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On Biomass Energy Consumption and Real Output in the US

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²National Renewable Energy Laboratory, www.nrel.gov. [Balat and Ayar \(2005\)](#) survey world trends toward biomass energy use while [Kaygusuz \(2009\)](#) provides a review of the production, consumption, and technologies for biofuels in developed and developing countries.

³The US Department of Energy (DOE) undertakes a number of programs to facilitate the development of biomass as an energy source: The DOE Biofuels Program develops new technologies to utilize low-cost cellulosic biomass into ethanol; the DOE Biopower Program addresses biomass-based electricity generation systems and the development of sustainable energy crops; and the DOE Regional Biomass Energy Program provides cost-sharing and other support to state and local governments in the production and use of biomass energy.

⁴Much of the discussion of the hypotheses and related literature is drawn from the survey article on the causal relationship between energy consumption and economic growth by [Payne \(2010\)](#).

⁵The following are the dates in which data is reported by the Energy Information Administration (www.eia.doe.gov) for the various subcategories of biomass energy consumption: wood (1949–2007), waste (1970–2007), and biofuels (1981–2007).

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⁷Test sta... ion to draw valid info



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