Special Issue

Climate Change and Sustainable Hydro-Energy Development

Message from the Guest Editors

Hydropower energy is known as green and renewable energy due to the fact that it relies on the water cycle in nature to generate electricity. The normal water cycle in a basin can be affected by many factors such as human activities, deforestation, urbanization, land use change, etc. leading to cause local or global climate change. However, sustainable hydro-energy development is very dependent on hydrological conditions which can significantly be affected by climate change consequences. The main scope of this special issue is to investigate and evaluate the effects of local or global climate change on hydropower generation and to find proper solutions. All types of manuscripts related to the statistical, numerical, or analytical analysis of climate change impacts on hydrological conditions, rivers, dams, and hydropower are welcomed.

Guest Editors

Dr. Jihui Fan

Institute of Mountain Hazards and Environment, Chinese Academy of Sciences, Chengdu, China

Dr. Siqi Li

Institute of Atmospheric Physics, Chinese Academy of Sciences, Beijing, China

Deadline for manuscript submissions

closed (18 December 2023)

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Atmosphere
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
atmosphere@mdpi.com

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Message from the Editor-in-Chief

Continued developments in instrumentation and modeling have driven atmospheric science to become increasingly more complex with a deeper understanding of concepts, mechanisms, and interactions. This is the field that innovation built and it has led to a better appreciation for the complexity with atmosphere. Human life is intertwined in this complexity as we strive to better understand our atmosphere. Climate change is constantly stretching the limits of our thinking and forcing new ideas and concepts to be played out. Welcome to the Anthropocene!

Editor-in-Chief

Dr. Daniele Contini
Institute of Atmospheric Sciences and Climate (ISAC), National Research Council (CNR), Str. Prv. Lecce-Monteroni km 1.2, 73100 Lecce, Italy

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