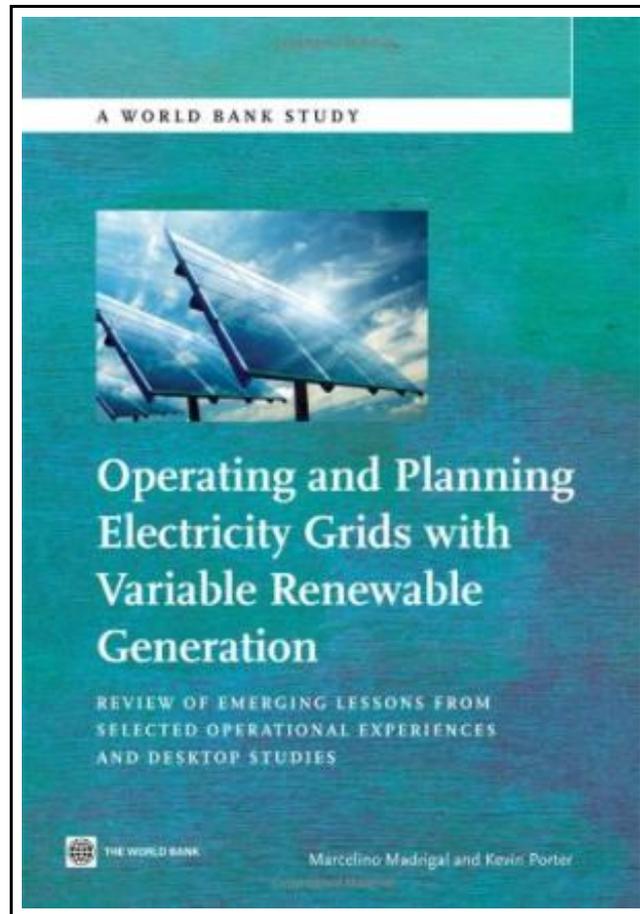


# Operating and Planning Electricity Grids with Variable Renewable Generation



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*(Mrs. Lyda Wilkinson Sr.)*

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World Bank Publications, United States, 2013. Paperback. Book Condition: New. 251 x 173 mm. Language: English . Brand New Book. The paper Challenges and Approaches to Electricity Grids Operations and Planning with Increased Amounts of Variable Renewable Generation: Emerging Lessons from Selected Operational Experiences and Desktop Studies focuses on analyzing the impacts of variable renewable energy on the operation and planning of the the power system (mostly, generation system). It is aimed at informing stakeholders in power utilities, regulatory bodies and other relevant audiences, on the fundamentals of technical challenges and approaches to operate electricity grids with renewable energy. It covers renewable energy as a whole, but in particular, focusses on wind and solar energy. It also presents three case studies of countries, including China, Gemany and Spain. The total worldwide installed capacity of wind and solar projects is growing rapidly, and several countries are noticing increased penetrations of wind and solar in their electricity generation mix. In addition to operating experience being gained from adding wind and solar capacity, several grid integration studies have been performed that assess potential grid and operating impacts from adding higher amounts of wind and solar capacity. Perhaps just as important, the electric power industry and those that conduct research on grid integration have not found a maximum level of variable generation that can be reliably incorporated, and it is clear that it is as much an economic question (how much cost in additional reserves or grid impacts is acceptable) as a technical question regarding grid operators ability to adapt to the new challenges. In addition, while their contributions to capacity or firm power and associated costs are different from those of conventional power sources, variable renewable generation technologies can contribute to long-term system adequacy and security. The paper describes on the contribution of...

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