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This book discusses the commercialization of biofuels and the Brazilian government policies for the promotion of renewable energy program in Brazil, which could be a learning module for several countries for implementing biofuels policy to improve their socioeconomic status and make them energy independent. Researchers in academia and industries, policy makers, and economic analysts will be assisted by important source of information in their ongoing research and future perspectives. This book will benefit graduate and postgraduate students of chemical and biochemical engineering, forestry, microbiology, biochemistry, biotechnology, applied chemistry, environmental science, sustainable energy, and biotech business disciplines by signifying the applied aspects of bioenergy production from various natural sources and their implications. Graduate and postgraduate students as well as postdoctoral researchers will find clear concepts of feedstock analysis, feedstock degradation, microbial fermentation, genetic engineering, renewable energy generation and storage, climate changes, and techno-economic analysis of biofuels production technologies.

Sugarcane exhibits all the major characteristics of a promising bioenergy crop including high biomass yield, C4 photosynthetic system, perennial nature, and ratooning ability. Being the largest agricultural commodity of the world with respect to total production, sugarcane biomass is abundantly available. Brazil has already become a sugarcane biofuels centered economy while Thailand, Colombia, and South Africa are also significantly exploiting this energy source. Other major cane producers include India, China, Pakistan, Mexico, Australia, Indonesia, and the United States. It has been projected that sugarcane biofuels will be playing extremely important role in world ' s energy matrix in recent future. This book analyzes the significance, applications, achievements, and future avenues of biofuels and bioenergy production from sugarcane, in top cane growing countries around

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the globe. Moreover, we also evaluate the barriers and areas of improvement for targeting efficient, sustainable, and cost-effective biofuels from sugarcane to meet the world ' s energy needs and combat the climate change.

Present energy situation around the globe is unsustainable due to unequal distribution of natural resources as well as different environmental, geopolitical, and economical concerns. Rise in population with accelerated increase in industrial sector has led to rapid increase in the consumption of energy sources, which will make them extinct soon. To combat environmental pollution and mitigate the effects of greenhouse gases, it has become imperative that an alternative energy source is found which is sustainable and renewable. Biofuels is one such renewable, sustainable and affordable energy source that has the potential to replace conventional energy sources. Algal Biofuel: sustainable solution explores a wide spectrum of bioenergy sources, including their applications. It provides latest information in the field of bioenergy technologies and their future prospect including lipid content. It discusses governance of biofuel at global and national level and the potential of biofuel to meet the rising energy demand. The book focuses towards the strategies to ensure the availability of algal biomass, effective cultivation and harvesting techniques. The strategies to enhance the algal lipid synthesis and its conversion for biodiesel production have been also elaborated. Detailed Table of Contents: Foreword Preface 1. Biorefinery: A Future Approach for a Sustainable Bioeconomy Introduction Role of Government, Public, and Private Stakeholders Conclusion 2. Algal biomass harvesting for biofuel production Introduction Harvesting process Future prospects and conclusions 3. Biogas as Bioenergy Option: Advances and Challenges Introduction Biochemical Processes of Anaerobic Digestion Feedstock materials Microbial community Important parameters Properties of Biogas Upgradation of Biogas Types of Digesters Applications of Biogas Challenges/bottlenecks Conclusion 4. Application of algal biomass as a feedstock 93for fermentative biohydrogen production Introduction Microalgae Advantages and Limitations of Biohydrogen from Microalgae Conclusion 5. Bioethanol Production from Lignocellulosic/Algal Biomass: 107Potential Sustainable Approach Introduction Bioethanol from Lignocellulosic Material Conclusion 6. Crop Residues as a Potential Substrate for 121Bioenergy Production: An Overview Introduction Agricultural Residues for Bioenergy Production Biomass-to-bioenergy Conversion Pathways Conclusion 7. Magnetic Harvesting of Microalgae Biomass for Cost-effective Algal Biofuel Production Introduction Magnetic Materials for Microalgae Harvesting Factors Influencing Magnetic Harvesting Process Recovery of Magnetic Materials and Biomass Detachment Biocompatibility of Magnetic Nanoparticles and Recovery of Growth Medium Conclusion 8. Biodiesel Production from Non-edible Oilseeds Introduction Non-edible Oilseeds as Biodiesel Feedstock Properties of Free Fatty Acids in Non-edible Oils Biodiesel Production Technology for Non-edible Oilseeds Fuel Properties of Biodiesel Economic Feasibility of Biodiesel from Non-edible Oils Advantages of Non-edible Oilseed Crops National Efforts to Promote Non-edible Plant Species Conclusion 9. Carbon Sequestration and Biofuel Production by Microalgae: An Integrated and Sustainable Approach Introduction Carbon Sequestration Carbon Sequestration by Microalgae Carbon Concentrating Mechanism Algal Species Factors Affecting Microalgal Efficiency Biosynthesis of Lipids in Microalgae Microalgal Biomass Harvesting and Processing Microalgal Lipid Extractions Production of Biofuels Chemical Conversion Thermochemical Conversion Biochemical Conversion Conclusion 10. Role of Meteorological Parameters on Atmospheric Aerosols Concentration and Its Control through Modern Biomass Application Introduction Aerosols Shape and Size of Aerosols Aerosol Sources Aerosol Removal Processes Implications of Aerosols Brief History of Earlier Aerosol Studies Experimental Technique Used Results and Discussion Modern Biomass Application to Control Aerosol Emission Conclusion 11. Application of Immobilized Algae in Water and Wastewater Treatment Immobilization Immobilization Techniques Application of Immobilized Algae Nutrient Removal Metal Removal Removal of Organic Compounds Lipid Content of Immobilized Algae Conclusion and Future Work 12. Recent Biotechnological Approaches for Bioenergy Production: The Path Forward Introduction Biotechnological Approaches in Bioenergy Production Different Biotechnological Approaches for Bioenergy Production Biotechnology and Sustainable Society Conclusion 13. Lipid induction in algal biomass for sustainable bioenergy production Introduction Composition of Microalgal Lipid Factors affecting lipid productivity in algal biomass Engineering efforts of lipid enhancement Conclusion About the Editors Index

Bioenergy is coming to be seen as a priority on the international agenda, with the use of liquid biofuels a key strategy in the attempt to meet both the demand for environmental sustainability and the energy needs of countries. The growth in the production and use of biofuels around the world has led to increased interest and discussion about this subject. Given the dynamics of this phenomenon, the organizers of this book, based on more than 10 years experience of joint research on this subject, seek to address key issues relating to the production and marketing of liquid biofuels using the Brazilian experience with ethanol and biodiesel as an illustrative case, as well as the experiences of the leading producers and consumers of biofuels. The topics to be covered in this book include the role of public policies in fostering the emergence of the biofuels industry, the main socio-economic, environmental, technological aspects and the prospects for the sector. The conceptual and methodological bases that provide analytical support to the book are based on recent research published in indexed journals. The structure and content of the book seek to address some central issues regarding: How the biofuel industries have emerged and developed in different countries? What factors have been crucial to the success or failure of different production initiatives? What are the main socio-economic-environmental impacts of the production and consumption of liquid biofuels? How are national and international markets for liquid biofuels being structured? To what extent and/or in what conditions can the experiences and lessons learned at the national level be transferred and adapted in other countries? Finally, based on the scenarios, the prospects for liquid biofuels will be discussed.

Reviews the latest advances in biofuel manufacturing technologies and discusses the deployment of other renewable energy for transportation Aimed at providing an interface useful to business and scientific managers, this book focuses on the key challenges that still impede the realization of the billion-ton renewable fuels vision. It places great emphasis on a global view of the topic, reviewing deployment and green energy technology in different countries across Africa, Asia, South America, the EU, and the USA. It also integrates scientific, technological, and business development perspectives to highlight the key developments that are necessary for the global replacement of fossil fuels with green energy solutions. Green Energy to Sustainability: Strategies for Global Industries examines the most recent developments in biofuel manufacturing technologies in light of business, financial, value chain, and supply chain concerns. It also covers the use of other renewable energy sources like solar energy for transportation and proposes a view of the challenges over the next two to five decades, and how these will deeply modify the industrial world in the third millennium. The coming of age of electric vehicles is also looked at, as is the impact of their deployment on the biomass to biofuels value chain. Offers extensive updates on the field of green energy for global industries Covers the structure of the energy business; chemicals and diesel from biomass; ethanol and butanol; hydrogen and methane; and more Provides an expanded focus on the next generation of energy technologies Reviews the latest

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advances in biofuel manufacturing technologies Integrates scientific, technological and business perspectives Highlights important developments needed for replacing fossil fuels with green energy Green Energy to Sustainability: Strategies for Global Industries will appeal to academic researchers working on the production of fuels from renewable feedstocks and those working in green and sustainable chemistry, and chemical/process engineering. It is also an excellent textbook for courses in bioprocessing technology, renewable resources, green energy, and sustainable chemistry.

Biofuels and food are dependent on the same resources for production: land, water, and energy. The conjuncture of food, energy, and climate crises demands a new direction in how to harness agriculture to the joint tasks of energy-saving, emissions reduction, and food security. Global Economic and Environmental Aspects of Biofuels focuses on the all-important question of the efficacy of biofuels as a solution to the global energy problem. Written by a distinguished team from five countries and multiple disciplines including agronomy, petroleum engineering, ecology, and meteorology, the book addresses the use of biofuels produced from crops and various organic materials as alternatives or supplements to petroleum. Key Features Discusses biofuels within the context of the world population problem, food, malnutrition, resource depletion, and climate change Asks the critical question whether the production of ethanol from corn, sugar cane, crop residues, and other organic materials has proven too costly in both economic and environmental terms Analyzes the uses and interdependencies among land, water, and fossil energy resources in food versus biofuel production Includes case studies on the economic and environmental impacts of biofuel production and use from the United States, Europe, Brazil, and tropical environments Explores the future production of biodiesel and ethanol from salt-water algae and tropical palms, while recognizing the technological problems that must be resolved in processing these materials This book examines key environmental and economic issues associated with the production of ethanol as a fuel, from corn, sugar cane, crop residues, and other organic materials. It brings together the opinions of a number of U.S. scientists and experts from Spain, Italy, the United Kingdom, and Brazil, and highlights the remarkable agreement among the contributors on the pros and cons of biofuels as an answer to future petroleum shortages. This mix of contributors and opinions presents a well-rounded view of the subject that puts a spotlight on unresolved concerns and complexities that are often overlooked.

In recent years, there has been a rapid expansion of the growing of crops for use in bioenergy production rather than for food. This has been particularly the case for sugarcane in Latin America and Africa. This book examines the further potential in the context of the food versus fuel debate, and as a strategy for sustainable development. Detailed case studies of two countries, Colombia and Mozambique, are presented. These address the key issues such as the balance between food security and energy security, rural and land development policies, and feasibility and production models for expanding bioenergy. The authors then assess these issues in the context of broader sustainable development strategies, including implications for economics, employment generation, and the environment. The book will be of great interest to researchers and professionals in energy and agricultural development.

This book presents a concise framework for assessing technical and sustainability impacts of existing biorefineries and provides a possible road map for development of novel biorefineries. It offers a detailed, integrated approach to evaluate the entire biomass production chain, from the agricultural feedstock production and transportation, to the industrial conversion and commercialization & use of products. The Brazilian sugarcane biorefinery is used as a case study; however, the methods and concepts can be applied to almost any biomass alternative. Chapters explore the main issues regarding biorefinery assessment, including feedstock production and transportation modeling, biofuels and green chemistry products, as well as assessment of sustainability impacts. This book is a valuable source of information to researchers in bioenergy, green chemistry and sustainability fields. It also provides a useful framework for government agencies, investors and the energy industry to evaluate and predict the success of current and future biorefinery alternatives.

Abstract: The world is witnessing a sudden growth in production of biofuels, especially those suited for replacing oil like ethanol and biodiesel. This paper synthesizes what the environmental, economic, and policy literature predicts about the possible effects of these types of biofuels. Another motivation is to identify gaps in understanding and recommend areas for future work. The analysis finds three key conclusions. First, the current generation of biofuels, which is derived from food crops, is intensive in land, water, energy, and chemical inputs. Second, the environmental literature is dominated by a discussion of net carbon offset and net energy gain, while indicators relating to impact on human health, soil quality, biodiversity, water depletion, etc., have received much less attention. Third, there is a fast expanding economic and policy literature that analyzes the various effects of biofuels from both micro and macro perspectives, but there are several gaps. A bewildering array of policies - including energy, transportation, agricultural, trade, and environmental policies - is influencing the evolution of biofuels. But the policies and the level of subsidies do not reflect the marginal impact on welfare or the environment. In summary, all biofuels are not created equal. They exhibit considerable spatial and temporal heterogeneity in production. The impact of biofuels will also be heterogeneous, creating winners and losers. The findings of the paper suggest the importance of the role biomass plays in rural areas of developing countries. Furthermore, the use of biomass for producing fuel for cars can affect access to energy and fodder and not just access to food.

This book focuses on biogas production by anaerobic digestion, which is the most popular bioenergy technology of today. Using anaerobic digestion for the production of biogas is a sustainable approach that simultaneously also allows the treatment of organic waste. The energy contained in the substrate is released in the form of biogas, which can be employed as a renewable fuel in diverse industrial sectors. Although biogas generation is considered an established process, it continues to evolve, e.g. by incorporating modifications and improvements to increase its efficiency and its downstream applications. The chapters of this book review the progress made related to feedstock, system configuration and operational conditions. It also addresses microbial pathways utilized, as well as storage, transportation and usage of biogas. This book is an up-to-date resource for scientists and students working on improving biogas production.

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