



# Buckswood Ecological Project



## Green thumbs

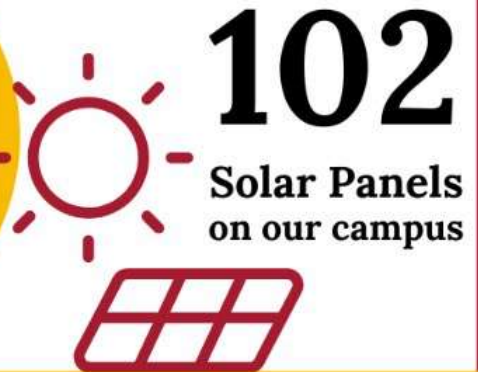
We have planted 40 Oak trees on campus and an additional 200 across the estate.

We have a natural mulch fertiliser system for the flower bed and take care of our gardens as well as admiring them



## Our Solar Energy

At Buckswood our 102 solar panels generate enough energy to power 5552 homes for a day! 20% of our hot water is Solar Generated, and this kind of power has no effect on the environment as the panels have no moving parts and do not require additional fuel, other than sunlight, to produce power



**102**  
Solar Panels  
on our campus



## Water & Air Filtration

Our new wastewater treatment plant compliments our 'horizontal flow' reed beds (that processes the schools organic waste effluent aka poo). The treatment plant uses a Submerged Air Filtration (SAF) system containing individual cells on which biomass forms. Across the years, this plant will save the school approximately £500,000

## Bio-Mass

Our biomass system is 95% efficient and has a range of up to 7e00 KW split across our three plant-rooms supplying heat to 18 of our school buildings. The system uses renewable, locally sourced wood pellets, reducing our dependence on imported and non-renewable fossil fuels (for heating) by 100%



We have  
used  
Bio -Mass  
since 2014

**Our goal is to continue to significantly reduce Buckswood's carbon footprint**