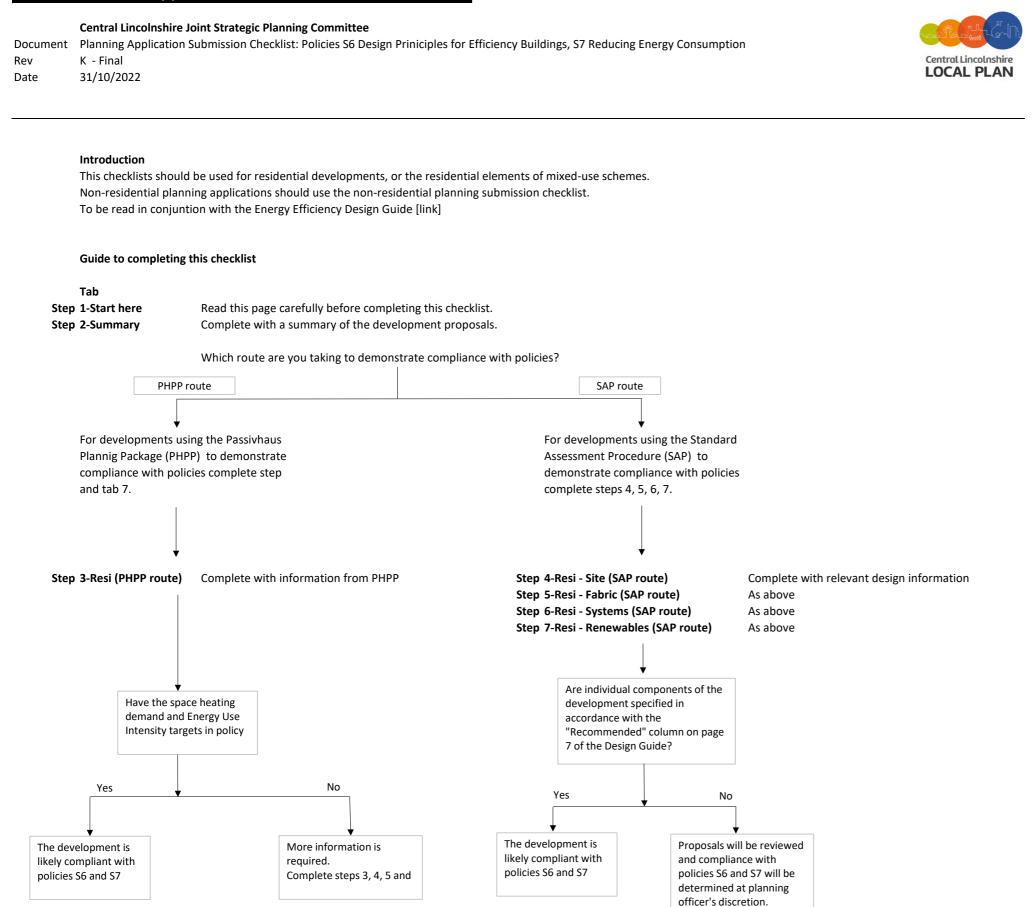
1-Instructions for applicants

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



2-Summary of proposals

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

To be con	npleted by all developments											The July Gall
											Cent LO	ntral Lincolnshire
General d	levelopment information											
Q1 Q2	Development category Number of units	Residential	1									
Q3 Q4	Gross Internal Area (GIA), m2 Projected Footprint Area, m2		Plot 1 221.6 13		Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10
Complian	ce route											
Q5	Are you using the SAP or PHPP ro	oute to demonstrate co	ompliance with	policies S6, S	7 and S8?		SAP	complete que	estions below a	and then go to t	tab 4	
Executive	Summary											
Q6	This Energy Efficiency Checklist is	s in support of a House	Holder Applic	ition for the e	rection of a ne	w two storey	⁷ dwelling in Po	ıtterhanworth	I.			
Exception	nal basis clauses											
Q7	Does your poropsal fall under Ex	ceptional Basis clause	1, 2 or 3 of poli	icy S7		No]					
Q8	If you have answered yes to the	above please justify in	the space belo	w and comple	te Tabs 3 (if ar؛	pplicable) 4, 5	, 6 and 7.					

4-Resi - Site (SAP Route)

Checklist for RESIDENTIAL development applications.

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

Central Lincolnshire LOCAL PLAN

This checklist is for applications that have used the Standard Assessment Procedure (SAP) methodology for calculating energy and CO2 emissions. Applicants that have used PassivHaus Planning Package (PHPP) completed by a certified PassivHaus Designer can use the simplified checklist.

This checklists covers Policies S6 and S7 for residential development. For non-residential development please use checklist [insert link]

			Orientation	and form of buildings							
How has orients	tion and the in	cidonco of cun	and chading int	luenced the design of the site an	d the building/c2						
					ts and natural climate factors in order to develop an efficient design that responds to its context and maximis						
					building orientation and amount and sizing of openings. Most of the habitable rooms have been positioned						
south to maximi				, .							
How has the potential for overheating been minimised through design?											
The windows to	the south, whe	re it is more like	elv to overheat.	will be installed using solar contr	ol glazing. This limits the amount of heat the glass aborbs from the sun, preventing overheating inside the dw						
			-,,		- 00						
These narrative i	responses can b	e supplemente	d with design ev	vidence.							
Please complete	the below for a	it each unit (or	a sample of 5 u	nits for propsoals with more than	5 units).						
Unit 1											
Form factor		Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Houses/low-rise	Flats four or										
flats.	more storeys										
		Façade 1	North		The north façade has large portions of glazing to the inhabitable rooms to allow for more natural light penet						
		Façade 2	East		The east façade has fewer openings to avoid overlooking into neighbours plot.						
		Façade 3	West		The west façade has limited openings to avoid overlooking into neighbours plot.						
2.4	•	Façade 4	South	41	The south façade has large portions of glazing to allow for more natural light penetration into the internal sp						
Unit 2											
Form factor		Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Houses/low-rise	Flats four or	1									
flats.	more storeys										
		Façade 1									
		Façade 2									
		Façade 3									
		Façade 4									
Unit 3 Form factor		Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise	Flats four or	onentation									
flats.	more storeys										
		Façade 1									
		Façade 2									
		Façade 3									
		Façade 4									
Unit 4											
		1									
Form factor	1	Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise		Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor	Flats four or more storeys			Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise		Façade 1		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise				Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise		Façade 1 Façade 2		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats.		Façade 1 Façade 2 Façade 3		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5		Façade 1 Façade 2 Façade 3 Façade 4									
Form factor Houses/low-rise flats. Unit 5 Form factor	more storeys	Façade 1 Façade 2 Façade 3		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4									
Form factor Houses/low-rise flats. Unit 5 Form factor	more storeys	Façade 1 Façade 2 Façade 3 Façade 4 Orientation									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats.	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats.	Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor	Flats four or more storeys	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3									
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor	Flats four or more storeys	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2 Façade 2 Façade 3		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Form factor Flow-rise flats.	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2 Façade 2 Façade 3		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats.	Flats four or Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2 Façade 2 Façade 2 Façade 2 Façade 3 Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats.	Flats four or more storeys	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2 Façade 2 Façade 3		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 4 Orientation Façade 1 Façade 1 Façade 1 Façade 2 Façade 2 Façade 2 Façade 2 Façade 3 Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats.	Flats four or more storeys	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 2 Façade 2 Façade 4 Orientation Façade 3 Façade 4 Orientation Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 4 Orientation Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 2 Façade 2 Façade 4 Orientation Façade 3 Façade 4 Orientation Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats.	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 1 Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise	Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 4 Façade 1 Façade 2 Façade 3 Façade 4 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats.	Flats four or more storeys Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 1 Façade 4		Glazing to solid wall ratio (%) Glazing to solid wall ratio (%) Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise flats.	Flats four or more storeys Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 4 Façade 1 Façade 2 Façade 3 Façade 4 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise flats.	Flats four or more storeys Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 4 Orientation Façade 4 Façade 4 Orientation Façade 4 Orientation Façade 4 Orientation		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						
Form factor Houses/low-rise flats. Unit 5 Form factor Houses/low-rise flats. Unit 6 Form factor Houses/low-rise flats. Unit 7 Form factor Houses/low-rise flats.	Flats four or more storeys Flats four or more storeys Flats four or more storeys Flats four or	Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 2 Façade 3 Façade 4 Orientation Façade 1 Façade 2 Façade 3 Façade 4 Orientation Façade 4 Façade 1 Façade 2 Façade 3 Façade 4 Façade 4		Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed. Explain how the balance between solar gain and solar shading has been managed.						

Unit 9											
Form factor		Orientation	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
Houses/low-rise Flats four or											
flats.	more storeys										
		Façade 1									
		Façade 2									
		Façade 3									
		Façade 4									
		Façade 4									
Unit 10		Façade 4									
Unit 10 Form factor		Façade 4 Orientation	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
	Flats four or	· · · · · · · · · · · · · · · · · · ·	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
Form factor	Flats four or more storeys	· · · · · · · · · · · · · · · · · · ·	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
Form factor Houses/low-rise		· · · · · · · · · · · · · · · · · · ·	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
Form factor Houses/low-rise		Orientation	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							
Form factor Houses/low-rise		Orientation Façade 1	Glazing to solid wall ratio (%)	Explain how the balance between solar gain and solar shading has been managed.							

Documentation required

Please confirm the following documentation has been provided as a minimum: Plans and elevations of all building types

Site plan with building types and orientation marked



5-Resi - Fabric (SAP Route)

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

Checklist for RESIDENTIAL development applications using SAP (Standard Assessment Procedure) to calculate energy consumption



Please add additional

This checklists covers Policies S6 and S7 for residential development. For non-residential development please use checklist [insert link]

			LOPMENTS U	SING SAP (NO	T DHDD)					plots to th applicable	e right wher
Policy S6:	Design Principles for Efficient Buildings	Plot Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10
6.3	Fabric of buildings										
		The belov	v cells have co	nditional form	atting to ind	icate liklihood	of compliant	e with policy	S7		
22	Air-tightness target		4								
223	What ventilation strategy will be used in the building/s?										
		Other									
24	Efficiency of MVHR unit (if proposed)										
25	Complete the below table with the proposed fabric u-values of										
	the different building elements. External walls	0	.13								
	Floor		0.1								
	Roof		0.1								
	Windows and doors		0.8								
26	Dwelling fabric energy efficiency (SAP), kWh/m2										
20	The dwelling fabric energy efficiency is a value automtically calculated in the SAP software which evaluates the performance of the building or unit before the performance of the heating system or any										
	renewable energy generation are considered. This checks how good the intrinsic performance of the desian of the buildina is.										

6-Resi - Systems (SAP Route)

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



Key

- ASHP <45 Air Source Heat Pump, flow temp <45 $^\circ\mathrm{C}$ ASHP >45 GSHP >45 GSHP <45 DE GB Other Air Source Heat Pump, Jow temps Air Source Heat Pump, 45°C Ground Source Heat Pump, 45°C Ground Source Heat Pump, >45°C Direct electric systems Gas boiler Other

Please add additional plots to the right where applicable

Policy S6:	Design Principles for Efficient Buildings	Plot Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10
S6.4	Heat supply										
Q27	Will units be served by individual, communal or district heating systems?	Individual									
Q28	What systems will provide space heating and hot water in the building/s?	ASHP <45									
Q29	Dwelling primary energy, kWhPE/m2										

Documentation required

Site plans and/or plot drawings showing location of heating systems

Yes

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



Renewable energy											
Please complete the table below for renewable energy provision:											
Which technology/technologies will be installed on the site?											
PV panels, electric car charging point											
Total installed capacity on-site, kWp											
Site wide annual renewable energy generation, kWh/yr											
What program or calculation methodology has been used to calculate the above renewable energy outputs?											
							Please add a	dditional plot	s to the right	where applica	ible
Complete the below as applicable. Solar photovoltaics	Communal	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot 7	Plot 8	Plot 9	Plot 10
Renewable energy generation intensity, kWh/m2/yr*	Communal	Plot 1	Plot 2	Plot 3	Plot 4	Plot 5	Plot 6	Plot /	Plot 8	Plot 9	Plot 10
										-	
PV panel efficiency rating, W		100									
PV panel efficiency rating, W Surface area of roof, m2		130									
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2		13.6									
PV panel efficiency rating, W Surface area of roof, m2											
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building		13.6									
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use)		13.6									
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)*		13.6 2	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use)		13.6	#DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	#DIV/0!	#DIV/0! #DIV/0!	#DIV/0! #DIV/0!	
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV	Communal	13.6 2 0 10%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine	Communal	13.6 2 0 10%									
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f,p,)* % of surface area of roof covered by PV Wind turbine Number of turbine	Communal	13.6 2 0 10%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine	Communal	13.6 2 0 10%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2		0 10%	#DIV/0! Plot 2	#DIV/0! Plot 3	#DIV/0!	#DIV/0! Plot 5	#DIV/0! Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	#DIV/0! Plot 9	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solar thermal	Communal	0 10%	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solarthermal Installed capacity		0 10%	#DIV/0! Plot 2	#DIV/0! Plot 3	#DIV/0!	#DIV/0! Plot 5	#DIV/0! Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	#DIV/0! Plot 9	
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solar thermal		0 10%	#DIV/0! Plot 2	#DIV/0! Plot 3	#DIV/0!	#DIV/0! Plot 5	#DIV/0! Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	#DIV/0! Plot 9	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solarthermal Installed capacity		13.6 2 0 10% Plot 1	#DIV/0! Plot 2	#DIV/0! Plot 3	#DIV/0!	#DIV/0! Plot 5	#DIV/0! Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	#DIV/0! Plot 9	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solarthermal Installed capacity % annual hot water demand met	Communal	13.6 2 0 10% Plot 1	#DIV/0! Plot 2 Plot 2	#DIV/0! Plot 3 Plot 3	#DIV/0! Plot 4	#DIV/0! Plot 5	#DIV/0! Plot 6 Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	Plot 9 Pl	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f,p,)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solar thermal Installed capacity % annual hot water demand met Other	Communal	13.6 2 0 10% Plot 1	#DIV/0! Plot 2 Plot 2	#DIV/0! Plot 3 Plot 3	#DIV/0! Plot 4	#DIV/0! Plot 5	#DIV/0! Plot 6 Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	Plot 9 Pl	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f,p,)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solar thermal Installed capacity % annual hot water demand met Other	Communal	13.6 2 0 10% Plot 1	#DIV/0! Plot 2 Plot 2	#DIV/0! Plot 3 Plot 3	#DIV/0! Plot 4	#DIV/0! Plot 5	#DIV/0! Plot 6 Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	Plot 9 Pl	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f.p.)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solarthermal Installed capacity % annual hot water demand met Other Installed capacity	Communal	13.6 2 0 10% Plot 1	#DIV/0! Plot 2 Plot 2	#DIV/0! Plot 3 Plot 3	#DIV/0! Plot 4	#DIV/0! Plot 5	#DIV/0! Plot 6 Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	Plot 9 Pl	#DIV/0! Plot 10
PV panel efficiency rating, W Surface area of roof, m2 Area of PV panel, m2 No. storeys to building Indicators (for officer use) Annual generation per m2 building footprint, kWh/m2(f,p,)* % of surface area of roof covered by PV Wind turbine Number of turbines Capacity of individual turbine Annual generation, kWh/m2 Solar thermal Installed capacity % annual hot water demand met Other	Communal	13.6 2 0 10% Plot 1	#DIV/0! Plot 2 Plot 2	#DIV/0! Plot 3 Plot 3	#DIV/0! Plot 4	#DIV/0! Plot 5	#DIV/0! Plot 6 Plot 6	#DIV/0! Plot 7	#DIV/0! Plot 8	Plot 9 Pl	#DIV/0

Plans and elevations of all building types Site plan with building types and orientation marked Roof plans with indicative PV layouts Site plan with location of renewable energy technologies SAP / PHPP outputs Renewable energy generation calculations

Yes	
Yes	
Yes	
Yes	
Yes	
Yes	