1. Record Nr. UNINA9910140564803321 Autore Casazza John Titolo Understanding electric power systems: an overview of the technology, the marketplace and government regulation / / John Casazza, Frank Delea Pubbl/distr/stampa Oxford:,: Wiley-Blackwell,, 2010 [Piscataqay, New Jersey]:,: IEEE Xplore,, [2010] **ISBN** 1-118-21137-5 1-282-65356-3 9786612653568 0-470-58847-0 0-470-58846-2 Edizione [2nd ed.] Descrizione fisica 1 online resource (342 p.) Collana IEEE Press understanding science & technology series;; 23 Altri autori (Persone) DeleaFrank Disciplina 621.319/1 621.3191 Soggetti Electric power systems Electric power Electric utilities Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references and index. Nota di bibliografia Nota di contenuto UNDERSTANDING ELECTRIC POWER SYSTEMS; CONTENTS; Preface to the Second Edition; Acknowledgments; CHAPTER 1 Benefits of Electric Power and a History of the Electric Power Industry: CHAPTER 2 The Electric Power System: CHAPTER 3 Basic Electric Power Concepts: CHAPTER 4 Electric Energy Consumption; CHAPTER 5 Electric Power Generation and Concerns About Greenhouse Gases: CHAPTER 6 The Technology of the Electric Transmission System; CHAPTER 7 Distribution; CHAPTER 8 Energy Storage and Other New Technologies; **CHAPTER 9 Reliability** CHAPTER 10 The Physical Network: The North American Electric Reliability Corporation (NERC) and Its StandardsCHAPTER 11 The Physical Network: Operation of the Electric Bulk Power; CHAPTER 12

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Technological advances and changes in government policy and regulation have altered the electric power industry in recent years and will continue to impact it for quite some time. Fully updated with the latest changes to regulation, structure, and technology, this new edition of Understanding Electric Power Systems offers a real-world view of the industry, explaining how it operates, how it is structured, and how electricity is regulated and priced. It includes extensive references for the reader and will be especially useful to lawyers, government officials, regulators, engineers, and student