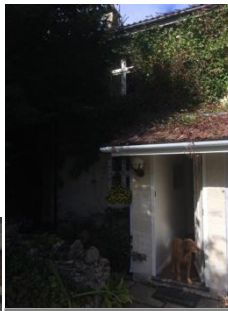


# Late 18<sup>th</sup> century quarry cottage, Winsley



## Insulation

- 18<sup>th</sup> century boards & 18" stone walls!!
- timber-framed argon-fill double glazing

## Heating

- off gas-mains BUT live in a wood, so ...
- agreement: fallen wood → logs
- woodsmoke, so not viable in urban setting
- heat where we are ... NOT the whole house

## Design

## Retrofit

## Behaviour



## Radiant backup

- radiant heat to objects in room
- on only when you're there!
- 100% renewable tariff



## Hot water

- Economy 7 + large tank + heavy insulation
- Pricy electric so ...
- use it thoughtfully

## Cooling

- design → passive ventilation
- open windows → airflow
- walls → thermal mass

