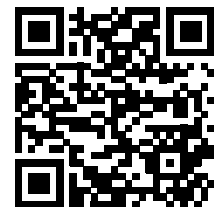


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Understanding Biomass Energy



Biomass energy is a form of _____ energy that comes from organic materials. Plants, for instance, capture sunlight and store it in the form of _____ energy through the process of photosynthesis. When these plant materials, such as _____ chips, agricultural crops, or even waste from forests and households, are used to generate energy, they produce biomass energy. This energy can be converted into different forms, such as _____, electricity, or biofuels, making it a versatile source of power.

One of the main advantages of biomass energy is its ability to reduce _____ gas emissions. Since plants absorb carbon dioxide while growing, the _____ released during the burning of biomass is balanced by the carbon absorbed, making it a carbon-neutral _____. However, this balance depends on careful management of biomass resources and ensuring that new _____ are grown to replace those used for energy.

Biomass is often hailed as a sustainable _____ to fossil fuels. Unlike oil, coal, or natural gas, biomass resources can be replenished on a relatively short _____. For instance, trees can be replanted, and agricultural crops can be regrown each _____. This cycle of growth and use makes biomass a potentially infinite source of energy.

However, there are _____ associated with biomass energy. The process of collecting, transporting, and processing biomass materials can be _____ and expensive. Moreover, if not managed sustainably, the use of biomass can lead to deforestation, loss of _____, and other environmental issues.

Despite these challenges, biomass plays a crucial role in the global _____ mix. It is particularly important in rural areas where it provides a primary source of heating and cooking energy. Innovations in technology are making biomass energy more efficient and _____, helping to reduce reliance on fossil fuels and combat climate change.

- energy
- challenges
- labor-intensive
- alternative
- season
- carbon
- sustainable
- chemical
- heat
- renewable
- biodiversity
- greenhouse
- process
- timescale
- wood
- plants