



Measurement of Greenhouse Gas Emissions from Natural Gas Systems

Guest Editor:

Dr. Natalie Pekney

National Energy Technology
Laboratory, Pittsburgh, PA, USA

Deadline for manuscript
submissions:

closed (18 September 2020)

Message from the Guest Editor

Because combusted natural gas generates less carbon dioxide per unit energy produced than coal or oil, transition to natural gas for energy generation presents a potential reduction in climate impacts. However, this benefit depends on low system leakage rates, as methane, the primary component of natural gas, is a potent greenhouse gas (GHG). The recent shale gas boom has resulted in significant focus on the GHG footprint of natural gas exploration and production.

This Special Issue invites critical reviews and research papers that analyze and discuss GHG emissions from natural gas systems. Specific emphasis is on (i) measurements from production and infrastructure components, (ii) their impact on regional air quality, (ii) climate change implications, and (iii) the effect of mitigation strategies and/or regulatory policies.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Sergio Ulgiati

1. Department of Science and
Technology, Parthenope
University of Naples, Centro
Direzionale, Isola C4, 80143
Napoli, Italy
2. State Key Joint Laboratory of
Environment Simulation and
Pollution Control, School of
Environment, Beijing Normal
University, No. 19 Xijiekouwai
Street, Beijing 100875, China

Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

Author Benefits

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

High Visibility: indexed within [Scopus](#), [ESCI \(Web of Science\)](#), [PubAg](#), [AGRIS](#), [GeoRef](#), and [other databases](#).

Journal Rank: CiteScore - Q1 (*Ecology, Evolution, Behavior and Systematics*)

Contact Us

Environments Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/environments
environments@mdpi.com
[X@Environ_MDPI](#)