

Sanitation and climate: assessing resilience and emissions (SCARE)

The challenge

Nearly half the world's population use on-site sanitation – septic tanks, pit latrines, and other containments. On-site sanitation systems are vulnerable to the impacts of climate change and they are also a source of the greenhouse gases that cause climate change, and in particular methane. But currently we don't know how much greenhouse gas gets emitted and what impact different seasons and operation have on emissions.

Mission

SCARE is a four-year project funded by the Bill and Melinda Gates Foundation. It focuses on two inter-related challenges of climate change: the scale of greenhouse gas emissions from on-site sanitation systems; and the resilience of sanitation services to climate change.

Our objectives and methods

Working with local stakeholders, government, and policy makers field research and policy engagement will take place in:

South Asia (Nepal)

East Africa (Ethiopia and Uganda)

West Africa (Senegal)

The SCARE project is developing a range of tools and methods for assessing emissions and resilience. As these are developed and tested, we will make these available on our website.



SCARE partners

University of Bristol, UK (School of Civil
Aerospace and Mechanical Engineering)

University of Leeds, UK (School of Civil
Engineering)

University of Technology Sydney, Australia
(Institute for Sustainable Futures)

Kathmandu University, Nepal (Aquatic Ecology
Centre)

Haramaya University, Ethiopia (College of
Health and Medical Sciences)

Kyambogo University, Uganda (Dept. of
Building and Civil Engineering)

Global Green Growth Institute (GGGI),
Ecole Polytechnique de Thies, |Senegal

Who we are

SCARE is an international multi-disciplinary consortium of seven partner institutions, who are combining fundamental research into sanitation and climate to develop resilient and sustainable services that protect public health.

Main contacts

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