



Bioenergy: Biomass to Biofuels

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Depleting fossil fuel reserves and adverse effects of fluctuating oil prices have renewed interest in alternative and sustainable sources of energy. **Bioenergy: Biomass to Biofuels** takes on this topic and examines current and emerging feedstocks and advanced processes and technologies enabling the development of all possible alternative energy sources: solid (wood energy, grass energy, and other biomass), liquid (biodiesel, algae biofuel, ethanol), and gaseous/electric (biogas, syngas, bioelectricity). Divided into seven parts, **Bioenergy** gives thorough consideration to topics such as feedstocks, biomass production and utilization, life cycle analysis, Energy Return on Invested (EROI), integrated sustainability assessments, conversions technologies, biofuels economics and policy. In addition, contributions from leading industry professionals and academics, augmented by related service-learning case studies and quizzes, provide readers with a comprehensive resource that connect theory to real-world implementation.

- Provides a comprehensive overview and in-depth technical information of all possible bioenergy resources (solid, liquid, and gaseous), including cutting-edge topics such as advanced fuels and biogas
- Integrates current state of art coverage from feedstocks to cost-effective conversion processes to biofuels economic analysis and environmental policy
- Features case studies and quizzes for each section derived from the implementation of actual hands-on biofuel projects as part of service learning.

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Editorial Review

About the Author

Dr. Anju Dahiya is Lead Biofuels Instructor at the University of Vermont, where her “Biomass to Biofuels” program, developed with support from the US Department of Energy, brings together experts from the biofuels industry, farms and the university faculty to provide hands on experience working with all possible renewable bio-energy options: liquid biofuels (biodiesel including oil seeds; ethanol, algae oil), solid biomass (woody biomass and grass energy), and biogas. Dr. Dahiya is also President and Senior Research Scientist at GSR Solutions LLC, dedicated to advanced biofuel and related byproducts development. Currently she leads one of the three Farm to Fly F2F2 national level initiatives, and oil-heat project for advanced biofuel production supported by US Department of Agriculture. She has been leading several other biofuel projects supported through Department of Energy, VT Sustainable Jobs Fund; Environmental Protection Agency; NASA, EPSCoR; National Science Foundation, EPSCoR for the development of a robust system of algal-oil production integrated with dairy farm & industrial waste treatment for cost-efficiency. Her algal biofuel work has been featured in television, radio and print, and she is a frequently invited speaker at conferences, state programs, and workshops. To stimulate the advanced biofuel research at regional level she successfully organized the “Algae for Energy in Northeast” conference at the University of Vermont few years ago, and continues to explore novel ways for realizing the energy goals.

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