



**2007 Cellulosic Ethanol - Biomass to Biofuels,  
Wood Chips, Stalks, Switchgrass, Plant Products,  
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This important and up-to-date printed report provides a guide to ongoing federal research on converting cellulose to biofuels such as ethanol. The report, entitled Biofuels Joint Roadmap, June 2006, Office of Science and Office of Energy Efficiency and Renewable Energy, U.S. Department of Energy, states: "We'll also fund additional research in cutting-edge methods of producing ethanol, not just from corn, but from wood chips and stalks or switchgrass." - President George W. Bush, State of the Union Address, January 2006 - A robust fusion of the agricultural, industrial biotechnology, and energy industries can create a new strategic national capability for energy independence and climate protection. Fuels derived from cellulosic biomass-the fibrous, woody, and generally inedible portions of plant matter-offer one such alternative to conventional energy sources that can dramatically impact national economic growth, national energy security, and environmental goals. Cellulosic biomass is an attractive energy feedstock because it is an abundant, domestic, renewable source that can be converted to liquid transportation fuels. These fuels can be used readily by current-generation vehicles and distributed through the existing transportation-fuel infrastructure. The Biomass to Biofuels Workshop, held December 7-9, 2005, was convened by the Department of Energy's Office of Biological and Environmental Research in the Office of Science; and the Office of the Biomass Program in the Office of Energy Efficiency and Renewable Energy. The purpose was to define barriers and challenges to a rapid expansion of cellulosic-ethanol production and determine ways to speed solutions through concerted application of modern biology tools as part of a joint research agenda. Although the focus was ethanol, the science applies to additional fuels that include biodiesel and other bioproducts or coproducts having critical roles in any deployment scheme. The core barrier is cellulosic-biomass re

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