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# Heat Pump Challenge

Carbon Coop - Survey results Jan 2022

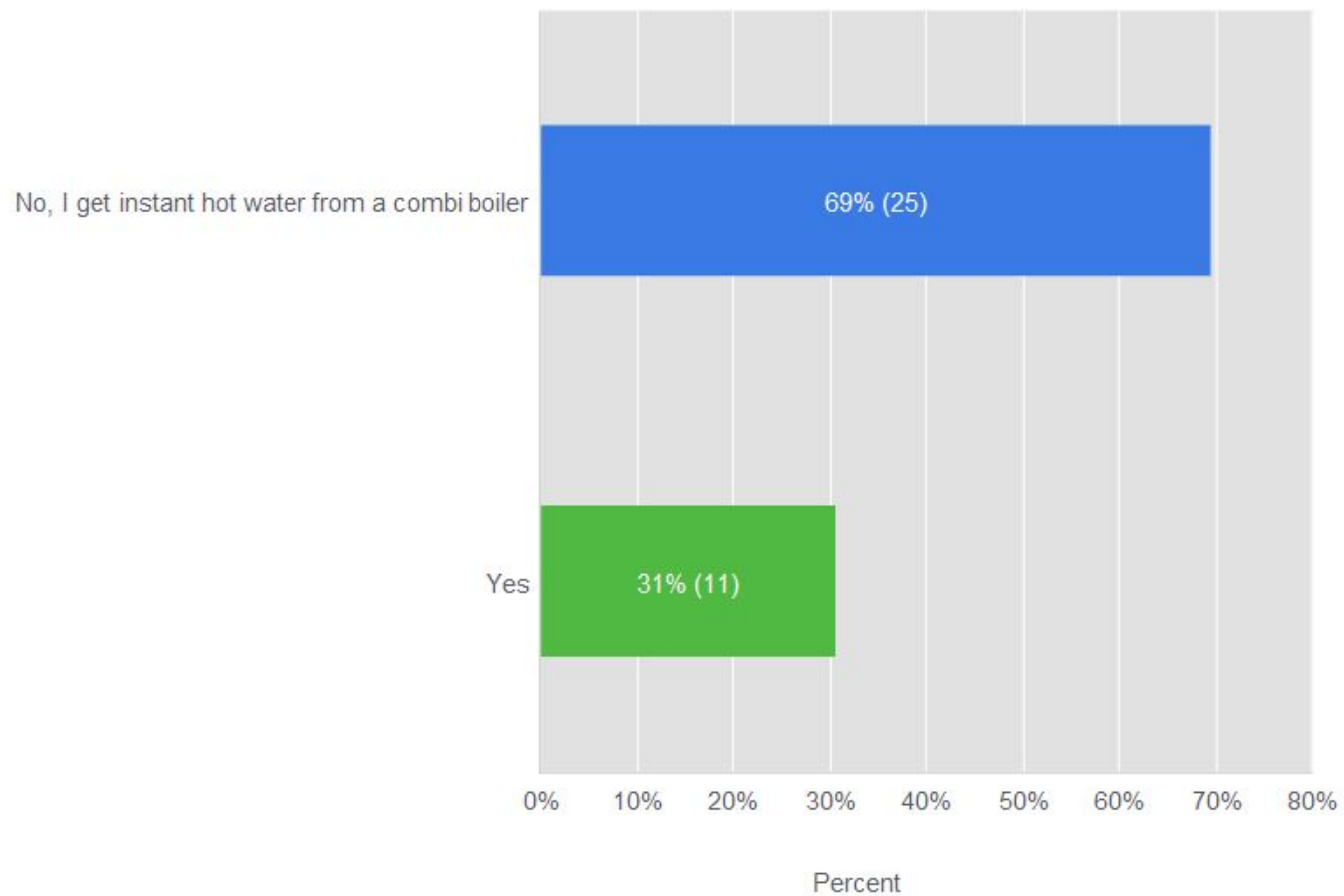
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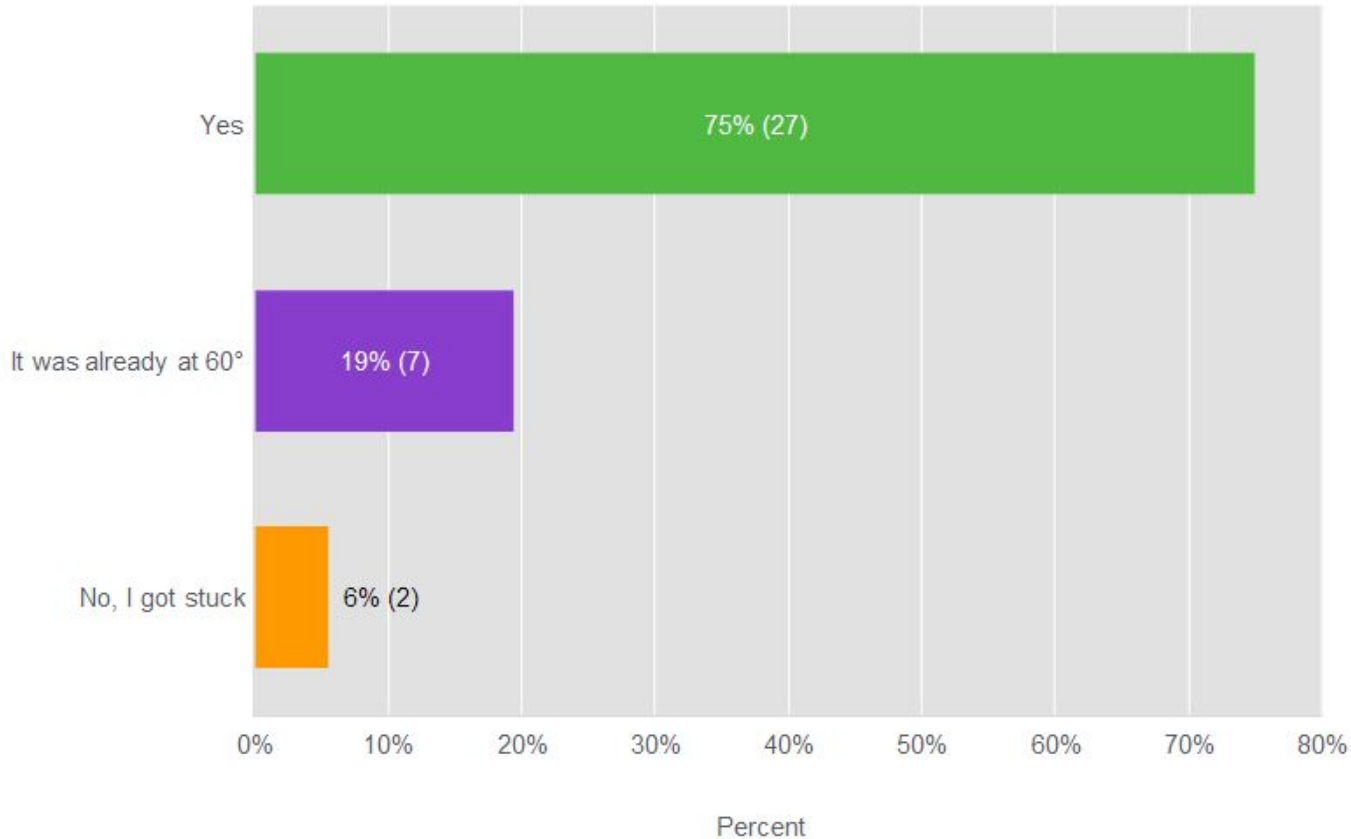
# Who are the participants

- 52 households signed up
  - 43 of whom are Carbon Coop members, rest diaspora
  - Variety of different types/ages/makes/ models of boiler and control system
  - 36 fully completed the survey discussed here
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## Does your system have a separate hot water tank

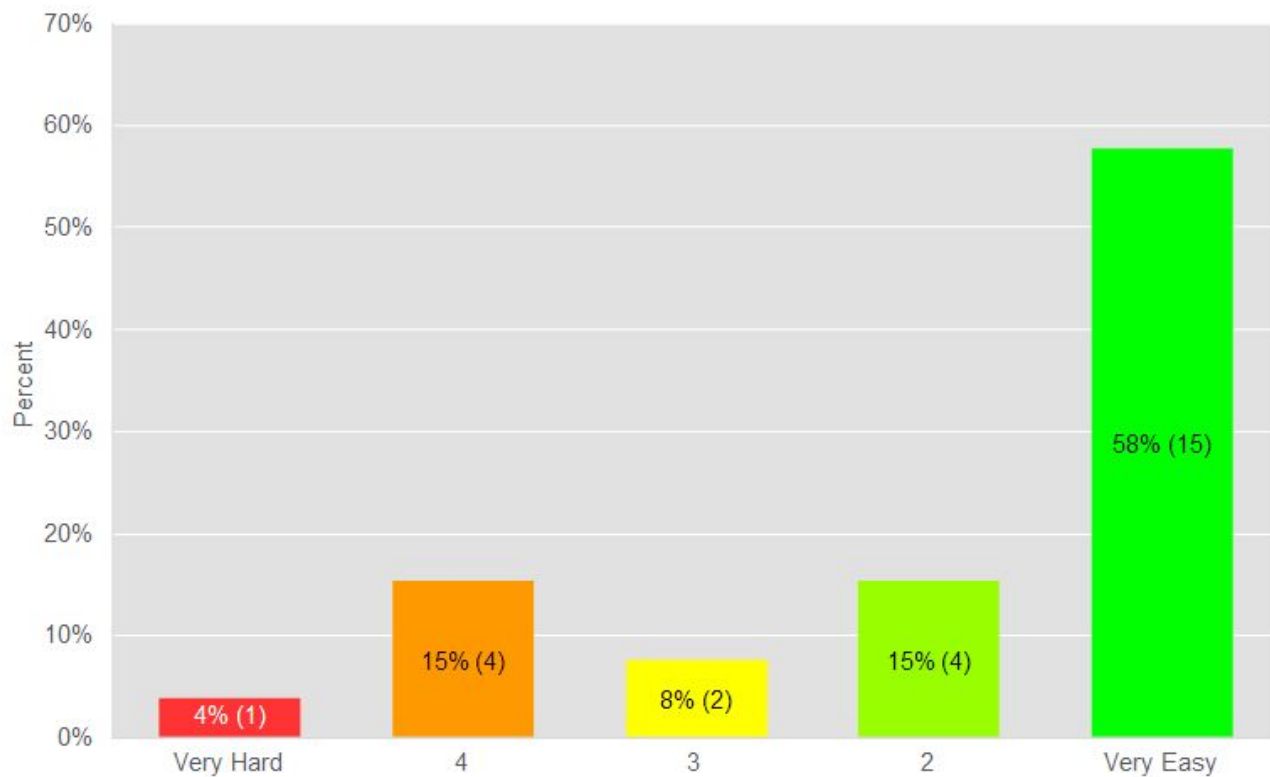


## Were you able to turn the flow temperature on your boiler down to 60°C

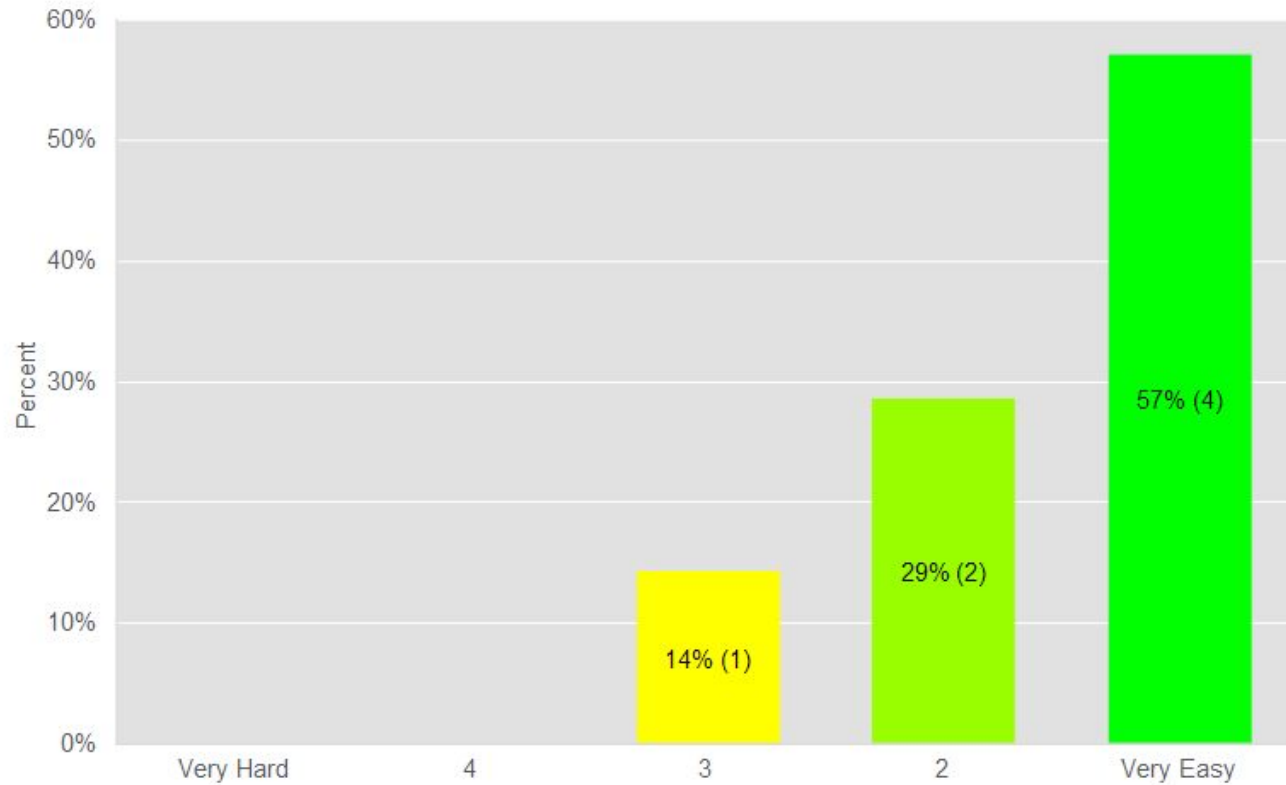


“Very old boiler with no temp setting. We did turn it down but from crude tests it seemed to be well below 60 degrees so we were worried about legionnaires.”

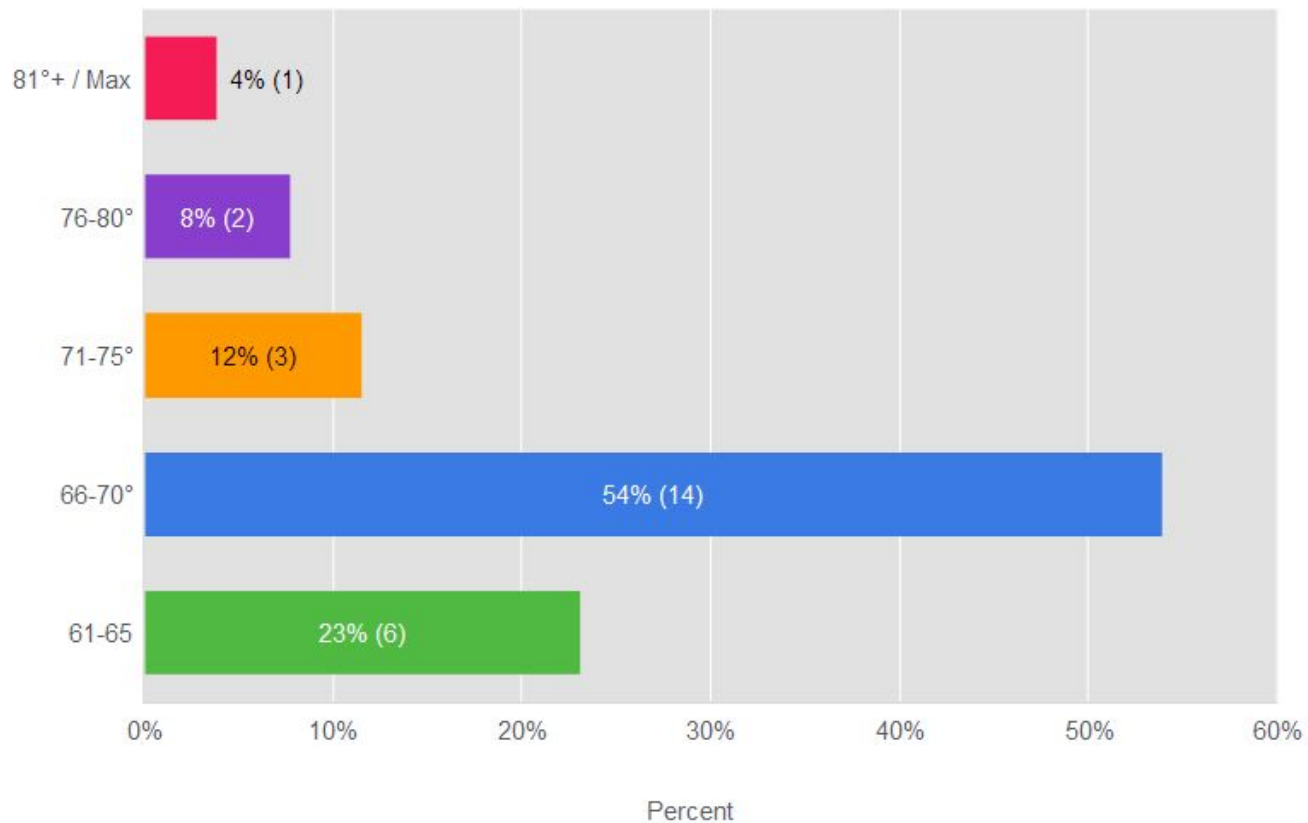
## How easy was it to adjust the flow temperature of your boiler



## How easy did you find it to view the flow temperature of your boiler



## Prior to your intervention what was heating flow temperature set to



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## Qualitative responses

“Our hot water storage tank is somewhat unique and is treated as a radiator by the boiler control system so hot water temperature is also reduced. Baths were not easy before and now are not possible. Showers are fine as long as they are short ones. House temperature has felt the same.”

“I’ve struggling to balance the upstairs and downstairs heating. I think the slight reduction in flow temperature has actually helped as the living room (with room stat) now takes longer to warm, so the upstairs gets more chance to heat up.”

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## Next steps

- Tomorrow we will ask participants to reduce to 50°C
  - Per room temperature/humidity monitoring in 2 participant homes to date, expand this to 5 next week.
  - Second survey mid-February
  - March -assess the data re: impact on energy using
  - At present we've no boiler cycling feeds - awaiting delayed OpenTherm units from Netherlands.
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