

Towards Construction of a Global Energy System Utilizing Carbonized Biomass

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A global energy system utilizing carbonized biomass is proposed. In the proposed system, biomass is pyrolyzed to produce carbonized fuel which is easy to transport and is shipped to energy-consuming countries. The proposed energy system needs no plants such as electrolysis and methanol synthesis as well as CO₂ capturing system, being different from other global energy systems that use renewable energy such as solar energy or wind power. Hence its economical feasibility is expected to be very high. The proposed system has the following features: sustainable, CO₂ neutral, making it possible to use a large amount of biomass energy from overseas.

Keywords:

Global energy system, Biomass, Carbonization, Global warming, Sustainable society