DISCUSSION PUBLISHERS
Research Center · Open Access Edition

Climate change: Strategies for mitigation and adaptation

Fang Wang, Jean Damascene Harindintwali, Ke Wei, Yuli Shan, Zhifu Mi, Mark J. Costello, Sabine Grunwald, Zhaozhong Feng, Faming Wang, Yuming Guo, Xing Wu, Prashant Kumar

Discussion Research ID	DPR-2026-1029
Year	2023
Field	Environmental Science
DOI	10.59717/j.xinn-geo.2023.100015
Author ORCID	0000-0001-9986-0948
Licence	CC-BY
Original source	The Innovation Geoscience
Permanent link	https://discussionpublishers.com/research/b51c25c8-8aeb-4893-9bb2-7495de523300
Publisher	Discussion Publishers discussionpublishers.com

Republished by Discussion Publishers under the original CC-BY licence. Copyright remains with the original authors; please cite the original work.

Cite as: Fang Wang, Jean Damascene Harindintwali, Ke Wei, Yuli Shan, (2023). Climate change: Strategies for mitigation and adap.

Abstract

The sustainability of life on Earth is under increasing threat due to human-induced climate change. This perilous change in the Earth's climate is caused by increases in carbon dioxide and other greenhouse gases in the atmosphere, primarily due to emissions associated with burning fossil fuels. Over the next two to three decades, the effects of climate change, such as heatwaves, wildfires, droughts, storms, and floods, are expected to worsen, posing greater risks to human health and global stability. These trends call for the implementation of mitigation and adaptation strategies. Pollution and environmental degradation exacerbate existing problems and make people and nature more susceptible to the effects of climate change. In this review, we examine the current state of global climate change from different perspectives. We summarize evidence of climate change in Earths spheres, discuss emission pathways and drivers of climate change, and analyze the impact of climate change on environmental and human health. We also explore strategies for climate change mitigation and adaptation and highlight key challenges for reversing and adapting to global climate change.

Keywords: climate change, climate change mitigation, climate change adaptation, greenhouse gases, CO2 emission

Full text

The complete text of this work is hosted by its original publisher.
Read it via the Discussion Publishers page:
https://discussionpublishers.com/research/b51c25c8-8aeb-4893-9bb2-7495de523300

Original record: https://doi.org/10.59717/j.xinn-geo.2023.100015
DOI: https://doi.org/10.59717/j.xinn-geo.2023.100015