Operation of South Australia with 4 Synchronous Condensers December 2021





We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture. We pay our respects to their Elders past, present and emerging.

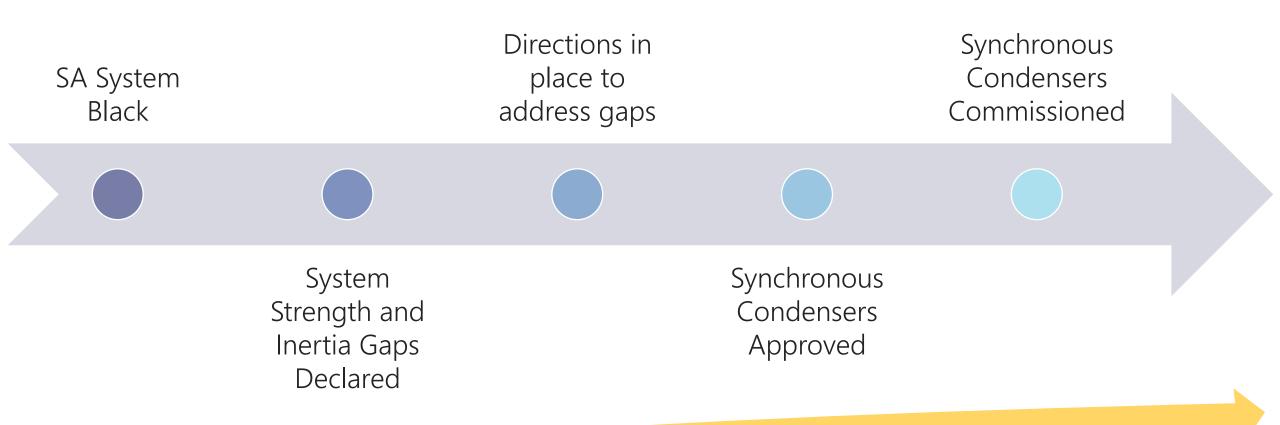
Agenda



- 1. Where we are at
- 2. On going power system requirements for SA
- 3. Next steps
- 4. Q&A

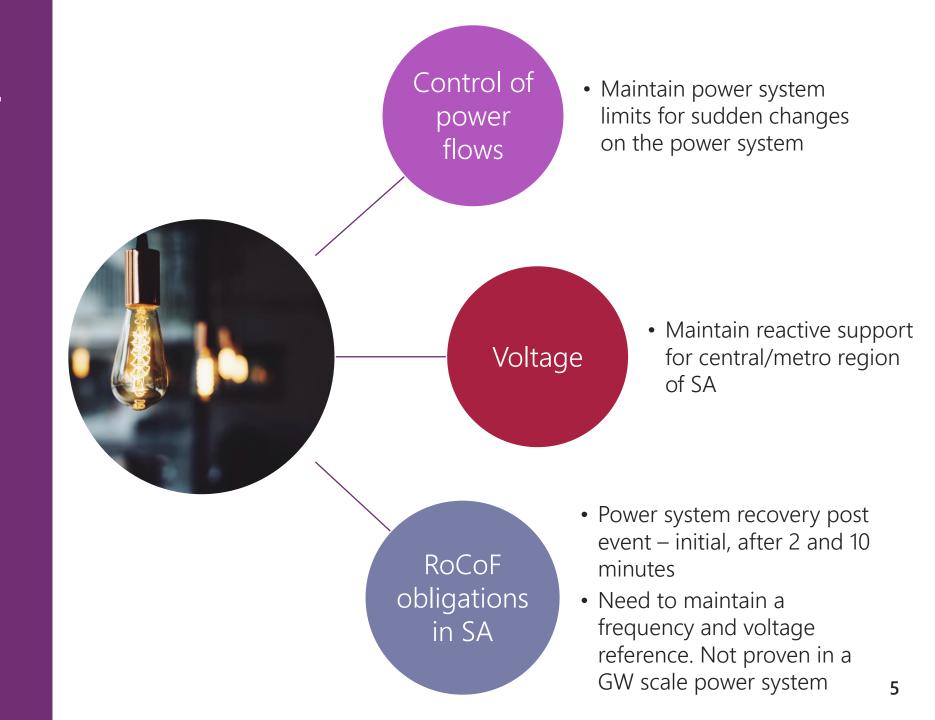






Distributed Solar Increasing by ~20 MW per month Inverter based resources also continue to be developed On going power system requirements for SA

Why we are still requiring two units





Next Steps

We are actively seeking through this work to get to a point where the market can provide adequate system security through the existing regulatory framework



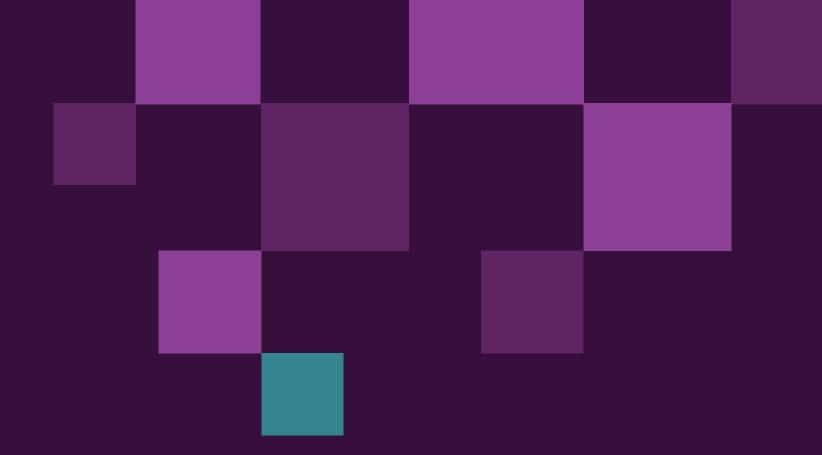
- Objective: Be able to operate SA with minimal market intervention
 - NSCAS assessments
 - PSFRR, GPSRR and Protected Event assessment
 - Assessment of market capability with new participants
 - Development of models and processes to handle high penetration of PV
 - Power system analysis to ensure frequency and voltage reference issue
 - Testing of South Australian power system in absence of synchronous generators
- Industry Engagement
 - Will be providing quarterly public updates
 - Please reach out if you would like to engage

Questions



Additional Information

- Contact AEMO for further questions and feedback
 - <u>stakeholderrelations@aemo.com.au</u>
- Congestion Information Resource (Limits)
 - <u>https://aemo.com.au/energy-</u> <u>systems/electricity/national-electricity-market-</u> <u>nem/system-operations/congestion-information-</u> <u>resource/limits-advice</u>
- Information on Synchronous Condensers
 - <u>https://aemo.com.au/energy-</u> <u>systems/electricity/national-electricity-market-</u> <u>nem/system-operations/congestion-information-</u> <u>resource/related-resources/operation-of-davenport-</u> <u>and-robertstown-synchronous-condensers</u>



For more information please visit www.aemo.com.au

