



Handbook of Bioenergy Crops

A Complete Reference to Species, Development and Applications

By N. El Bassam

'[The] most authoritative and rich source of information in biomass. It can be considered as a milestone and will be instrumental in promoting the utilization of biomass for human welfare in decades to come.'

Prof. Dr. Rishi Kumar Behl, University of Hisar, Haryana, India

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Biomass currently accounts for about 15 per cent of global primary energy consumption and is playing an increasingly important role in the face of climate change, energy and food security concerns.

Handbook of Bioenergy Crops is a unique reference and guide, with extensive coverage of more than 80 of the main bioenergy crop species. For each it gives a brief description, outlines the ecological requirements, methods of propagation, crop management, rotation and production, harvesting, handling and storage, processing and utilization, then finishes with selected references. This is accompanied by detailed guides to biomass accumulation, harvesting, transportation and storage, as well as conversion technologies for biofuels and an examination of the environmental impact and economic and social dimensions, including prospects for renewable energy.

This is an indispensable resource for all those involved in biomass production, utilization and research.

'This book enlightens the vital economic and social roles of biomass to meet the growing demand for energy.'

Dr. Qingguo Xi, Agricultural Institute of Dongying, Shandong, China

'The author's decade-long expertise and dedication makes this publication unique. Global in scope, the standards of judgment and accuracy are high for a book that will become the biomass bible and reference for future generations.'

Prof. Preben Maegaard, Director, Nordic Folkecenter for Renewable Energy and Chairman, World Council for Renewable Energy (WCRE)

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Part II: 10. Energy Crops Guide covers:

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Alfalfa
Algae
Annual Ryegrass
Argan Tree (Ironwood)
Babassu Palm (Babaçú)
Bamboo
Banana
Black Locust
Broom (Ginestra)
Buffalo Gourd
Cardoon
Cassava
Castor Oil Plant
Coconut Palm
Common Reed
Cordgrass
Cotton
Cuphea
Date Palm
Eucalyptus
Giant Knotweed
Giant Reed
Groundnut
Hemp
Jatropha (Physic Nut)
Jojoba
Kallar Grass
Kenaf
Kudzu
Leucaena (Horse Tamarind)
Lupins
Meadow Foxtail
Miscanthus
Neem Tree
Oil Palm
Olive Tree
Perennial Ryegrass
Pigeonpea
Poplar
Rape
Reed Canarygrass
Rocket
Root Chicory
Rosin Weed
Safflower

Safou
Salicornia
Sheabutter Tree
Sorghum
Sorrel
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Sugarbeet
Sugarcane
Sunflower
Sweet Potato
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