

GREEN GROWTH & CLIMATE FINANCE FOR AFRICA AND THE WORLD

Session 18: Geoengineering and Solar Radiation Management

11th Conference on Climate Change and Development in Africa

**01 – 03 September 2023
Safari-Park Hotel, Nairobi**

Convenors: Kenya Meteorology Department, SEI, NEMA Kenya

Moderator: Ann Kingiri, Africa Center for Technology Studies (ACTS)

Panel

- Patricia Nyinguro, IPCC Focal Point for Kenya, Kenya Meteorology Department
- Nana Ama Browne Klutse, IPCC WG1 Vice Chair/Associate Professor and Head of Department of Physics, University of Ghana
- Linda Ogallo, IGAD Climate Prediction and Application Center (ICPAC)

Geo-engineering and Solar Radiation Management – understanding the concept

Solar radiation modification (SRM) – also discussed in the context of [geoengineering](#) – is part of a set of climate mitigation technologies that may be used to protect the earth from the advanced stages of global warming ([IPCC 2021](#))

- The technologies modify the amount of radiation coming to the earth from the sun through various techniques like stratospheric aerosol injection & marine cloud brightening.

Perceptions:

- SRM does not solve the greenhouse gas emissions problem but could mask and temporarily reduce its dire effects on the planet.
- SRM offers a very attractive, but temporary, solution to global warming and climate change, since it requires less radical behavioural change and economic adjustment than other solutions.

Geoengineering and Solar Radiation Management in the context of Africa

Africa is particularly vulnerable to climate change

- What does SRM offer to Africa's climate challenge?
- What are the opportunities and challenges?

Geoengineering and Solar Radiation Management in the context of Africa cont'd

SRM research, innovation and deployment

- what is possible impact on African communities and on the future of different local ecosystems?
- Who should fund SRM research, what kind of funding etc?
- What kind of capabilities/capacities are needed?
- How should SRM pathways be reconciled with other initiatives like aspirations by private and public sectors to accelerate greater use of safe, reliable and existing climate mitigation technologies such as renewable energies and energy efficiency measures?

SRM Governance/policy etc

- The global community has been unable to govern climate change to ensure compliance with internationally agreed goals. Would a focus on SRM worsen the African ambition towards carbon neutrality?
- What are the ethical considerations around locking in future generations into a potential dependence on SRM technologies?
- How should Africa economies and stakeholders in the Climate change ecosystem be included in decisions about the deployment of these technologies that could have positive or unintended consequences?
- What other issues should we think about? – local content, just transition, inclusive financing, innovation, training, policies, monitoring and evaluation etc?

Open Discussion

- Thoughts about the topic from the panellists in connection with their expertise and/or role in their organizations in Climate Change discourse
- Open discussion (from all participants)
- Closing remarks