

FAAC

ENTRANCE SOLUTIONS

Currys A Sustainable Case Study



An innovative upgrade kit with a mighty impact



FAAC Entrance Solutions have enjoyed a longstanding partnership with Currys, collaborating for over 20 years. Recently, we engaged in discussions regarding the challenge of reducing the frequency of door openings as well as the impact of the external environment into their stores, due to their significant footfall outside two of their busiest London stores (Oxford Street and Tottenham Court Road). Our mission was to innovate their entrance to provide improved efficiency and functionality.

After careful evaluation, we came to the realization that new doors were not necessary to achieve the desired outcome.

By upgrading the existing doorset operator with our bespoke RKU and installing new sensor technology we found a sustainable solution to reach the desired goal.

By harnessing the power of intelligent opening technology and advanced sensors, we created remarkable efficiency gains.



Calculating the savings

In both high-traffic store locations, a significant challenge we encountered was preventing unnecessary door openings when pedestrians crossed the pavement without any intention of entering the stores. Our primary objective was twofold: to foster energy conservation for the environment and generate substantial cost savings for Currys.

We managed to achieve both due to our RKU & sensor technology, which worked efficiently to reduce the amount of time the doors spend in the open position of the doors. The sensor technology works by detecting the direction in which a pedestrian is walking, whilst the control system of the operator constantly gathers intelligence on whether the pedestrian is intending to enter the store or are just walking by on the street. This unique function has the ability to stop the door movement mid-opening cycle and reverse it, thereby minimising the amount of time the doorway is open to the elements; Energy savings and reducing Co2 emissions are a key feature to the unique FAAC Intelligent Opening system.

Working alongside Currys, we collectively conducted calculations and energy output tests to quantify the results we achieved.

The Results

Our technology proved to be the perfect solution, drastically reducing the opening rate and curbing wasteful energy consumption, at the same time improving on the buildings Co2 emission levels.

Not only did this result improve temperature control in the stores, but this also enhanced the comfort and morale of employees and consumers.

Using the real world data we have captured over a number of retail sites around the UK, we know that the average high street automatic door spends 64% of trading time opening or closing.

Their systems measured the energy output over a 5 month period in each of the stores, providing factual and impressive evidence of the new efficiencies.



“The actual results provided have seen a sustainable 15% saving in energy output from the Oxford Street store during the 5 month period.”

Building	Site ID	Predicted	Actual	Savings		23-02-01	23-03-01	23-04-01	23-05-01	23-06-01
Oxford Street (High Street)	5211	81,127	68,563	12,565	15%	14,068	15,935	12,881	13,776	11,902
Tottenham Court Road (Super Store)	2805	148,575	112,785	14,790	10%	24,744	27,410	23,389	21,123	16,120
		229,702	181,348	27,354	12%	38,812	43,344	36,271	34,899	28,022

The total energy saving for the two stores over the 5 month period was 27,354 kWh. If we use an average cost of 0.40p/kWh this adds up to over £26k in cost reduction over a year.

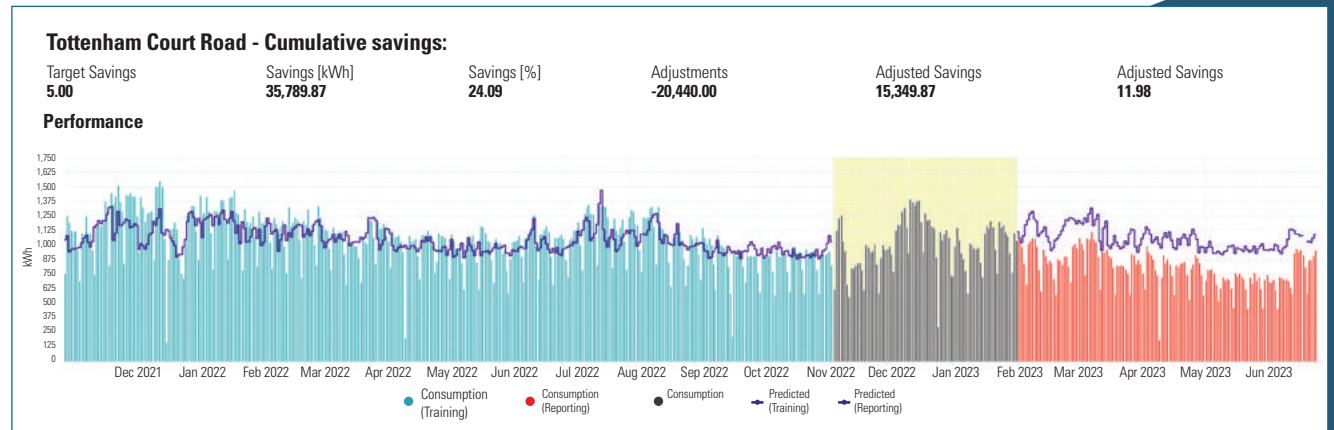
The Data

Currys Tottenham Court Road Results:

The blue bars show the energy output from December 2021 to November 2022 before the upgrade in February 2023 in red. The purple prediction line shows to be below the actual energy output during this time, therefore resulting in higher energy spend.

We can see that once the retrofit had been complete, the red bars from February 2023 indicate the energy output has significantly decreased, landing below the purple line month after month.

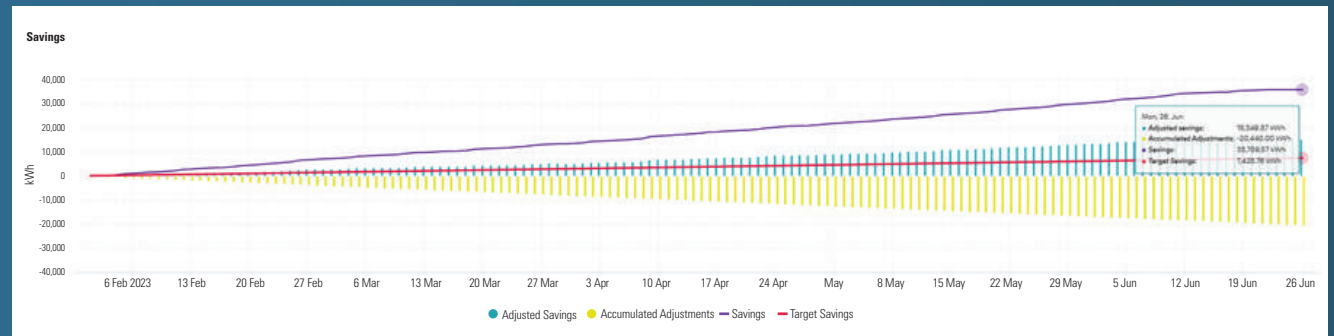
FAAC Entrance Solutions enhanced technology update to the existing sliding door operator, far exceeded the expectations of Currys and has impacted the energy and cost output significantly.



*Please note the area in grey was during other M&E improvement works to the store. Data was not captured during this time.

We can see further savings indicated in the chart below:

The red line on the chart below is the targeted saving amount from the RKU and sensor upgrade. As demonstrated from the purple line the savings are more than doubled, superseding expectations. Both Oxford Street and Tottenham Court Road stores had similar patterns.

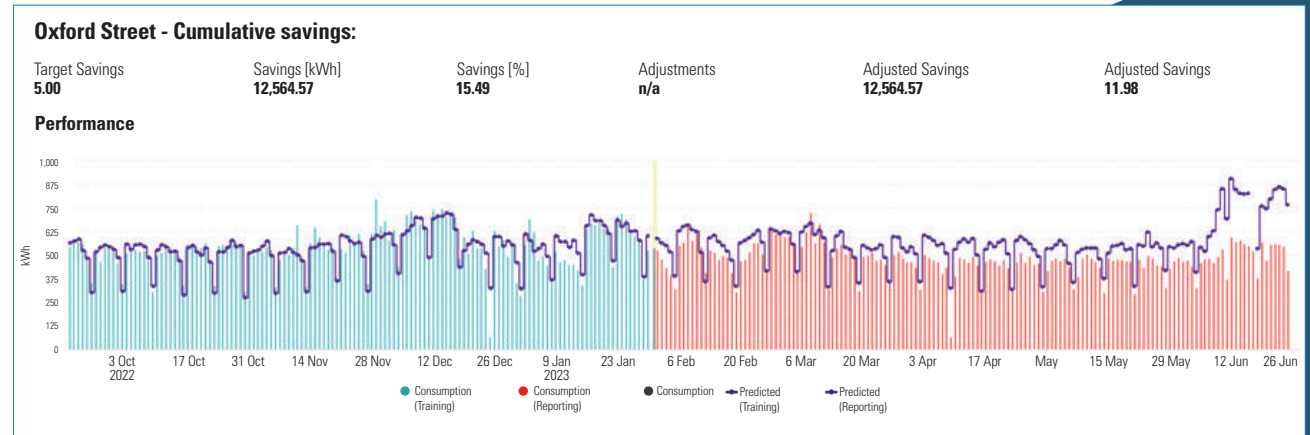




Currys Oxford Street Results:

Over a 5 month period from 1st Feb 2023 - end of June 2023.

Following on from the Tottenham Court Road project, a similar pattern occurred in the Oxford Street branch.



FAAC's Retrofit Kit Upgrade will modernise your existing automatic door. The RKU will update your door system without the need to replace your door leaves or framing elements, and together with the unique intelligent Energy Saving feature will result in very tangible cost savings



SAVINGS REVITALISE ASSETS

Cost-efficient upgrade to your entrance paired with operational savings.



MODERNISATION REVITALISE ASSETS

New technology that complies with the latest safety standards.



SUSTAINABLE REVITALISE ASSETS

Reduce carbon footprint reusing components and improving operational efficiency.



CONNECTIVITY REVITALISE ASSETS

Access modern proactive maintenance plans with full IoT ready technology

For a small investment the return is tenfold!

**Click below to find out how we can help you:
<https://www.faacentrancesolutions.co.uk/service/>**



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Unit 9, Windmill Business Village, Sunbury-on-Thames, Surrey, TW16 7DY, United Kingdom
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