

GREYWATER RECYCLING

Waste water from the shower and bath is collected and reused for WC flushing. Heat from waste water is used to heat fresh air.

NATURAL VENTILATION

Overheating in summer is increasingly becoming an issue - especially in highly insulated houses. High level rooflight uses stack effect for good 'purge' ventilation.

CONSTRUCTION

To reflect different construction methods used across the UK, some homes are built from timber frame and the remainder in masonry block.

ENHANCED INSULATION

The home is wrapped with very high levels of insulation. Good air tightness and minimal cold bridges ensure heat loss during the winter is minimised.

SMART METERING

Real time digital display of energy use in the home and automated kit to facilitate energy efficiency.

SUPPLYING HOT WATER AND HEATING FROM A CENTRAL PLANT ROOM

All homes are connected by hot water pipes - similar to one giant central heating system. Different technologies in the central plant room generate heat from renewable and sustainable sources.



SOLAR PHOTOVOLTAIC (PV) ROOF

PV fully covers the south facing roof slope to generate sufficient electricity to meet the annual demand of each household. Surplus electricity is sold back to the grid and the new Feed-In Tariff makes PV panels more economically attractive.

WHOLE HOUSE VENTILATION WITH HEAT RECOVERY

Warm stale air is extracted from kitchen and bathrooms and is passed through a heat recovery unit before being expelled. Fresh, pre-heated air is fed into all living areas and bedrooms.

WATER SAVING

Taps are aerated, with low flow rates and WC's are dual flush.

TRIPLE GLAZED WINDOWS

High performance triple glazed windows with draught resistant seals allow larger openings and better daylight.

EFFICIENT APPLIANCES

A++ appliances and low energy lighting. Hot water feed connection trial for the dishwasher and washing machine.

WATER RECYCLING

Rainwater collection system with communal tank below ground for irrigation and WC flushing. This reduces overall consumption of mains water.

