

Review of: "Raising Adaptive Capacity to Climate Change in the Energy and Food Sectors of Egypt"

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Potential competing interests: No potential competing interests to declare.

Topic: You could consider fine-tuning it to "Enhancing Climate Change Adaptive Capacity in the Energy and Food Sectors of Egypt."

Shift the funding and potential competing interest statements to the end of the paper before the reference list.

Abstract:

Need to rewrite it. Key components that should come out in the abstract are the importance of the energy and food sectors, research gap, aims of study, methodology used for the study, a snapshot of key findings, and some recommendations.

Climate change "will likely" is not a correct statement, as many empirical studies have already proven the negative effects of climate change. Kindly edit and specify what the actual impacts have been.

Example

Climate change has impacted food security and energy sectors globally, regionally, and locally. The increases in temperature, variability in rainfall patterns, and reduced rainfall have negatively affected productivity, leading to a decrease in food availability, reduced access to food, and low food quality. Climate change has also had an impact on the energy sector such as A gap, however, exists in the adaptive capacity in the food and energy sectors, and this study aims to fill this gap. Data was collected through Findings show that The study recommends

Shifting name and ORCID ID to below the title. Only key words come after the abstract.

Introduction: Start by highlighting the importance of the food and energy sectors in Egypt, giving metrics (GDP contribution, export contribution, food security, etc.), followed by highlighting how climate change has affected these two sectors. The second paragraph delves into the importance of enhancing adaptive capacities of food and energy sectors, highlights the research gap, and then states the aims of the research.

The Objective of the Paper: Not clear. The overall objective statement is too long. It should speak to the topic. There is no need for citations in an objective.

Example based on your topic: To identify and assess the adaptive capacities of Egypt's energy and food sectors to

climate change, and develop strategies for enhancing their resilience and adaptive capacity.

Data Sources and Methodology:

Need to add more information. You dwelt more on the analytical framework/model. You indicated data was obtained from the Ministry of Agriculture and Ministry of Energy (Is it an impact assessment survey done annually or what, collected at what scale, i.e., national or a number of districts, sample sizes of the data sets, collected when, data sets covered what components in summary). Add more flesh to the data collection and, if possible, indicate a map of study sites.

Results

2.1. Egypt's Sources of GHG Emissions: Very short paragraph. What is the purpose of this paragraph? Reconsider and maybe shift to an appropriate sector. OR Discuss the implications of GHGs on energy sources and agriculture. Estimates are for 1990; what are the current GHG emissions now? That information is very important; I'm sure more data was collected between 1990 and 2024.

Your results sections should speak to the topic (adaptive capacities in the food and energy sector).

There is a need for sections to discuss adaptive capacities in the food sectors from the collected data (what are the levels of e.g., crop and livestock diversification, integrated water and even pest management, sustainable intensification farming practices, post-harvest handling, crop varieties, livestock breeds, etc.).

For the energy sector, discuss the same as above (how the transition to renewable energy sources (solar, hydro, wind, etc.), energy efficiency levels, energy storage solutions (batteries, etc.), decentralised energy systems (mini-grids, off-grid solutions), climate-resilient energy infrastructure, research and development on climate-resilient energy technologies).

What is the status of the adaptive capacities (adoption and scale)? What are the drivers and barriers to adaptive capacities? As it is, your results section concentrated mainly on the impacts of climate change.