Carnell Warren
ASSOCIATES LTD

76 Fitzjohn's Ave

London NW3

Proposed Energy Statement

For

Mr Z Naqi

Dukes House · 1-2 Duke Street · Woking · Surrey · GU21 5BA
T 01483 730995 ·
E wendy@carnellwarren.co.uk · W www.carnellwarren.co.uk

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1.0 Executive summary

The project is a single refurbishment and extension of an existing domestic residence in a conservation area, the new accommodation will increase the overall sq. meterage of the house by 82 m^2

From Camden CPG 3

2.5 Developments involving 5 or more dwellings and/or 500sq m (gross internal) floorspace or more are required to submit an energy statement which demonstrates how carbon dioxide emissions will be reduced in line with the energy hierarchy (see below for more details on what to include in an energy statement).

Therefore it is considered the scheme is a Minor Development and The London Plan will not apply.

However in accordance with good practice the

Development will: • reduce energy use and emissions that contribute to climate change during the lifecycle of the development.

The building will be designed in line with Buidling Regulations Part L1B 2013 and emphasis will be placed on passive design to reduce C02 emissions.

Construction material selections will wherever possible look to better the guideline target U values included within Building Regulations Part L1B.

The scheme will be fully in accordance with Part L1B of the building regulations and where possible will look to improve on the energy tragets set in the regulations.

2.0 Establishing CO_2 emissions

At the appropriate design stage, the approved SAP calculation will be used to demonstrate the overall energy efficiency of the proposed building and the associated CO2 emmissions.

During in the planning process BB Architects have worked closely with ourselves and the appointed energy assessor to ensure that proposed materials are of the most appropriate and areas of glazing have been considered to achieve good daylighting whilst minimizing solar over heating.

The proposed basement has been designed to ensure that as much of the space as possible can be naturally ventilated, the remaining areas will be provided with ventilation using heat recovery ventilation.

3.0 Demand reduction (Be Lean)

Demand reduction will be achieved by the employment of enhanced u values for construction, detailing to ensure thermal bridging is eliminated and design and detailing to ensure the optimum air permeability is achieved.

The scheme will include the inclusion of smart energy metering and all services will have fully automatic and optimized controls.

3.0 Building Services (Be Clean)

Building services installations will employ the highest efficiency heat producing appliances with the lowest NOX ratings.

Fixed lighting will be 100% from low energy sources and will be automatically controlled using presence detectors in rooms of low useage.

White goods will be selected as A rated products.

4.0 Renewables (Be Green)

We have considered the use of renewable energy for the scheme below:-

The most appropriate renewable for the project would be Photo-Voltaic Panels.

There is limited south facing pitched roof available which will allow approx. 12.5sq.m. of PV to be installed giving slightly under 2kWp.