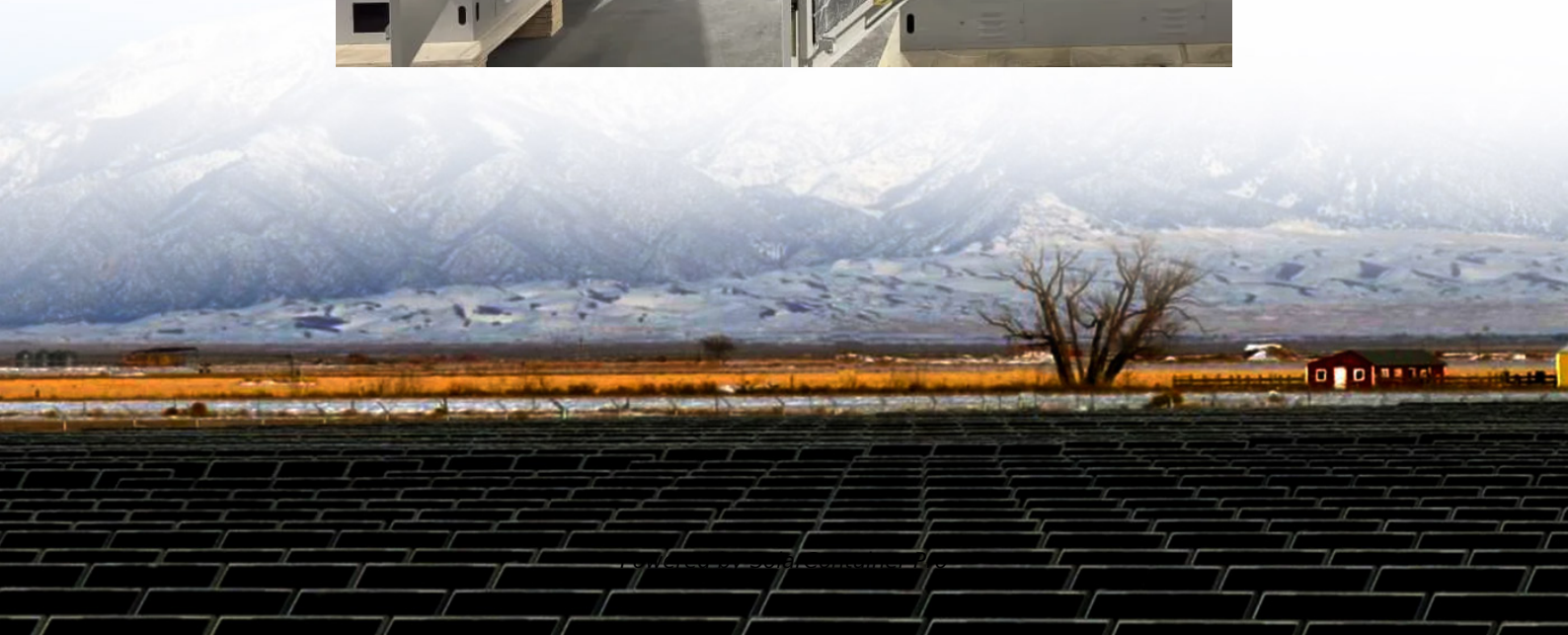


ASEAN Energy Storage Power Production





Overview

Does ASEAN need energy storage?

The ASEAN energy storage landscape is undergoing a significant transformation driven by the region's ambitious renewable energy goals and growing energy demands. The ASEAN Centre for Energy (ACE) projects the region's total final energy consumption to increase by 146% by 2040, highlighting the urgent need for robust energy storage systems.

How is ASEAN transforming its energy landscape?

The ASEAN region is witnessing a significant transformation in its energy landscape, driven by ambitious renewable energy storage targets and the need for grid modernization.

Will ASEAN keep producing and consuming affordable energy?

ASEAN will keep producing and consuming affordable energy, fuelling dynamic economic growth. However, the Member States realised that continuing the historical energy trend in the Baseline Scenario is not sustainable.

How can ASEAN leverage additional financial sources for its energy sector?

Insight #2 Market-Based Instruments for Leveraging Additional Financial Sources for ASEAN's Energy Sector: Exploring the Carbon Market in ASEAN's Energy Sector, Linking ETS with Transboundary CO₂ Transport and Storage, Energy Efficiency Carbon Credit Initiatives in ASEAN, and Renewable Energy Certificate: Complementing Carbon Credit for ASEAN.

What is the most energy-intensive industry in ASEAN?

Non-metallic minerals, consisting of cement, ceramics, glass, and lime, make up the largest share of industrial final energy demand, at 22.5% in ASEAN (Figure 4.4). Cement has a 70% to 80% share of non-metallic minerals, which makes cement the single most energy-intensive sector amongst all industries.

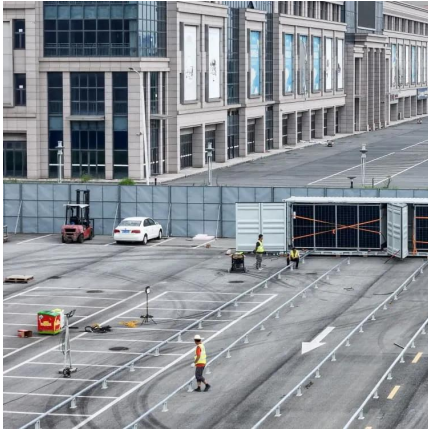


Why does ASEAN need a strong power source composition?

The reason is that historically coal has been the major fuel in the AMS' electricity generation, together with gas. It suggests that power source composition is being considered well-balanced when addressing energy demand growth within the ASEAN region.



ASEAN Energy Storage Power Production



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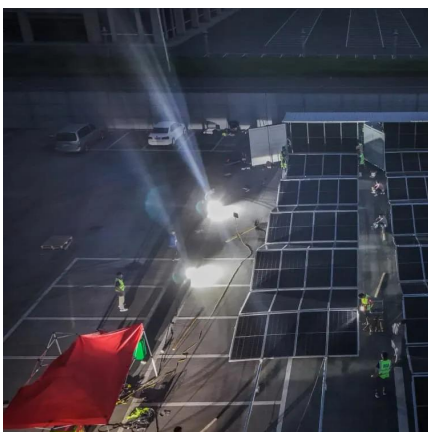
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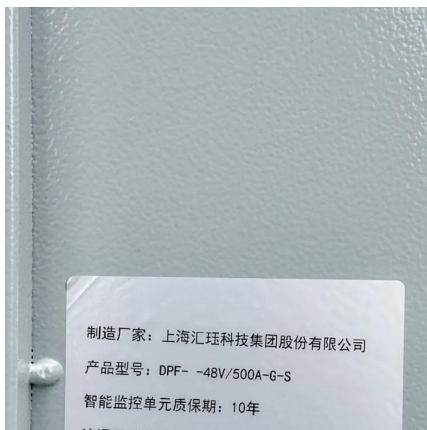
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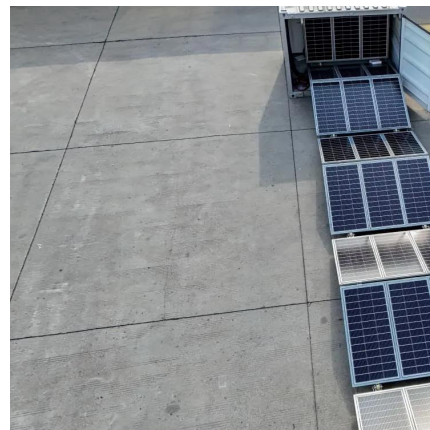
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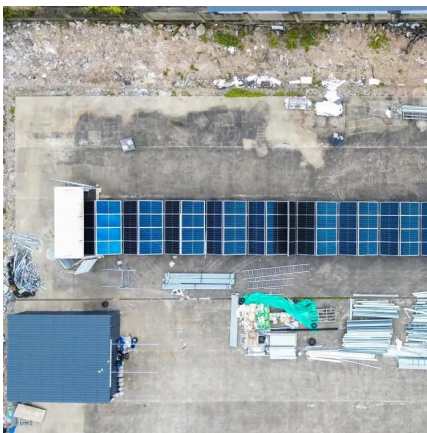




Energy Storage for Renewable Energy Integration in ASEAN ...

For the power sector, the cost of storing and then delivering each kilowatt-hour of renewable energy, which includes the cost of producing hydrogen, transporting and storing hydrogen, and ...

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ASEAN Energy Storage Market 6.78 CAGR Growth Outlook 2025 ...

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Ryan Wiratama Bhaskara Citra Endah Nur Setyawati This chapter should be cite as: Bhaskara, R.W. and C.E.N. Setyawati (2024), 'Latest Developments in Carbon Capture, Utilisation, and ...

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