

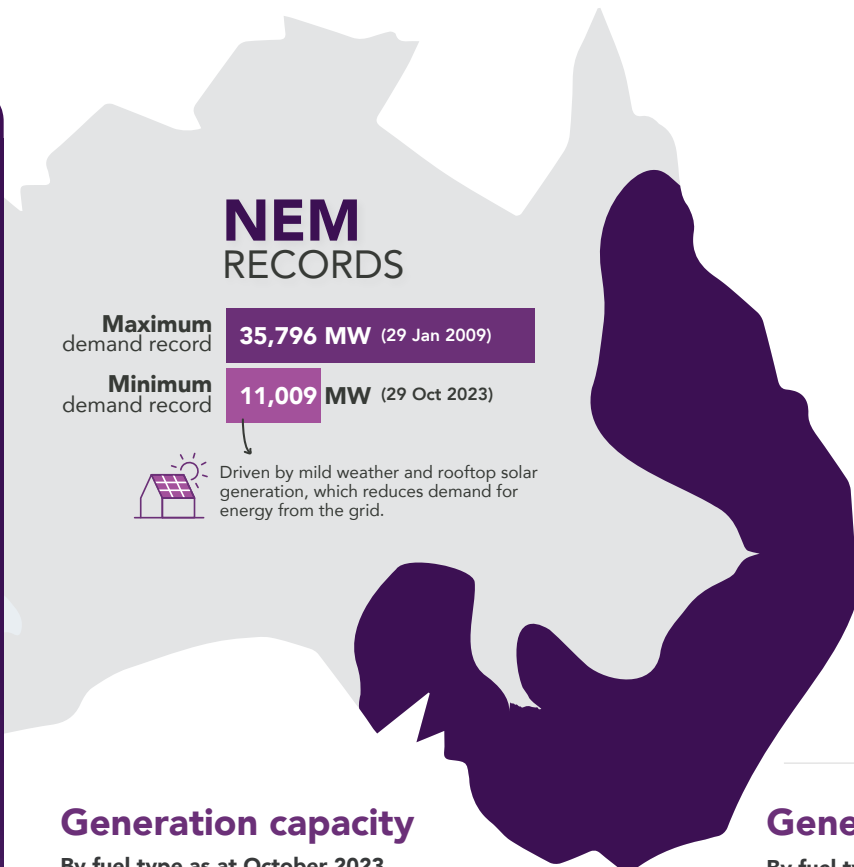
# The National Electricity Market

The National Electricity Market (NEM) operates on one of the world's longest interconnected power systems. It covers around 40,000 km of transmission lines and cables, supplying a population of 23 million.

The NEM involves wholesale generation that is transported via high voltage transmission lines from generators to large industrial energy users and to local electricity distributors in each region, which deliver it to homes and businesses.

The transport of electricity from generators to consumers is facilitated through a 'pool', or spot market, where the output from all generators is aggregated and scheduled at five-minute intervals to meet demand and to provide a better price signal for investment in faster response technologies, such as batteries and gas peaking generators.

Western Australia and the Northern Territory are not connected to the NEM. They have their own electricity systems.



## NEM RECORDS

**Maximum demand record** **35,796 MW** (29 Jan 2009)

**Minimum demand record** **11,009 MW** (29 Oct 2023)



Driven by mild weather and rooftop solar generation, which reduces demand for energy from the grid.

## NEM Facts



Commenced as a wholesale electricity market in December 1998.



More than 570 registered participants, including generators, transmission and distribution network service providers, and market customers, including retailers.



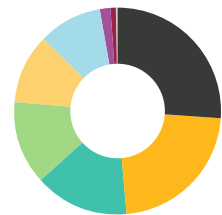
Approx 175 terawatt hours of electricity supplied to homes and businesses a year.



\$25.46 billion traded in FY22-23.

## Generation capacity

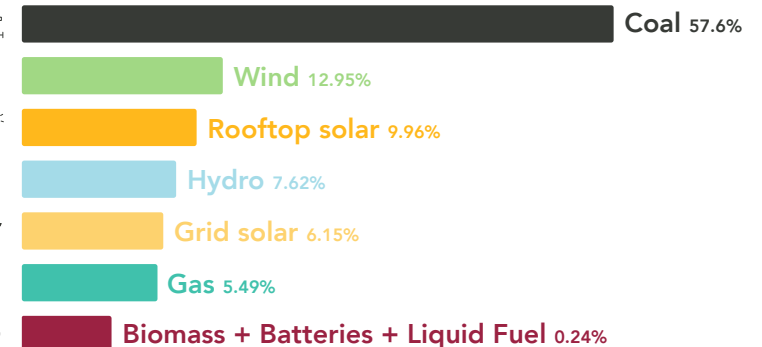
By fuel type as at October 2023



- Coal 21,255 MW
- Rooftop solar 18,000 MW
- Gas 11,924 MW
- Wind 10,582 MW
- Grid solar 8,652 MW
- Hydro 7,999 MW
- Battery storage 1,413 MW
- Biomass 542 MW
- Other 214 MW

## Generation supply mix

By fuel type from 1 July 2022 – 30 June 2023



**About us:** AEMO is the independent energy market and system operator and system planner for the National Electricity Market (NEM) and Western Australia's Wholesale Electricity Market (WEM). We are a not-for-profit company, with a membership of state and federal governments (60%) and energy industry members (40%).

**More info:** [aemo.com.au/about/who-we-are](https://aemo.com.au/about/who-we-are)