

Technical Note: Sustainability and Energy Efficiency

(Tackling Climate Change) (10/04/26)

This Technical Note accompanies the detailed planning application for the proposed dwelling at Green Lane, Ford, Salisbury.

The proposal has been designed as a low-carbon family home, with energy efficiency and climate resilience embedded from the outset.

The dwelling is intended to incorporate a Vaillant aroTHERM plus air source heat pump, an air/water heat pump suitable for new-build development and identified in the manufacturer's published information as a high-efficiency low-carbon heating and hot water solution, with seasonal room-heating efficiency ratings up to A+++ / A++ depending on model and operating conditions.

The energy strategy also includes approximately 12 roof-mounted photovoltaic panels, a home battery storage system, and EV charging provision.

Taken together, these measures are intended to reduce operational carbon emissions, lower dependence on fossil fuels, improve on-site energy resilience, and support cleaner domestic transport.

The PV array is expected to generate renewable electricity for day-to-day household use, with surplus generation capable of being stored in the battery for later use, including evening demand and vehicle charging.

In combination with good building fabric, efficient services and water-conscious design, the proposal represents a practical and credible response to the climate change agenda. It is intended to deliver a sustainable, future-facing home that aligns with the direction of national and local planning policy in support of energy efficiency, low-carbon technology and reduced greenhouse gas emissions.