

ENERGY & SUSTAINABILITY STATEMENT

Proposed Single Dwelling on land to the rear of Scarp Close, Ashwell

PREPARED BY
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1.0 INTRODUCTION

This Energy and Sustainability Statement accompanies the planning application for a new single dwelling at the rear of Scarp Close, Ashwell.

The proposal adopts a fabric-first, low-carbon approach integrated with the site's orientation and landscape setting.

2.0 ENERGY STRATEGY

Be Lean – High-performance fabric, enhanced insulation, airtightness, reduced thermal bridging, south-facing glazing.

Be Clean – Air Source Heat Pump, underfloor heating.

Be Green – Roof-integrated photovoltaic panels.

3.0 SUSTAINABLE DESIGN

Partially recessed form improves thermal performance.

Durable materials: slate, timber, brick.

Locally sourced materials where possible.

4.0 WATER EFFICIENCY

Low-flow fittings, dual-flush WCs, efficient appliances.

Potential rainwater harvesting.

5.0 DRAINAGE (SuDS)

Permeable surfaces and on-site drainage solutions such as soakaways.

Controlled runoff rates.

6.0 CLIMATE RESPONSIVE DESIGN

South-facing living spaces maximise daylight.

Building embedded into slope improves thermal stability.

Overheating risk mitigated.

7.0 CONCLUSION

A highly sustainable, low-carbon dwelling aligned with national and local policy.