

BE-70 – Planning condition - Local Authority: Arun District Council

Condition 34 of planning approval BE/13/24/S73 (amended by BE/77/25/NMA)

Condition: *At least 10% of the total predicted energy requirements for major developments will be generated through renewable or low carbon energy generation on site making an allowance for a) the current energy efficiency standard and b) any additional energy efficiency measures (for example Fabric First) which achieves energy performance over and above the current energy efficient standard. The residual total predicted energy requirement will then be used to calculate a 10% contribution through renewable or low carbon energy generation. The Local Planning Authority will consider 'allowable solutions' where it is clearly demonstrated that the provision of on-site renewable or low carbon energy generation is unviable or not feasible and where the equivalent 10% energy savings can be demonstrated. Details and a timetable of how this is to be achieved for each phase or sub phase of development, including details of physical works on site, shall be submitted to and approved in writing by the Local Planning Authority before any development in that phase or sub phase is commenced. The development shall be implemented in accordance with the approved details and timetable and will be retained as operational thereafter, unless otherwise agreed in writing by the Local Planning Authority.*

Results:

Total energy consumption = 61.82 kWh/m²

PV provides 25.01 kWh/m²

$25.01/61.82 = 0.40 \times 100 = 40.4\%$ of energy provided by renewables (PV). The buildings also have ASHPs, so this figure will be higher if incorporating that too.

This applies to all 8 new buildings, which are all identical, apart from slight differences in openings.

Energy Consumption by End Use [kWh/m²]

	Actual	Notional
Heating	34.69	26.96
Cooling	0	0
Auxiliary	6	6.18
Lighting	18.49	9.11
Hot water	2.64	0.97
Equipment*	41.08	41.08
TOTAL **	61.82	43.21

* Energy used by equipment does not count towards the total for consumption or calculating emissions.

** Total is net of any electrical energy displaced by CHP generators, if applicable.

Energy Production by Technology [kWh/m²]

	Actual	Notional
Photovoltaic systems	25.01	0
Wind turbines	0	0
CHP generators	0	0
Solar thermal systems	0	0
Displaced electricity	25.01	0