

Special Issue

Environmental Sustainability, Technical Feasibility, and Economic Viability of Repurposing and Repowering Coal-Fired Power Plants

Message from the Guest Editors

This Special Issue of *Energies* intends to explore the environmental sustainability, technical feasibility, and economic viability of repurposing and repowering coal-fired power plants. By repurposing these plants, they can be transformed into facilities that utilize alternative energy sources such as solar, wind, or biomass, reducing their carbon footprint and utilizing existing infrastructure. These power plants can also be repowered using different but environmentally friendly primary energy resources such as green hydrogen, biomass, and natural gas to replace coal. The modelling of power plants and the analysis of existing grids with replaced resources are vital in order to determine the system voltage stability and mitigation strategies. Efforts must be made to ensure that the communities in which coal-fired power plants are repurposed or repowered are considered by key stakeholders who take their concerns seriously, particularly regarding jobs and economic activities for the community's sustenance.

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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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