



Mobilizing Sustainable Bioenergy Supply Chains

Inter-Task Project Synthesis Report



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Mobilizing Sustainable Bioenergy Supply Chains



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Biomass Processing for Sustainable Circular Economy Hafiza

Shukor,Muaz Mohd Zaini Makhtar,Abu Zahrim Yaser,2025-07-07 This book explores the pivotal role of biomass processing in catalyzing a sustainable circular economy highlighting its ability to convert waste into useful materials It offers a wide spectrum of topics from Malaysia s biomass use to bioenergy supply chains and cutting edge extraction technologies for bioactive compounds Key bioconversion strategies like enzyme and single cell protein production via biorefineries and green biosynthesis of solvents and chemicals are explored in detail The book describes innovative low cost biomimetic technologies using Black Soldier Fly and Compost Worms bioelectrochemical systems fueled by biomass and the use of biomass in food technology The book further describes activated carbon production from wastewater treatment hydrocarbons in high liquids using co pyrolysis and vegetable oils as renewable raw materials for polyurethane biobased foam The primary themes include sustainability engineering and economic sustainability with explorations of the latest trends and innovations in the processing of biomass The use of biomass in circular economy principles its transformation into renewable sources of energy and its incorporation in various sectors are also explained Through new technologies and eco friendly strategies this book is a necessity for researchers business professionals and policymakers committed to the innovation of biomass based solutions

Developing the Global Bioeconomy Patrick Lamers,Erin Searcy,J. Richard Hess,Heinz Stichnothe,2016-05-02 Developing the Global Bioeconomy Technical Market and Environmental Lessons from Bioenergy brings together expertise from three IEA Bioenergy subtasks on pyrolysis international trade and biorefineries to review the bioenergy sector and draw useful lessons for the full deployment of the bioeconomy Despite the vast amount of politically driven strategies there is little understanding on how current markets will transition towards a global bioeconomy The question is not only how the bioeconomy can be developed but also how it can be developed sustainably in terms of economic and environmental concerns To answer this question this book s expert chapter authors seek to identify the types of biorefineries that are expected to be implemented and the types of feedstock that may be used They also provide historical analysis of the developments of biopower and biofuel markets integration opportunities into existing supply chains and the conditions that would need to be created and enhanced to achieve a global biomass trade system that could support a global bioeconomy As expectations that a future bioeconomy will rely on a series of tradable commodities this book provides a central accounting of the state of the discussion in a multidisciplinary approach that is ideal for research and academic experts and analysts in all areas of the bioenergy biofuels and bioeconomy sectors as well as those interested in energy policy and economics Examines the lessons learned by the bioenergy industry and how they can be applied to the full development of the bioeconomy Explores different transition strategies and how the current fossil based and future bio based economy are intertwined Reviews the status of

current biomass conversion pathways Presents an historical analysis of the developments of biopower and biofuel markets integration opportunities into existing supply chains and the conditions that would need to be created and enhanced to achieve a global biomass trade system

Biomass waste management strategy for Uganda Food and Agriculture Organization of the United Nations, 2021-07-28 This Biomass Waste Strategy provides evidence of the large amount of biomass waste by product from small informal and large formal sawmilling facilities in Uganda as well as actions to reduce the large volume of waste Uganda has witnessed an increase in investment in plantation forestry since 2004 As the plantations mature and processing commences the amount of waste will also increase The report therefore provides expert advice and technical assistance to support sawmill managers and supervisors to acquire skills and knowledge in downstream processing and utilization to reduce wood waste It focusses on the development of a waste management strategy appropriate for Uganda with a specific focus on pine sawmilling If waste could be minimised in the sawmilling context more of the high value primary product would be produced Modern sawmills are able to achieve in excess of 50 percent product output However Sawmilling in Uganda is characterised by many small mobile informal sawmills which currently produce more sawn products than the formal sawmills There is a large amount of waste produced each year with both formal and informal sawmills operating at very low recovery rates One needs to consider the extent of the industrial forests in Uganda in order to make predictions regarding the wood that is being processed or will be processed as well as the waste that will be generated Therefore a biomass strategy is important

Modeling and Optimization of Biomass Supply Chains Calliope Panoutsou, 2017-08-11 Modeling and Optimization of Biomass Supply Chains Top Down and Bottom Up Assessment for Agricultural Forest and Waste Feedstock provides scientific evidence for assessing biomass supply and logistics placing emphasis on methods modeling capacities large data collection processing and storage The information presented builds on recent relevant research work from the Biomass Futures Biomass Policies and S2Biom projects In addition to technical issues the book covers the economic social and environmental aspects with direct implications on biomass availability Its chapters offer an overview of methodologies for assessing and modeling supply biomass quality and requirements for different conversion processes logistics and demand for biobased sectors Case studies from the projects that inspire the book present practical examples of the implementation of these methodologies The authors also compare methodologies for different regions including Europe and the U S Biomass feedstock specific chapters address the relevant elements for forest agriculture biowastes post consumer wood and non food crops Engineers in the bioenergy sector as well as researchers and graduate students will find this book to be a very useful resource when working on optimization and modeling of biomass supply chains For energy policymakers analysts and consultants the book provides consistent and technically sound projections for policy and market development decisions Provides consistent ratios and indicators for assessing biomass supply and its logistical component Explores assumptions behind the assessment of different types of biomass including key

technical and non technical factors Presents the existing modeling platforms their input requirements and possible output projections *The role of wood residues in the transition to sustainable bioenergy* Food and Agriculture Organization of the United Nations,2023-01-23 This report provides an overview of the potential use of wood residues as feedstock for bioenergy production as part of the transition towards a sustainable and circular forest bioeconomy While data and examples are abundant from developed countries a specific focus will be put on the role and potential of wood residue based energy in developing countries The study is structured around the following four main objectives each corresponding to a chapter define key terms and concepts related to wood residues and bioenergy value chains Chapter 2 characterize the status and trends in renewable energy modern bioenergy and the forest based bioeconomy and evaluate the theoretical potential of wood residues for energy Chapter 3 determine general success factors common lessons learned and constraints on the utilization of wood residues for energy Chapter 4 and formulate recommendations Chapter 5 The overall aim is to inform new policies and programmes through the identification of optimal conditions whereby the use of wood residues for energy can offer a competitive alternative to other fuels in developing countries and contribute towards reaching the UN SDGs

Towards a Sustainable Bioeconomy: Principles, Challenges and Perspectives Walter Leal Filho,Diana Mihaela Pociovălișteanu,Paulo Roberto Borges de Brito,Ismar Borges de Lima,2018-01-19 This book gathers contributions from scientists and industry representatives on achieving a sustainable bioeconomy It also covers the social sciences economics business education and the environmental sciences There is an urgent need to optimise and maximise the use of biological resources so that primary production and processing systems can generate more food fibre and other bio based products with less environmental impacts and lower greenhouse gas emissions In other words we need a sustainable bioeconomy a term that encompasses the sustainable production of renewable resources from land fisheries and aquaculture environments and their conversion into food feed fibre bio based products and bio energy as well as related public goods Despite the relevance of achieving a sustainable bioeconomy there are very few publications in this field Addressing that gap this book illustrates how biological resources and ecosystems could be used in a more sustainable efficient and integrated manner in other words how the principles of sustainable bioeconomy can be implemented in practice Given its interdisciplinary nature the field of sustainable bioeconomy offers a unique opportunity to address complex and interconnected challenges while also promoting economic growth It helps countries and societies to make a transition and to use resources more efficiently and shows how to rely less on biological resources to satisfy industry demands and consumer needs The papers are innovative cross cutting and include many practice based lessons learned some of which are reproducible elsewhere In closing the book prepared by the Inter University Sustainable Development Research Programme IUSDRP and the World Sustainable Development Research and Transfer Centre WSD RTC reiterates the need to promote a sustainable bioeconomy today

Sustainable Mobility Bernardo Llamas,Marcelo F. Ortega Romero,Eugenia Sillero,2020-04-22 The concept of

sustainability is already applied in all industrial sectors The fight against climate change therefore forces us to look for alternatives in the way we move Different alternative fuels are discussed in this book from liquid and gaseous biofuels to electricity Moreover waste to fuel processes are another option to produce a significant amount of fuels In the spirit of this book there is not only collecting different alternatives but creativity is also promoted in the readers of this book so that they take an active part of the solution necessary to reduce greenhouse gas emissions

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