



**SOL<sub>2</sub>O**  
GREEN BUILDING SOLUTIONS

# Biomass Boiler Link Keilder

## The Brief

SOL<sub>2</sub>O were contracted to link a Biomass heating system alongside hot water storage units to a number of properties so that they could better utilise renewable energies and lower their carbon footprint.

## The Solution

SOL<sub>2</sub>O connected the hot water supply from the biomass heating, supplied hot water storage tanks to 6 houses and a school in Keilder, Northumberland.

Biomass boilers are an ideal renewable technology for rural areas such as Keilder due to the most common biomass fuel supply being wood pellets, which can typically be sourced locally from sustainable forests or manufactured from waste material such as sawdust. This helps to cut down on both the costs and environmental impact of having fuel stock delivered over large distances.

Alongside this biomass can also deliver efficiencies of over 80% and produce very little pollution as wood pellets are essentially stored solar energy and as a result the only CO<sub>2</sub> released during combustion is from the natural photosynthesis of the plant material.

## The Result

The system aims to act as a pre-heat buffer for the homes and school which will reduce their energy bills and carbon footprint by lowering the amount of energy needed by their current boiler systems to bring water up to the desired temperatures.