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Determining of the role of ventilation in residential energy demand reduction using a heat-balance approach

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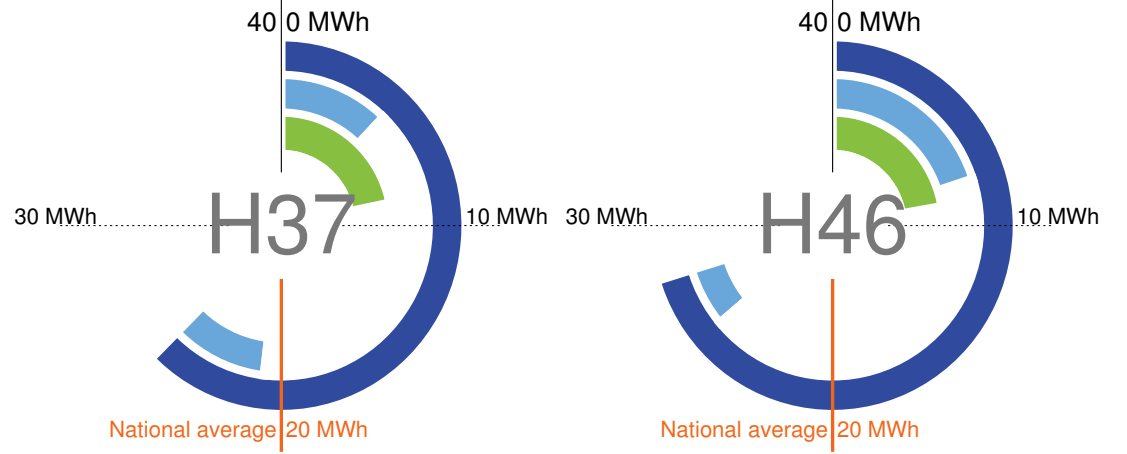
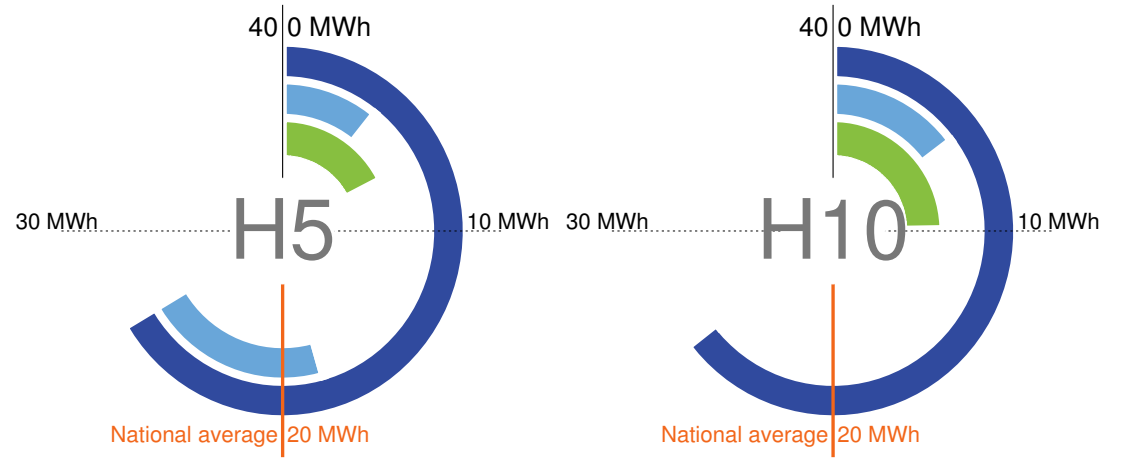
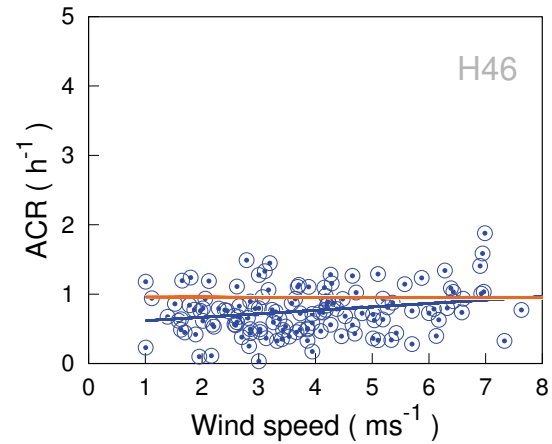
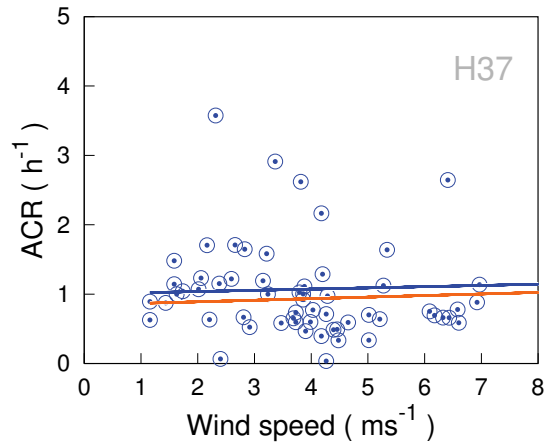
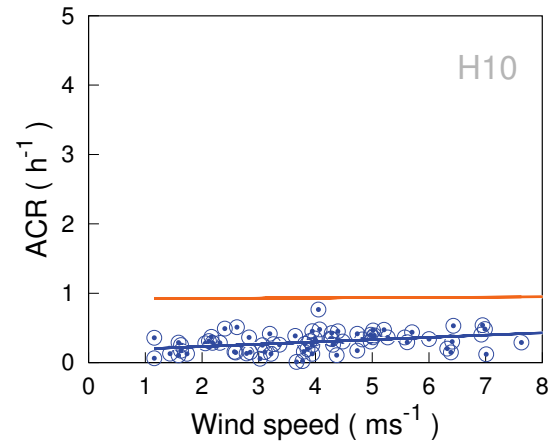
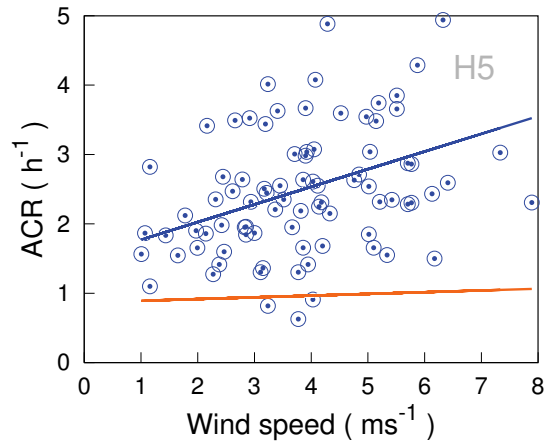
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Left: results from the Hybrid Heat Balance calculation of air change rates in four households (blue) compared to the predictions from BREDEM (orange). Right: the total annual energy consumption is shown by the dark blue bar, the light blue bar top right indicates the proportion of the total that is electrical consumption. The other light blue bar (bottom-left) shows the impact of minimizing ventilation on energy consumption and the green bar is the resultant consumption after a number of energy demand reduction measures have been applied.

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