

FAO: Technical Support Unit, Arun District Council

App Ref: A/82/18/DOC (details reserved by condition under A/132/17/OUT)

17/10/2018

To whom it may concern,

I, Christopher Collier BSc(Hons) MIET, have been appointed by Future Planning & Development on behalf of the owners of the development referred to as Quiet Waters, Roundstone Lane, Angmering, in order to prepare a statement which confirms that the renewable energy and carbon reduction targets for Planning Application A/82/18/DOC (approval of details reserved by condition imposed under A/132/17/OUT) are still achievable with the revised site layout.

The Renewable Energy Statement (Issue 1.0, 18 May 2018) for the previous site layout (rev H) has identified that with the addition of a Solar PV array to supplement efficient fabric and services, the CO₂ emissions would be reduced by 10.61% (compared to the TER). This equates to a 10.8% reduction, after the 'Be Lean' measures are taken into consideration. This satisfies the Arun District Council Policy ECC SP2 requirement for 10% of energy requirements through renewable technologies.

The revised site layout features the same number of properties, however the orientation of a number of properties has changed. This affects the SAP (energy and carbon) calculations in various ways – notably through having an influence on the amount of solar gain benefitting the properties in winter, and the amount of energy generated by the solar PV panels.

The amended property orientations have been modeled based on the revised site layout (rev O), with the following results:

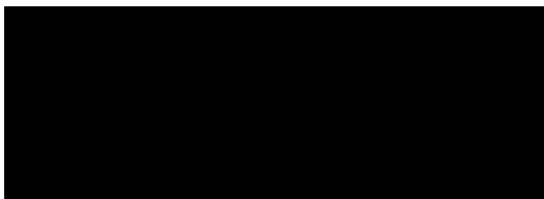
	Total Regulated emissions (Tonnes CO ₂ per annum)	CO ₂ Savings (Tonnes CO ₂ per annum)	Percentage Saving (%)
Part L 2013 Baseline	55.2		
Be Lean	51.8	3.4	6.14%
Be Clean	51.8	0.0	0.00%
Be Green	46.2	5.6	10.14%

Based on the revised site layout, with the addition of a Solar PV array to supplement efficient fabric and services, the CO2 emissions would be reduced by 10.14% (compared to the TER). This equates to a 10.8% reduction, after the 'Be Lean' and 'Be Clean' measures are taken into consideration. This satisfies the Arun District Council Policy ECC SP2 requirement for 10% of energy requirements through renewable technologies.

It is considered that the revised site layout (rev O) under planning application A/82/18/DOC (approval of details reserved by condition imposed under A/132/17/OUT) would meet the required renewable energy and carbon reduction targets.

Please feel free to contact me should you require further information on this matter.

Kind regards,



Christopher Collier MIET BSc (Hons) Mec Eng
Director, Keeping Blue Ltd