

The immersion heater will only only heat the top 1/3rd of a tank without this device. With this device the whole tank is heated with

If T1>60 Deg C and T2 <50 Deg C then turn pump on.

Heat Storage For Central Heating



Easy Retrofit

Energy	
Mass of water	1,000 kg ·
Initial temperature	20 <u>°C -</u>
Final temperature	65 <u>°C •</u>
Total energy	52.38 kWh -





4 x 1,000 litres of water heat store gives the equivalent of 8 hours output from a 24 KW combination boiler.

NO MORE FOSSIL FUEL BOILERS

New Build



Retaining the existing radiators in a home and adding heat stores can either replace part of the heating demand or all of the heating demand to allow removal of the fossil fuel boiler.







High, Medium & Low Pressure Systems Central Heating Storage Tank Integration Low Pressure Systems





CENTRAL HEATING CONSUMES TEN TIMES MORE ENERGY THAN THAT USED FOR WASHING AND HEATING IN DECEMBER JANUARY & FEBRUARY



Grid energy stored at periods of off-peak demand at night and used at peak demand periods

Solar energy stored at periods of solar supply and used at peak demand periods



PUBLIC WIND POWER.



PRIVATE SOLAR PV

In order meet demand for energy for the winter period there will need to be an increase in wind power and solar power.

This effectively provides 'Free' energy in the summer









DEMAND OVER 24 HOURS VARIES HIGH DEMAND IS UP TO X5 LOW DEMAND

Tanks within the home can supply hot water for washing and bathing for 24 hours usage.

Tanks adjacent to the house can supply central heating needs for 24 hours and 3 days for washing and bathing.



Buried outside the floor plan of a house, a 1,000 litres tank stores the same energy as produced by a 24 KW fossil fuel boiler running for 2 hours. 4 x 1,000 litres tanks and the fossil fuel boiler is no longer needed for space heating



Buried outside the floor plan of a house, a 1,000 litres tank can easily store 3 days usage of domestic hot water in a home.

WRAS

ShowerPowerBoosters can integrate the heat store with any domestic water system in a home



