Special Issue

Natural Gas Hydrates as Energy Resource: Prospects and Challenges

Message from the Guest Editors

An overview of the natural gas hydrate environments and their characteristics, such as concentration and composition, petrophysical properties, depth, and pore water salinity should be considered as a starting point to assess environmental conditions before any operation in natural hydrate reservoirs, such as methane recovery and/or CO2 sequestration. The baseline information, such as geotechnical and geochemical reactions, are indispensable to model and predict the evolution of a reservoir during and after human activities on it. Thus, a multidisciplinary group and an interdisciplinary approach are indispensable to characterize a natural gas hydrate reservoir and predict the possible scenarios about gas hydrate production to evaluate the level of risks and to differentiate between natural gas hydrate destabilization (e.g., climate change) and induced through production activities. This Special Issue aims to collect the most innovative studies and points of view related to all steps of the exploitation of natural gas trapped in natural gas hydrate reservoirs, such as the environmental impact and methane recovery.

Guest Editors

Dr. Umberta Tinivella

Istituto Nazionale di Oceanografia e di Geofisica Sperimentale, 33100 Udine, Italy

Dr. Michela Giustiniani

National Institute of Oceanography and Experimental Geophysics (OGS), Borgo Grotta Gigante 42 / C, 34010 Sgonico (TS), Italy

Deadline for manuscript submissions

closed (31 December 2021)



Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/47475

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/ energies





Energies

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



About the Journal

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.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)

