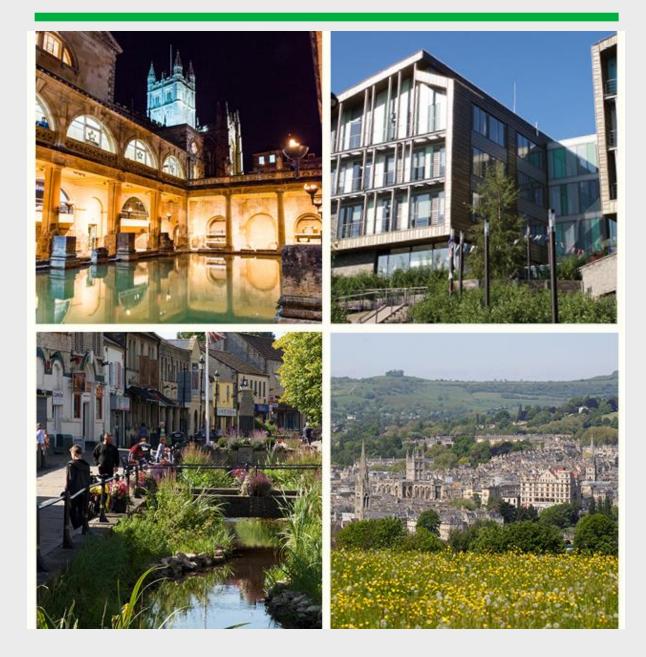
Green Heritage Homes Project

Local Energy Advice Demonstrator (LEAD) Project

Retrofitting Listed Buildings in Bath



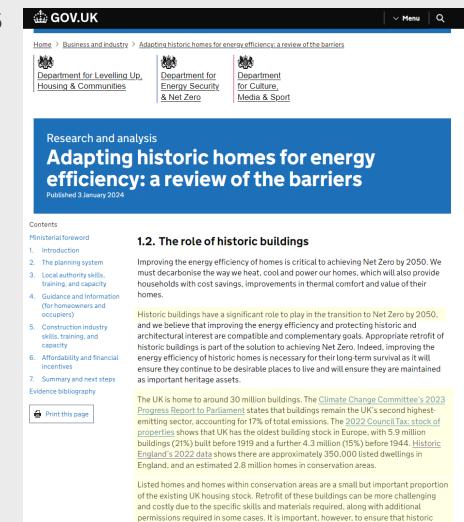


Improving People's Lives



## The Background – Retrofit of Historic Homes

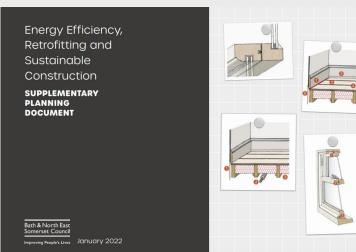
- National government review key themes:
  - The planning system
  - Local authority skills, training, and capacity
  - Guidance and information
  - Construction industry skills, training, and capacity
  - Affordability and financial incentives
- Issues complexity of planning, consistency in decision making, cost, timescale, and lack of non-technical guidance.



and costly due to the specific skills and materials required, along with additional permissions required in some cases. It is important, however, to ensure that historic buildings are adapted appropriately, with the right design based on the construction and use of the building, to ensure that the most cost and energy efficient approaches are implemented. Selecting the right measures upfront can help to avoid unnecessary costs further down the line. The special considerations required when assessing the impact on the historic and architectural significance of a building provide an opportunity to ensure the right design for the function and construction of the buildings is developed.

## The Background – Retrofit of Historic Homes

- Guidance produced by organisations and local authorities
- Historic England HEAN July 2024
- B&NES update of SPD *Energy* Efficiency, Retrofitting and Sustainable Construction SPD January 2022



Adapting Historic Buildings for Energy and Carbon Efficiency

Historic England Advice Note 18 (HEAN 18)

🗮 Historic England









Retrofitting

Solar Panels

March 2024

### **BISLINGTON**

RETROFIT TOOLKIT

#### Net Zero Carbon Supplementary Planning **Document Scoping Paper** 18/08/202

#### 1. Purpose and background

- The purpose of this scoping paper is to get feedback on the framework for a new Net Ze Supplementary Planning Document (SPD). The SPD is intended to prov to help bring forward development proposals with minimal action emissions to development proposals will be assessed at the planning application stage, a
- declaration of a climate emergency on 27th June 2019, committing the council to working towards islington having net zero carbon emissions by 2030. Improving the energy efficiency of all buildings in the borough is one of the priorities of Islington's Vision 2030 (2020) strategy, and this is central to the work of the planning teams.
- 1.3 Planning applications are evaluated against the policies of the Development Plan, this consists of Islington's Local Plan and the London Plan. National legislation also informs the decision-making process and how the material impacts of a development proposal are ssessed. Reducing carbon emissions and sustainable development are addressed in hese policy documents
- Islington's new Local Plan, which will soon be adopted on sustainable development requiring new development to meet high environmental standards. The SPD will compliment these policies and provide further detailed guidance on how they will be implemented. An SPD cannot introduce specific policies, but it can provide guidance to explain how existing policies will be applied and this guidance can be iven material weight in the planning decision making pro
- 1.5 The SPD will also provide advice and guidance for property owners or developers in the borouch on how they can more widely align with the objectives of the Vision 2030 strategy

#### Lewisham Planning -Energy Efficiency in historic buildings

#### Advice and options to improve energy efficiency and reduce CO2 emission



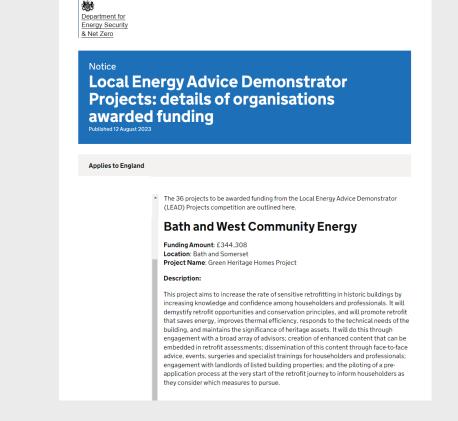
Heritage Retrofit Guidance -Energy Efficiency and Carbon Reduction Technical Advice Note (TAN) 15



## Green Heritage Homes Project

- Enable sensitive retrofitting of historic buildings.
- Demystify the listed building consent process.
- Offer guidance on effective retrofit solutions informed by conservation principles.

"Increasing the rate of sensitive retrofitting of historic buildings by growing knowledge and confidence among householders and professionals."











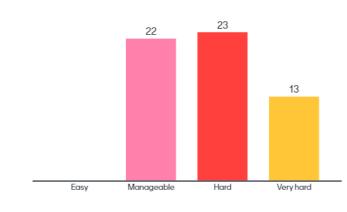
Green Heritage Homes is a partnership project, managed by Bath & West Community Energy and funded by the South West Net Zero Hub, which is hosted by the West of England Combined Authority through the Local Energy Advice Demonstrator Programme.

## Training Modules – Assessing Heritage Significance & The Listed Building Consent Process

Listed building Listed building Listed building Listed building Listed building Listed building Built Professional

**88%** attendees were homeowners (39%) or professionals (49%)

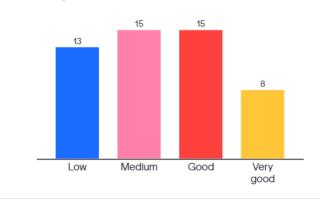
How easy do you think it is to get listed building consent for energy measures?



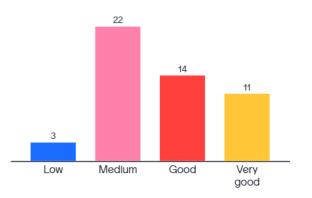
**62%** viewed getting LBC as hard or very hard.



My knowledge of the listed building consent process is...



My knowledge of energy efficiency in historic buildings is...



Greater understanding of energy efficiency than LBC:

- LBC **45%** good or very good, **26%** low
- Energy efficiency -**50%** good or very good, **6%** low

## Level 0 Pre-App

- New pre-app service for listed building retrofit service.
- Work with a B&NES Council Conservation Officer.
- Accessible cost £69.
- Piloting pre-app in partnership with BWCE – Listed Building Energy Champions.
- Progress: 19x submissions (15x reports issued)



## Level 0 Pre-App

	Double Glazing (Slimline or Vacuum)	Secondary Glazing	Insulate Internal Wall	Insulate Floor	Insulate Loft	Solar PV	ASHP	Updated Heating Systems/ Underfloor Heating	Building Maintenance
Site 1	Further Info Required	Yes							
Site 2	Yes/No	Yes			Yes	No		Yes	Yes/ Further Info Required
Site 3	Yes		Yes/No		Yes		Yes		
Site 4	Yes/ Further Info Required	Yes							
Site 5	Yes	Yes	Further Info Required	Further Info Required					
Site 6	Yes/ Further Info Required	Yes				Yes	Further Info Required	Yes	Yes
Site 7	Further Info Required	Yes	Further Info Required			Further Info Required		Further Info Required	
Site 8	Yes/No	Yes			Yes			Further Info Required	
Site 9	No	Yes							Yes/Further Info Required
Site 10	Yes/No	Yes	Further Info Required		Yes		Further Info Required	Yes	Yes/Further Info Required
Site 11	Yes/No	Yes		Yes				Further Info Required	Yes
Site 12	Yes/No	Yes		Yes				Further Info Required	Yes
Site 13	Yes	Yes							

## Listed Building Energy Champions

- B&NES & BWCE service for listed building owners and occupiers.
- Project contribution:
  - Published case study.
  - Questionnaires and feedback.
  - Ongoing comms.
  - Potential monitoring works.
- Common building type terraced properties (53%) in private ownership (93%).
   Majority have some element of minor energy improvement.

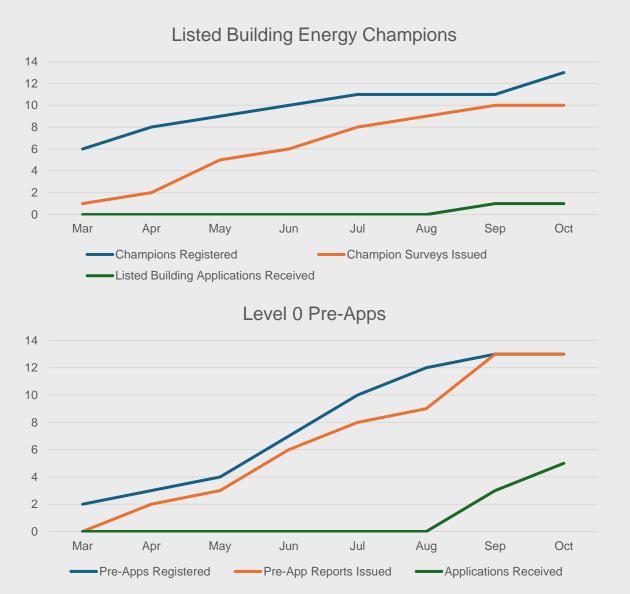


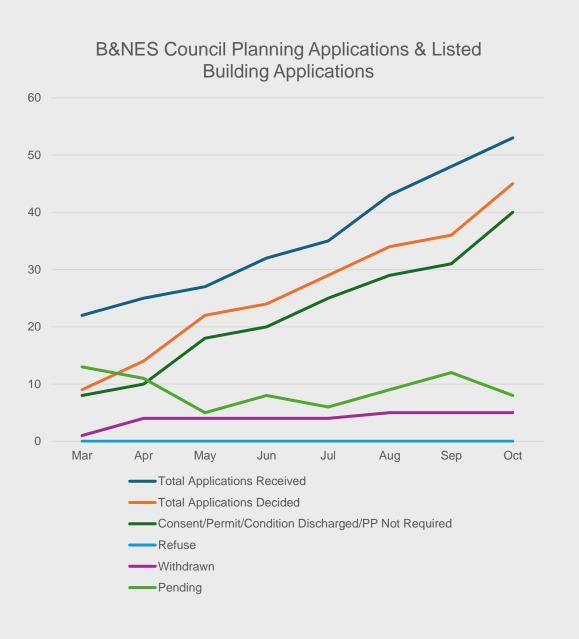
## Listed Building Energy Champions – Pre-App Recommendations



25

## **Application & Pre-App Outcomes**





Level 0 Pre-App & Energy Champions – Initial Findings

Double ASHP: Glazing: 67% 52% Recommended Solar Retrofit Secondary PV: **Options?** Glazing: 30% 100% Internal Floor Loft Wall **Insulation**: Insulation: Insulation: 50% 100% 48%

## Level 0 Pre-App – Conservation Officer Recommendations

"Where existing windows are non-historic, the principle of replacement or retrofit with more thermally efficient glazing is acceptable. Any replacement window should be appropriately detailed and finished [...]"

"Building fabric which is in a poor condition will naturally be less efficient and may have an adverse impact on the energy savings of a retrofit project. Ongoing maintenance is vital to ensure building fabric is dry and in good condition."

"Other options may be considered such as the use of secondary glazing."

"There is little to no surviving internal historic finishes, and there is clear evidence of later alterations. The installation of internal wall insulation would therefore result in no loss of historic fabric and would be acceptable."

"[...] it is unlikely that solar slates would be viable in this location. The chimney stack, bay window roof, and dormer are all features that cast shadows at certain times of day and would limit solar gain." "The principle of solar panels is welcomed within the inner roof valley, where installation would be concealed from public views of the listed building and its terraced setting within the Conservation Area."

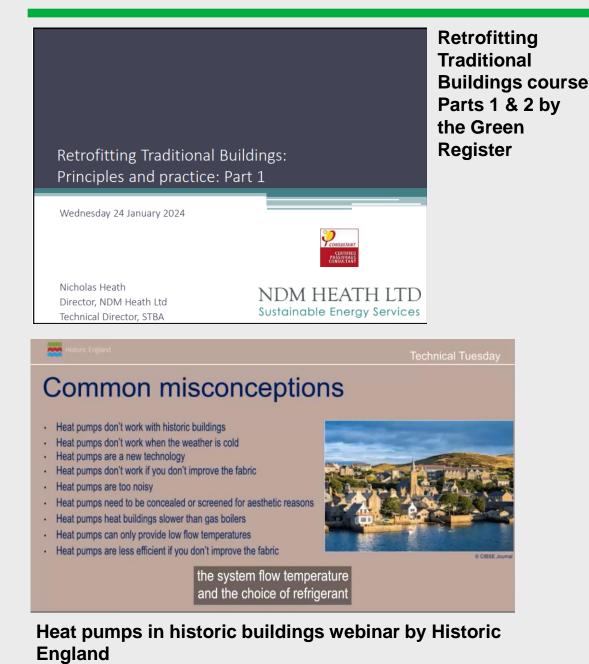
## Internal training & shared understanding

- Series of internal training sessions for project team and wider audience, including a full-day online course, Retrofitting Traditional Buildings, and a heat pumpfocussed session. Well-attended by a mix of conservation officers and retrofit & energy professionals.
- Shared Understanding workshop hosted by an external facilitator to help share knowledge and build a shared understanding of sensitive retrofit.

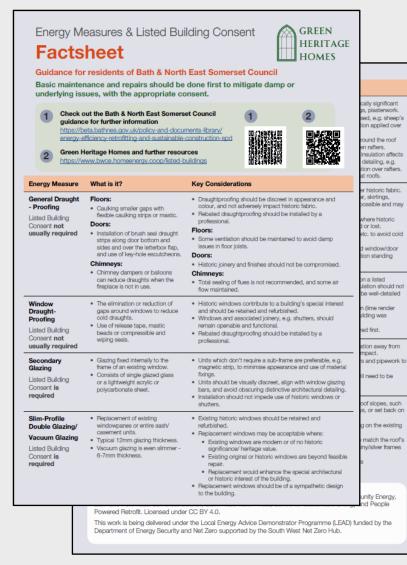


Shared Understanding Green Heritage Homes

Shared Understanding workshop facilitated by Achieve Breakthrough



## Factsheets



Applying for Listed Building Consent Guidance for residents of Bath and North East Somerset	GREEN HERITAGE HOMES	
Understanding Heritage Significance		
Understanding heritage significance is key to making a good Listed Building Consent ap understanding what makes your unique building special and worth protecting. A compre of your building's significance should inform your retrofit project at an early stage to ensu appropriate measures for your building are being considered.	plication. This means for hensive assessment	jal rma
Significance - Quick Facts		
<ul> <li>Listing applies to the exterior and interior of a building, as well as any connected or as structures – called 'curtilage'.</li> <li>Identified significance will vary between buildings, even on the same street, based on and values. Consent is determined on a case-by-case basis.</li> </ul>		
<ul> <li>Consider the building's relationship with its setting or other heritage assets (e.g. listed Area, World Heritage Site).</li> </ul>	l b	sen buil
Heritage Values		Ret licie
What makes a building significant?	p ç nt	get I
<ul> <li>The level of value depends on factors such as age, rarity, the intactness of historic fat quality of design, and contribution to understanding or knowledge.</li> </ul>	pric and detailing,	
<ul> <li>A building may not have equal levels of attributed value. E.g. a Georgian townhouse may have high historic and aesthetic value, but low communal value.</li> </ul>	at	tic
Consider how the following values apply to your building:	A Heritage Statement/ Assessment is key to -da	ay
Historic – how past people, events and aspects of life can be connected through a place to the present (illustrative, associative).	Application. This is atio	ion sed
Evidential – physical remains of past human activity, including historic materials and building techniques, as well as archaeological deposits.	significance of your listed building, its	
Aesthetic – the visual and intellectual qualities of a site, and its relationship with its setting.	setting, and how this may be affected by the works proposed.	
Communal – the meanings of a place for the people who relate to it (commemorative/ symbolic, social or spiritual values).		
		buil
A Heritage Statement/Assessment should include:     The site location and any local heritage designations (e.g. Conservation Area)	The level of detail in a Heritage Statement should	tea
Overview of the building's history, including historic evidence such as map	works proposed, and your	
progressions, photographs, drawings, diagrams, floor plans, etc.	building's significance. For minor works, you may	)/lis
Outline of the proposed works     Defenses as under and early italians undertaken	consider completing the Heritage Statement yourself.	
<ul> <li>Reference sources of information and consultations undertaken</li> <li>A statement on what makes your building significant and its identified heritage values</li> </ul>	For more complex cases,	
<ul> <li>A statement on what makes your building significant and its identified heritage values</li> <li>Assessment of how proposed works would affect the building's significance and</li> </ul>	we recommend using a heritage consultant.	
Justification of how harm may be appropriately mitigated or minimised.		ty E
Powered Retrofit. Licensed under CC BY 4.0		Peo
This work is being delivered under the Local Energy Advice Demo		

- We have developed factsheets designed to assist homeowners in their retrofit journey and encourage them down the road of a full listed building consent application.
- These cover key facts and guidance on the listed building consent process and key considerations for each retrofit measure (and whether LBC is required or not).
- These will be linked on the council and Energy at Home websites as PDFs. Print copies are also available.
- We have also created national versions so residents in other local authority areas can benefit from the guidance.

#### **Promotion & Training: External Resources** LISTED BUILDING GREEN Window NRLA HERITAGE stopping HOMES Energy Advice & Campaigns Support Project South West - Energy Efficiency for Listed Creation of accessible **Building Landlords -**NRLA Representative: Ilona Bull training resources: Do you think nothing can be done to make listed buildings more THE REAL PROPERTY OF CREATER CONTINUES. egion uth West IIII AINTI COLUMN Think again! PD Points Awarded This event has already taken place Listed building consent Training Module 1: Energy Efficient Listed Buildings: Members and guests only Considerations for Consent factsheets. Join the NRLA Log in to access the recording 🕥 Login Heritage Significance Sign up for a free guest Videos covering different retrofit interventions GREEN HERITAGE nergy Measures & Listed Building Consent Applying for Listed Building Consent GREEN Factsheet of Bath & North East Some Module training – listed building consent & heritage significance **B&NES Training Module 2 Energy Efficient Listed Buildings** The Consent Process Landlord webinars. Homeowner surgeries. ath & North E External project promotion.

## Conclusion

- Misconceptions about the planning system & listing – addressing through increased engagement and guidance
- Spectrum of popular vs. unpopular retrofit options.
- Energy inefficiency associated with poor building condition/unsympathetic works.
- Consideration of factors, e.g. unauthorised works.
- Next steps follow through to ensure 'build out' of consent and development of case studies.



## Case Study: 97 Bailbrook Lane

Age:	Early 19 <sup>th</sup> century
Listing:	Grade II (91-113, Bailbrook Lane)
Building Type:	Two storey mid-terrace
Bedrooms:	2
Wall Type:	Solid wall Bath stone ashlar
Planning History:	20/04607/LBA: Replacement of rear ground & first floor windows with double glazing (consent)















## Case Study: 97 Bailbrook Lane

	-	Draughts Roof 62 W/K 56 W/K	Draughts Roof 23 W/K 28 W/K
Key Areas of	Modern kitchen fittings, including new floor and internal brick slip overlay of rear wall	Windows & doors 25 W/K Thermal Bridging 13 W/K	Windows & doors 16 W/K Thermal Bridging 13 W/K
Alteration:	<ul> <li>Replacement of rear windows with double glazed casements</li> </ul>	TOTAL	TOTAL 169 W/K
	<ul> <li>Internal drylining of rear bedroom and modern replica skirting</li> </ul>	241 W/K	+
	<ul> <li>20<sup>th</sup> century additions of rear dormer and replacement front porch</li> </ul>	Planned ventilation 6 W/K Floor 34 W/K 45 W/K	Planned ventilation Floor Walls 10 W/K 45 W/K
	Sash windows replaced in 1970s	•	
Retrofit Proposals:	<ul> <li>Replacement sash windows – slim- profile/vacuum glazing</li> </ul>	Scenario 2: Further measures	Figure 3. Space heating demand (kWh/m²-year)
	Secondary glazing	23 W/K 7 W/K	Baseline 89.1 184.8
	<ul> <li>Internal wall insulation to rear kitchen wall, rear dormer, and porch</li> </ul>	Windows & doors 11 W/K Thermal Bridging 13 W/K	Scenario 1 62.4 129.6 Scenario 2 48.9 97.5
	Update loft insulation	TOTAL 126 W/K	Scenario 3 60.9 125.4 Scenario 4 47.0
	Underfloor insulation	120 W/K	93.0 Target UK average
	ASHP in rear courtyard		0 25 50 75 100 125 150 175 200 kWh per m <sup>2</sup> per year
	<ul> <li>Potential for ground-mounted solar array to the rear (pending further assessment of visual impact and setting)</li> </ul>	Planned ventilation 10 W/K Floor Walls 26 W/K 34 W/K	With standardised heating pattern and temperature With your current heating pattern and temperature

Baseline (Your Home Now)

Scenario 1: Basic measures

## Case Study: 14 Sydney Buildings

Age:	Mid/late 19 <sup>th</sup> century
Listing:	Grade II (12-16, Sydney Buildings)
Building Type:	Four-storey mid-terrace
Bedrooms:	4
Wall Type:	Solid wall Bath stone ashlar
Planning History:	23/00996/LBA: Internal alterations including double door opening between principal ground floor rooms (refuse, approved at appeal) 12/03249/LBA: Installation of new boiler and extractor flue (consent) 07/01510/LBA: Insertion of slim-profile double glazed

slim-profile double glazed French doors in rear bay window (consent)

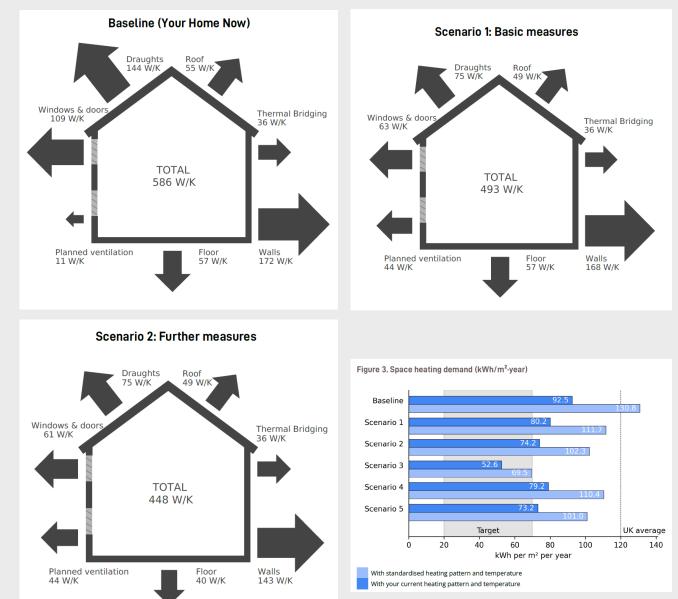






## Case Study: 14 Sydney Buildings

Key Areas of Alteration:	<ul> <li>Alteration and sub-division of lower ground floor, including tanking of east room and installation of concrete slab floor throughout</li> </ul>	Win 1
	<ul> <li>Indication that dormer window sashes have been replaced in like-for-like style – loss of historic fabric, but aesthetic maintained</li> </ul>	
	New loft insulation & recent roof repairs	
	Consent for internal alterations, including new opening between ground floor rooms and	
	demolition of lower ground floor modern partition wall (not yet built out)	
Retrofit Proposals:	<ul> <li>Replacement dormer window sashes – slim- profile/vacuum glazing</li> </ul>	
	<ul> <li>Secondary glazing to all other historic windows</li> </ul>	Windo 61
	Draughtproofing doors and fireplaces	
	<ul> <li>Internal wall insulation at lower ground floor and address ongoing damp issues</li> </ul>	
	Update loft insulation and address areas of water ingress	P 4
	ASHP in rear garden	



## Just Transition Plan for the London Borough of Newham

APSE Southern Region

January 2025

Andrew Kemp – Senior Climate Action Programme Manager



## Why is a Just Transition Plan necessary in Newham?

### Unjust Transitions

## Thousands join miners protest in Warsaw against coal power plant closures

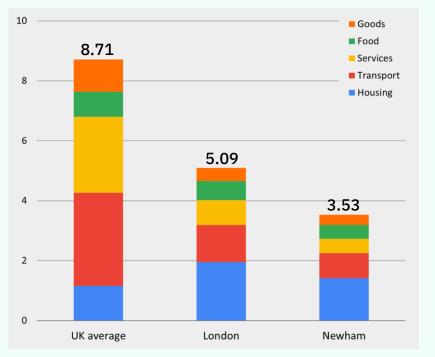
ENERGETYKA POLSKA po tansformacji

JAN 10, 2025 | ENERGY & CLIMATE, POLITICS, SOCIETY

FOOD AND FARMING 5 February 2024 ⊙ 16:36 Analysis: How do the EU farmer protests relate to climate change? f ♀ in ∞ ∞

2nd

### Newham's residents pollute less than the UK average



Consumption emissions measure the emissions that result from the production and distribution of goods and services to endconsumers living in the borough.

Newham recorded 3.53 kt C02e per resident in 2020, representing the **lowest emission per person** when compared to London and UK averages.

Sources: ClimateView inventory baseline for LBN, 2023; London Councils, 2020; The Future of Urban Consumption in a 1.5°C World by C40 Cities and Arup, 2019.

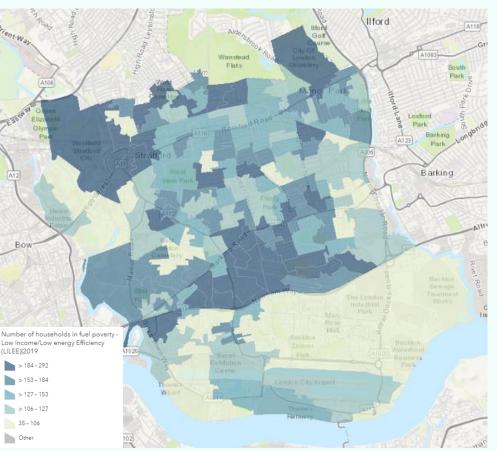
# Fuel poverty is a significant issue in Newham

Do we have secure, sustainable and affordable heating and power in our homes?

This map shows that fuel poverty is particularly pronounced in Canning Town, Plaistow and Stratford.

This indicator in consideration with building stock quality (especially around insulation) also gives an insight into which areas need support.





Number of households experiencing fuel poverty according to English Housing Survey (EHS)

## The cost of living crisis is hitting Newham's residents hard, and climate inaction will make this even worse

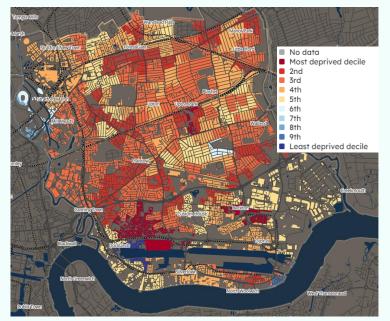
Acting on the climate is often positioned as a cost that shouldn't be imposed on citizens who are already financially stretched.

However, there is significant evidence that climate inaction will only increase costs for citizens down the line. For example:

→ Newham has one of the highest rates of private residential renters in the UK. Delaying required improvements to home energy efficiency will increase future bills.

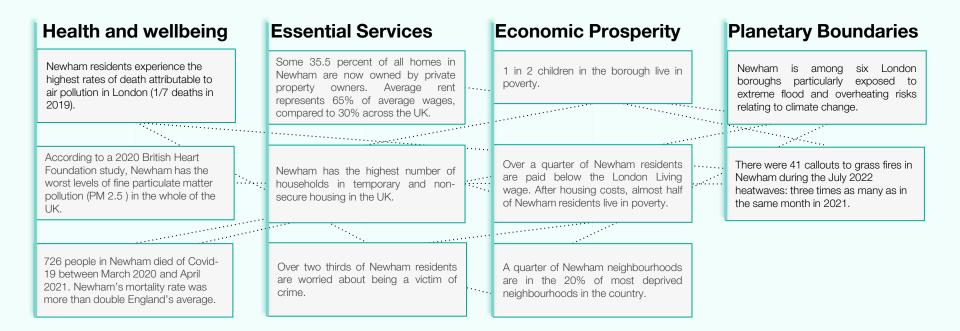
 $\rightarrow$  **Renewable energy is now cheaper than fossil fuels in many cases**. Delaying the transition to a decarbonised energy system will lock in higher prices for energy in the long term.

 $\rightarrow$  Acting on the climate saves future emergency costs for citizens, such as those associated with extreme heat, flooding, unhealthy housing, etc.



Index of Multiple Deprivation Newham - Income Source: CDRC Mapmaker

## Climate action in Newham must address the interlinked challenges faced by residents and workers

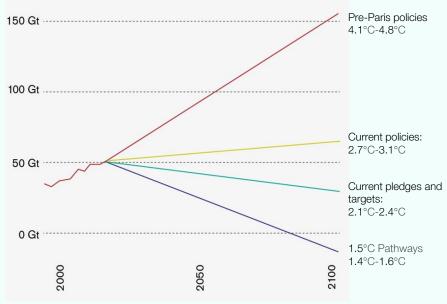


## **Climate stress is an intersectional issue**

A person's experience of climate change risks, impacts in their neighbourhood, and the benefits of this Just Transition Plan depend on their identities and privileges (or lack thereof). A Just Transition should meet people where they are at to relieve deprivation, manage existing vulnerabilities, and distribute benefits to those who need it most. The following is a sample of the intersectional considerations that inform this Just Transition Plan and any future climate-related policy and planning in Newham.

	Impacted group(s)	Potential climate risk stressors
Income level	In 2021, 23.5% of residents were estimated to be earning below the Living Wage.	The average cost of flooding damage to a home is $\pounds30,000$ , and $\pounds82,000$ for a business.
Ethnicity	Residents are predominantly Asian (42%), where up to 8% of residents report limited fluency in English.	People of colour are four times more likely to live in areas at high risk of heatwaves. Newham has the second-highest number of at-risk neighbourhoods in the UK.
Seniority	Over 65s represent 7.3% of the population.	Elderly individuals are more susceptible to heat stress and less accessible for emergency communications.
Youth & children	People under the age of 16 represent 20.1% of the resident population.	Extreme weather events can lead to school closures and disruptions in education.

## UK policies are currently not on track to tackle the climate crisis and limit warming to 1.5°C



In 2023, we have already exceeded six of nine interlinked planetary boundaries, which represent the safe operating space for humanity.

Delivering on even our most ambitious climate pledges will lead to massive impacts for people in Britain and across the world.

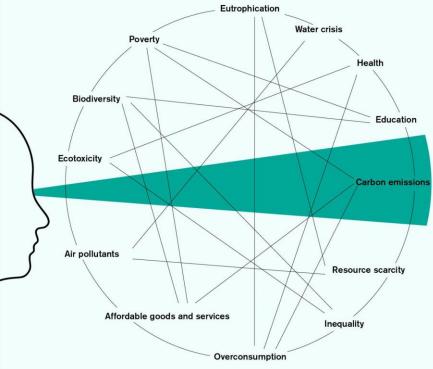
Even if we meet our climate pledges, we will still see significant climate change risks and impacts for Newham's 350,000 citizens, 120,000 households and 14,000 businesses.

Global greenhouse gas emissions in gigatonnes CO2-eq. per year

## We must avoid 'carbon tunnel vision', and recognise the polycrises linked to climate change.

The case for reducing greenhouse gas emissions, and the means by which to do so, are familiar, albeit difficult. But the climate emergency comprises a range of factors that impact human and nonhuman life and environments across the globe. Meaningful climate action needs to look beyond 'carbon tunnel vision'.

In attempting to address the climate emergency holistically, Newham can initiate its Just Transition.



## Climate change compounds poverty and structural disadvantage

This moment calls for a long-term and systemic view to address the personal, social and environmental factors that determine the way that climate change will affect people, communities, and places. The combination of these factors makes a strong case for solutions that integrate equity considerations into climate change policy, and vice versa: building climate into our understanding of other areas of governance.

### Five main forms of climate injustice have been identified in the UK:

 $\rightarrow$  Lower-income and other disadvantaged groups contribute least to climate change; but are likely to be the most impacted by it

 $\rightarrow$  These communities pay, as a proportion of income, the most towards implementing climate policy responses; but benefit least from these policies

 $\rightarrow$  Their voices tend to go unheard in decision-making

#### The time to act is now

Now is an opportune moment to reconsider how we position climate goals relative to the economy in the decades to come. In financial terms, as well as in terms of justice, the cost of action will only increase over time. People of colour in the UK are four times as likely to live in areas at high risk of dangerous heat.

Source: Friends of the Earth

## **Our Just Transition Plan**

### What is a Just Transition?

"It isn't just about cutting CO2 emissions: it's about creating a better city for Londoners. It means making homes efficient and warm, tackling fuel poverty and the cost-of-living crisis. It means making neighbourhoods more liveable and walkable, with vibrant local high streets and less traffic pollution, reducing health inequalities. It means good, green jobs with decent wages and conditions."

London Sustainable Development Commission, *London's Just Transition*; London City Hall

### Why do we need a Just Transition?

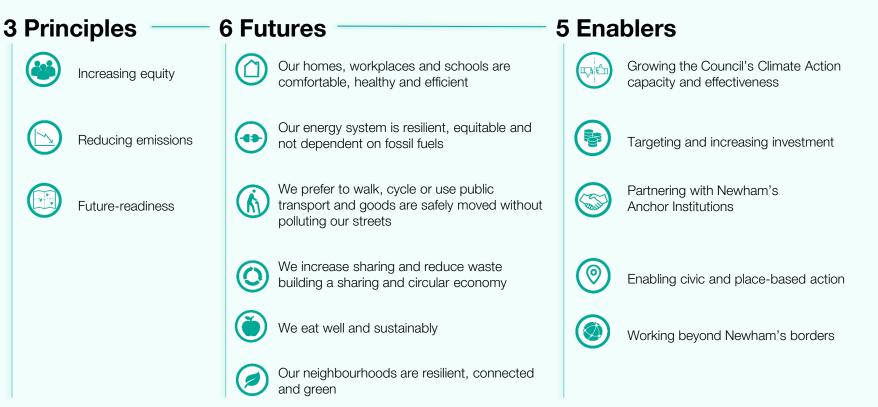
 $\rightarrow$  We deserve a fairer Newham: a Just Transition means increasing equality, improving health for our residents and providing opportunities for work and education.

 $\rightarrow$  **Newham is vulnerable:** Our residents and businesses have already suffered from extreme weather events, fuel poverty and soaring living costs.

 $\rightarrow$  We need to be future ready: Even small changes to the climate will lead to increased costs of living, migration pressures, and unpredictability and scarcity of supplies, such as food.



## How does the Just Transition plan work?



#### **3** Principles

## Three principles shape this plan.



### Increasing equity

 $\rightarrow$  Addressing the unequal impacts of the climate emergency by taking on the inherited imbalance of power

 $\rightarrow$  Leveraging the Just Transition to improve the employment opportunities, living conditions, health and wellbeing of all Newham residents



### **Reducing emissions**

 $\rightarrow$  Accelerating our pathway to net zero within Newham and via the supply chains it engages

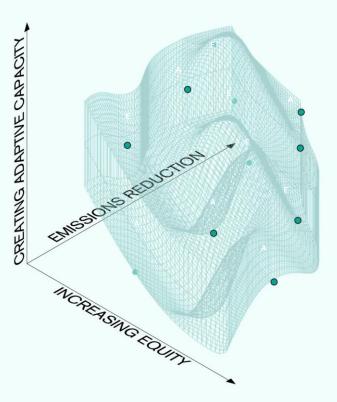
 $\rightarrow$  In doing so, we will reduce the externalities associated with resource extraction and economic growth, reflecting a shift in our collective understanding of value



### Future-readiness

 $\rightarrow$  Building Newham's physical, social and organisational capacity, to absorb, adapt and respond to the negative stresses and shocks associated with the climate emergency

 $\rightarrow$  Growing the presence of care across our economies



#### **6 Futures**

### Newham will be a place where:

Our homes, workplaces and schools are comfortable, healthy and efficient



Our energy system is resilient, equitable and not dependent on fossil fuels

**F3** (i) We prefer to walk, cycle or use public transport and goods are safely moved without polluting our streets

F4 🙆

We increase sharing and reduce waste building a sharing and circular economy



Our neighbourhoods are resilient, connected and green

# What does this look like in practice?

### **5 Enablers**

**E2** 

**E5** 

### We will do this by:

E1 Growing the Council's Climate Action capacity and effectiveness

Targeting and increasing investment

E3 SPartnering with Newham's Anchor Institutions

E4 ( Enabling civic and place-based action

Working beyond Newham's borders

## Growing the Council's Climate Action capacity and effectiveness

 $\rightarrow$  Ensure timelines and targets reflect the urgency of the Just Transition: Prioritising according to local needs and making data-supported decisions.

 $\rightarrow$  **A 'hub and spokes' Just Transition team:** Coordinating and leading a Climate Action Delivery Group of colleagues from various teams across the council; coordinating projects and acting as a bridge between teams and external partners; training over 350 council employees

→ Enhanced governance infrastructure: Updating procurement frameworks and policies; integrating Just Transition into internal decisions and reports; establishing legal precedents in community energy and other innovative programmes

### **Targeting and increasing investment**

 $\rightarrow$  **Annual Carbon Budgeting:** Identifying carbon trajectory through planned projects and programmes; prioritising according to greatest areas of need and potential gains.

→ **Exploration of borough-wide carbon insetting:** Working with developers and the planning team.

→ Newham Just Transition Fund: philanthropic and external partnering: Ensuring that the council is best placed to make use of grant funding opportunities by securing the internal support and resources for feasibility studies, strategies and other important preliminary work.

### **Partnering with Newham's Anchor Institutions**

→ Implementing a Newham Climate Contract with partners: Royal Docks Climate Agreement

→ Just Transition business, skills and supply chain programmes: Collaborating with skills providers; Green Economy Lead; building green skills into Carbon Offset Fund delivery

→ Working with universities and educational institutions: Offering placements in the team; research; project delivery; co-creating modules for students; strong focus on working closely with schools

### **Enabling civic and place-based action**

→ Citizens Participation embedded across all actions: UEL research on barriers to climate action for residents and businesses; working with VCFS groups; co-design as a priority

→ **Future-ready Neighbourhoods:** Net Zero Neighbourhoods programme; pocket forest programme; exploring Nature Based Solutions using AI technology

 $\rightarrow$  **Driving strategic and enabling works:** Ensuring that the council is best placed to make use of grant funding opportunities by securing the internal support and resources for feasibility studies, strategies and other important preliminary work.

### Working beyond Newham's borders

→ Next-generation Local Authority cross-borough partnerships: Exploring cross-borough heat network opportunities in East London

→ Building a London-wide Just Transition innovation coalition: Working with Newhambased institutions with London-wide footprints; Royal Docks Climate Agreement; Just Transition university courses

→ A climate campaigning council: Carbon Neutral Cities Alliance; leading on community energy; participating in various multiborough networks; student council conferences