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Energy Efficiency of Manufacturing Processes and Systems

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Message from the Guest Editor

The availability and affordability of energy affect the whole life cycle of a product and subsequently the production phase as well. Manufacturing activities are responsible for one third of the global total energy consumption and CO₂ emissions. Thus producing with higher energy efficiency has been the focus of research in recent years and is nowadays considered one of the key decision-making attributes for manufacturing. This Special Issue considers the energy efficiency of both manufacturing processes and systems. Papers are particularly invited in the following areas:

- Methods for the measurement of energy efficiency, including obtaining performance data from older production technologies
- Tools and techniques for the analysis and development of improvements with regards to energy consumption
- Tools and techniques for the modelling and simulation of energy efficiency for both manufacturing processes and systems
- Continuous improvement methodologies and cases
- Case studies on the management of such systems and what practices are necessary to maintain
- Green and lean manufacturing



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Special Issue



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Message from the Editor-in-Chief

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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