

## **AEMO SUBMISSION TRANSMISSION EXPANSION OPTIONS 22/5/23**

### **ITEM 1**

#### **Transmission augmentation information publication**

This document provided a snapshot of the existing and proposed expansion of the interconnected system using conventional transmission expansion thinking. I listened with awe at the professionalism of the detailed question/answer session from AEMO staff.

The comments of Jennifer Browne on how the recorded data might be used may require a little further consideration of how this excellent data resource might be utilised.

This document provides an excellent snapshot of the present situation.

### **ITEM 2**

#### **100% Renewables Study July 2013**

2013 saw AEMO's report "100% Renewables Study" setting out the early work on a high level of renewables and the relevant implications and expectations. In 2023 on the tenth anniversary of this timely report it is appropriate to revisit this and produce the present thinking, especially with the reported closing down of the ESB and its stated replacement.

The original document provided a number of potential broad expansion directions separate from standard transmission conventions using two parallel expanded AC systems linked by various HVDC interconnectors.

Subsequently there have been various predictions of expansion of the existing system up to five times the present capability from various experts citing Australia's solar capability.

A short study examining the original document and bringing it up to date with present thinking would provide an excellent picture for the newly minted organization to lead the expansion of the present system.

This is particularly pertinent if there were an acceleration of activity in climate change action together with a realization of Australia's outstanding position as an energy generator from solar activities.

Matters for consideration may well include integration of the existing two or more of the three and a half existing power systems and increasing the solar activity time available by completing the east/west interconnector.

This proposed document would provide a picture of where we might be in 2033.

For consideration

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