

Solar Roof Tiles, an Introduction

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What is Solar Energy?

- Solar Energy is energy which can be consumed from the Sun's heat and light
- There are multiple ways to harness this energy, solar panels, solar roof tiles, etc.
- This type of renewable energy is especially suited to countries that have the longest hours of daylight
- Solar energy in recent years has been optimized through the use of solar panels. Solar panels are large panels which absorb the heat and light of the sun and convert that into electricity



What are Solar Roof Tiles and How do they Work?

- Solar roof tiles are individual solar panels that look like roof tiles
- They work in the same way as solar panels except they look aesthetically more pleasing
- On average a solar roof will cost double the price of solar panels
- Savings can amount up to £300 a year and can take part in the 'Feed In' tariff scheme
- The Feed in tariff scheme is when your solar tiles provide more electricity than your property is using, and so therefore the surplus electrical current you have created is sold to the grid



Advantages of Solar Roof Tiles

- They can be integrated into the house design
- They save annual electricity costs
- They can earn money depending on the amount of energy consumption the house has
- Can withstand high winds and durable
- Some individual tiles can produce up to 13-17 watts of energy

Disadvantages of Solar Roof Tiles

- There is no energy storage which could be used during the evening of low light and heat
- The roof needs to be a specific angle to optimize the energy consumption
- The cost of roof tiles is far higher than regular solar panels
- The energy consumption is lower than using regular solar panels
- Its only useful where there is a suitable amount of direct sunlight and for long hours

Any Questions?

