



Energy and resource efficient buildings

Vietnam – Building Transition

With its over 3,000 kilometers of coastline, Vietnam spreads across two climate zones. Due to this exposed geographic position, Vietnam has been listed by the World Bank as one of the five countries most vulnerable to the impacts of climate change in the coming decade. Increasing energy consumption, rising CO₂ emissions and a rapidly advancing urbanisation rate pose additional challenges to Vietnam's booming economy. To meet these challenges, the Vietnamese government is striving to create the necessary conditions to enable sustainable economic growth in line with the 2030 Agenda. Increasing the country's resource and energy efficiency has been given one of the highest priorities.

Background

In 2019, the Vietnamese government launched the National Energy Efficiency Program. Together with the Power Development Plan 8 (PDP8), the program aims to increase energy efficiency in all areas of life and the economy.

The building sector, which was already responsible for 30 percent of final energy consumption in 2015, plays a key role in the country's efforts to increase energy efficiency. Rapid urbanisation and climate-induced migration to urban areas are only further increasing Vietnam's housing construction. To compensate the intensive construction activities, ensure building resilience, and address the increasing shortage of building materials, the implementation of energy efficient and sustainable standards, materials and construction technology is necessary. However, due to the lack of energy efficient building standards and the insufficient expertise among contractors, the implementation of such measures remains limited.

With the project "Vietnam – Building Transition", the German Energy Agency (dena), as an experienced actor in the field of energy efficient construction, supports the country in increasing energy and resource efficiency in its domestic building sector.

„Vietnam – Building Transition“: Practical Tools for Creating Buildings of the Future

Project Structure

The project is being carried out by dena on behalf of the Federal Foreign Office and in cooperation with the Consulate General of the Federal Republic of Germany Ho Chi Minh City (HCMS).



In the execution of the project, dena is supported by a local partner, the Vietnamese-German University (VGU).



The Federal Foreign Office and the Consulate General identified the need to increase energy efficiency in the building sector in Ho Chi Minh City and the neighboring province of Binh Duong to be particularly strong. Given this, the project focuses on the practical implementation of a number of measures in this region.

The planned duration of the project is one and a half years: from June 2021 to December 2022. During this time, the following measures will be implemented in three work packages:

■ Studies

With the support of selected academic institutions, two studies on "Sustainable Building Materials" and "Cooling from Renewable Energies" will be conducted. The results will then be presented as part of an accompanying public relations works and be used to develop building standards as well as local and transregional expertise.

■ Building Standards

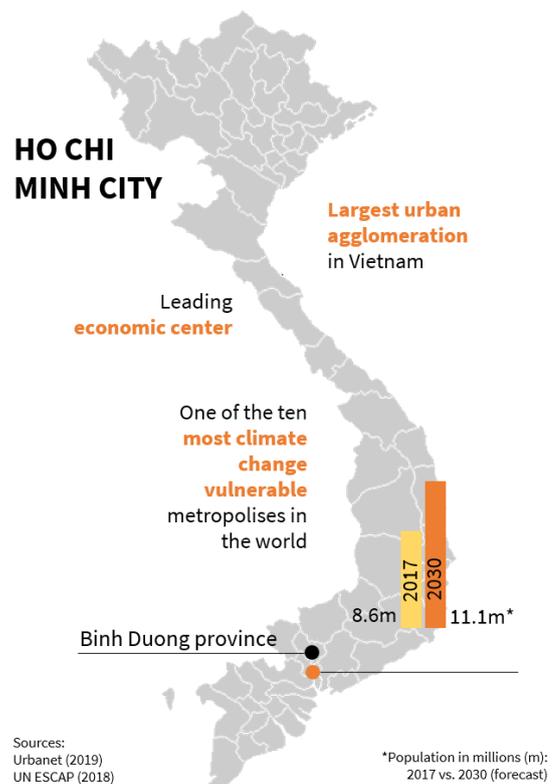
The project comprises the development of a building standard concept for Binh Duong province and the accompaniment of a local flagship project. Dena is also responsible for project communication, the incorporation of relevant stakeholders and the conception and implementation of technical trainings and workshops.

■ Local Support

The involvement of the VGU enables the combination of regional and international experiences. It also ensures smooth communication with Vietnamese stakeholders and facilitates the implementation of physical events and technical support for the developers on site.

Creating Structures for Energy Efficiency

In the course of this project, relevant stakeholders in the Ho Chi Minh City metropolitan region will be enabled to develop and implement strategies for energy efficiency and climate protection measures in the building sector. The established know-how is set to create a multiplier effect and lead to a general increase in Vietnam's resource and energy efficiency. In this way, the project also supports the global energy transition and contributes to the worldwide fight against climate change. In addition, the successful implementation of this project is expected to strengthen the German-Vietnamese cooperation.



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