IRF Energy Ltd
Ian Folkard Accredited On-Construction Energy Assessor
irfenergy@gmail.com Tel: 07908-174709 http://sites.google.com/view/irf-energy/

STUBBIN, SHAW LANE_SUSTAINABILITY STATEMENT (POLICY 12)	
Policy	**Project measures**
Promoting Renewable Energy	
12.1 In that part of the neighbourhood area where Kirklees Council is the local planning authority, proposals for individual and community scale energy from hydro-electric, solar photovoltaic panels, biomass, anaerobic air digestion and ground source heating will be supported where they can be achieved without conflicting with the NDP policies to protect and enhance the landscape and built character of the Valley	* Solar photovoltaic panels are proposed * Option of heat pump will be considered to see if practical / financially feasible.
12.2 New developments should develop opportunities to deliver on site heat networks using renewable energy sources.	Policy not applicable to single plots
Energy Efficiency	
12.3 Sustainable, energy efficient designs should be used in all new buildings	Refer to measures listed for Policy 12.5
12.4 All new non-residential buildings should be designed to achieve a BREEAM rating of excellent or outstanding.	Not applicable- residential property
12.5 All new buildings should aim to meet a high level of sustainable, design and construction and be optimised for energy efficiency, targeting zero carbon emissions. This might include: a. Orientation to optimise passive solar gain. b. Use of high quality, thermally efficient building materials, subject to consideration of local character and context - see Policies 1 and 2. c. Installation of loft and wall insulation and double/triple glazing.	* Large glazed façade faces south to optimise solar gain. Windows to have a high solar transmission (g-value) to maximise solar gain (within limits set in Part O -Overheating). * High fabric standards proposed to provide passive means of energy & carbon reduction. This includes well insulated roofs, walls and floors and high specification windows and external doors. * Property to meet fabric, carbon and energy targets in 2021 Part L regulations, which are a stepping stone to zero carbon homes. * Energy efficient lighting to be installed throughout with efficacy of at least 75 lumens/watt. * Decentralised mechanical ventilation system proposed to enhance air quality in the house and optimise energy efficiency. * Heat loss through structural junctions to be thermal modelled and minimised by adopting thermally efficient design.

IRF Energy Ltd
Ian Folkard Accredited On-Construction Energy Assessor
irfenergy@gmail.com Tel: 07908-174709 http://sites.google.com/view/irf-energy/

STUBBIN, SHAW LANE_SUSTAINABILITY STATEMENT (POLICY 12)	
Policy	**Project measures**
12.5 con't….	* Highly efficient boiler proposed to help meet energy and carbon targets. Enhanced heating controls will also help reduce energy usage. * The dwelling will maintain the built character and context of the local area by using locally sourced materials such as natural stone and natural slates. Additionally, stone corbels, mullions, heads, cills and jambs will be utilised to ensure the dwelling fits in with the local vernacular.
12.6 All new buildings should incorporate technologies which generate or source energy from renewable, low carbon sources.	* Solar photovoltaic panels are proposed * Waste Water Heat Recovery units to be considered on shower outlets. These use the wastewater from showers to pre-heat incoming water, thereby significantly reducing the energy required for water heating. * Option of heat pump will be considered to see if practical / financially feasible.
12.7 Retrofitting of older properties to reduce energy demand and to generate renewable energy is encouraged where proposals are sensitive to local character. Alterations to existing properties where planning permission is required should be designed to reduce energy demand and comply with sustainable design and construction.	Not applicable- New build property
Encouraging Sustainable Living	
12.8 The inclusion in development proposals of community gardens and further allotment space in the valley for local food growing will be supported.	Policy not applicable to single plots