

Case Study: London Borough of Hounslow's journey to net zero by 2030



Hounslow House

In July 2020 the London Borough of Hounslow committed to becoming net zero carbon by 2030 backed by a Climate Emergency Action Plan.

The Mayor of London's Retrofit Accelerator-Workplaces programme will play a vital role in delivering the plan as Hounslow's Energy Manager, Charles Pipe, recognises. "Retrofit Accelerator-Workplaces is a key member of our team, helping us to plan, prioritise and execute effectively. Its technical and procurement support has played a significant role in cutting our carbon consumption and realising seven figure cost savings."

23 schools
retrofitted

The UK's
largest local
authority
solar PV
scheme

£400,000
and
1,000
tonnes of
carbon
saved PA

Multi-award
winning
programme

Hounslow was attracted to Retrofit Accelerator-Workplaces by free technical advice from industry experts, a ready-made procurement framework and guaranteed energy savings.

The first success was installing a 1.73 megawatt array of 6,069 panels and four 60 kilowatt lithium batteries at Western International Market, London's premier fresh produce wholesale market and owned by the council. The installation, the UK's largest local authority solar scheme, now generates half the site's required electricity. . With feed-in and export tariff payments, the scheme provided a five-year return on investment.

Next came education. Recognising 70% of its carbon emissions were from schools, Hounslow set an audacious goal to make its schools the greenest in London. And, with the work done on lighting, solar PV and building management systems in 23 schools to date, financed by Salix, this goal is being achieved. Charles Pipe is delighted with the results. "We've made huge strides in schools with average energy savings of over 30% releasing cash for frontline services - one school cut its energy bill by 64% which is truly phenomenal. The comfort of the buildings is so much better too, with improved lighting and heating and of course the schools love their new green credentials!"

A second phase is now in progress to improve heating systems in the original 23 schools in scope and fully retrofit 10 more schools, with £7.7 million of funding through the Public Sector Decarbonisation Scheme.

Transforming public buildings for a zero carbon future



Charles Pipe receiving the UK Energy Award 2018



Solar PV installation at Western International Market

Hounslow has taken advantage of Retrofit Accelerator-Workplaces' full range of free services:

- **Planning** - data gathering, benchmarking, project scoping and business case development
- **Procurement** - tender development, bid evaluation, interviews and contract award
- **Performance** - contracting, Investment Grade Proposals, delivery and works management, performance and service provider monitoring

Major new projects with Retrofit Accelerator-Workplaces are now in progress to include libraries, community centres, children's centres, a sheltered housing scheme, and a new district heating system. An investment of £11 million grant funded through the Public Sector Decarbonisation Scheme.

Charles Pipe sums up the merits of partnering with the Mayor's award-winning energy efficiency programme. "This is such a complex area we couldn't have made such significant progress without the Retrofit Accelerator programme's expertise. The free technical advice, the procurement framework, the Energy Performance Contract. I can see no better energy support package for councils out there."



School solar PV installation



The staff of Grove Park Primary School



School LED installation

Retrofit Accelerator –Workplace's technical and support services are delivered by Turner & Townsend and are free to use, funded by the GLA and the ERDF. Find out how you can benefit by contacting RetrofitAccelerator@london.gov.uk or visiting www.london.gov.uk/refit

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