



## **Sustainability Assessment of Renewables-Based Products: Methods and Case Studies (Wiley Series in Renewable Resource)**

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# Sustainability Assessment of Renewables-Based Products: Methods and Case Studies (Wiley Series in Renewable Resource)

## Sustainability Assessment of Renewables-Based Products: Methods and Case Studies (Wiley Series in Renewable Resource)

Over the past decade, renewables-based technology and sustainability assessment methods have grown tremendously. Renewable energy and products have a significant role in the market today, and the same time sustainability assessment methods have advanced, with a growing standardization of environmental sustainability metrics and consideration of social issues as part of the assessment.

*Sustainability Assessment of Renewables-Based Products: Methods and Case Studies* is an extensive update and sequel to the 2006 title *Renewables-Based Technology: Sustainability Assessment*. It discusses the impressive evolution and role renewables have taken in our modern society, highlighting the importance of sustainability principles in the design phase of renewable-based technologies, and presenting a wide range of sustainability assessment methods suitable for renewables-based technologies, together with case studies to demonstrate their applications.

This book is a valuable resource for academics, businesses and policy makers who are active in contributing to more sustainable production and consumption.

For more information on the Wiley Series in Renewable Resources, visit [www.wiley.com/go/rrs](http://www.wiley.com/go/rrs)

Topics covered include:

- The growing role of renewables in our society
- Sustainability in the design phase of products and processes
- Principles of sustainability assessment
- Land use analysis
- Water use analysis
- Material and energy flow analysis
- Exergy and cumulative exergy analysis
- Carbon and environmental footprint methods
- Life Cycle Assessment (LCA), social Life Cycle Assessment and Life Cycle Costing (LCC)
- Case studies: renewable energy, bio-based chemicals and bio-based materials.

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