
Solar Passive Systems

What is passive solar design?

Passive solar design takes advantage of a building's site, climate, and materials to minimize energy use. A well-designed passive solar home first reduces heating and cooling loads through energy-efficiency strategies and then meets those reduced loads in whole or part with solar energy.

What is passive solar energy?

Passive solar energy refers to techniques that allow solar energy to be harnessed directly without having to process it. For example, depending on the design of the building construction, the amount of natural energy that is harnessed can be significantly improved. Passive solar uses components to control the heat generated by the sun.

What is a passive solar home?

In simple terms, a passive solar home collects heat as the sun shines through south-facing windows and retains it in materials that store heat, known as thermal mass. The share of the home's heating load that the passive solar design can meet is called the passive solar fraction, and depends on the area of glazing and the amount of thermal mass.

What are the benefits of passive solar?

Savings on heating and cooling is one of the most obvious benefits of passive solar. By harnessing the sun's natural heat and avoiding thermal losses, passively designed buildings require less energy to maintain a comfortable temperature, reducing energy bills in the long run.

Discover how passive solar systems improve the energy efficiency of your home. Learn about their features, advantages and how to make the most of them.

Passive solar energy is a type of energy that uses sunlight directly, without resorting to external energy sources. Its main objective is to optimize natural solar resources to regulate ...

Unlike conventional solar panels, which require substantial upfront investments and ongoing maintenance, passive solar design uses the building's architecture for energy ...

Passive solar systems are devices capable of harnessing solar energy to heat or cool a space without the use of mechanical devices. This is a bioclimatic strategy mainly widespread at medium and high ...

Passive solar design uses the free, natural, clean energy of the sun to heat and cool a home with little or no energy usage. When is it a possible fit for a home?

Explore 10 innovative passive solar design case studies that demonstrate energy efficiency and sustainability in various climates.

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