

9 LOW CARBON HOUSING

A significant step towards addressing the Climate Emergency is to reduce the carbon footprint of new homes through both construction and design. Suffolk County Council is therefore providing low carbon sustainable homes, which will be highly energy and heat efficient, use low carbon and renewable energy sources of heat and power in excess of any existing local and national building standards.

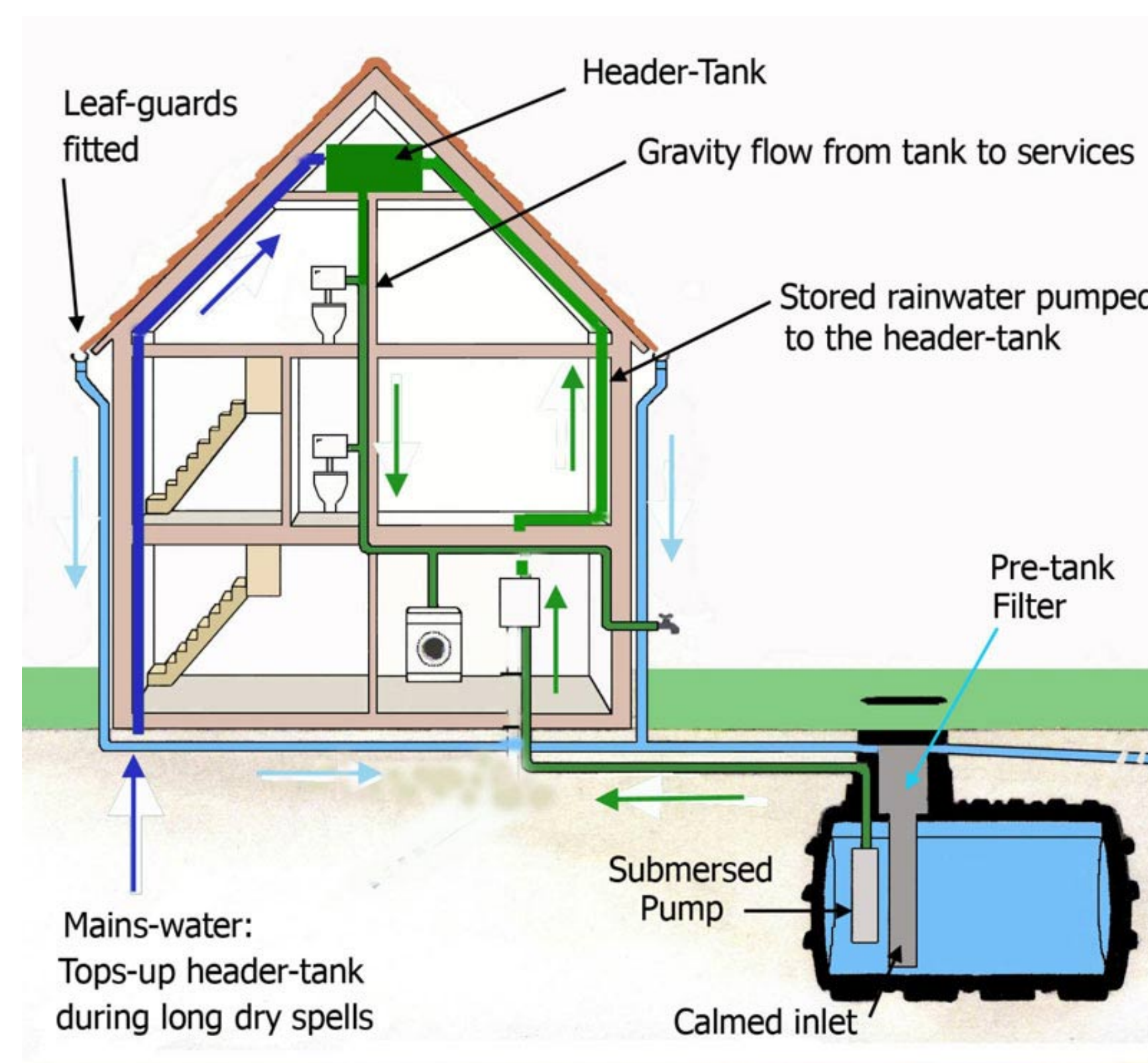


All homes are to have Solar Roof Panels (potentially roof tile effect), air source heat pumps and grey water recycling and rainwater harvesting systems and the principle of “fabric first”.

A '**fabric first**' approach to building design involves maximising the performance of the components and materials that make up the building fabric itself, before considering the use of mechanical or electrical building services systems.



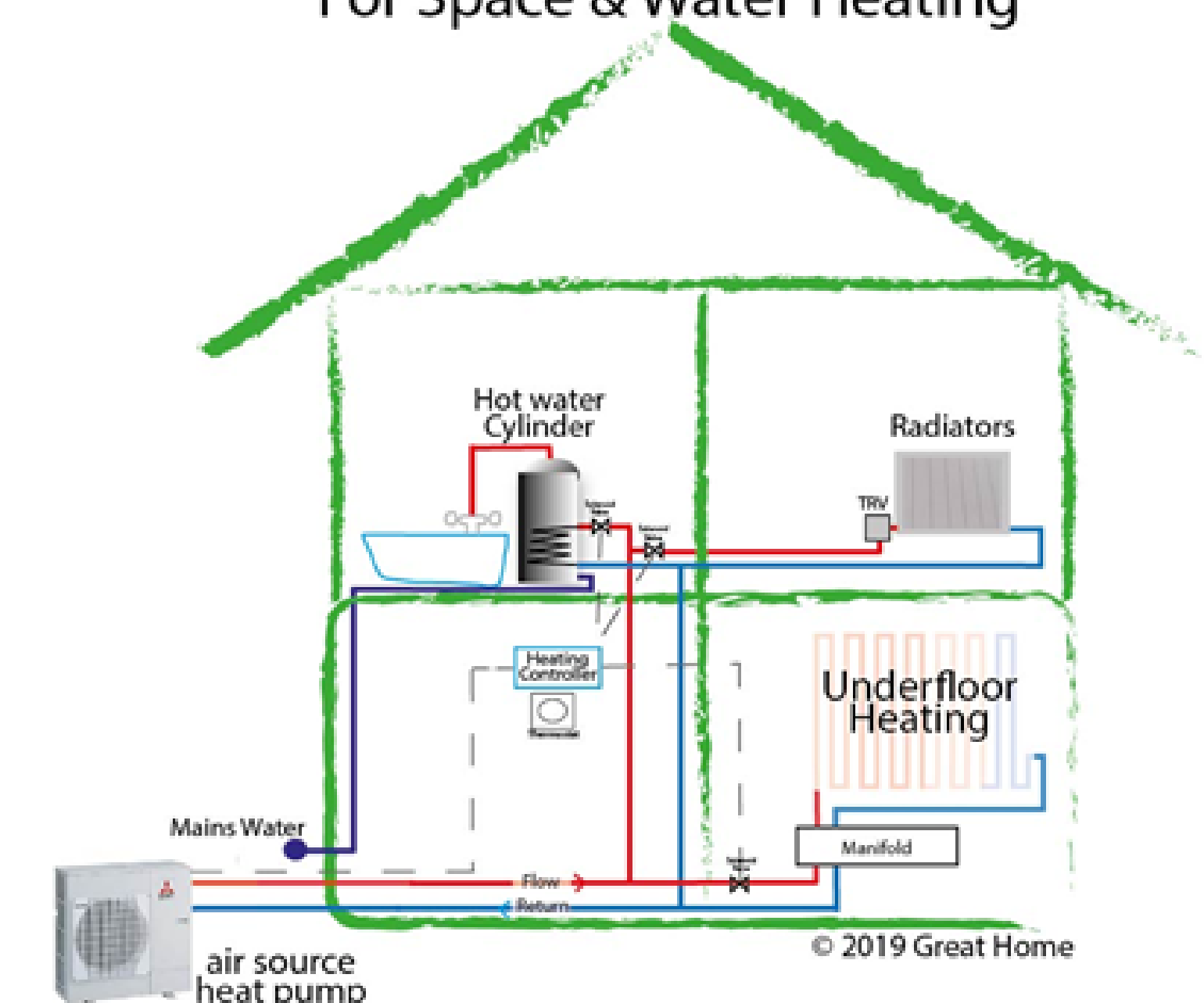
Grey Water Recycling & Rainwater Harvesting



Examples of Solar Roof Tiles



Air Source Heat Pump System For Space & Water Heating



Concept of the air source heat pump system for space heating and cooling.