

# Renewable Energy and Microgeneration

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ENGLISH HERITAGE

# Web Based Publications

Energy Efficiency

Wind

Solar Thermal

Solar Electric

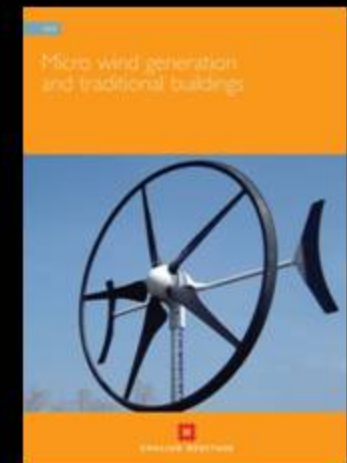
Air and Ground Source Heat Pumps

CHP and Fuel Cells

Rainwater and grey water recovery

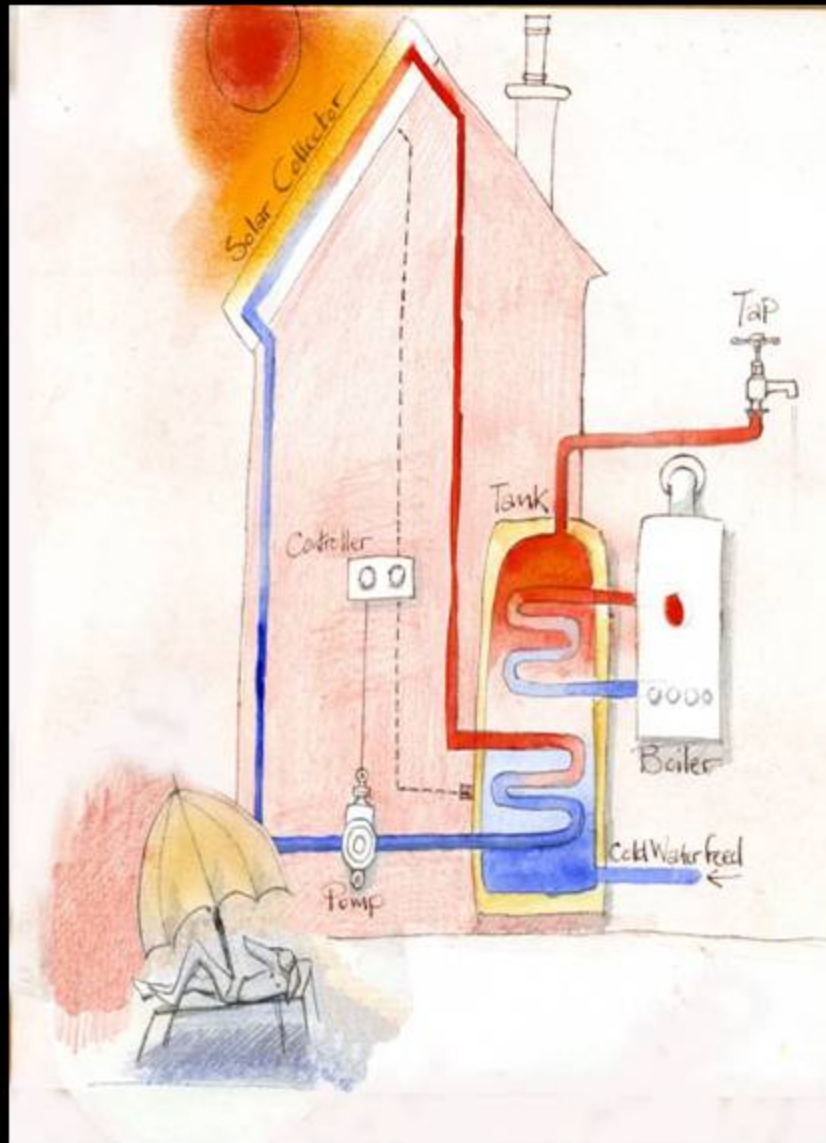
Hydro

[www.helm.org.uk](http://www.helm.org.uk)



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# Small Solar Thermal and Traditional Buildings



## Planning

Orientation

Shading

Wildlife

## Installation options

Over the Roof Covering

Roof Integrated

On Flat roofs

Free standing away from building



# Small Solar Thermal and Traditional Buildings



Free standing away from the building



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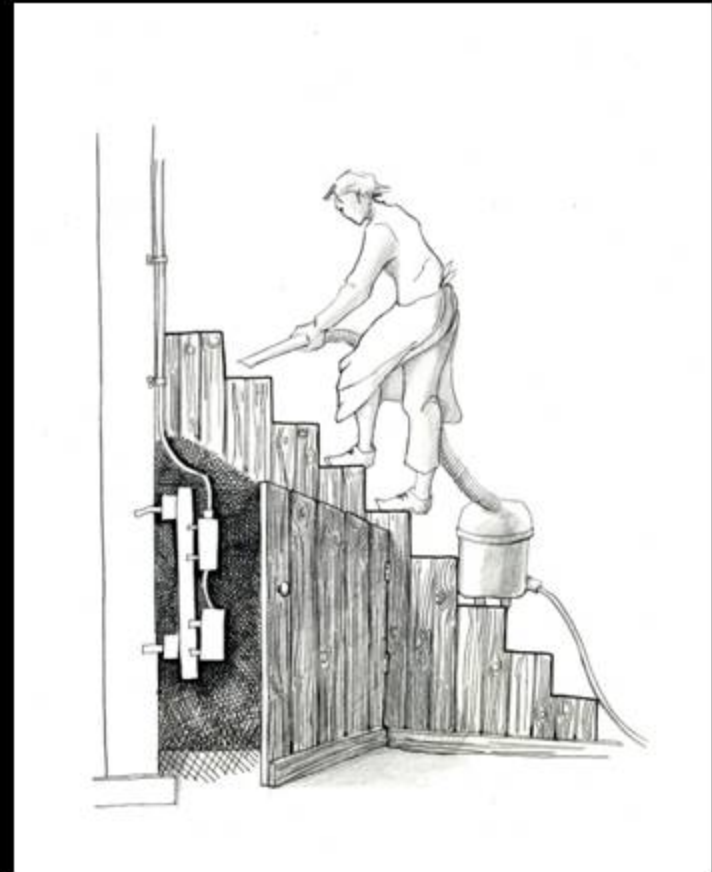
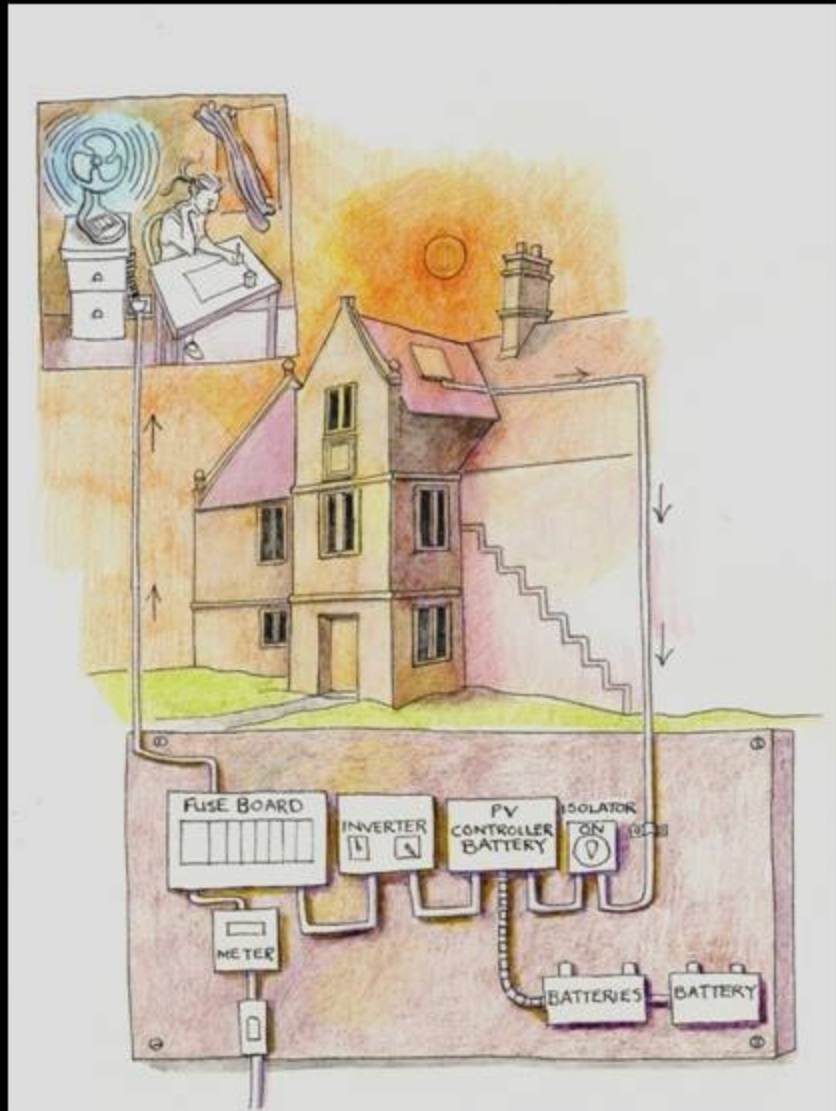
# Small Solar Thermal and Traditional Buildings



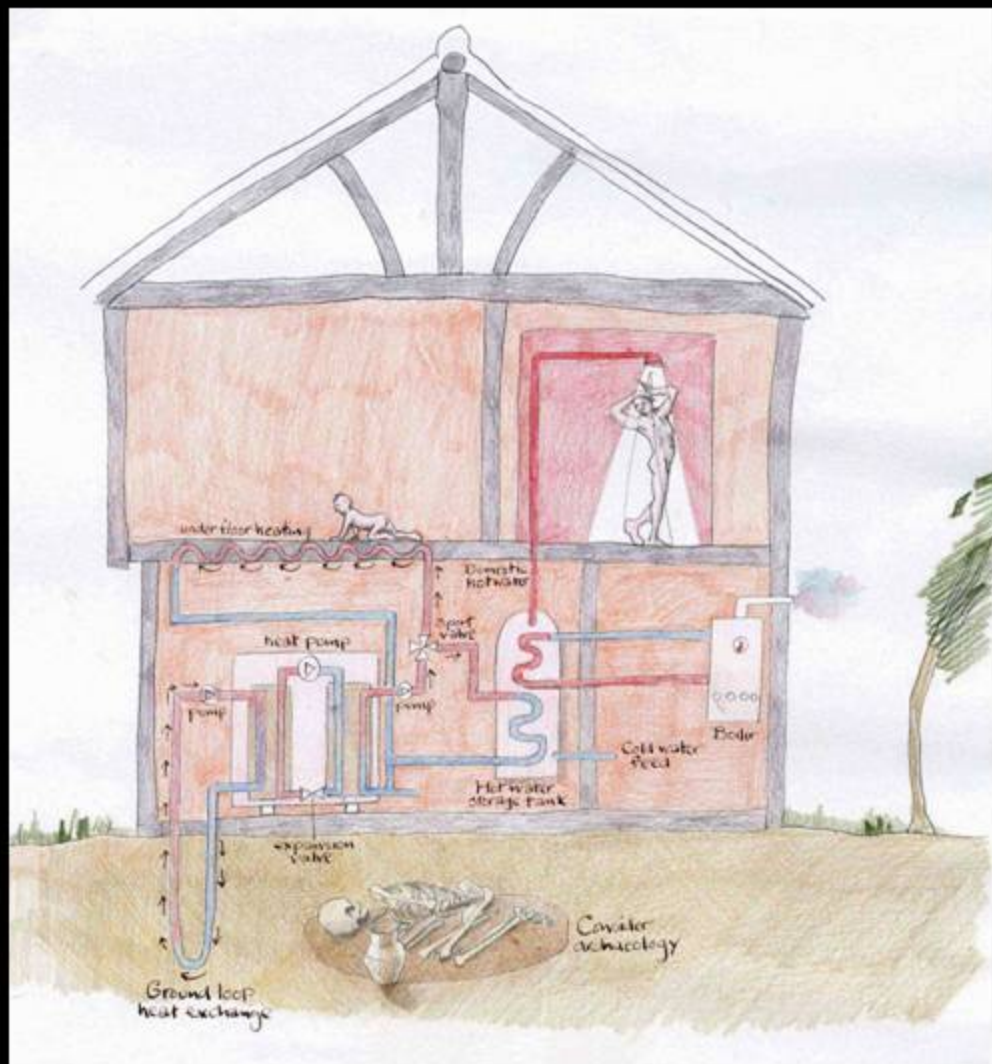
Over the roof covering



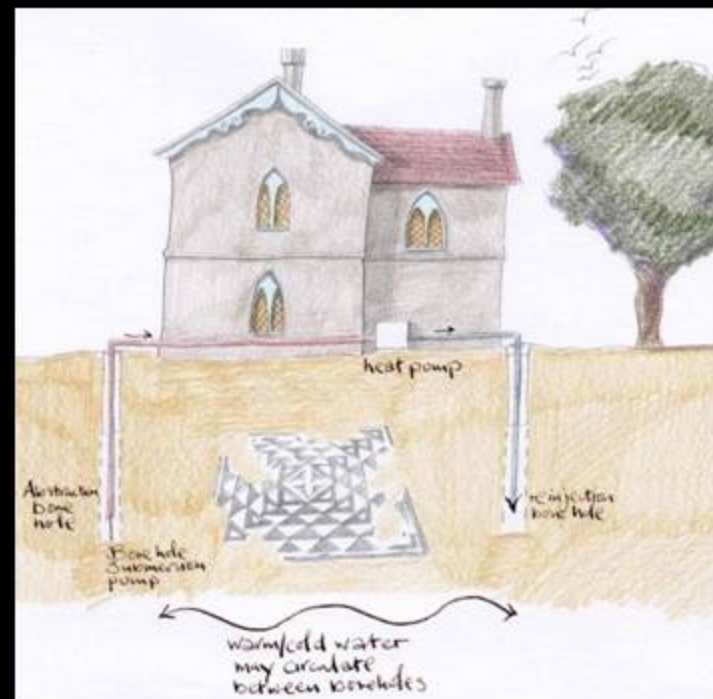
# Small Solar Electric (PV) and Traditional Buildings



# Ground and Air Source Heat Pumps and Traditional Buildings



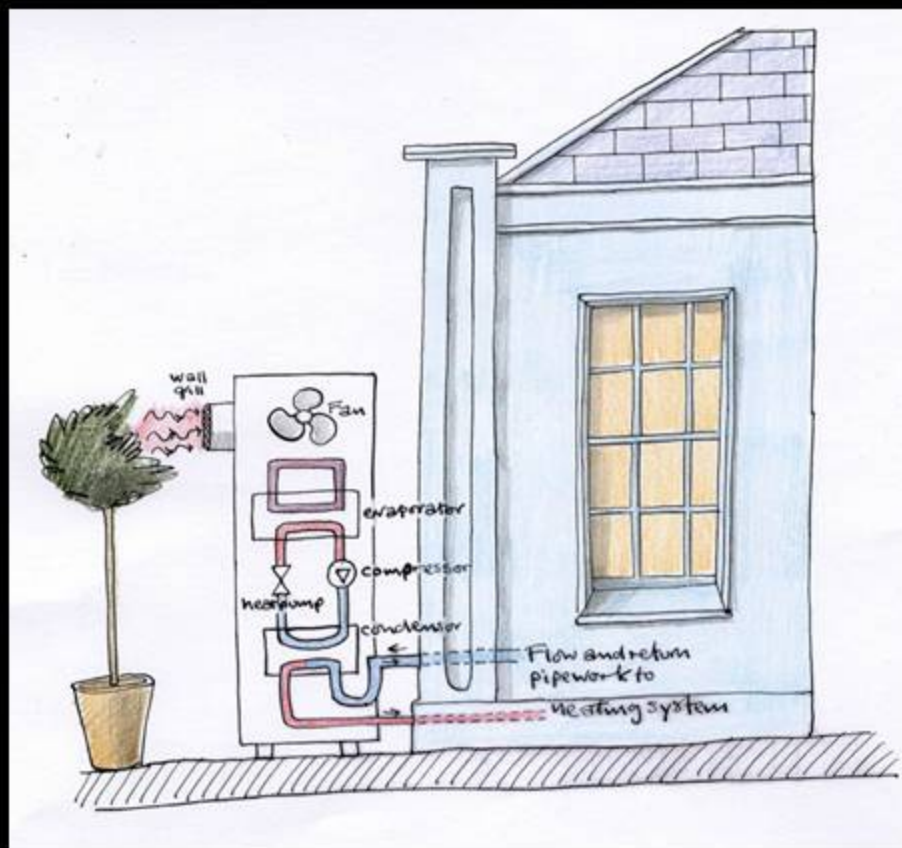
Closed Loop System



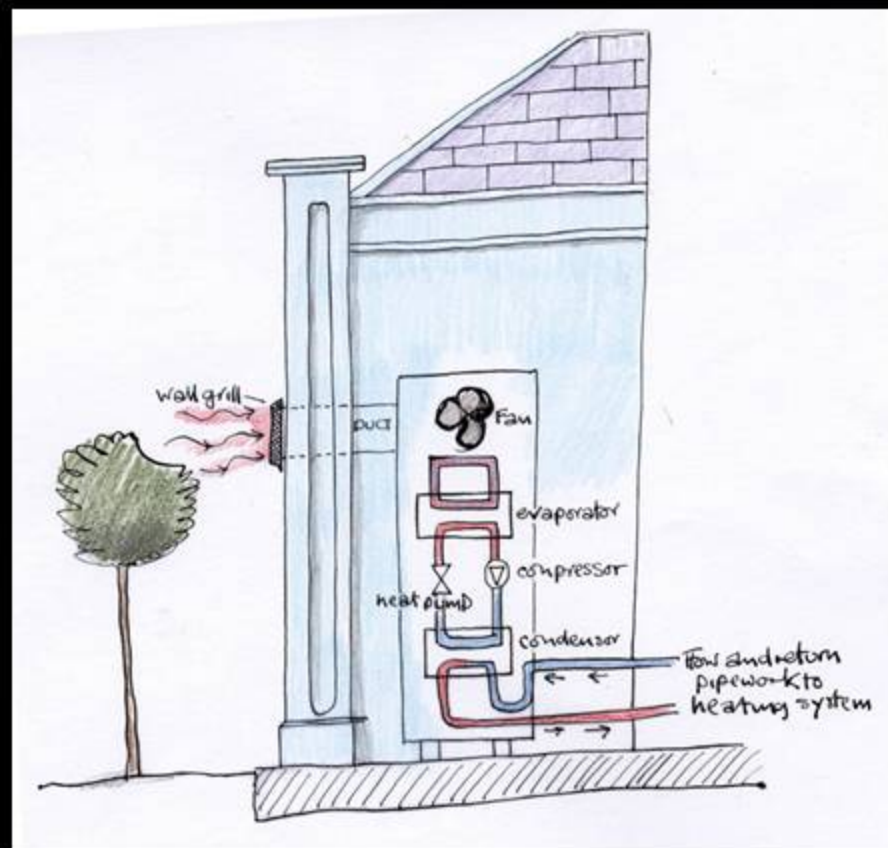
Open Loop System



# Ground and Air Source Heat Pumps and Traditional Buildings



External Air Source Heat Pump



Internal Air Source Heat Pump



# Micro Wind Generation and Traditional Buildings



Planning guidance

Wind speed and direction

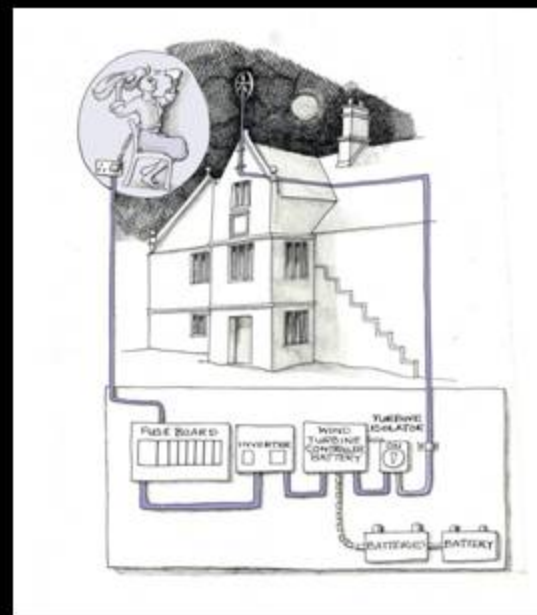
Wildlife

Installation options

Fixed to a building

Remote from building

Electrical system selection



# Thankyou. Questions ?

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