



EQACC SOLAR

ASEAN Solar Air Conditioning and Ventilation



Overview

How much energy does air conditioning use in ASEAN?

According to the ASEAN Centre for Energy's 8th ASEAN Energy Outlook, air conditioning alone is expected to consume over 29.7 million tonnes of oil equivalent (Mtoe) of energy by 2050, or almost 40% of the energy required by the region's commercial sector.

How many air conditioners are in the ASEAN region?

Today, the ASEAN Regional Policy Roadmap for Energy Efficient Room Air Conditioners (2022-2025) indicates that Air conditioner ownership in the ASEAN region is projected to increase significantly, with estimates suggesting that the number of units will grow from nearly 50 million in 2020 to approximately 300 million by 2040.

Will inverter RAC grow in ASEAN?

The Lawrence Berkeley study, which assumes that demand for air conditioning in tropical regions like ASEAN is relatively non-elastic (meaning demand remains stable despite price changes), reveals that increasing adaptability to higher efficiency standards will push manufacturers towards inverter RAC for considerable growth.

Why does Southeast Asia need air conditioners?

The need for cooling is expected to increase dramatically as Southeast Asia's economy grows faster and temperatures continue to rise. In an effort to achieve thermal comfort, which is believed to improve well-being and productivity and, consequently, overall quality of life, more and more buildings are installing air conditioners.

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Hybrid solar air-conditioning for tropical regions: integrating ...

A 5 kW hybrid solar-powered air conditioning system is proposed to meet a building's cooling needs. Integration of salt hydrate-based phase change materials (PCM) with ...

Executive summary - Roadmap towards ...

Electricity use for space cooling in buildings in ASEAN has grown rapidly over recent decades to around 80 TWh in 2020 - seven ...

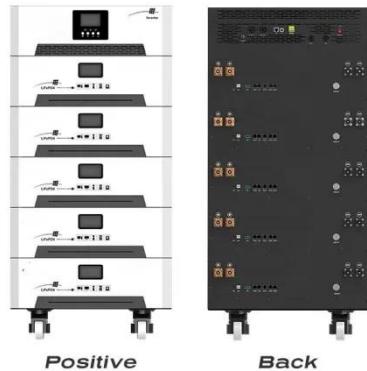


Driving Passive Cooling Implementation ...

Figure 1. Comparison of Green Building Certification A comparison table (see image above) of the certifications used in several ...

Recommendations for Updating the ASEAN Regional ...

The report also received significant reviews and inputs from EE& C-SSN Focal Points of ASEAN member states, Bintang Dwita Widhana, Adhityo Gilang Bhaskoro, Rizky ...



Solar PV-powered Room Air Conditioning: Market trends ...

The objective of this paper is to further unfold the technical and economic potential of solar PV-powered green air conditioners. Therefore it focuses on single split-type air ...



ASEAN's Path to Harmonised Air Conditioner Standards: ...

The Lawrence Berkeley study, which assumes that demand for air conditioning in tropical regions like ASEAN is relatively non-elastic (meaning

demand remains stable despite ...



ASEAN'S KEY ENGINEERING HVAC

Exhibit Profiles HVAC & R Equipment and Services (Membranes, Fittings, Insulations, Testing & Control) Air-Conditioning System & Equipment Air Flow, Air Filtration, ...



Asia Solar Air Conditioning Market Size and Forecasts 2031

Key Findings The Asia Solar Air Conditioning Market is witnessing rapid growth as demand for energy-efficient and sustainable cooling solutions rises across residential, commercial, and ...

Solar PV-powered Room Air Conditioning: ...

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2026 ASEAN (Thailand) Refrigeration, Air Conditioning, Ventilation ...

RACC ASEAN will center on core technologies spanning refrigeration, air conditioning, ventilation, cold chain, thermal management for data centers and energy storage. It will comprehensively ...

Analysis of carbon reduction of photovoltaic-driven air conditioning

...

The 3060 decarbonization goal of China, targeting peak carbon emissions by 2030 and carbon neutrality by 2060, emphasizes reductions in carbon emissions from various sectors, ...



2026 ASEAN Refrigeration, Air Conditioning, Ventilation and ...

On the afternoon of August 7th, 2025,



the 5th International Air Conditioning, Heating, Ventilation, Refrigeration, and Cold Chain Expo (Hereinafter referred to as RACC ...

The 16th Asia-Pacific International Refrigeration, Air Conditioning

The 16th Asia-Pacific International Refrigeration, Air Conditioning, Ventilation, and Cold Chain Technology Exhibition (APRE) will be exhibiting at the ASEAN HVAC & Cleanroom Industry ...



Asean M& E

ASEAN's Premier Mechanical & Electrical Engineering Show (ASEAN M& E) presents the region's five leading expos namely REVAC (Southeast Asia's premier ...

Executive summary - Roadmap towards Sustainable and ...

Electricity use for space cooling in buildings in ASEAN has grown rapidly over recent decades to around 80 TWh in 2020 - seven times the level in 1990

and close to the ...

DETAILS AND PACKAGING



2026 ASEAN SOLAR EXPO Malaysia

2026 ASEAN SOLAR EXPO Malaysia ASEAN SOLAR EXPO 2026 will be held from June 3-5, 2026 at the Kuala Lumpur Convention Centre (KLCC). As the leading green technology and ...

ASEAN Energy Efficiency Landscape for Air Conditioners

ASEAN Regional Policy Roadmap for Air Conditioners Overview Harmonizing air conditioning standards in ASEAN with CSPF 3.08 by 2020 per the 33rd ASEAN Ministers on ...



Roadmap Towards Sustainable and Energy-Efficient ...

The Roadmap towards Sustainable and Energy-Efficient Space Cooling in ASEAN focuses on the policy tools available for AMS to drive energy efficiency

improvements for ...



Driving Passive Cooling Implementation through Building ...

Figure 1. Comparison of Green Building Certification A comparison table (see image above) of the certifications used in several ASEAN Member States and international ...



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