

UUUU

A structured approach towards 100% renewables

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The Engineering Framework

Current knowledge and work





Potential gaps and

Elements of the Initial Roadmap

300+ individual potential gaps

Summaries of potential gaps

Key decisions on approach

Key decisions – attributes

Key decisions – operability

System analysis, operational tools and practices to support and enable increasingly complex power system operation

Uplifting power system modelling and analysis capability

Maintaining an operable and resilient power system

Operational Conditions

Uplift of access **Build** operational tools **RISK!** and governance of for situational Operational data and model conditions arise awareness and Fewer synchronous generators online management proactive decision earlier than making projected و **Uplift of** engineering Determine Establish Establish Establish a plan for and modelling decision criteria sufficient margins building operational system capability and to balance monitoring **for** and flexibility for confidence and processes resourcing to avoid operational increasing for new operational margin vs bottlenecks in modelling visibility (such complexity conditions transition capability as PMUs)

Key decisions – integration

Optimally deploying and incentivising new and existing technologies, both gridscale and distributed, within the power system and market AEMC

Priorities to support 100% instantaneous penetrations of renewables

Working

Maintaining essential power system capabilities as the synchronous generator fleet exits

For more information visit

aemo.com.au