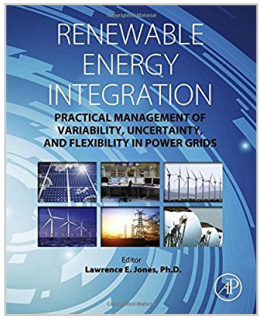

Renewable Energy Integration: Practical Management of Variability, Uncertainty, and Flexibility in Power Grids

By Lawrence E. Jones

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Renewable Energy Integration is a ground-breaking new resource - the first to offer a distilled examination of the intricacies of integrating renewables into the power grid and electricity markets. It offers informed perspectives from internationally renowned experts on the challenges to be met and solutions based on demonstrated best practices developed by operators around the world. The book's focus on practical implementation of strategies provides real-world context for theoretical underpinnings and the development of supporting policy frameworks. The book considers a myriad of wind, solar, wave and tidal integration issues, thus ensuring that grid operators with low or high penetration of renewable generation can leverage the victories achieved by their peers. ***Renewable Energy Integration*** highlights, carefully explains, and illustrates the benefits of advanced technologies and systems for coping with variability, uncertainty, and flexibility.

- Lays out the key issues around the integration of renewables into power grids and markets, from the intricacies of operational and planning considerations, to supporting regulatory and policy frameworks
- Provides global case studies that highlight the challenges of renewables integration and present field-tested solutions
- Illustrates enabling and disruptive technologies to support the management of variability, uncertainty and flexibility

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Editorial Review

Review

"…it lays out the key issues around the integration of renewables into power grids and markets…Detailed national case studies make up the largest proportion of the content and are the most valuable part, showing how the challenges of renewables integration can be met and discussing the field-tested solutions involved."--***Real Power,*** **June 2014**

About the Author
Dr. Lawrence E. Jones is a thought leader and practitioner with over twenty years of experience in the energy industry. His expertise includes renewable energy integration and the application of smarter technologies in the engineering and operations of electric power grids and other critical infrastructures. He also focuses on system resiliency, disruptive and innovative business models, and strategies for addressing challenges at the food-energy-water nexus. He joined Alstom Grid Inc. in 2000. He was Alstom's North America Vice President for Utility Innovations and Infrastructure Resilience and served on the company’s global Business Development team for Smart Grids and Smart Cities. He is currently Vice President, International Programs at Edison Electric Institute (EEI) and serving a second three-year term on the 15-member Federal Smart Grid Advisory Committee of the United States Department of Commerce’s National Institute of Standards and Technology (NIST).

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