Special Issue

Technical and Economic Evaluation of Non-fossil Fuels

Message from the Guest Editor

A significant portion of carbon dioxide build-up arrives from key sectors (the transportation and chemical industries, among others) continuing to rely heavily on fossil fuels, and then hampering the ever-ambitious global climate action agenda. To overcome these issues and shift the route back to a carbon-free economy, current processes need to be changed in many ways. A leading solution is the use of alternative fuels as hydrogen, ammonia, or biomass-based fuels, just to name a few. However, even hydrogen, which has been generating massive expectations as a potential enabler of a carbon-free economy, stumbles in key challenges such as storage, distribution, and infrastructure deployment. In the broad spectrum of feasible decarbonization pathways, the challenge for political and economic decision-makers is to weigh uncertain impacts from different technologies and to build a comprehensive evidence-based framework for research, business, investment, and policy decision making. This Special Issue aims to discuss a set of new technology approaches and environmental and economic implications related to non-fossil fuels.

Guest Editor

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Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

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