ASIA LOW CARBON BUILDINGS TRANSITION

Life Cycle Assessment for Transitioning to a Low-Carbon Economy | **PROJECT IN CAMBODIA**

Project Location:	Asia / Cambodia
Project Period:	August 2023 ~ August 2028
Project Funding:	EUR 19.3 million (Cambodia: EUR 3.6 million)
Theme:	Green Buildings, Green Investment, Climate Action and Sustainable Energy
Project Code:	ROA035 (Cambodia)

Project Summary

The Asia Low Carbon Buildings Transition (ALCBT) Project seeks to significantly reduce GHG emissions by catalyzing nationwide transitions towards low carbon buildings in Cambodia, India, Indonesia, Thailand and Vietnam.

In **Cambodia**, the project will be implemented in Phnom Penh, the capital and most populous city. The Project will conduct assessments, develop tools, and measures for low carbon buildings mainly for Phnom Penh, which can be replicated in other cities of Cambodia.

The project is being implemented in partnership with the Ministry of Land Management, Urban Planning and Construction.

Project Goal and Objectives

The five-year multi-stakeholder project aims to facilitate the nationwide transition toward Low Carbon Buildings (LCB) in Cambodia. The project aims to ensure that technical, planning and institutional tools for LCB are successfully implemented and streamlined by key public and private stakeholders, resulting in direct emission reductions.

Standardized tools and systems for managing building carbon emissions

Enhanced capacity of key stakeholders to deliver low carbon buildings

Financial pathways established for low carbon buildings transition

Knowledge products produced to facilitate **replication and scaling up**

Implementing Partners

Lead:

Government Partner

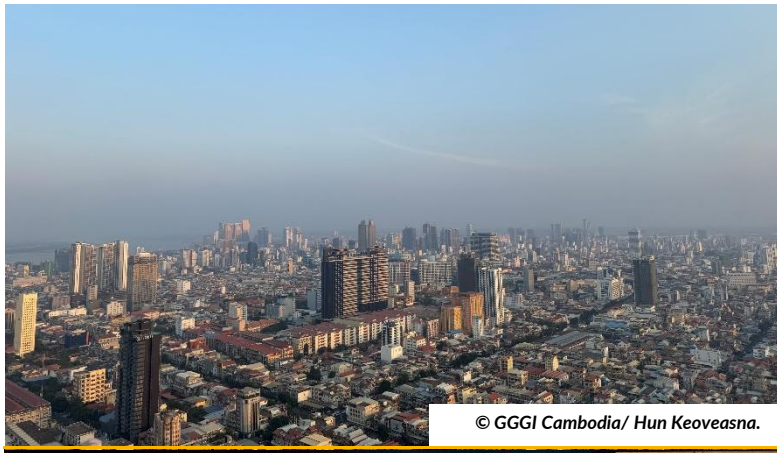
Resource Partners

Supported by:

Federal Ministry for Economic Affairs and Climate Action

on the basis of a decision by the German Bundestag

IKI INTERNATIONAL CLIMATE INITIATIVE



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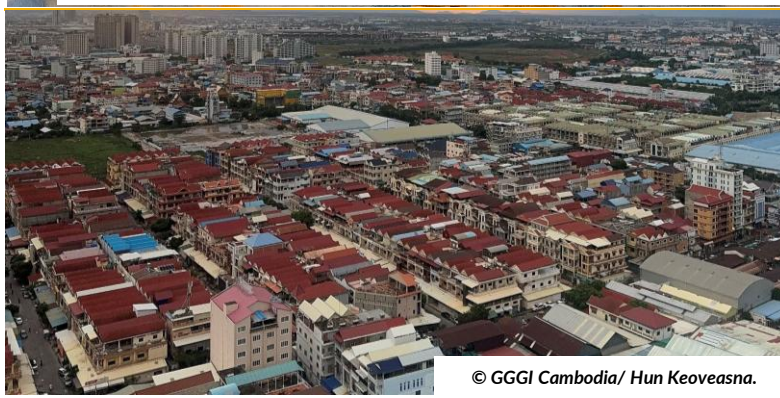
Launch of the ALCBT project in Cambodia, May 8, 2024. © GGGI Cambodia/ Bun Chan.



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Context and Background

The demand for building space and electricity is rising in Cambodia, a country with a rapidly expanding economy. Between 2020 and 2050, it is anticipated that the total build-up area of all buildings will rise from 200 to 600 million square meters. In 2019, buildings constituted 43% of Cambodia's energy consumption, according to the National Energy Efficiency Policy 2022 – 2030 (NEEP).

The Royal Government of Cambodia (RGC) has set the national target of reducing energy consumption by 34% and 25% in residential and commercial buildings by 2030, respectively, in the NEEP.

The NEEP has identified main energy-saving opportunities through minimum energy performance standards for appliances and equipment and building energy codes. Further, the RGC has identified buildings as a major sector for energy saving and greenhouse gas emissions reduction in the updated Nationally Determined Contribution, the Long-Term Strategy for Carbon Neutrality, National Cooling Action Plan, and other policy documents.

Despite the policies in place, embracing low-carbon development in buildings still faces several challenges, ranging from policy and capacity gaps and financial instruments for low-carbon buildings transition in Cambodia.

The total floor area of all buildings will rise from 200 to 600 million square meters by 2050.

Project Outcomes in Cambodia

By 2028, technical, planning, and institutional tools for LCB will be developed and successfully implemented by key public and private sector stakeholders in Cambodia.

1.67 M tCO_2eq
GHG emission reductions for all 5 countries

8 entities
incorporating LCB tools, training programs

2 policy recommendations
will be adopted by governments

EUR 20 million
investment will be mobilized

1200+ buildings
will be assessed, registered, piloted with natural based air-conditioners

470+ individuals
with increased knowledge, low carbon skills

H.E. Say Samal, Deputy Prime Minister and Minister of Land Management, Urban Planning, and Construction, Cambodia

"While Cambodia is relatively new to green building concepts, we recognize the opportunity for eco-friendly and energy-saving in building and construction sector. This could boost growth in the sector and contribute to Cambodia's commitment to achieve carbon neutrality in 2050 under the Paris Agreement under the United Nations Framework Convention on Climate Change. Therefore, this project will be instrumental in developing the Low Carbon Tool to support this vision."

Learn more at **http://alcbt.gggi.org**

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