

Facts Sheet - Important numbers when considering energy

425.4_{ppm}	Atmospheric CO ₂ concentration in 2024 an increase of 52% above a pre-industrial level of 280ppm and an increase of 3.36ppm in 2023 [1].
1.54°C	Above pre-industrial temperatures from Jan-Sept 2024, the warmest year on record [2].
2,422	Number of coal power stations in the world [3]
20	Number of coal power stations in Australia [4]
300+	Number of new coal power stations proposed to be built in China [5]
163_{MMTCO₂}	Australia's coal exports in Million Metric Tonnes (MMT), we are the second largest exporter in the world after Indonesia [6]
340_{MMTCO₂}	MMT of CO ₂ emissions from Australia's coal exports based on 1 tonne of coal producing 2.086 tonnes of CO ₂ [7]
153_{MMTCO₂}	MMT of CO ₂ emissions for electricity production in Australia. Our coal exports produce 220% of our total energy grid emissions.
76%	Percentage of global energy was from fossil fuels (coal, gas and oil), excluding biomass in 2024 [8]
5.5%	Percentage of global energy from wind and solar in 2024 [8]
3.7%	Percentage of global energy from nuclear in 2024 [8]
10%	Percentage of global electricity generation from nuclear in 2024 [8]
423	Number of nuclear power plants operating [9]
57	Number of nuclear power stations currently under construction [9]

[1] CO2 in the Atmosphere

<https://gml.noaa.gov/ccgg/trends/mlo.html>

[2] WMO – Temperature

<https://wmo.int/news/media-centre/wmo-confirms-2024-warmest-year-record-about-155degc-above-pre-industrial-level>

[3] Coal power Stations – Global

<https://www.statista.com/statistics/1448736/number-of-operational-coal-power-plants-worldwide/#:~:text=There%20are%202%2C422%20operational%20coal%20power%20plants%20in,worldwide%20coal%20power%20plants%20are%20found%20in%20China.>

[4] Coal power stations - Australia

<https://www.canstarblue.com.au/electricity/coal-fired-power-stations/>

[5] Planned increase in coal power stations in China

<https://globalenergymonitor.org/press-release/chinas-coal-power-spree-could-see-over-300-coal-plants-added-before-emissions-peak/>

[6] Australia export tonnage of coal

<https://www.spglobal.com/commodity-insights/en/news-research/latest-news/metals/122024-australia-raises-2024-25-met-coal-export-forecast-by-12-on-favorable-weather#:~:text=Australia%20has%20raised%20its%20projected%20metallurgical%20coal%20exports,the%20Department%20of%20Industry%2C%20Science%20and%20Resources%20showed.>

[7] Australia CO2 emissions from coal exports

<https://impactful.ninja/the-carbon-footprint-of-coal-energy/#:~:text=This%20means%20that%201%20ton%20of%20coal%20creates,the%20type%20of%20coal%20that%20is%20being%20burned.>

[8] Australia CO2 emissions for electricity from local coal

<https://www.dcceew.gov.au/sites/default/files/documents/australias-emissions-projections-2024.pdf>

[9] Nuclear power stations operating and under construction

<http://atominfo.ru/en/news4/d0956.htm>

