



# Electricity sector

Australia is in the middle of transformative change in the electricity sector, accelerating the transition from fossil to renewable fuels. Transformation of the electricity sector is critical to drive transition in other sectors and decarbonise the broader economy.

CSIRO's *Rapid Decarbonisation Scenario* in its *Pathway to Net Zero Emissions* report assumes that 85% of Australia's coal fired generation capacity will close by 2030.

That means that by 2030, renewable energy will need to make up more than 90% of the power mix by 2030 – tripling the share of electricity needs met by renewable sources.

To reach that target, almost all new capacity installed in the next decade would need to come from wind, solar and hydropower, supported by increased storage capacity.

Under CSIRO's *Rapid Decarbonisation* scenario:

- Solar capacity is projected to grow four-fold and its share of electricity supplied to triple to over 30% by 2030.
- Wind capacity is projected to grow more than five-fold and the share of electricity supplied more than four-fold to 45% by 2030.
- Together with storage through pumped hydro and batteries, solar and wind make up almost 85% of electricity total by 2030.

To enable a shift to solar and wind as predominant electricity sources, a large investment in energy storage and electricity infrastructure is projected.

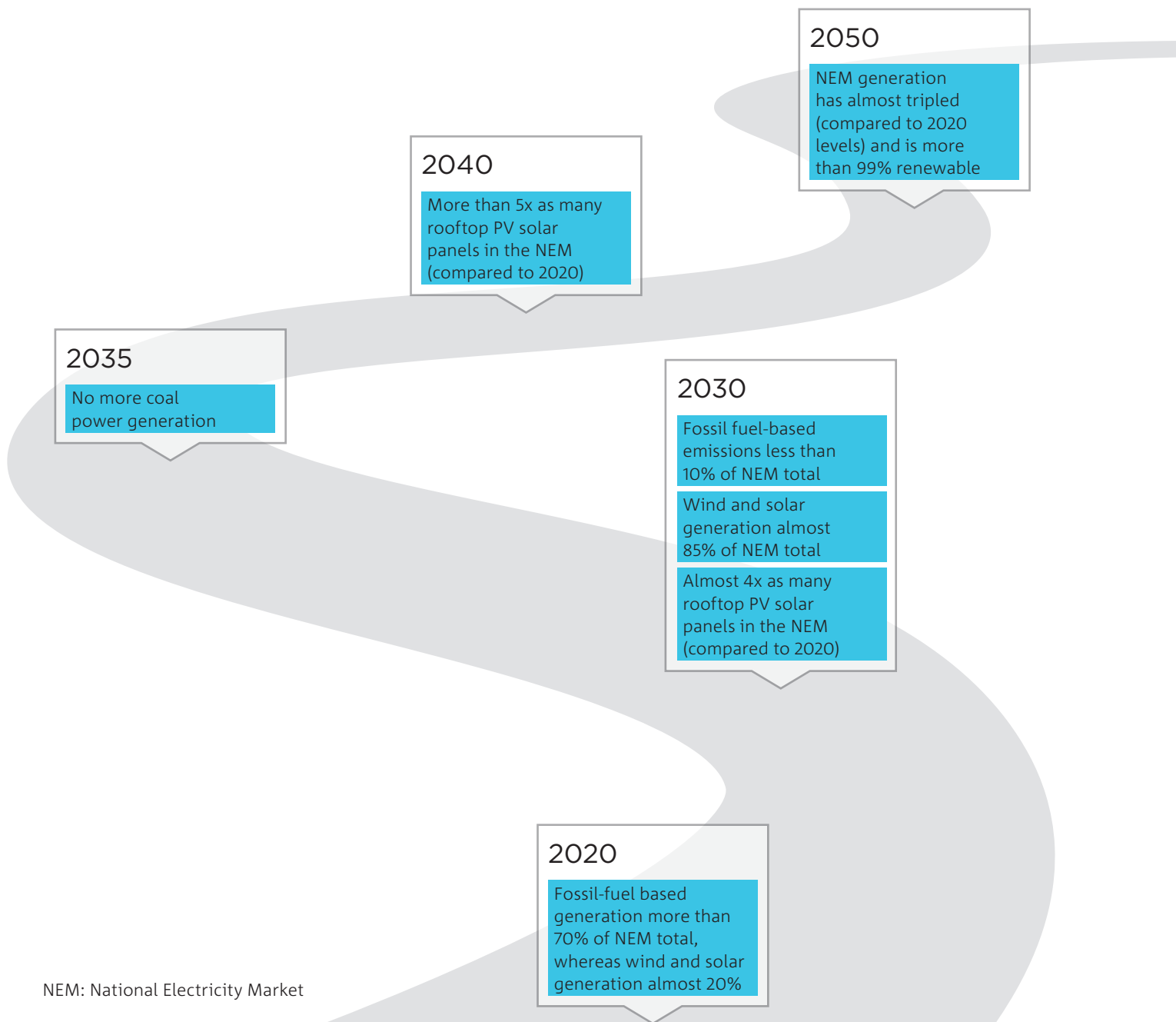
For more information, see infographic below and section 3.1 of the report *Pathways to Net Zero Emissions – An Australian Perspective on Rapid Decarbonisation*.

[csiro.au/rapiddecarbonisation](https://csiro.au/rapiddecarbonisation)

## For further information

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NEM: National Electricity Market