

Green Deal Hex-Game

Insulation/  
Energy Reduction

Improving the energy efficiency of buildings  
It is the government policy for



Most homes built after 1920 usually have what type of walls?



What is the Green Deal?

What is the Golden Rule?

All savings must cover the expected outlay



Does the Green Deal cover better insulated windows (e.g. double glazing)?

37%

Percentage of the UK's CO2 emissions to be reduced by 2020 on 1990 levels



Three main types of insulation used in cavity walls

Cavity

A disadvantage of exterior wall insulation.



When insulating a flat roof, how much of a gap should one have?

50 mm of ventilation space to avoid condensation



Solid

When insulating a hot water cylinder it is good practice to also do what?

Yes

Homes built before 1920 usually have what type of walls?



One disadvantage of internal solid wall insulation

Floor space is reduced



Before installing a wind turbine what issues need to be considered?

90%

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Condensation



What is the purpose of a cavity in a cavity wall?

A measure of thermal resistance (U-value)

What is an R-value (insulation)?



Insulate the pipe-work at the same time

What must be considered prior to the installation of Solar Water Heating?

Roof structure/condition, scaffolding requirements,



What type of insulation material is light-weight yellow, pink, or white?

Where would one use suspended floors, draught sealing?



Access issues/rights, neighbours, wind availability

What are the two ways to draught-proof an unused chimney?

Prevent dampness moving from the outside wall to the inner



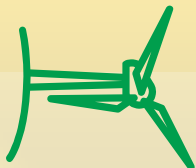
What type of insulation material is dense grey or off white?

Rock wool



Cellulose

Type of insulation material made up of loose fibres that are small greyish flat pieces.



What is the Feed-In-Tariff?

Fibreglass

A scheme which pays you for generating electricity using renewable sources



Energy savings

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**Insulation/**  
**Energy Reduction**



Before installing micro-generation technologies, it is important to

*May require planning permission*

Reduce the building's energy consumption



*What potential problem can occur with internal cladding?*

*use a chimney balloon*

*Cap the chimney pot;*



How is heat distributed using a solar thermal panel?

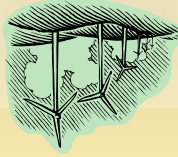
Better insulation properties



Percentage of savings in switching from incandescent bulbs to LEDs?

Once involved in the Green Deal can someone switch their electricity company?

*As long as the new supplier is participating*



What is the easiest way to cut lighting bills?

A solution, usually glycol, moves from within the panels to a tank of water



*Auto shut down*

*What is the key benefit of intelligent lighting controls?*

Foam Insulation, Mineral Wool, Granules/Beads



Insulated doors must have a U-value means?

Insulated doors must have a U-value of 1.8W/m2K. A lower U-value means?

What do most wind turbines do during high wind speeds?



*Turn the lighting off, even if it is for a short time*