

The Midlands: powering the UK's clean energy revolution



Tyseley Energy Park, Birmingham



CASE STUDY

Tyseley Energy Park has established itself as a centre of excellence for energy innovation, seeking to influence the way the West Midlands develops infrastructure for renewable heat and power, energy storage, clean transport fuels and advanced waste processing.

The Park is located on one of the UK's oldest manufacturing sites, Webster and Horsfall. In 2010, plans were submitted for the Energy Park, setting out a long-term vision to develop 17 acres of land. This was followed by the launch of a phased development plan to deliver low- and zero-carbon power, transport, heat, waste and recycling solutions to create an energy and waste nexus for the region.

Development began with £47 million of investment into a 10MW waste wood biomass powerplant. This plant supplies Webster and Horsfall's manufacturing operations and tenants across the site with renewable power. It has created 19 new jobs and diverts 72,000 tonnes of waste wood from landfill each year.

Phase two was marked by a low- and zero-carbon refuelling station, strategically located between the city centre and Birmingham airport. The site provides clean fuels such as green hydrogen generated through electrolysis and through the £6.7 million DESNZ project Ammogen, a novel technology that cracks liquid ammonia into hydrogen. It also features 100% drop-in replacement biofuels for diesel fleets and will soon feature commercial-scale electric charging for HGVs.

The University of Birmingham's £8.5 million Birmingham Energy Innovation Centre opened on the site in 2021 and is designed to promote innovation in waste, energy and low-carbon vehicle systems. One of Tyseley Energy Park's objectives is to support innovating clean technology businesses and the world-class research, testing and laboratory facilities at the centre are a crucial part of this.

Through these developments, Tyseley Energy Park has created an environment where CleanTech-focused businesses can benefit from support and collaboration opportunities in a focal location for the West Midlands' decarbonisation efforts. Support is provided through the Climate Innovation Platform and Global Growth programmes, both of which have been designed to provide businesses with access to support that will drive the development of their low-carbon business offerings.

All of this will support the region's ambitions to achieve net zero by 2030, or as soon as possible thereafter. Tyseley Energy Park strives for a lasting legacy of increased engagement with and employment in low-carbon industries. It wants to see new technologies demonstrated and viable energy systems created that have a positive impact on local communities and citizens in Birmingham.

Credit: <https://www.tyseleyenergy.co.uk/>
https://www.birmingham.gov.uk/info/50282/climate_change/2642/what_is_the_council_doing_about_climate_change#:~:text=As%20part%20of%20this%20declaration,net%20zero%20by%202050%20target

[https://www.birmingham.ac.uk/research/energy/research/collaborations/tyseley-energy-park#:~:text=UK%27s%20First%20Low%20and%20Zero%20Carbon%20Refuelling%20Station&text=These%20included%20hydrogen%20\(ITM%20Power,as%20commercial%20scale%20electric%20chargers](https://www.birmingham.ac.uk/research/energy/research/collaborations/tyseley-energy-park#:~:text=UK%27s%20First%20Low%20and%20Zero%20Carbon%20Refuelling%20Station&text=These%20included%20hydrogen%20(ITM%20Power,as%20commercial%20scale%20electric%20chargers)