

PIENAAR ENERGY (PTY) LTD

Power generation in Australia



Overview

The electricity sector in Australia has been historically dominated by coal-fired, but are forming a rapidly growing fraction of supply. In 2024, Australia's reached 265 TWh, with coal accounting for 52% and natural gas for 7.6%. Renewable sources, comprising solar, wind, hydro, and bioenergy with waste, collectively made up 40% of the total electricity generation mix.

Power generation in Australia



Electricity generation

Fossil fuel sources contributed 64% of total electricity generation in 2024, including coal (45%), gas (17%) and oil (2%). Coal-fired generation continued its long-term decline. Renewables contributed ...

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Energy supply

Renewable energy from sources like wind, solar and hydro provided about 29% of Australia's electricity generation in 2021. This includes both large generators and small solar PV ...



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Australia Electricity Generation Mix 2025

Australia's electricity mix includes 43% Coal, 20% Solar and 16% Gas. Low-carbon generation reached a record high in 2025.

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Australian Electricity Generation Dashboard - Now

Updated for 2024

It's been a while, but we've finally updated our Electricity Generation in Australia Dashboard with the latest data for 2024. This interactive Tableau dashboard explores electricity ...

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Electricity sector in Australia

Overview Electricity supply Privatisation Renewables Storage National Electricity Market States and territories

The electricity sector in Australia has been historically dominated by coal-fired power stations, but renewables are forming a rapidly growing fraction of supply. In 2024, Australia's electricity production reached 265 TWh, with coal accounting for 52% and natural gas for 7.6%. Renewable sources, comprising solar, wind, hydro, and bioenergy with waste, collectively made up 40% of the total electricity generation mix.

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Electricity sector in Australia

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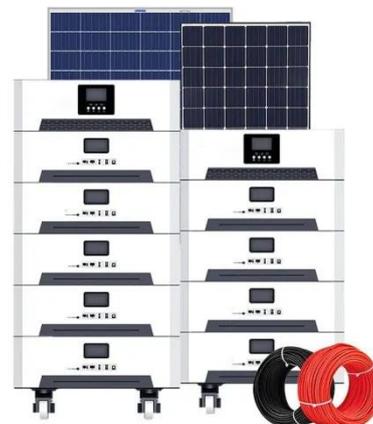
Live Australian Electricity Generation Source Statistics

Live Australian Electricity Generation Statistics: Energy Matters believes in a Zero-Carbon future; the NEM Watch Live widget shows the amount of electricity being generated in Australia's ...

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Electricity supply chain

Australia's electricity generation sector is evolving from its historic reliance on coal (black and brown) and, to a lesser extent, hydroelectricity to a more diverse mix which incorporates coal, gas and ...



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The Evolution of Australian Electricity Generation

Australia's electricity sector is experiencing one of the most significant transformations in its history, driven by the shift from fossil fuels to renewable energy sources.

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