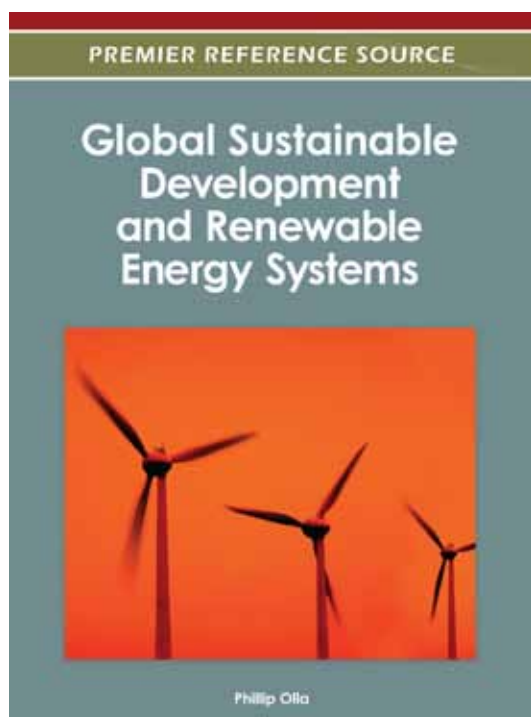


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## Global Sustainable Development and Renewable Energy Systems



Phillip Olla (Madonna University, USA)

Over the past decade the use of Renewable Energy Technology (RET) has significantly increased around the globe. Technologies that once were considered experimental are now being deployed on commercial scales at phenomenal rates, delivering cost effective substitutes for the conventional, fossil fuel based systems that caused problems including harmful greenhouse gas emissions, expensive operating costs, and global pollution. But these new systems come at a costly rate, and because of this, officials must review their overall efficiency and effectiveness.

**Global Sustainable Development and Renewable Energy Systems** pushes through the boundaries of current research to introduce the concept of an energy management information system, exploring the role of energy for sustainable development. This book goes into great detail describing the benefits of these systems for organizations focusing on corporate sustainability initiatives and activities to combat climate change. Research presented in this publication include modeling techniques, software applications, and case studies that reveal how renewable energy sources such as wind, solar, and biomass fuel can have a significant implications for both operating costs and environmental impacts.

### Topics Covered:

- Alternative energy systems
- Corporate and organizational sustainability
- Energy efficiency software applications
- Energy evaluations
- Energy for sustainable development
- Energy modeling software and applications
- Environmental impacts or renewable energy sources
- Renewable energy return of investments
- Solar energy
- Wind energy conversion

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**Phillip Olla** is the endowed Phillips Chair of Management and Professor of MIS at the school of business at Madonna University in Michigan (USA), and he is also a Visiting Research Fellow at Brunel University (London, UK). His research interests include knowledge management, mobile telecommunication, and health informatics. In addition to University level teaching, Dr. Phillip Olla is also a Chartered Engineer and has over 10 years experience as an independent Consultant and has worked in the telecommunications, space, financial and healthcare sectors. He was contracted to perform a variety of roles including Chief Technical Architect, Program Manager, and Director. Dr. Olla is the Associate Editor for the *Journal of Information Technology Research* and the *Software/Book Review Editor for the International Journal of Healthcare Information Systems and Informatics*, and is also a member of the Editorial Advisory & Review Board for the *Journal of Knowledge Management Practice*. Dr. Phillip Olla has a PhD in mobile telecommunications from Brunel University (UK), he is an accredited Press member of the British Association of Journalism, Chartered IT Professional with the British Computing Society and a member of the IEEE society.



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