



FALCON  
ENERGY  
LIMITED

Energy Conservation Specialists

Nick & Georgie Scott  
23 Battersea Church Road  
London  
SW11 3LY

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**Report for: 1 no new build property, The White House, Wix Hill, West Horsley,  
KT24 6ED**

**Ref: 20% Reduction Report**

The process I have undertaken is to design the unit to pass building regulations; I then added 2.59 kWp of solar P.V (South facing approximately 7 no panels based on 0.37 kWp per panel) overall to get a reduction in CO2 emissions.

**(Unit 1 Building regulation Baseline SAP approval design)**

CO2 Emissions **5424 Kg/year (Sap box 272)**

**Baseline Totals**

**(Unit 1 Building regulation Baseline Total)**

**CO2 emissions = 5424 Kg/year**

**Targets for planning**

**(Unit 1 Targets for planning)**

CO2 Target 19% reduction **5424 Kg/year**-20% = **4339 Kg/year**

**(Unit 1 20% Reduction regulation SAP approval design 2.59 kWp of P.V)**

CO2 Emissions **4263 Kg/year (Sap box 272)**

**20% reduction Totals (Unit 1)**

**CO2 emissions = 4263 Kg/year**



**Office:** Unit J, Foundry Close, Horsham, West Sussex RH13 5TX

Telephone: 01403 253439 Fax: 01403 253439

email: [info@falconenergy.co.uk](mailto:info@falconenergy.co.uk) [www.falconenergy.co.uk](http://www.falconenergy.co.uk)

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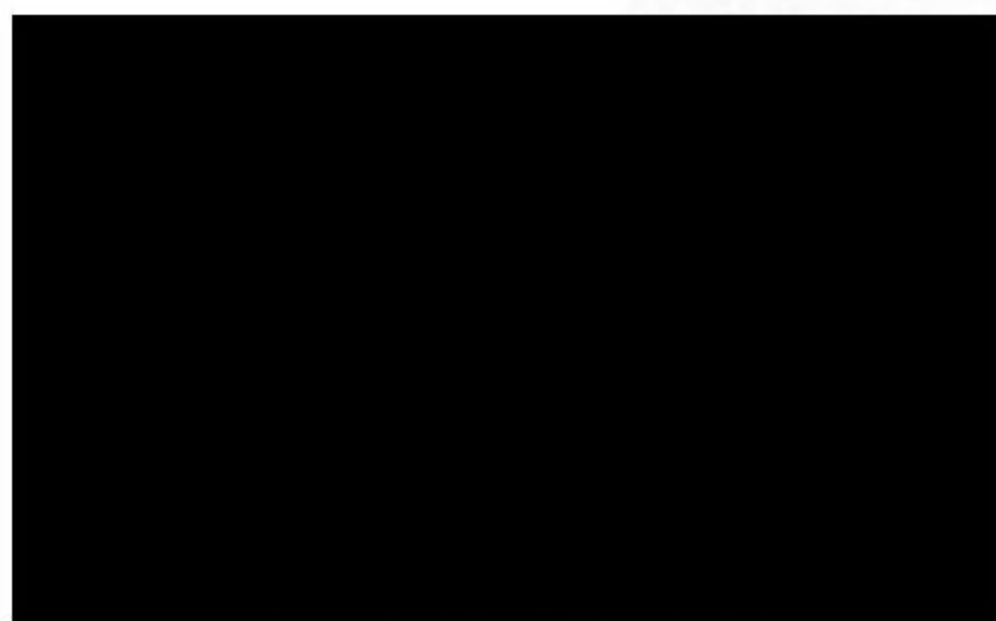


**Targets achieved (Unit 1)**

CO2 Target **Baseline SAPs 5424 Kg/year**-20% = **4339 Kg/year** **20% Reduction SAPs**  
**4263 Kg/year target achieved**

If you require any further calculations or further information/explanation, then please do not hesitate to contact me. Please read in conjunction with attached SAP worksheets from qualified NHER accredited assessor.

Regards



Neil Vanson  
Director  
Falcon Energy ltd