

**The energy transition away from reliance on fossil fuel is struggling, using a renewable only approach. Where this is being pursued, energy costs are going up, and there is invariably a reliance on gas or imported energy from other countries, that typically comes from fossil fuel or nuclear power. Why is this happening? And what does it mean for Australia?**

**Economics and Ideology** are at odds in energy debates around the world. Australia is not immune, as our 100% renewables pathway hits numerous roadblocks. These include:

- Cost over-runs on energy production, transmission and storage projects,
- Delays to renewables roll-out and them having inadequate capacity,
- Inadequate storage and a need rely on coal power and peaking gas plants,
- A shortage of gas due to export focus and a ban on new gas projects,
- A continued ideological objection to Australia adding nuclear energy to our energy mix,
- A lack of public acceptance of onshore wind, offshore wind, and transmission projects.

We are clearly getting a lot of things wrong. It's time to stop, consider what's happening in Australia and in other countries, and develop a new energy strategy that is best for Australians and not necessarily political parties. Here is a list of things to consider:

#### **Locally**

1. Australia has been missing renewables and storage targets despite sidestepping environmental approvals and offering incentives [1],
2. Project delays and cost overruns are impacting renewables project costs, Snowy Hydro 2.0 [2] and HumeLink are two examples [3].
3. Queensland has switched priorities from expanding wind and pumped hydropower storage, to reinstating coal power generation [4].
4. These are all indicators of problems with the National Electrical Market NEM that need to be addressed.

#### **Internationally**

1. The fastest growing economies in the world, China, Vietnam, and India, have expanded coal power station construction and output [5].
2. USA is expanding oil and gas production under Trump's "burn-baby-burn" policy, while a ban has been put on offshore wind projects [6].
3. European countries have been reassessing their energy security following the Ukraine conflict and the sabotage to Nord Stream pipelines [7].

### Plans in Other Countries

The following snapshot provides context for us in Australia, based on what is going on in other similarly developed countries around the world:

- **Belgium** - has 4 nuclear reactors that were to be phased out by 2035, but this plan is on hold due to energy security concerns as a result of the Ukraine conflict [8].
- **Canada** – The government is investing in both the expansion of CANDU reactors and Small Modular Reactor SMR designs to support their existing nuclear energy capabilities [9].
- **Denmark** - doesn't have nuclear power but has three research reactors and is home to Copenhagen Atomics, one of the world's leaders in Small Modular Reactor SMR design [10].
- **France** - currently gets 70% of its electricity from nuclear power and is planning six further European Pressurised Reactors EPRs from 2038 [11].
- **Germany** - phased out nuclear power and coal and invested heavily in wind and solar. Prices have risen significantly due to a reliance on imported gas and nuclear power from France [12].
- **Hungary** - 50% of the country's power is from nuclear, and in 2024 they signed a nuclear energy cooperation agreement with China [13].
- **Italy** - plans to allow the use of nuclear power again after it was banned following Chernobyl almost 40 years ago, they intend to have a strategy in place by 2027 [14].
- **Poland** - doesn't currently have nuclear power but is to build three Westinghouse AP1000 reactors from 2026 that are expected to be operational by 2033 [15].
- **Slovakia** - nuclear power satisfies over 50% of the country's energy requirements, and together with hydropower and other renewables combined provide 85% of the country's electricity [16].
- **Spain** - planned to phase out nuclear power by 2035 but are now reassessing in light of other developments across Europe [17].
- **United Kingdom** - are planning to increase their current nuclear energy capacity fourfold from 6 GW to 24 GW by 2050 [18].

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### Rethinking Renewables and Nuclear Power in 2025



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