

Special Issue

Multicriteria Decision Analysis in Planning Sustainable Energy Use

Message from the Guest Editors

Sustainable energy consumption is consumption that meets environmental and social sustainability criteria, i.e. consumption that allows the well-being of current generations without detracting from the future of future generations. Energy production and use must not only be compatible with society's environmental priorities, but must also be organised in a way that supports the social consensus that binds them together. While most studies were based solely on cost minimisation, it was not until the 1980s that there was a greater awareness of environmental issues and a need to incorporate environmental considerations into energy planning. This led to a wider use of MCDA. All this results in the fact that energy planning problems are complex with multiple decision-makers and multiple criteria, as it is subject to many sources of uncertainty, long lead times and capital-intensive investments. Therefore, these problems are well suited for the use of MCDA. This special issue aims to provide an overview of MCDA methods that have been proposed over the years. It presents an overview of how the various methods have been applied and are applied for sustainable energy use planning.

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