



Biomass in the Bioeconomy

Description

Biomass is the physical basis of the bioeconomy, the renewable segment of the circular economy, and as a CO₂-neutral part of the carbon cycle, biomass is an efficient carbon sink. Demand for biomass is increasing worldwide because of its advantages in replacing fossil-based materials and fuels, which challenges reconciling this increased demand with the sustainable management of ecosystems, including forests and crops. This reference book discusses the role of biomass in the bio-economy and focuses on the European Union and the United States, the first two regions to develop a bio-economy strategy with an obvious effect on the bio-economy developments in the rest of the world. Significant

developments in other areas of the world are addressed.

Bion

Bio

Focus o

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Features:

Provides strategies for optimal use of biomass in the bioeconomy

Defines and details sources, production, and chemical composition of biomass

Describes conversion, uses, and sustainability of biomass

Table of Contents: 1. Introduction; 2. Biomass Definition

3. Sources of Biomass; 4. Biomass Availability on Earth

5. Chemical Composition of Biomass; 6. Uses of Biomass

7. Conversion of Biomass; 8. Sustainability of Biomass

9. Strategy for Optimal Use of Biomass in the Bioeconomy

Category

1. News