

# Net Zero Neighbourhood Demonstrator Programme



The West Midlands Combined Authority as part of its strategy to cut regional carbon emissions to net zero by 2041 is working with Dudley to create a low carbon community.

This programme aims to take a different approach by trialling an area-based scheme. In addition to retrofitting houses, it aims to achieve wider impacts such as making green spaces, public buildings and transport links more sustainable.

# The Vision

A green and thriving neighbourhood that:



is planned and designed by its residents to not only minimise emissions but also improve quality of life



educates and empowers residents, to make long-term behaviour changes through effective and sustained awareness-raising & education



provides a highly desirable place for residents, workers and visitors to live, work and socialise



# Why Brockmoor?

Good community engagement,  
Community Centre.

Good representative mix of housing tenure and EPC ratings  
307 homes

Has some of the highest levels of fuel poverty in the borough

Proximity to new metro link

Close to Brierley Hill High Street - area of regeneration and investment

Small industrial estate  
solar pv / green roof/ waste heat recovery  
Merry Hill Shopping Centre  
(work employment)

Primary School  
(Education and engagement)

Green spaces  
Park, sports club,  
disused railway

Canal  
Cycling - leisure and commuting

Logo



## The Vision - Housing

A green and thriving neighbourhood that not only addresses the causes and impacts of climate change, but also:



**Improves living standards by providing homes that are warm and affordable to heat**

Work completed on 34 council owned properties – remedial works to enable retrofit measures to be installed plus insulation and ventilation measures

55 Retrofit assessments completed

Retrofit designs commenced

# Housing – next stages



Consultation with residents on recommended measures and financial offer

Heat pumps, loft and cavity wall insulation, solar pv, remedial works, ventilation.

Trial new innovations – external wall insulation

Demonstrator home - achieve space heat demand of less than 60 kwh m2 per annum

Behaviour changes

# The Vision - mobility

A green and thriving neighbourhood that not only addresses the causes and impacts of climate change, but also:



**Connects neighbourhoods, by providing quality public transport, improved cycling infrastructure and create people centred streets**

Engaged with residents to learn current modes of transport and barriers to changing methods used.

Consulted with residents on interventions

Engaged with Local Authority and TfWM partners to establish current and future plans for the area.

Surveys completed to measure traffic and pedestrian activity

Analysis completed on number of accidents, speed and volume of vehicles

# Mobility interventions being considered



Pedestrian crossing point

20mph zone

Raised crossing point

Signposting of active travel routes – canal

Cycling safety measures

Bike giveaway

Prevention footpath parking

On street EV charging

Behaviour changes

## The Vision – green spaces

A green and thriving neighbourhood that not only addresses the causes and impacts of climate change, but also:



Consulted with residents to learn  
how they use the green spaces in and around the area  
what would encourage them to use them more  
how could the spaces be put to better use.

# Green spaces interventions being considered



Nature / cycle path

Benches

Notice board

Challenges – anti social behaviour around playground

Learn to ride

Food growing

School

Industrial site

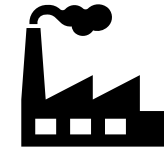


Solar pv

Supporting curriculum

Careers Fair

Teacher's CPD



Solar pv – asbestos

Plan to net zero

# Data – monitoring and measuring outcomes



Sensors in homes – temperature, usage, air quality, humidity

Air quality sensors internally and externally

Logic Model – maps out interventions and the specific improvements that it has been designed to achieve – short term and medium/long term and their impacts.

From a finance  
perspective:

What does the  
Net Zero  
Neighbourhood  
model need in  
order to be  
replicable and  
happen at  
scale?



A level of  
standardisation  
for projects to  
follow

Revenue Streams

Retrofit Credits  
Generate an  
income from solar

# Challenges



Engagement

Switch from gas to electric – heat pumps

EPC's – are properties performing as they should

Solar as a service – innovative but untried

Legal / procurement