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Management of Weather and Climate Risk in the Energy Industry

Edited by
Alberto Troccoli Springer

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Alberto Troccoli (Ed.)

Management of Weather and Climate Risk in the Energy Industry

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- Presents state-of-the-art papers in the production and use of weather and climate information for many areas within the energy industry
- Includes papers on the technical aspects of production and use of weather and climate information for the energy industry
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Meteorological and climate data are indeed essential both in day-to-day energy management and for the definition of production and distribution infrastructures. For instance, the supply of electricity to users can be disturbed by extreme meteorological events such as thunderstorms with unusually strong winds, severe icing, severe cold spells, sea level elevation associated with storm surges, floods ... To be protected against such events, it is not sufficient to act after they have taken place. It is necessary to identify their potential impacts precisely and assess the probability of their occurrence. This book shows that this can only be done through an enhanced dialogue between the energy community and the climate and meteorology community. This implies an in-depth dialogue between actors to define precisely what kind of data is needed and how it should be used. Météo-France has been in long-term cooperation with the energy sector, including the fields of electricity production and distribution. Drawing on this experience, it should be noted in this respect the importance of long-term partnership between actors as exemplified here by the message of EDF.

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