



Smart Grids: Infrastructure, Technology, and Solutions (Electric Power and Energy Engineering)

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What exactly is smart grid? Why is it receiving so much attention? What are utilities, vendors, and regulators doing about it? Answering these questions and more, **Smart Grids: Infrastructure, Technology, and Solutions** gives readers a clearer understanding of the drivers and infrastructure of one of the most talked-about topics in the electric utility market—smart grid. This book brings together the knowledge and views of a vast array of experts and leaders in their respective fields.

Key Features

- Describes the impetus for change in the electric utility industry
- Discusses the business drivers, benefits, and market outlook of the smart grid initiative
- Examines the technical framework of enabling technologies and smart solutions
- Identifies the role of technology developments and coordinated standards in smart grid, including various initiatives and organizations helping to drive the smart grid effort
- Presents both current technologies and forward-looking ideas on new technologies
- Discusses barriers and critical factors for a successful smart grid from a utility, regulatory, and consumer perspective
- Summarizes recent smart grid initiatives around the world
- Discusses the outlook of the drivers and technologies for the next-generation smart grid

Smart grid is defined not in terms of what it is, but what it achieves and the

benefits it brings to the utility, consumer, society, and environment. Exploring the current situation and future challenges, the book provides a global perspective on how the smart grid integrates twenty-first-century technology with the twentieth-century power grid.

CRC Press Authors Speak

Stuart Borlase speaks about his book. Watch the video

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Editorial Review

Review

"Technology managers would find this book very interesting based on the amount of new ideas that will be generated and the possible new technologies that will be developed, opening up new product or service businesses. Engineers will also find this book useful for learning about the future of smart grids and the new technologies being used today. Based on all the new standards and regulations that need to be created, regulators and standards committee members will also find this book to be very good source to learn about potential forthcoming policies."

?IEEE Electrical Insulation Magazine, November/December 2013

"The authors have provided a great collection of information from research and practical application about the need for upgrading the electric transmission and distribution system to a 'smarter grid' utilizing technology to provide a new level of visibility and control of the system."

?Thomas F. Weaver, American Electric Power, Columbus, Ohio, USA

About the Author

Stuart Borlase works as a business development manager for the Siemens Transmission division in Cary, North Carolina. He has overall responsibility for the strategy and development of the Siemens U.S. substation turnkey projects business with a key focus on providing unique solutions that meet customers' needs in the ever-changing transmission market. Borlase has more than 20 years of technical and business experience in the electric utility T&D industry, including leadership positions in sales, business development, marketing, product development, engineering, and consulting. He previously worked as business development director responsible for strategic direction, leadership, and growth in the development and deployment of GE Energy's global smart grid solutions. Borlase received his Master of Engineering and Doctor of Engineering degrees in electrical engineering from Texas A&M University. He is a senior member of the IEEE and a registered professional engineer.

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Doreen Harry:

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