



East Asia Solar Air Conditioning Modification Program





Overview

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Air conditioners (ACs) represent close to 50% of household electricity consumption in ASEAN (Association of Southeast Asian Nations). Currently, the market share of ACs with an energy efficiency ratio (EER) at or above 3.2 (which is China's EER for Minimum Energy Performance Standard/MEPS) is only.

This study was prepared for the project of "Promotion of Higher Efficient Air Conditioners in ASEAN through Harmonisation of Standards and Strengthening of Market Verification and Enforcement Capabilities (Phase I)" which supported by the Government of Japan through the Japan-ASEAN Integration Fund.

The 8 th ASEAN Energy Outlook (AEO8) projected that energy consumption from air conditioning will surge to 35.5 million tonnes of oil equivalent (MTOE) by 2050, covering about a quarter of energy demand in the building sector, encompassing both commercial and residential building. This presents.

Space cooling is the fastest-growing use of energy in buildings globally and in the Association of Southeast Asian Nations (ASEAN). Electricity use for cooling in buildings across the region has increased dramatically over the past decades. Yet today, only 15% of households in Southeast Asia have.

The project ACT MEPS seeks to institutionalize national standards on green cooling technology in Vietnam and the Philippines. The project started in September 2023 and will proceed until February 2026. The major part of the substantial energy consumption and greenhouse gas emissions in Southeast.

ASEAN SHINE, the Best and Effective Platform for EE Initiative in ASEAN, is a public-private partnership between the United Nations Environment Programme (UN Environment) and the International Copper Association (ICA). It is in direct support



of the United for Efficiency (U4E) Initiative which is a.



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Panasonic Group's largest solar power generation system set for

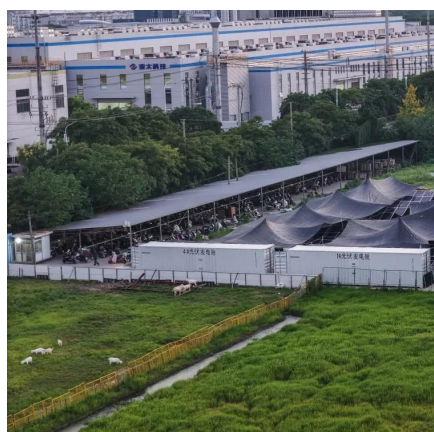
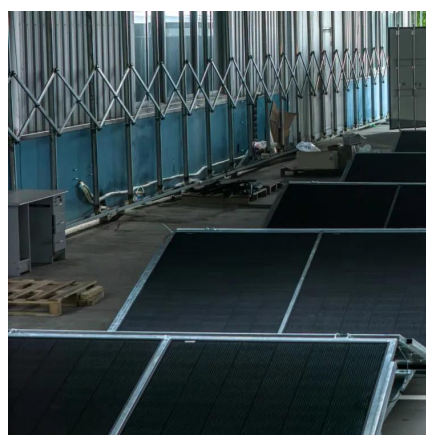
In this initiative, 9,461 solar panels were installed mainly on the rooftops of air conditioner factories to activate the solar power generation system, which visualizes the ...

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ASEAN region is not only experiencing the fastest economic growth but also exhibiting an unprecedented surge in demand for cooling, driven by economic development ...

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The ASEAN SHINE project sought to phase out energy inefficient ACs and increase the market share of more highly efficient ACs within the ASEAN (Association of Southeast Asian Nations) ...



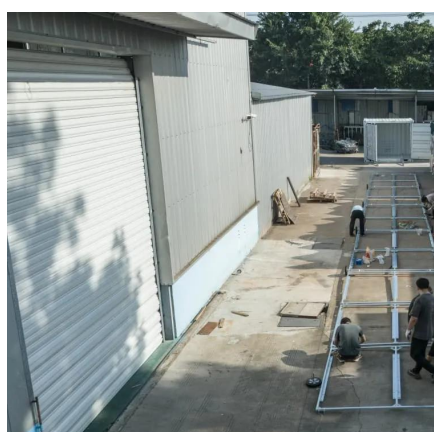
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Air Conditioning Transformation through Energy Performance ...

The project started in September 2023 and will proceed until February 2026. The major part of the substantial energy consumption and greenhouse gas emissions in Southeast Asia (SEA) is ...

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[Recommendations for Updating the ASEAN Regional Policy ...](#)

Update National and Regional Policy roadmaps to promote higher efficiency air conditioners and include timetable to increase minimum energy performance standard (MEPS) over time; and, ...

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ASEAN SHINE Brochure 4pp WEB

The project aims at increasing the market share of higher efficient air-conditioners through harmonization of test methods and energy efficiency standards, adoption of common Minimum ...

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[Roadmap towards Sustainable and Energy-Efficient Space ...](#)

It sets ambitious milestones for space cooling technologies, including air conditioners and fans, that can help guide the ambitions outlined in this roadmap and ...

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Energy, Environmental, and



Economic Feasibility Assessment of Solar

For a comprehensive evaluation, solar absorption cooling (SABC) and vapor compression cooling systems are selected as reference systems. Energy, environment, and ...

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