



energies



an Open Access Journal by MDPI

Experimental Development, Thermodynamic/Thermo-Fluid Dynamic Analysis and Optimization of Cogeneration Systems and Polygeneration Plants

Guest Editors:

Prof. Dr. Alfredo Gimelli

Department of Industrial Engineering, University of Naples Federico II, P.le Tecchio 80, Naples, Italy

alfredo.gimelli@unina.it

Dr. Maria Vicidomini

Department of Industrial Engineering, University of Naples Federico II, P.le Tecchio 80, Naples, Italy

maria.vicidomini@unina.it

Dr. Massimiliano Muccillo

Department of Industrial Engineering, University of Naples Federico II, via Claudio 21, 80125 Naples, Italy

massimiliano.muccillo@unina.it

Deadline for manuscript submissions:

closed (10 August 2021)



mdpi.com/si/47393

Message from the Guest Editors

Dear Colleagues,

Although they have been investigated for many decades as stand-alone solutions, combined heat and power (CHP) and combined cooling heat and power (CCHP) systems have been objects of renewed interest in recent years. This is mainly due to their possibility of being integrated by further conventional or renewable technologies, thus constituting the main sub-systems of local, small, or medium-scale polygeneration plants. In fact, the exploitation of renewable energy sources and energy-saving techniques has become mandatory to meet the required energy demand while mitigating anthropogenic carbon dioxide emissions. In this context, the increasing attention given to CHP/CCHP and polygeneration plants is due to their potential to ensure significant primary energy savings in the framework of a distributed multi-energy generation system.

Therefore, the purpose of this Special Issue is to collect high-quality research papers and review articles dealing with CHP/CCHP and polygeneration systems...

Prof. Dr. Alfredo Gimelli

Dr. Maria Vicidomini

Dr. Massimiliano Muccillo

Guest Editors

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

Author Benefits

Open Access:— free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, AGRIS, Inspec, CAPlus / SciFinder, and many other databases.

Journal Rank: [CiteScore](#) - Q1 (*Control and Optimization*)

Contact Us

Energies
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
Fax: +41 61 302 89 18
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[@energies_mdpi](https://twitter.com/energies_mdpi)