



ASEAN Cooling: Energy Efficiency and Climate Mitigation in Sectors with High Cooling Demand

Background

The ASEAN region represents around 650 million people and an economic region with an annual growth rate of approximately 5%. This is accompanied by a continuous increase in greenhouse gas (GHG) emissions, mainly due to the high consumption of electricity that is growing by 6% annually. For a region with rapid urbanization and a warm tropical climate, the demand for cooling is so high that in summer about half of the electricity consumption is attributable to the use of cooling technology. The large, fast-growing member states Indonesia, the Philippines, Thailand, Vietnam and Malaysia are particularly significant here.

Improving energy efficiency of the cooling systems is key to supporting the ASEAN Member States to meet their soaring electricity demand. However, important conditions for increasing energy efficiency and reducing greenhouse gas emissions in sectors with high cooling demand are not yet in place in ASEAN Member States. Industries and companies with high cooling demand offer great potential for the implementation of energy efficiency measures and the use of climate-friendly cooling technologies.

The Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH received funding from BMZ to implement the project **ASEAN Cooling: Energy Efficiency and Climate Mitigation in Sectors with High Cooling Demand** with the objective of supporting ASEAN and its member states in mitigating GHG emissions in sectors with high cooling demand in the region, which include food and beverage and data centres.

-  **Project name**
ASEAN Cooling: Energy Efficiency and Climate Mitigation in Sectors with High Cooling Demand
-  **Commissioned by**
German Federal Ministry for Economic Cooperation and Development (BMZ)
-  **Project region**
ASEAN region with pilot measures in Indonesia, the Philippines, Thailand and Vietnam
-  **Lead executing agency**
Association of Southeast Asian Nations (ASEAN)
-  **Duration**
December 2024 – November 2028

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Collaboration

The project collaborates with the Energy & Minerals Division of the ASEAN Secretariat, who serves as the project's main partner, and works with the ASEAN Centre for Energy, relevant national public institutions and private sector associations to bring about the desired results, driving the region's sustainable energy transition.

Objective

The project aims to improve the political, regulatory, and entrepreneurial conditions for enhancing energy efficiency and reducing greenhouse gas emissions in sectors with high cooling demand across ASEAN Member States, aligning with the goals of the ASEAN Plan of Action for Energy Cooperation (APAEC).

Approach

To advance energy efficiency and climate mitigation in sectors with high cooling demand, the project will support the implementation of activities in the following areas:

Development of regional strategies and knowledge exchange among public institutions on measures for improving the framework conditions to foster investments in energy efficiency, climate-friendly cooling technology and photovoltaic systems that partially cover their electricity consumption.

Support to national public institutions for improving the framework conditions for GHG mitigation measures in sectors with high cooling demand in member states with significant energy consumption for cooling.

Support to the private sector for the implementation of GHG mitigation measures in sectors with high cooling demand.

Regional exchange and knowledge dissemination of GHG mitigation measures in sectors with high cooling demand for the private sector.

To this end, the project supports the ASEAN member states in implementing selected measures of the ASEAN Plan of Action for Energy Cooperation (APAEC), the ASEAN strategy for carbon neutrality, and national energy policy.

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