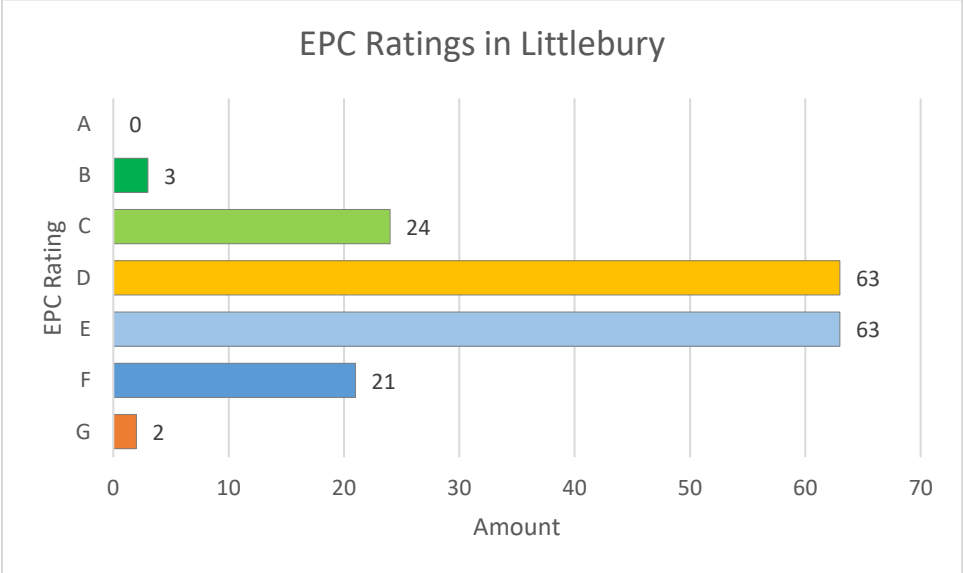


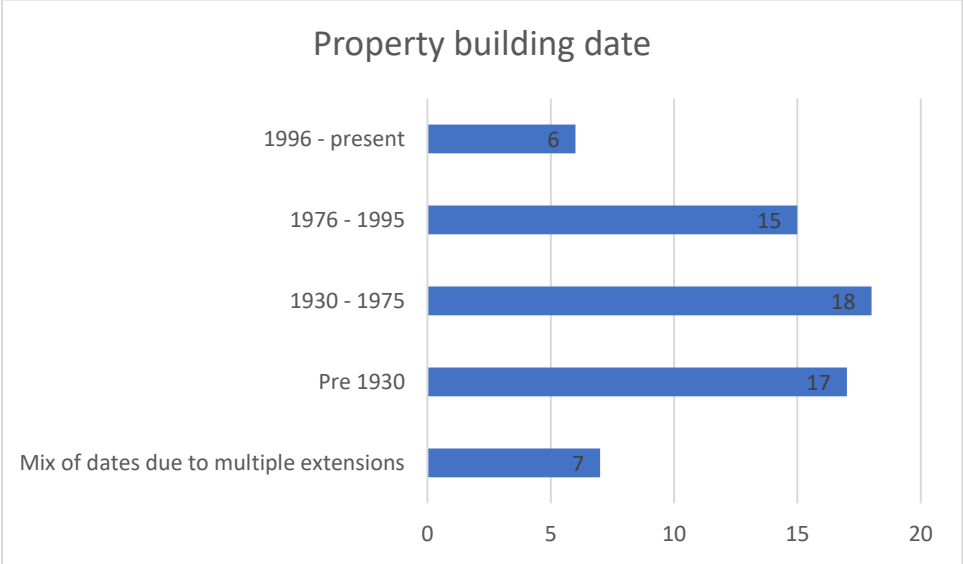
Response from 63 surveys out of 250 handed out.

Current Energy usage

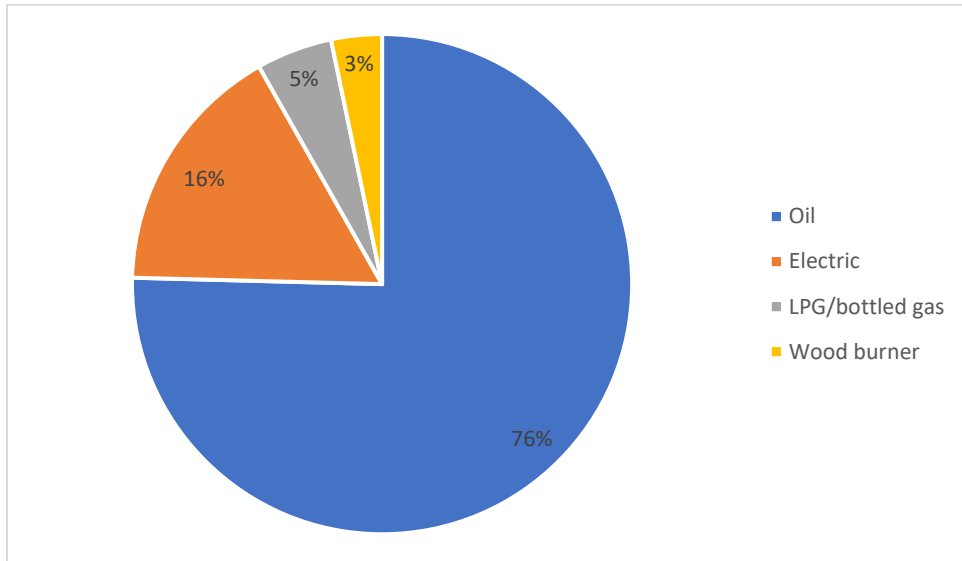
EPC Ratings of properties in Littlebury



Timeframe of when properties were built in Littlebury recorded by survey



Main heating fuel in Littlebury recorded by survey



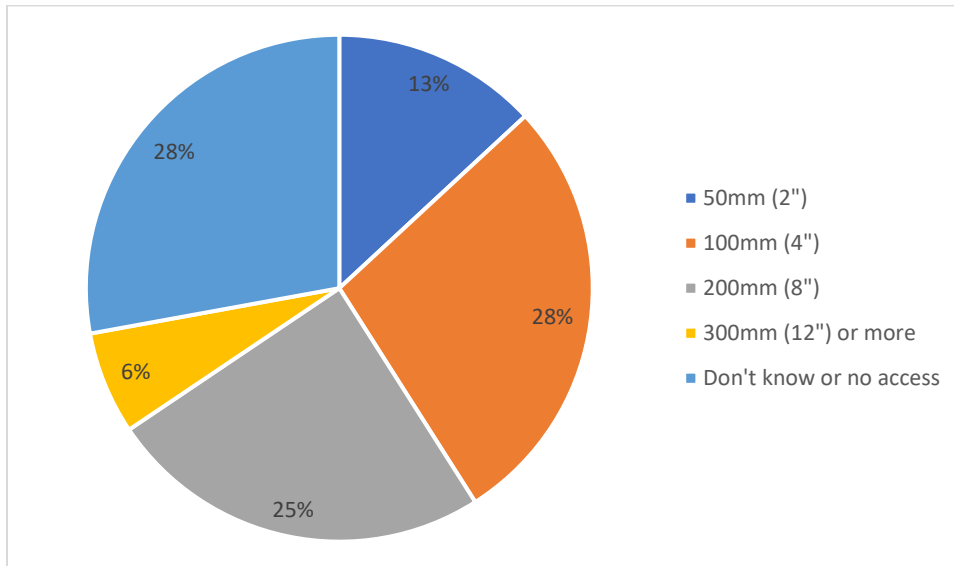
Average yearly spend on heating and electricity in Littlebury recorded by survey

Bedrooms	Average yearly spend - heating and hot water	Average yearly spend electricity
2	£ 832.73	£ 1,201.24
3	£ 1,017.71	£ 1,509.00
4	£ 1,772.73	£ 1,529.17
5	£ 1,660.00	£ 1,625.00

Current level and potential measures

Loft insulation

Loft insulation levels in Littlebury recorded by survey:



Information

Insulating a loft is important as a quarter of heat is lost through the roof of an uninsulated home.

Thickness Mineral Wool Insulation	Energy Savings compared to an uninsulated loft
50mm	18%
100	21%
200	22.8%
300	23.5%

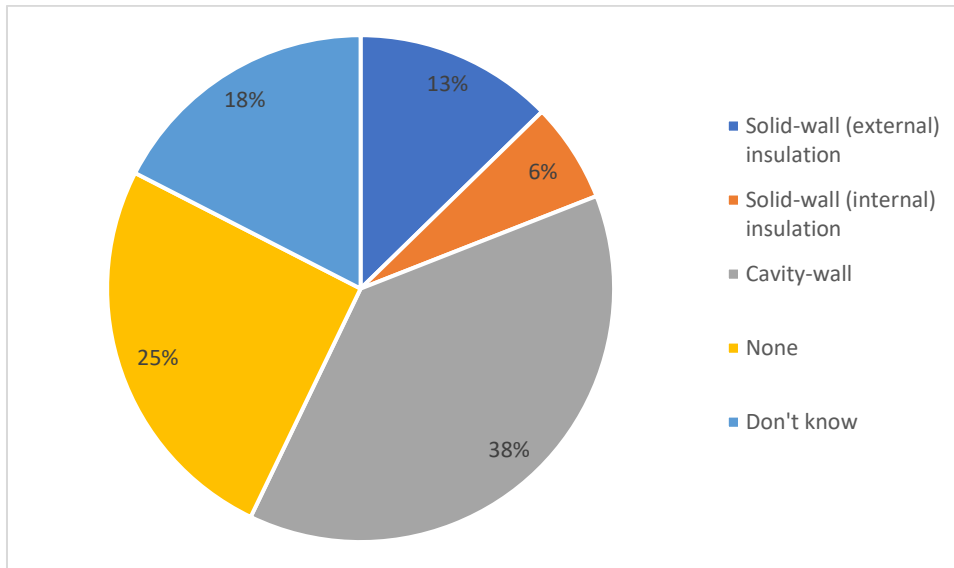
Potential measure

Installing Loft insulation in uninsulated homes or upgrading Loft insulation.

	Average cost per Household	Annual savings [£]	Payback time in years
Loft Insulation	£433	£540	0.8
Loft Insulation Top up	£368	£125	3

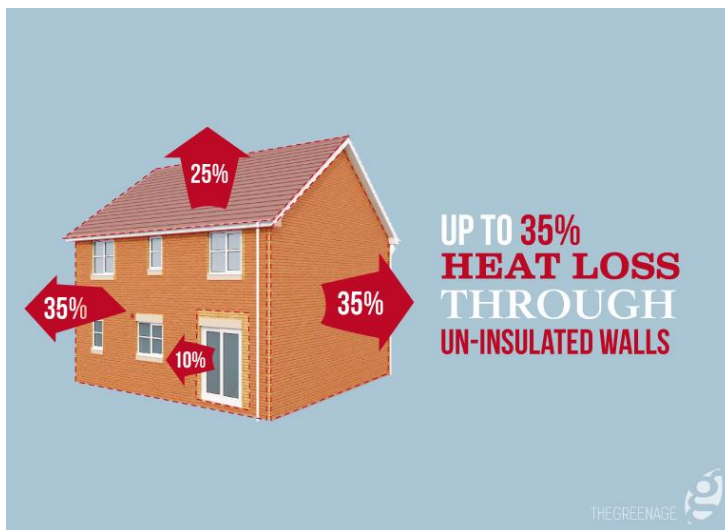
Wall insulation

Wall insulation in Littlebury recorded by survey



Information

In an uninsulated home 35% of all heat loss is through the walls.



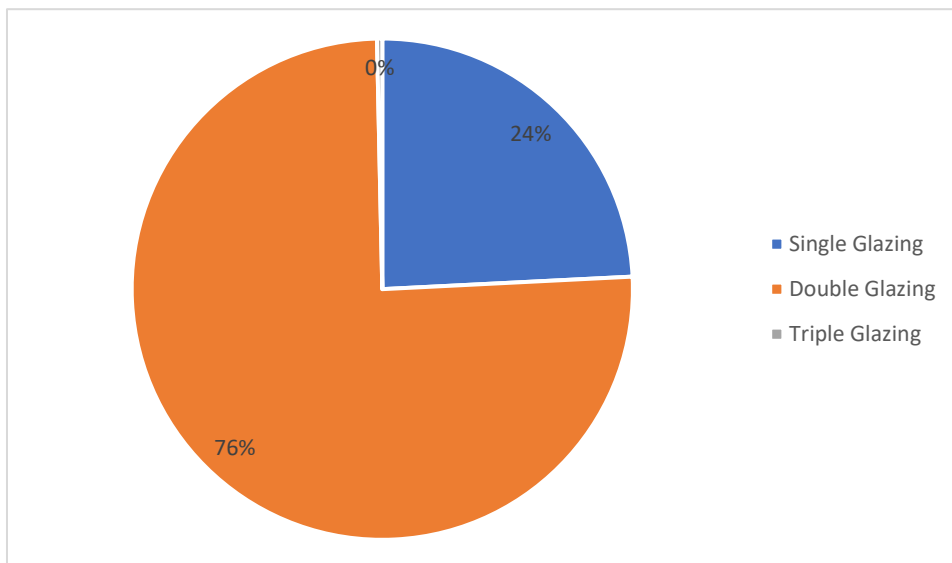
Potential measure

Upgrading homes with external wall insulation and Cavity wall insulation.

	Average cost per Household	Annual savings [£]	Payback time in years
External wall insulation	£12,063	£939	12.85
Cavity wall insulation	£700	£346	2

Glazing

Window glazing in Littlebury recorded by survey



Information

10% of all heat is lost through the windows.

Heat is lost through single glazing around twice as fast as through standard double glazing.

Installing double glazing will improve home comfort through less condensation, not as many downdrafts from the windows etc.

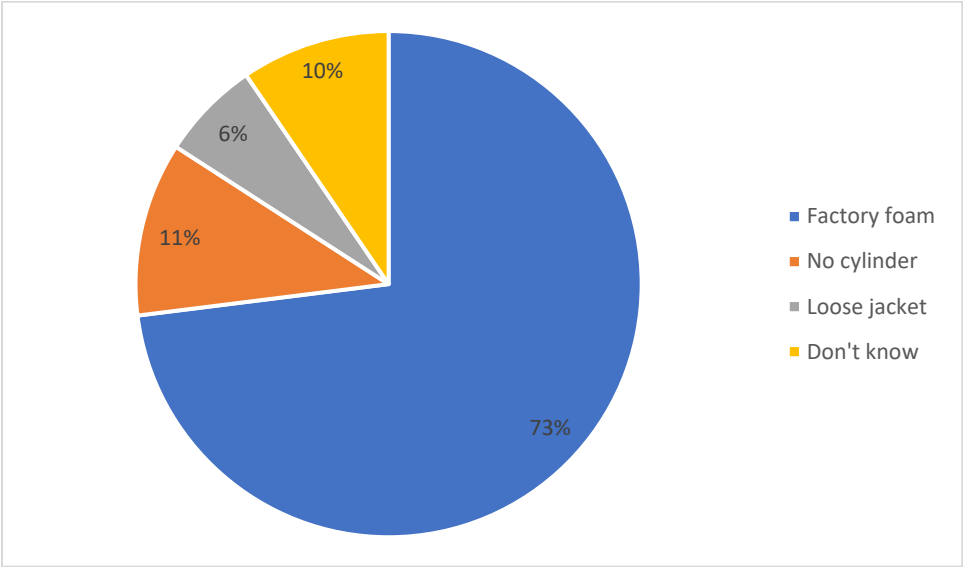
People who go from single to double glazing seem to notice quite a large difference, more so than other measures such as cavity wall insulation.

Potential measure

- Upgrade single glazing to secondary glazing in listed buildings
- Upgrade single glazing to double glazing
- Upgrade old double glazing if necessary

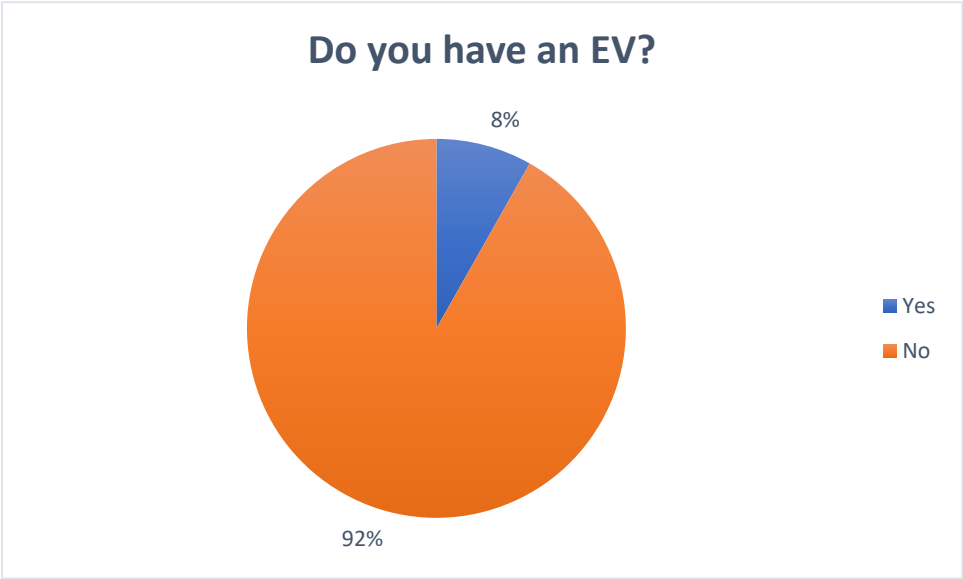
	Average cost per Household	Annual savings [£]	Payback time in years
Installation of double glazing	£4,863	£105	46

Hot water cylinder insulation in Littlebury recorded by survey

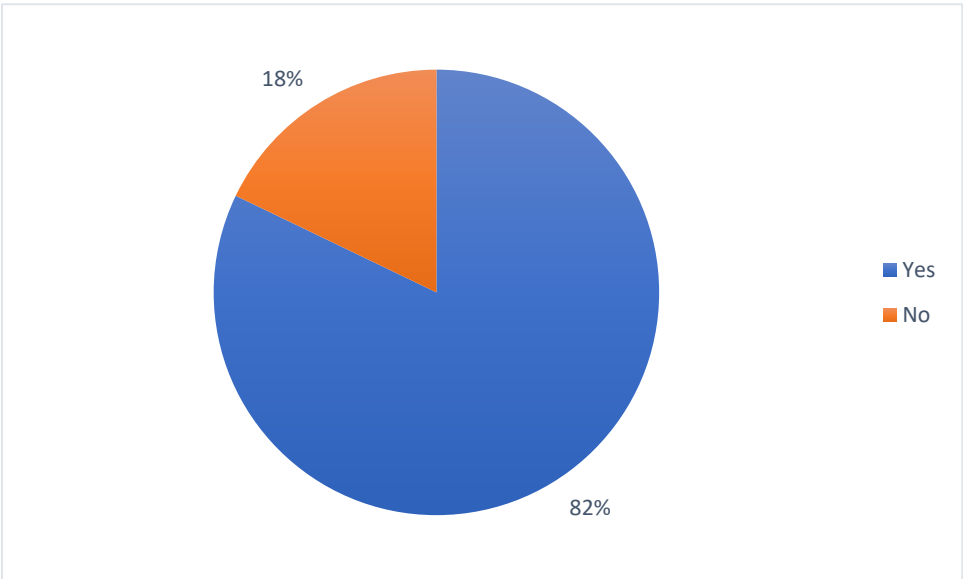


Electric Vehicle

Electric Vehicles in Littlebury recorded by survey



People without an EV that have a Driveway recorded by survey



Installing Solar PV

As a measure to decarbonize heating and electrical usage in Littlebury, solar PV was found as a viable measure for at least 105 properties.

The 105 analysed properties have roofs that are all either south facing or near enough south facing so that the energy of the sun can be used to an efficiency of 100% to 95% (in regard to the orientation). With an assumed roof pitch of 30° this would result in an average of 990 kWh/kWp energy output per year.

With an average PV system size of 3.25 kWp this results in an average energy production of 3,217.5kWh per household.

The average household uses around one third of its generated electricity.

This equates to a yearly saving of £434.

	Average cost per Household	Annual savings [£]	Payback time in years
Installation solar PV	£3,766	£434	8.7