



EVIDENCE REVIEW: CLIMATE CHANGE MITIGATION INTERVENTIONS IN THE PRIVATE SECTOR

OBJECTIVES

To effectively allocate limited resources, the Green Climate Fund (GCF) must use evidence-based decision making. This study is producing an evidence review – in the form of an evidence gap map, intervention heat map and a meta-analysis – on private sector mitigation interventions in developing countries. The review will assist the GCF in making evidence-based decisions on mitigation projects.

WHAT ARE EVIDENCE REVIEWS? WHY ARE THEY USEFUL?

An evidence review is a comprehensive collation, analysis, and presentation of evidence. This review on climate change mitigation will present evidence in three formats:

- An evidence gap map (EGM)
- An intervention heat map (IHM)
- A meta-analysis

EGMs depict high-quality evidence – or the lack thereof – across sectors and for a given topic. A matrix comprised of interventions and outcomes displays pieces of evidence. The review will use an EGM to

identify clusters of evidence and evidence gaps across various climate change mitigation interventions. It will subsequently use the same framework to show the areas financed by the GCF. The EGM will also provide the foundation for a more focused synthesis. Specifically, the review will aim to systematically examine areas of the EGM that have an abundance of relevant causal studies.

THE RATIONALE FOR THIS EVIDENCE REVIEW

Current nationally determined contributions will be insufficient to halt global greenhouse gas (GHG) emissions and limit subsequent warming. Therefore, increased investment in climate change mitigation is crucial to bridging the gap between actual and required global investment levels. The private sector – both alone and with public entities – can meaningfully contribute to climate change mitigation initiatives. This is especially true in developing countries where GHG emissions are expected to rise and public finance is insufficient to meet mitigation targets. However, evidence is needed to inform investment strategies to ensure the greatest climate and financial returns.



METHODS

This evidence review will collate evidence conforming to the following Population, Intervention, Comparison and Outcome criteria:

- **Population:** Interventions conducted in developing countries under market conditions. These interventions must involve private sector agents (e.g. households, private companies) who own the main intervention asset or provide a financial intermediation service.
- **Intervention:** Climate change mitigation interventions that have the potential to directly or indirectly reduce GHG emissions. The review will group interventions into eight pre-defined sectors: energy, industry, transport, waste management, building, urban planning, agriculture and forestry.
- **Comparison:** Studies must have a clearly defined comparison group for the evaluation of the intervention.
- **Outcome:** The review will include outcomes that assess the effectiveness and efficiency of climate change mitigation interventions. It will partition outcomes into three categories:
 - **Intermediate outcomes:** Energy consumption and generation patterns, behaviour change and other intermediary outcomes.
 - **Final outcomes related to GHG emissions:**

Potential for avoidance, reduction, sequestration or capture and storage of GHG emissions.

Efficiency improvements.

- **Co-impacts:** Positive or negative environmental, health, financial, social and employment effects of the intervention.

The evidence review is considering systematic reviews, in addition to experimental and non-experimental designs. It will include peer-reviewed and grey literature published in 2005. The review will also include studies written in English, French, Spanish, and German, provided they contain an English title and abstract.

CONTRIBUTION

This review will be the first to investigate the evidence base on climate change mitigation interventions undertaken by the private sector in developing countries. It will contribute to the evidence base by:

- Permitting private sector entities to make informed decisions on climate change mitigation investments;
- Allowing analogous climate finance institutions to leverage lessons learned on the effectiveness and efficiency of various climate change mitigation interventions; and
- Providing policymakers with evidence to make informed decisions.

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