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Rising to the challenge of Climate Change

Central Lincolnshire Local Plan

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City of Lincoln Council

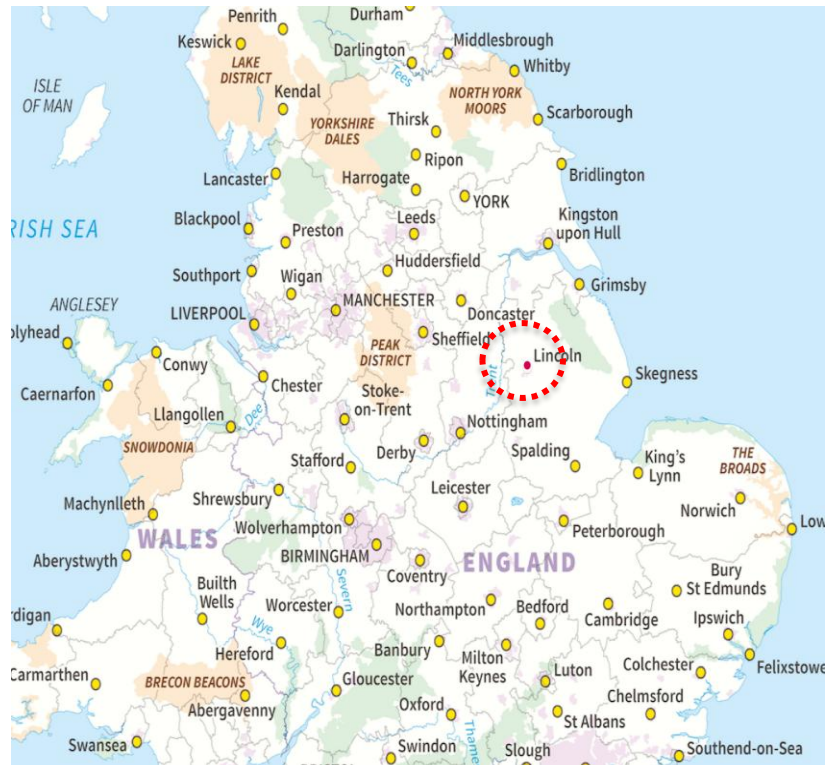
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Introduction

- Context of City of Lincoln/Central Lincolnshire
- Central Lincolnshire Local Plan
- Approach to climate change in the LP
- How we did it
- Reflections & Lessons Learnt

Context: City of Lincoln



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City of Lincoln



City of Lincoln



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Context: Central Lincolnshire



North Kesteven
DISTRICT COUNCIL

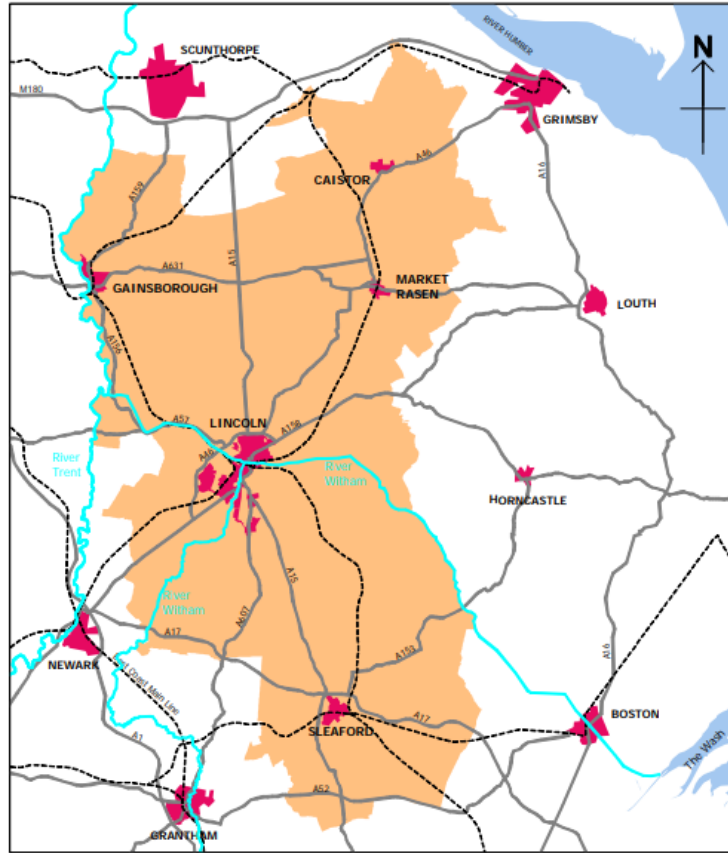


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Lincolnshire
COUNTY COUNCIL
Working for a better future



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Central Lincolnshire



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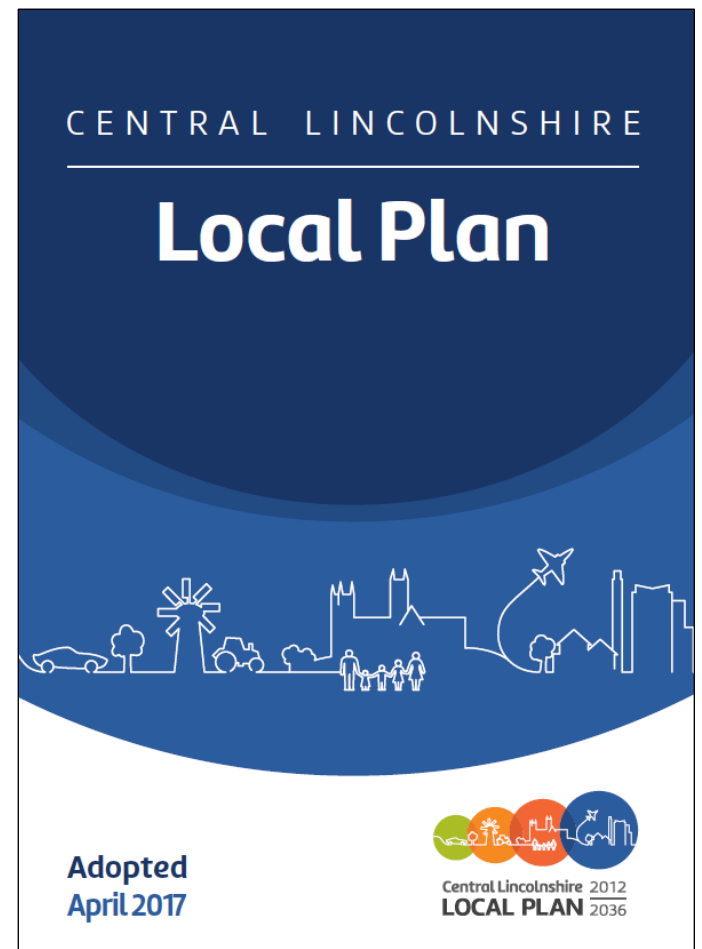
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Central Lincolnshire Local Plan

- First CL Local Plan Adopted April 2017
- Start to finish took 4 years
- Considerable achievement
- Brought confidence and stability



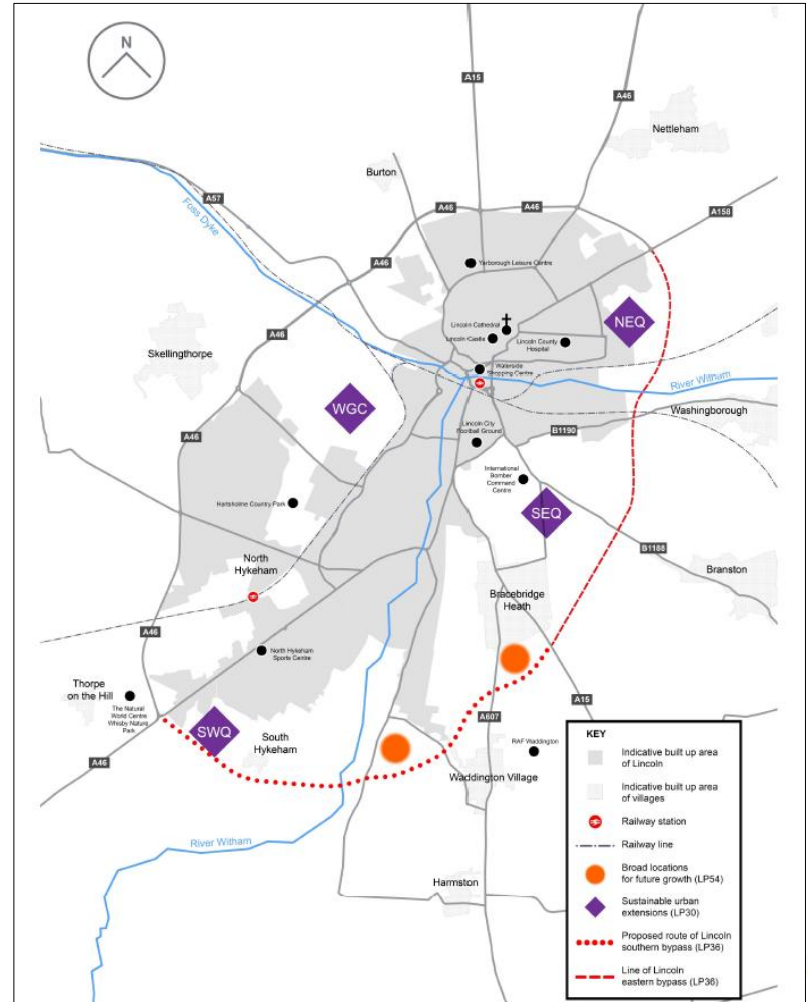
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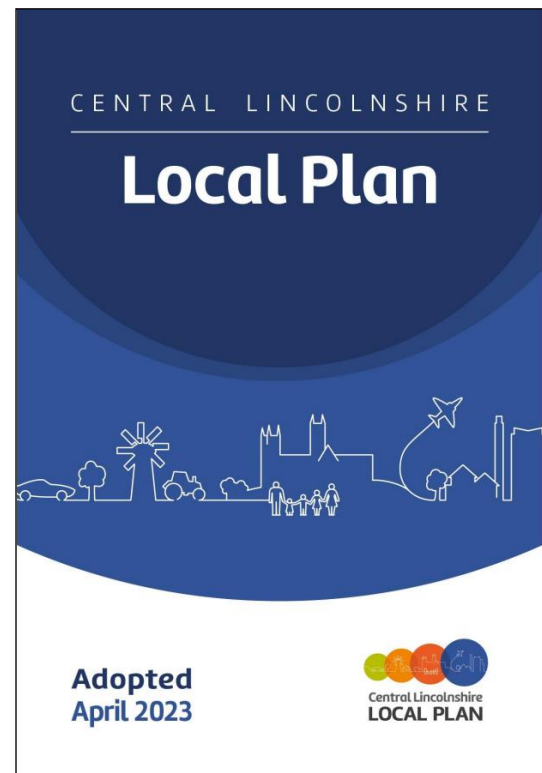
Local Plan Headline Figures

- 24,000 new homes over plan period
- Support 24,000 new jobs
- 8 Sustainable Urban Extensions



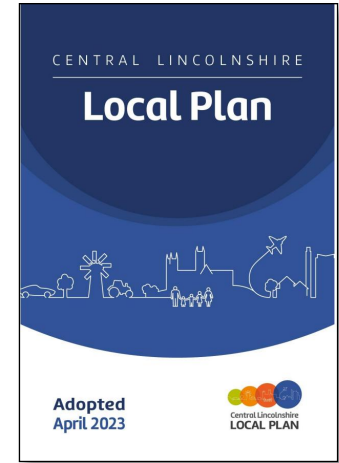
Central Lincolnshire Local Plan

- Undertook (early) review of the Plan in 2019
- Start to finish took 4.5 years
- Another considerable achievement



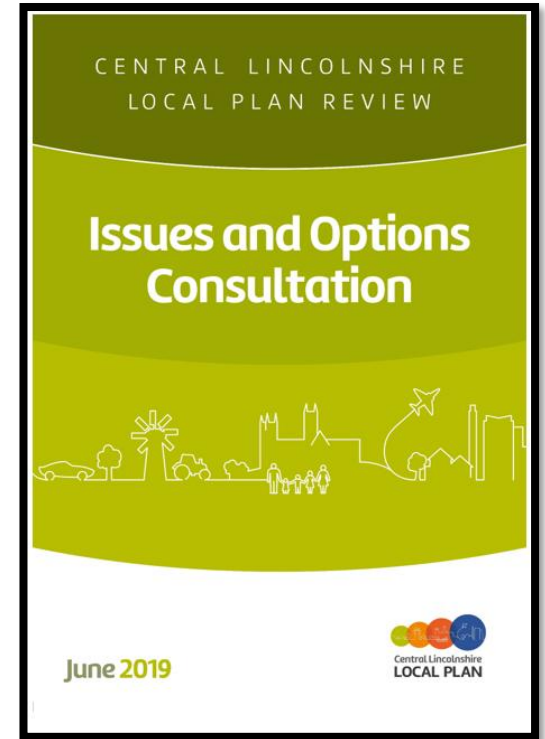
Approach to Climate Change in the current LP

- Climate Change Emergencies declared by 2 Councils
- Members sat on C.Lincs committee
- Officers asked the question...do you want us to aim high?
- Members poll in early Committee Meeting

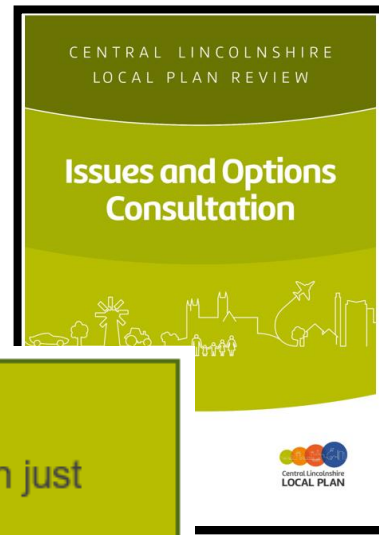


How we did it

- Overtly asked the question! (First Reg 18 consult)
- Focus on what the CLLP could influence
- Energy Standards primary focus
- But also more general CC focussed policies



How we did it

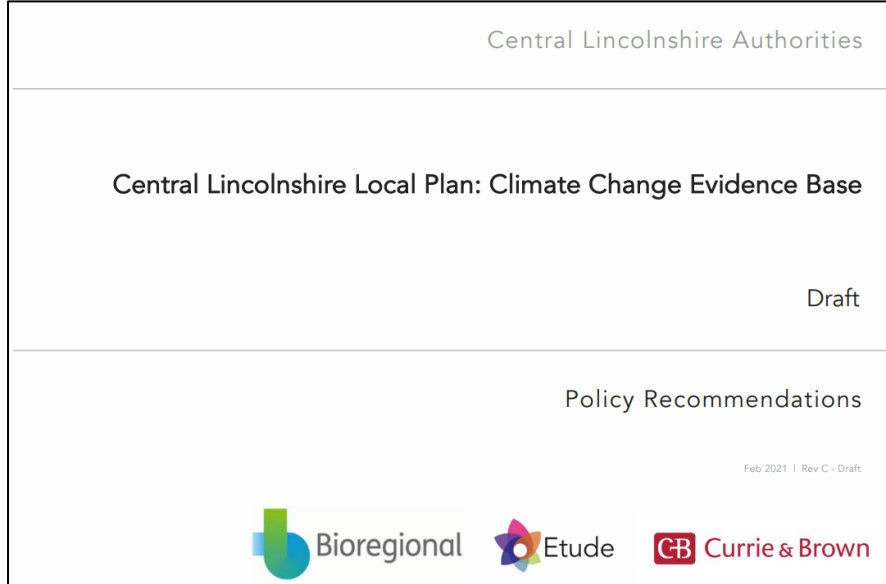


PROPOSAL 17 – Energy Performance Standards

Your views are being sought on whether the new Local Plan should require (rather than just encourage) higher energy performance standards for housing and/or non-residential development in accordance with the Planning Practice Guidance.

How we did it

➤ Commissioned the evidence



[Planning Policy Library | Central Lincolnshire Local Plan](#)

How we did it

Reference number	Document	File Type	File Size	Date published
CLC001	Recommended Policies	PDF	1.93 MB	30 June 2021
CLC002	Task A - Definition, powers and position statement	PDF	3.28 MB	30 June 2021
CLC003	Task B - Assessment of Spatial Strategy	PDF	389.27 KB	30 June 2021
CLC004	Task C - Emissions Reductions Targets	PDF	3.35 MB	30 June 2021
CLC005	Task E - Infrastructure	PDF	1.14 MB	30 June 2021
CLC006	Task G - Feasibility	PDF	8.19 MB	30 June 2021
CLC007	Task H - Cost Implications	PDF	832.63 KB	30 June 2021
CLC008	Task I - Offsetting	PDF	1.1 MB	30 June 2021
CLC009	Task J - Decentralised Energy Networks	PDF	1.88 MB	30 June 2021
CLC010	Task K - Embodied Energy	PDF	335.91 KB	30 June 2021
CLC011	Task L - Peat Soil Mapping Appendix B	PDF	2.63 MB	30 June 2021
CLC012	Task L - Peat Soil Mapping	PDF	2.83 MB	30 June 2021
CLC013	Central Lincolnshire Energy Study - 2011	PDF	19.55 MB	30 June 2021

Document downloads

How we did it (Reg 18)

- 3.1.3. Put another way, this Local Plan would be unlawfully produced if it did not meaningfully contribute to reducing emissions, help mitigate against climate change and help society adapt to a changing climate.
- 3.1.4. The Central Lincolnshire Joint Strategic Planning Committee (CLJSPC) is rising to that challenge as set by parliament. No longer will planning decision makers in Central Lincolnshire merely 'encourage' development proposals to achieve certain standards, or only 'welcome' development that goes a little beyond certain building regulation basic minimums. Development in Central Lincolnshire must do, and can do, far better than that. We are legally obliged to do more. And, for future generations, we are morally obliged to do more.



How we did it

[Policy S6: Design Principles for Efficient Buildings](#)

[Policy S7: Reducing Energy Consumption – Residential Development](#)

[Policy S8: Reducing Energy Consumption – Non-Residential Buildings](#)

[Policy S9: Decentralised Energy Networks and Combined Heat and Power](#)

[Policy S10: Supporting a Circular Economy](#)

[Policy S11: Embodied Carbon](#)

[Policy S12: Water Efficiency and Sustainable Water Management](#)

[Policy S13: Reducing Energy Consumption in Existing Buildings](#)

[Policy S14: Renewable Energy](#)

[Policy S15: Protecting Renewable Energy Infrastructure](#)

[Policy S16: Wider Energy Infrastructure](#)

[Policy S17: Carbon Sinks](#)

[Policy NS18: Electric Vehicle Charging](#)

How we did it: Policy S6-Design Principles for Efficient Buildings

Policy S6: Design Principles for Efficient Buildings

When formulating development proposals, the following design expectations should be considered and in the following order:

1. Orientation of buildings – such as positioning buildings to maximise opportunities for solar gain, and minimise winter cold wind heat loss;
2. Form of buildings – creating buildings that are more efficient to heat and stay warm in colder conditions and stay cool in warmer conditions because of their shape and design;
3. Fabric of buildings – using materials and building techniques that reduce heat and energy needs. Ideally, this could also consider using materials with a lower embodied carbon content and/or high practical recyclable content;
4. Heat supply – net zero carbon content of heat supply (for example, this means no connection to the gas network or use of oil or bottled gas);
5. Renewable energy generated – generating enough energy from renewable sources on-site (and preferably on plot) to meet reasonable estimates of all regulated and unregulated total annual energy demand across the year.

Energy statements, as required by Policies S7 and S8, must set out the approach to meeting each of the above principles.



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How we did it: Policy S7-Reducing Energy Consumption

Policy S7: Reducing Energy Consumption – Residential Development

Unless covered by an exceptional basis clause below, all new residential development proposals must include an Energy Statement which confirms in addition to the requirements of Policy S6 that all such residential development proposals:

1. Can generate at least the same amount of renewable electricity on-site (and preferably on-plot) as the electricity they demand over the course of a year, such demand including all energy use (regulated and unregulated), calculated using a methodology proven to accurately predict a building's actual energy performance; and
2. To help achieve point 1 above, target achieving a site average space heating demand of around 15-20kWh/m²/yr and a site average total energy demand of 35 kWh/m²/yr, achieved through a 'fabric first' approach to construction. No single dwelling unit to have a total energy demand in excess of 60 kWh/m²/yr, irrespective of amount of on-site renewable energy production. (For the avoidance of doubt, 'total energy demand' means the amount of energy used as measured by the metering of that home, with no deduction for renewable energy generated on site).

The Energy Statement must include details of assured performance arrangements. As a minimum, this will require:

- a) The submission of 'pre-built' estimates of energy performance; and
- b) Prior to each dwelling being occupied, the submission of updated, accurate and verified 'as built' calculations of energy performance. Such a submission should also be provided to the first occupier (including a Non-Technical Summary of such estimates).

How we did it

- Lots of guidance!

Energy Efficient Design and Construction

To help applicants and decision makers with energy efficiency policies S6, S7 and S8 a design guide and associated checklist have been produced and are available below:

- [Energy Efficiency Design Guide](#) (pdf / 3.97 MB)
- [Energy Efficiency Checklist - Residential](#) (xlsx / 1.88 MB)
- [Energy Efficiency Checklist - Non-residential](#) (xlsx / 1.88 MB)
- [Energy Efficiency Policies FAQs](#) (pdf / 296.24 KB)
- [Providing an Energy Statement Guidance and Template](#) (pdf / 426.05 KB) updated November 2023
- [Energy Efficiency Verification Statement Template and Guidance](#) (pdf / 110.48 KB) updated November 2024

Energy efficiency design Guide

The Energy Efficiency Design Guide

This document has been developed to provide practical, accessible guidance on how to comply with the Central Lincolnshire Local Plan policies on energy efficiency in new buildings.

The guidance is aimed at building professionals (such as architects, and contractors) and building owners to meet best practice energy efficiency standards, and to refer to when making applications for relevant planning compliance.

Which policies does this guide relate to?

- Policy S6: Design Principles: Residential Buildings
- Policy S7: Reducing Energy Demand: Residential Buildings
- Policy S8: Reducing Energy Demand: Non-residential Buildings

How is the guide used to support policy?

This guide is paired with a Core Strategy document, which must be submitted with a planning application to evidence compliance with the policies above.

More detail on this can be found in the Core Strategy document.

Energy Efficiency Design Hierarchy

This guide divides energy efficient design into four themes that inform how to optimise energy efficiency within new buildings. Together, these themes form the 'energy efficient design hierarchy'.

The hierarchy broadly demonstrates the order in which design decisions should be made in order to effectively optimise the subsequent theme.

For example, a poor implementation of 'Site Smart', which involves optimising the orientation and form of a building for energy efficiency, will fundamentally limit how effective the material choices within 'Fabric First' can be, and so on.

Each of the themes forms a section within this guide, comprising of three sub-sections:

1. **'Relevant policy components'** introduces how the section of the guide contributes to maximising energy efficiency, and which policies the section relates to
2. **'Design challenges'** builds upon the theme and explains the potential complications that may arise during the design process
3. **'Best practice'** provides examples of existing best practice relating to the section theme, and provides suggested targets to aid policy compliance. This section also sign-posts to the most relevant industry guidance



Site Smart

Optimising building orientation and form



Fabric First

Optimising building materials and airtightness



Sustainable Systems

Optimising energy systems and hot water demand



Green Generation

Optimising local renewable energy generation and use

Building fully optimised for energy efficiency



Energy efficiency checklist

1-Instructions for applicants


2-Instructions for applicants

Central Lincolnshire Planning Authority
 Document Rev K - Final
 Date 10/31/2022

2-Summary of proposals

Residential planning application submission checklist - energy (S6/7)

To be completed by all developments



General development information

Introduction
 This checklist is for non-residential developments. To be read in conjunction with the Guide to compliance and tab 7.

Q1 Development category

Q2 Number of units

Q3 Gross Internal Area (GIA), m2

Q4 Projected Footprint Area, m2

Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10

Compliance route

Q5 Are you using the SAP or PHPP route to demonstrate compliance with policies S6, S7 and S8? FALSE

Executive Summary

Q6

For developments requiring compliance with policies S6, S7 and S8, please complete this checklist and tab 7.

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1-Start here 2-Summary 3-Resi (PHPP Route) 4-Resi - Site 5-Resi - Fabric 6-Resi - Systems 7-Resi - Renewables

FAQ's

Energy Efficiency Policies FAQs

July 2023

Central Lincolnshire LOCAL PLAN



Please note: this FAQ List may be updated to take account of additional questions being received. Each version will be published with a month version reference on the Central Lincolnshire Website.

Q: How can I meet the requirements of the climate change policies?

A: This depends on what you are proposing to do in your application. Different uses and forms of development will need to consider different climate change policies and the amount of information required will also vary. The question below should help you understand what information you need to submit and more information on what is required from these submissions is provided in the Energy Efficiency Design Guide and Energy Statement Guidance and template, available on the [Central Lincolnshire website](#) under the climate change heading.

Q: What do I need to submit with my application?

A: To assist with understanding what should be submitted and when, please see below. If you are still unsure, please contact the development management team.

Key: ✓ = Needed, ✗ = Not Needed, ? = May be Needed / Encouraged

Type of application	Energy Statement (Policies S6, S7, S8, S11, S20)	Energy Efficiency Checklists (S6, S7, S8)	Details of efforts to reduce embodied carbon (S11)	Notes
Householder extension	?	✗	✗	Whilst householder extensions will not usually require an energy statement it is recommended that applications consider opportunities to deliver energy efficient measures and so an Energy Statement is recommended.

Guidance & Templates

Providing an Energy Statement: A Guide for Applicants

November 2023

Central Lincolnshire
LOCAL PLAN



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Central Lincolnshire
LOCAL PLAN



Energy Efficiency Verification Statement Template & Guidance

Residential Schemes Using SAP Route to compliance

1. Introduction

- 1.1. This document has been produced to provide some assistance in submitting as-built verification for the energy efficiency standards in new residential developments in accordance with Policies S6 and S7 of the 2023 Central Lincolnshire Local Plan.
- 1.2. This guidance has been designed so that the information needed for building regulations sign off can be used to discharge conditions at the point where the information would need to be produced anyway. By aligning these processes, it is the intention that this approach will not place any significant additional burden on applicants.
- 1.3. The verification documentation needs to set out:
 1. The proposed standards set out in the energy statement accompanying the application and approved and conditioned in the decision;
 2. The achieved standards in the built property;
 3. A direct comparison of the as-built efficiency standards to the standards approved in the permission; and
 4. The evidence necessary to demonstrate this.
- 1.4. It provides two versions of a template for submission of as-built verification to discharge conditions – one for cases where the standards approved have been met and one for cases where the full standards have not been achieved.

Reflections & Lessons Learnt

- Schemes are in compliance with energy standards
- Takes time to bed in
- Member support crucial
- Officer training

Reflections & Lessons Learnt (2)

- Difficult to quantify success
- You can be ambitious
- Have good evidence base
- Be prepared to fight your corner
- Local Plans can/should do all they can to promote net zero

