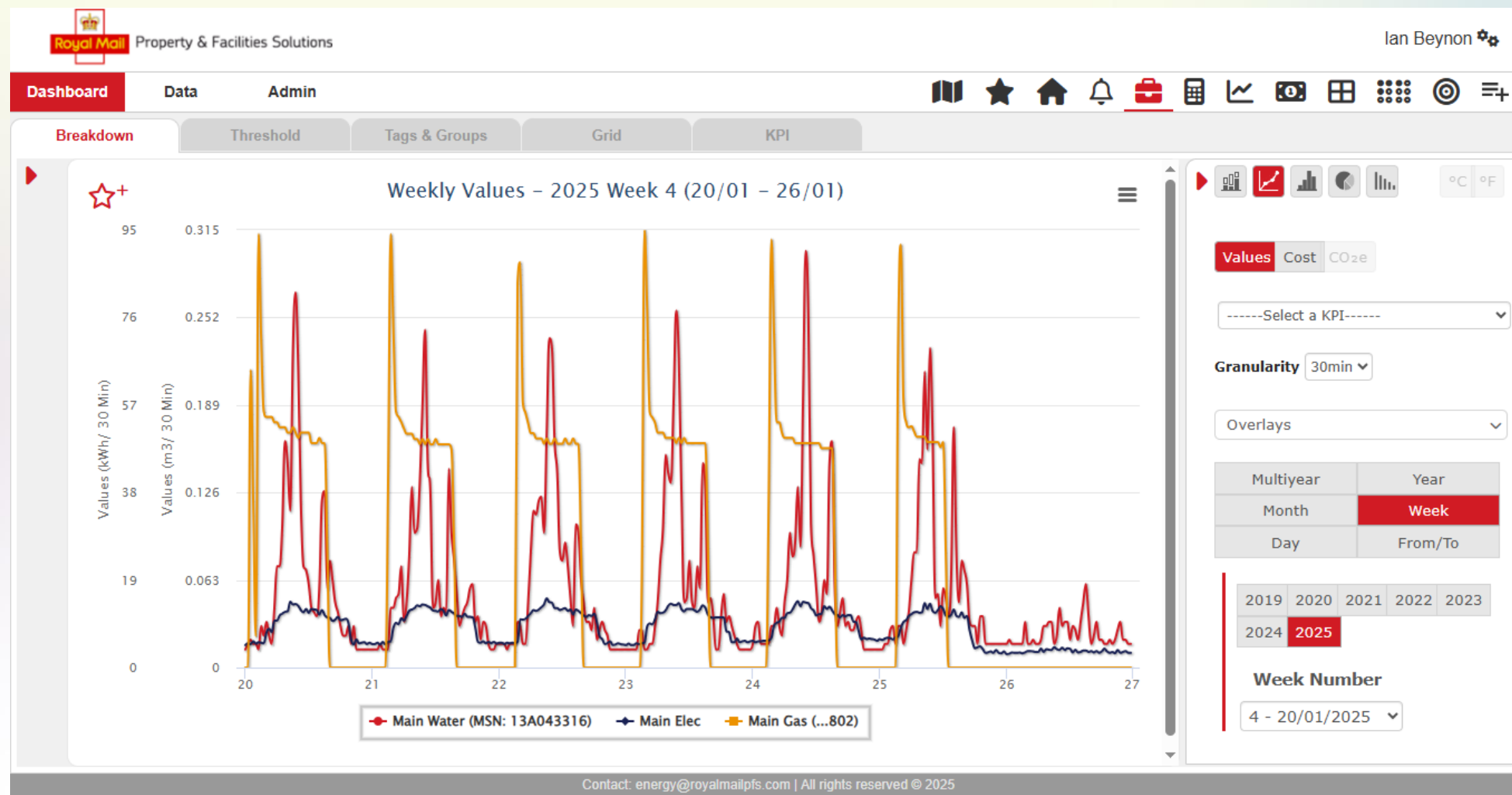
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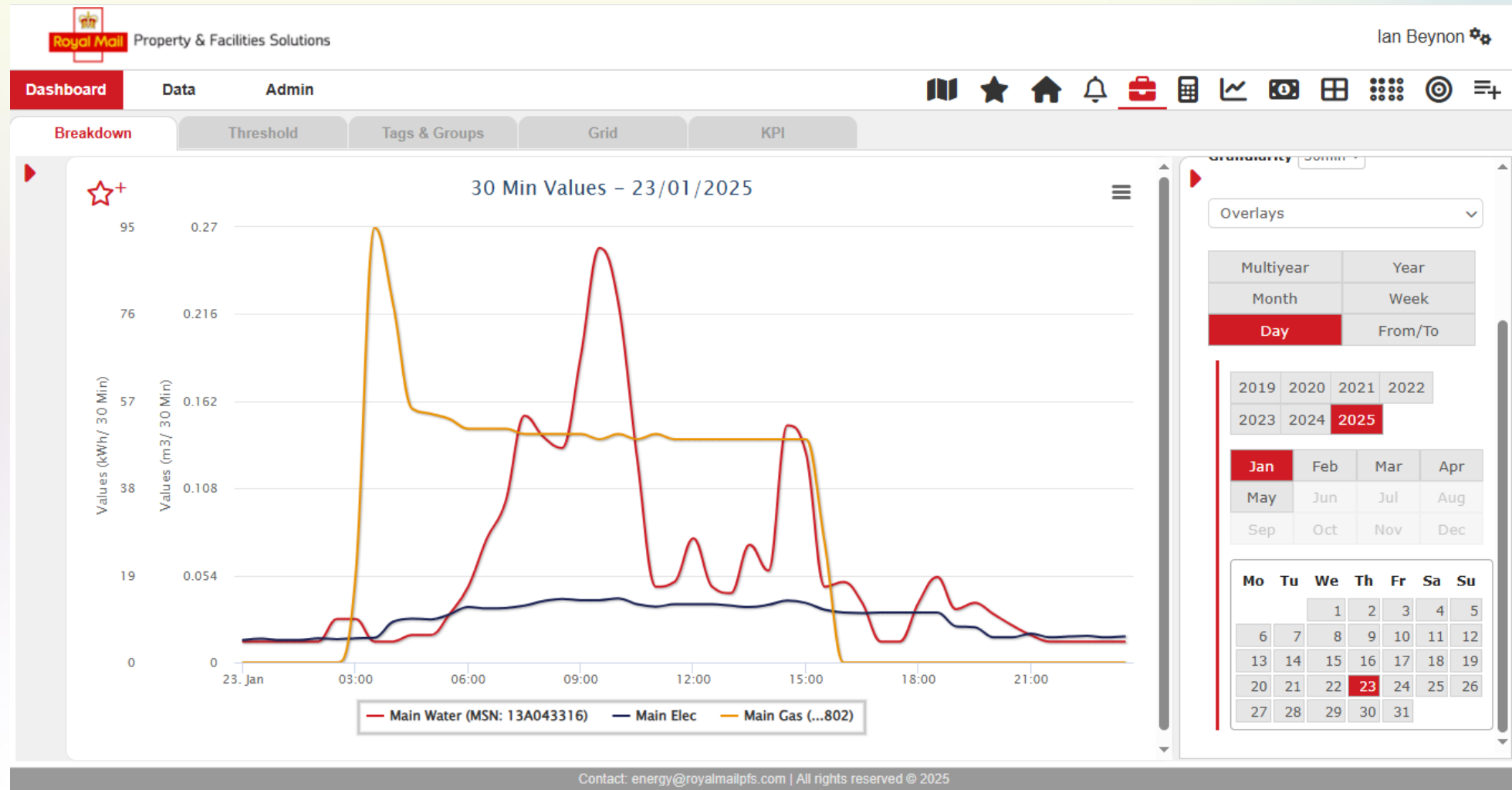


# Multiple Utilities

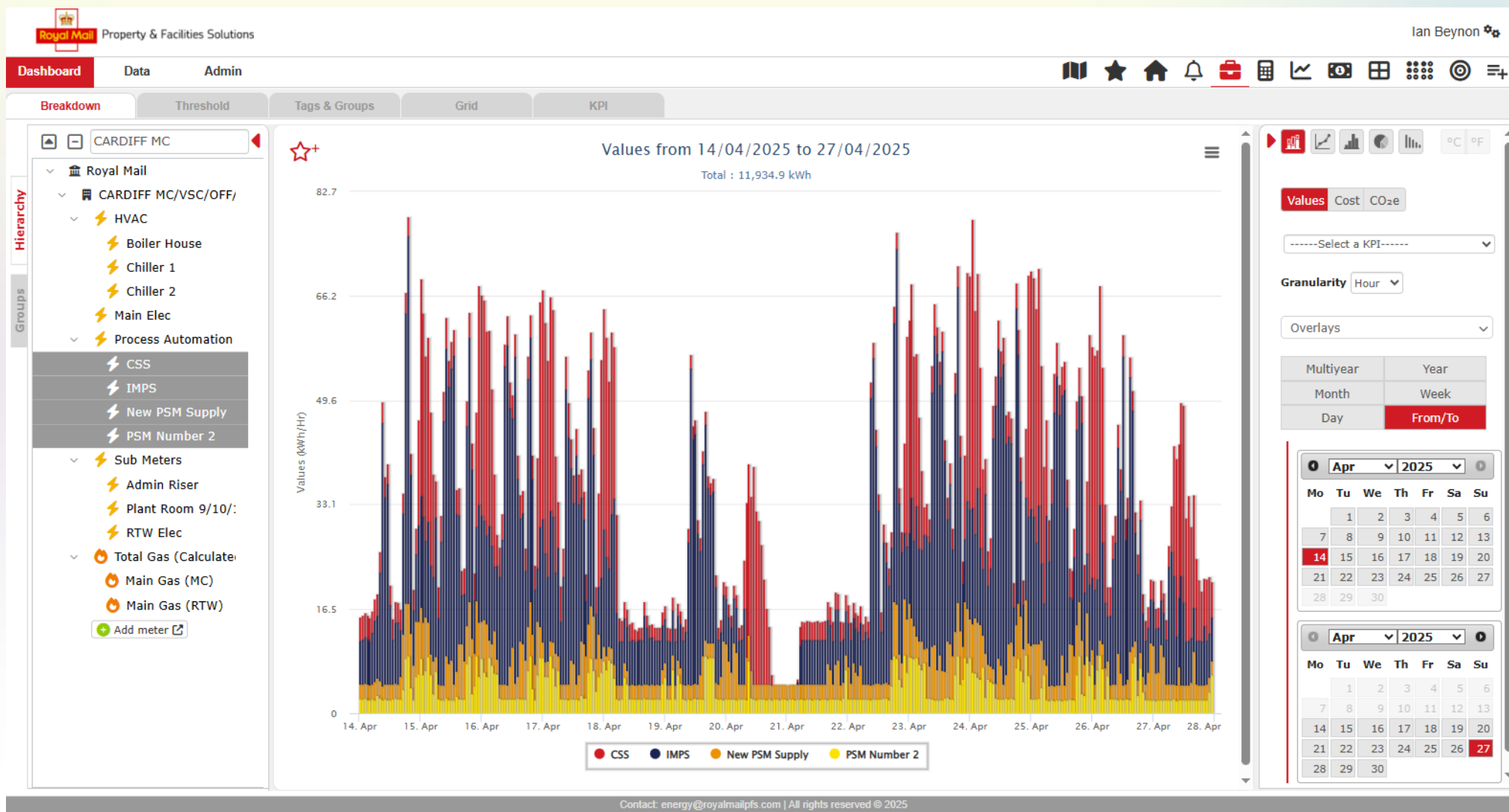




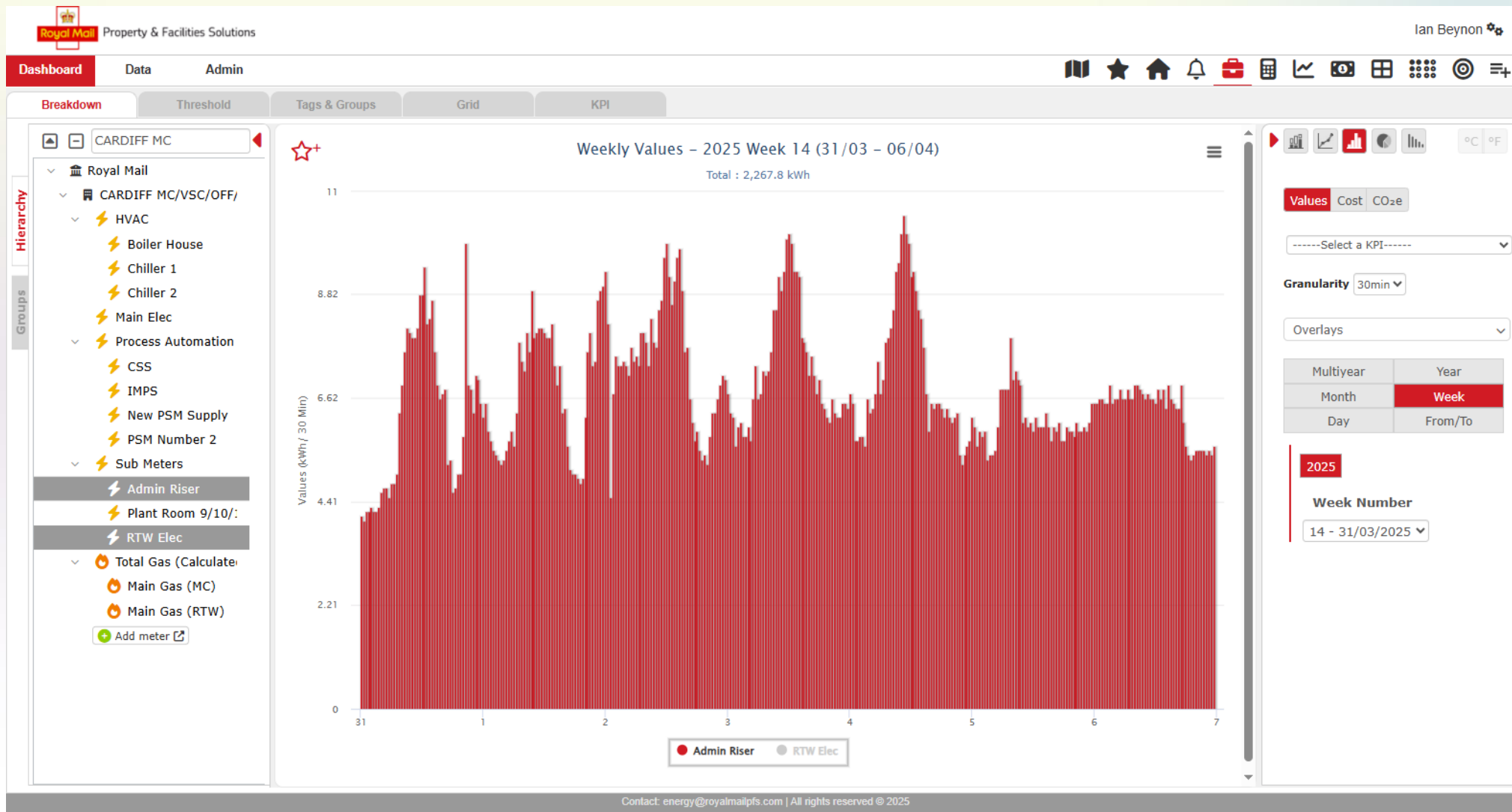
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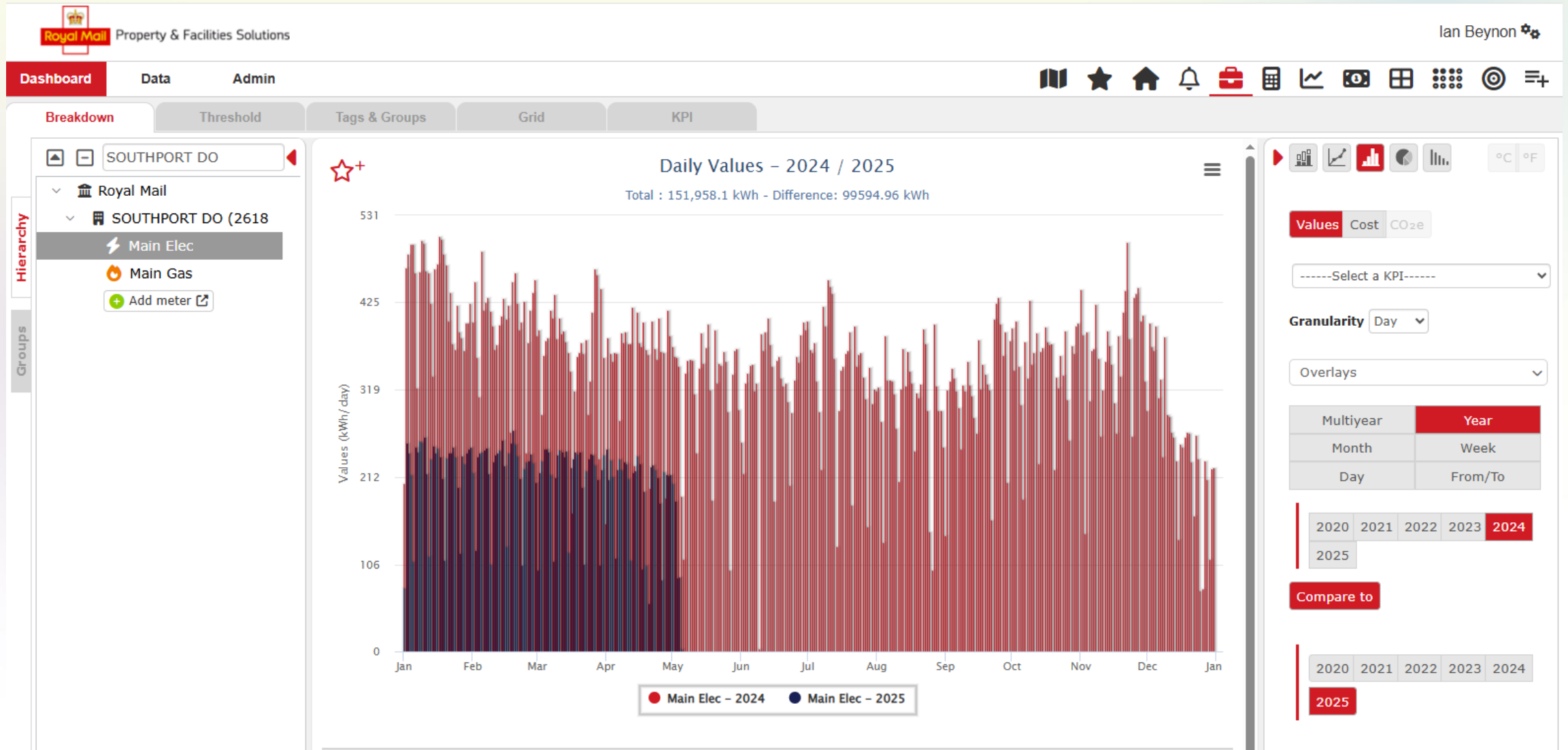
# Sub-Metering



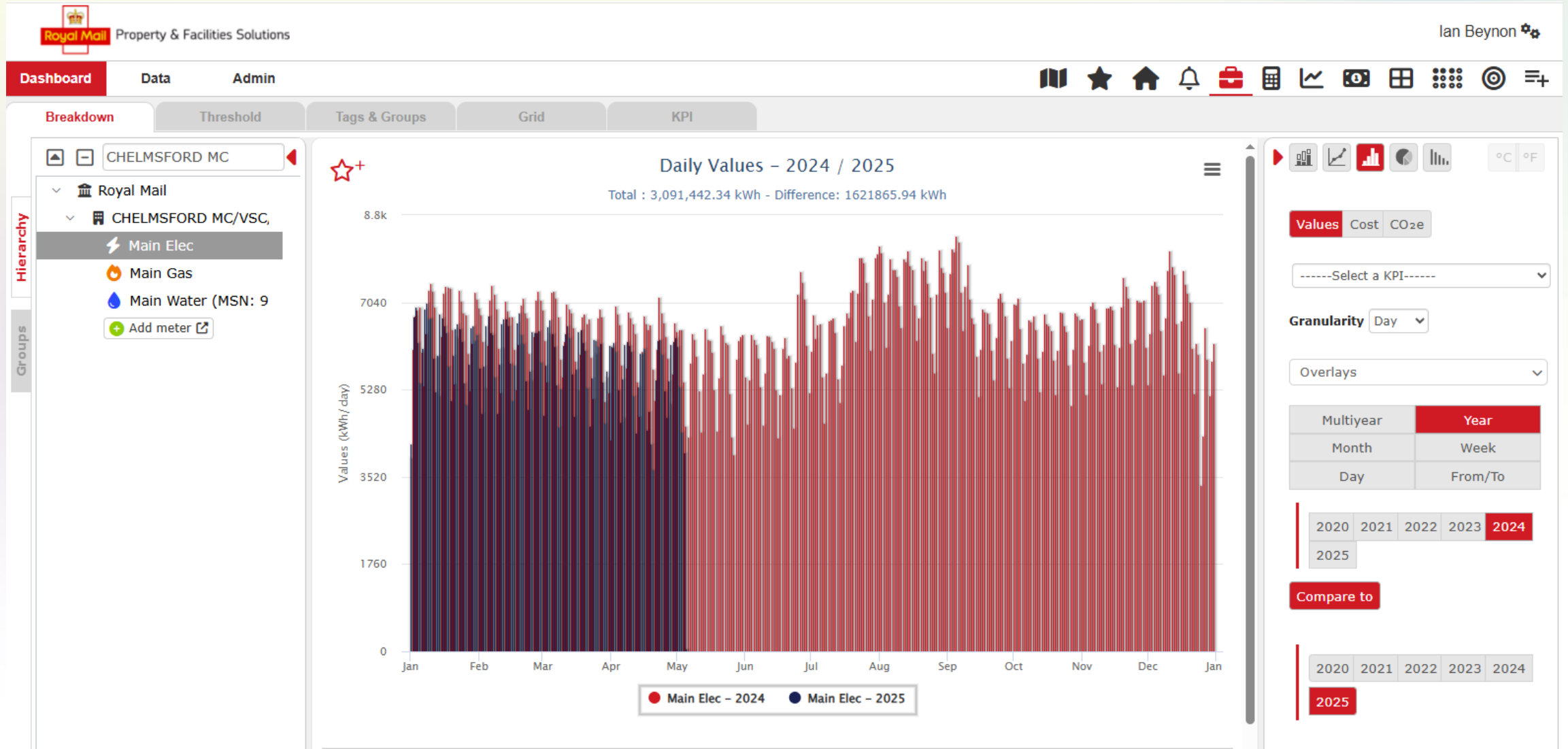
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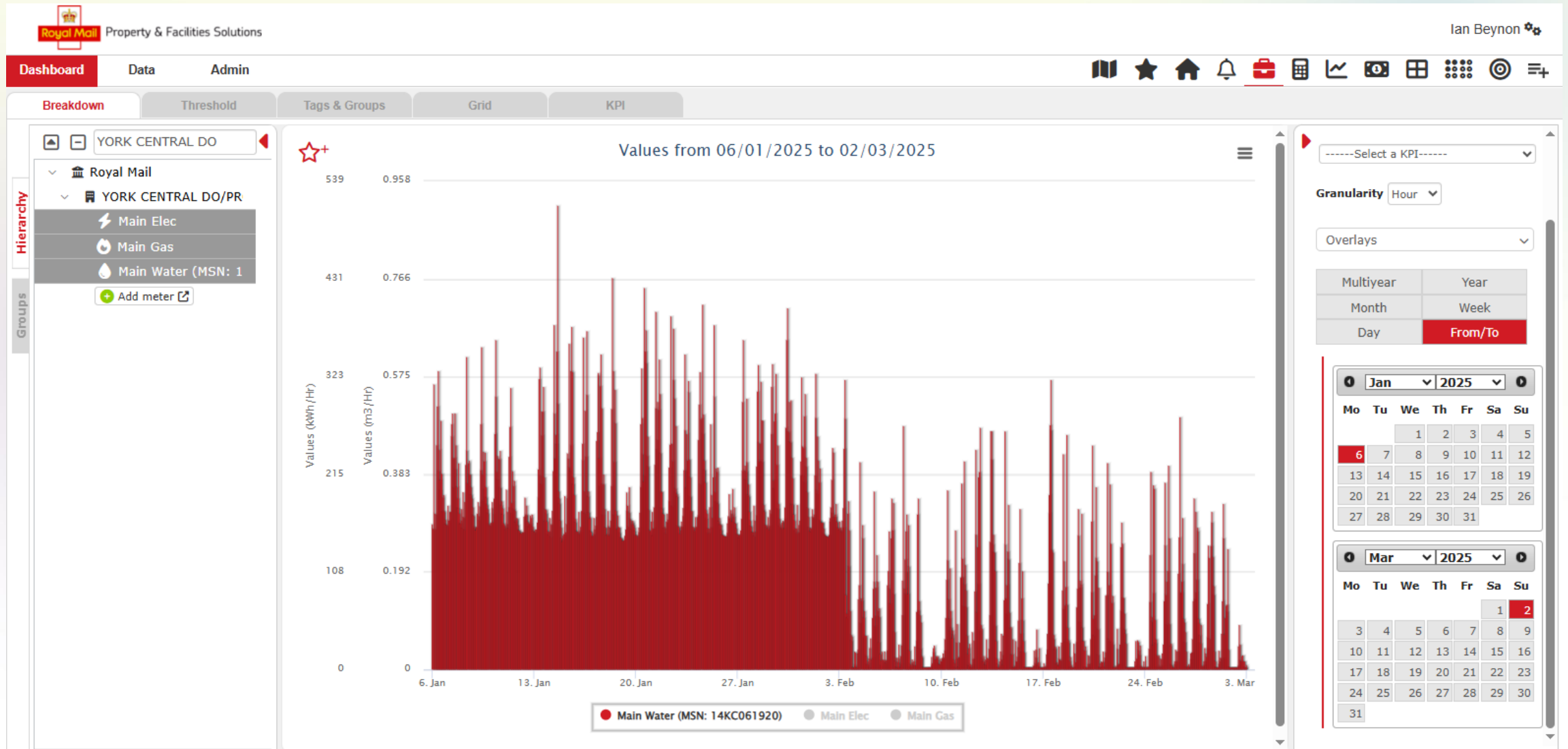
# Measurement and Verification (M&V)



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## What's next?

- Migrating to EnergyCAP's modern Utility Management platform
- Improved (public) dashboards and benchmarking tools
- Leveraging machine learning for insights
- Expanding sub-metering (400+ new meters across 40 sites)
- Installing more water meter data loggers

*"We haven't used it to its full potential yet, but the opportunity is there."*  
– Aleem Hussain, Energy Manager – Royal Mail

## Key Takeaways

Automation is key to scaling energy management

Dashboards drive engagement

Data quality and trust are critical for adoption



# Q&A