Special Issue

Evaluation of Energy–Environment Interactions Using the Life Cycle Assessment (LCA) Method

Message from the Guest Editor

Recent advances in energy conversion and management technologies need to be evaluated in terms of their overall environmental impacts and this topic can be addressed by employing a life cycle approach to estimate the environmental pressure of a certain techology with respect to its energy gain. Also, sustainable strategies and solutions making it possible to mitigate the emissions of an energy plant ought to be discussed in the context of LCA methods. Indeed, several renewable energy-based technologies can indeed be environmentally burdensome if their entire life cycle is computed in terms of their carbon dioxide production. Conversely, some other energy conversion technologies, such as the bioenergy, can be underestimated in terms of their potential environmental benefits.

The Issue aims to reveal key insights into the interactions between the environment and energy production processes by considering renewable sources (bioenergy, solar, geothermal, and hydroelectrical chains...) and their emissive prospects (i.e., carbon dioxide, NOx, SOx, particulate matter, odour emissions, etc.).

Looking forward to your submissions!

Guest Editor

Dr. Valentina Coccia

Interuniversity Center for Research on Pollution and the Environment, Biomass Research Center, University of Perugia, Via G. Duranti 63, 06125 Perugia, Italy

Deadline for manuscript submissions

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

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I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international Open Access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. *Sustainability* publishes original research articles, review articles and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Editor-in-Chief

Prof. Dr. Marc A. Rosen
Faculty of Engineering and Applied Science, University of Ontario Institute of Technology, Oshawa, ON L1G 0C5, Canada

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