



Biomass Supply Chains for Bioenergy and Biorefining (Woodhead Publishing Series in Energy)

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Biomass Supply Chains for Bioenergy and Biorefining highlights the emergence of energy generation through the use of biomass and the ways it is becoming more widely used. The supply chains that produce the feedstocks, harvest, transport, store, and prepare them for combustion or refinement into other forms of fuel are long and complex, often differing from feedstock to feedstock.

Biomass Supply Chains for Bioenergy and Biorefining considers every aspect of these supply chains, including their design, management, socioeconomic, and environmental impacts. The first part of the book introduces supply chains, biomass feedstocks, and their analysis, while the second part looks at the harvesting, handling, storage, and transportation of biomass. The third part studies the modeling of supply chains and their management, with the final section discussing, in minute detail, the supply chains involved in the production and usage of individual feedstocks, such as wood and sugar starches, oil crops, industrial biomass wastes, and municipal sewage stocks.

- Focuses on the complex supply chains of the various potential feedstocks for biomass energy generation
- Studies a wide range of biomass feedstocks, including woody energy crops, sugar and starch crops, lignocellulosic crops, oil crops, grass crops, algae, and biomass waste
- Reviews the modeling and optimization, standards, quality control and traceability, socioeconomic, and environmental impacts of supply chains

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Editorial Review

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