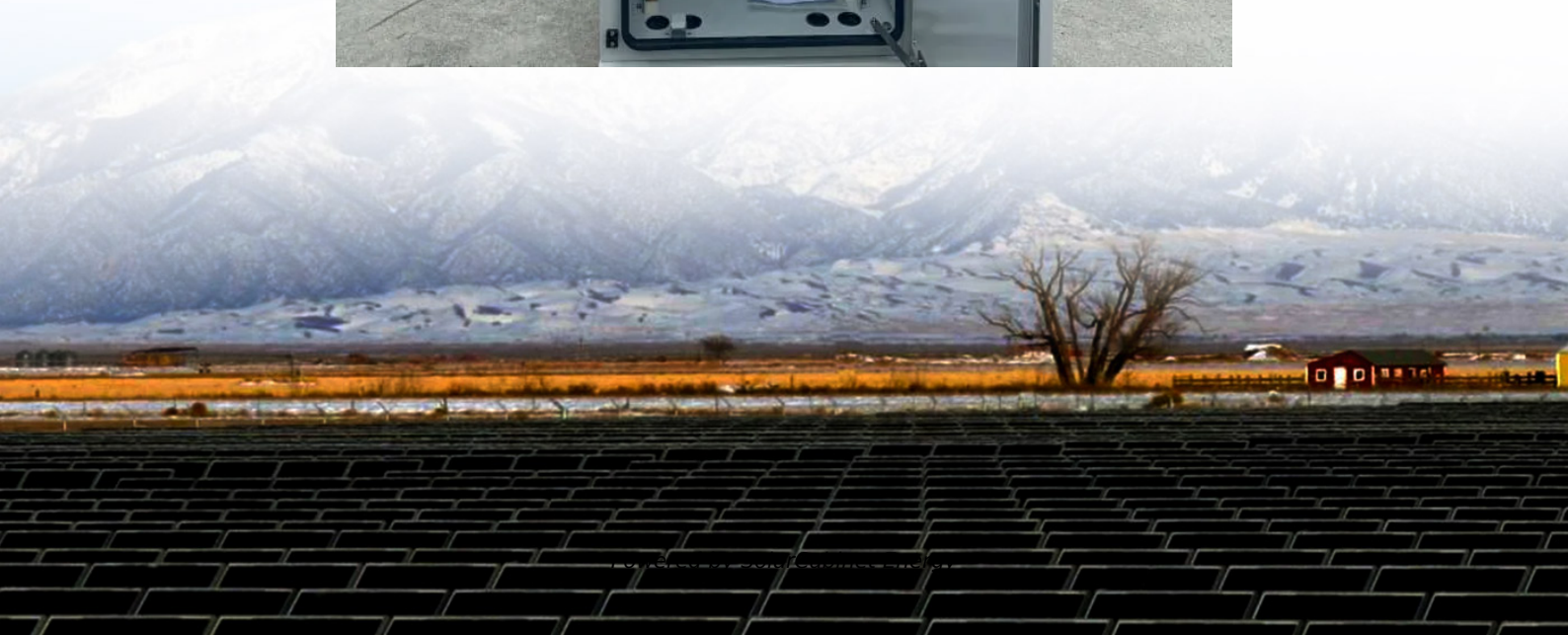


North Asia supporting wind power supply





Overview

Can Asia-Pacific build a wind energy supply chain for a 1.5°C World?

The Asia-Pacific (APAC) region's current supply chain setup is not sufficient to build enough wind projects to meet the region's net zero targets, according to Mission Critical: Building the Asia Pacific Wind Energy Supply Chain for a 1.5°C World, a new report from the Global Wind Energy Council.

What is the potential for wind energy in Asia Pacific?

The potential for clean, secure wind energy in the Asia Pacific market is huge. The Asia Pacific (APAC) region is expected to make up 61% of the new capacity built worldwide between 2024 and 2030. Total onshore wind capacity in APAC could double to 1,084 GW within the decade, with another 122 GW of potential capacity from offshore wind by 2030.

Can countries expand their wind energy supply chain?

Countries like Australia, Vietnam, South Korea, and Japan have the potential to expand their wind energy supply chain, but they face challenges such as inconsistent policies, limited investment in large-scale infrastructure, and restrictive local content requirements.

What is the wind energy supply chain in APAC?

The wind energy supply chain in APAC is a study in contrasts. China and India dominate the market, boasting robust domestic manufacturing ecosystems capable of producing turbines, blades, and associated components at scale.

Can wind energy be scaled in Asia?

The feasibility of scaling wind energy in Asia depends on several factors. Many APAC countries have abundant wind resources, particularly for offshore projects. For example, Japan and South Korea have significant offshore wind potential, while countries like Mongolia boast high onshore wind speeds.



Is wind energy a problem in APAC?

The region already accounts for 51% of the world's total wind power installations as of 2023, and this is expected to rise to 61% by 2030. However, despite this growth, the supply chain remains highly concentrated in China and India, creating potential risks and bottlenecks for the expansion of wind energy in other APAC countries.



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Several tools exist that can deliver flexibility to electricity systems and support an increasing wind power market share, notably, energy storage, demand-side response, supply-side response ...



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In the face of significant global headwinds in the sector, green shoots are emerging in 2025 for offshore wind in Asia after a turbulent 24 months. North Asia is the region's leader in this area.

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But here's the kicker: wind power without storage is like a sports car without tires. This article breaks down why energy storage isn't just



an accessory but the backbone of North Asia's wind ...



[Building the Asia Pacific Wind Energy Supply Chain for a 1.5°C ...](#)

The APAC Supply Chain report, written in partnership with ERM, is GWEC's first regional wind energy supply chain report. The report takes a deep dive into the wind energy ...

[Not just made in China: The growing offshore wind supply chain in Asia](#)

While China currently dominates the production of offshore wind components, the broader Asia-Pacific region is scaling up. Several Asian markets are now actively developing ...



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