

Consumer Advisory Panel - Meeting 13

- South Australian Energy Transformation
 - Submissions received and proposed responses
 - Early works and community engagement
- Other major projects
 - Eyre Peninsula Electricity Supply Options
 - Main Grid System Strength
- National Energy Landscape
 - □ AEMO's Integrated System Plan
- Around the table check in

South Australian Energy Transformation

More than 30 submissions received

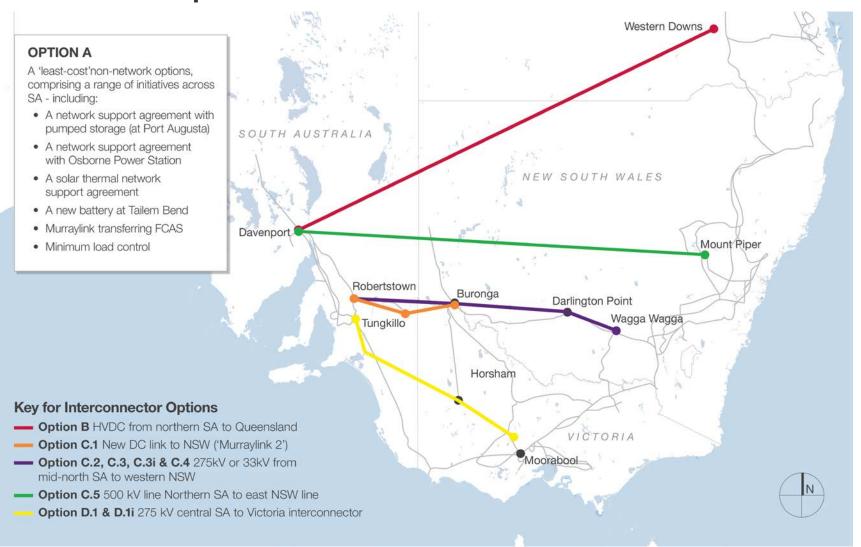
Targeting PACR publication before end 2018

Working closely with TransGrid

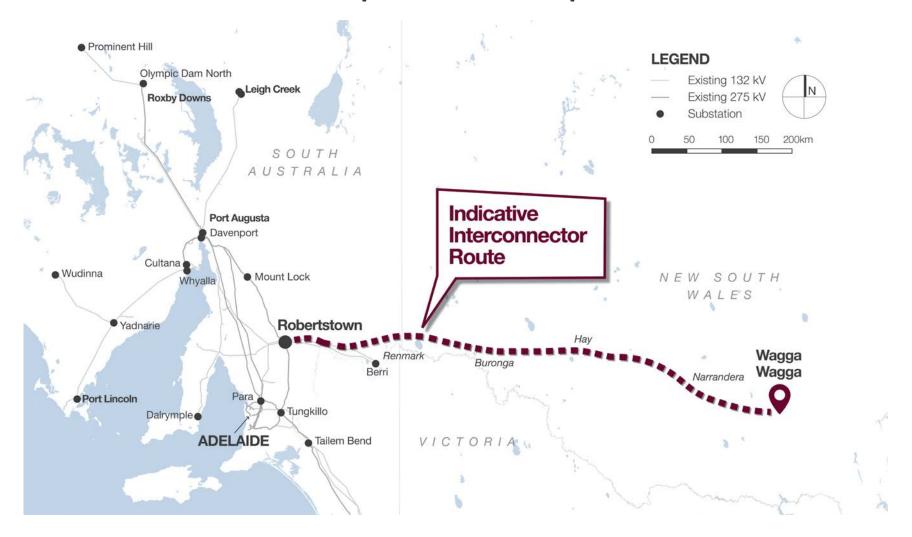
Early works program

Community Engagement planning

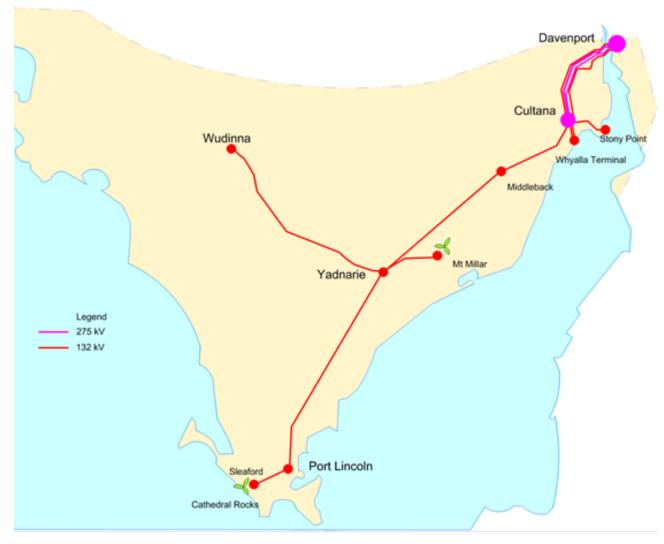
SAET - Options



Indicative route – preferred option



Eyre Peninsula electricity supply options



- > Existing 132 kV line close to full capacity
- Asset condition challenges with line >45 years old
- > Port Lincoln supply reliability includes network support from 3 x 25 MW diesel-fired gas turbines

Identified need

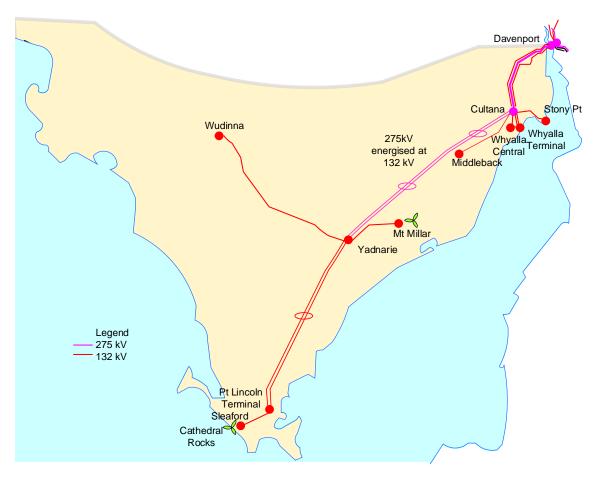
Providing cost-effective, reliable electricity supply to the Eyre Peninsula

Key drivers:

- The need to replace existing transmission line components in the next few years
- The upcoming expiry of the network support arrangement at Port Lincoln (at end 2018)

ElectraNet has been investigating the best option for meeting this need via a formal **Regulatory Investment Test for Transmission** (RIT-T) process under the National Electricity Rules

RIT-T conclusions report outcome



Upfront cost: \$240 million

- Double-circuit line from Cultana to Yadnarie initially energised at 132 kV with a rating of about 300 MVA, with the option to be energised at 275 kV with a rating of about 600 MVA if required in the future
- Double-circuit 132 kV line from Yadnarie to Port Lincoln rated to about 240 MVA
- Capable of accommodating potential future large mining loads
- If upgraded to 275 kV operation, can facilitate new generator connections of up to about 1000 MW

Update – System Strength

- System studies progressed with AEMO to confirm size of solution required
- Commercial and technical due diligence of procurement options in parallel
- Staged approach agreed for early implementation:
 - □ Delivery of first units to provide initial capability end 2019
 - □ Delivery of balance of full solution 2020

Next steps:

- ☐ Finalise and publish economic evaluation report in consultation with AER (Nov).
- Engage with the relevant suppliers through accelerated tender process
- Obtain land and approvals for initial site
- Confirm size and extent of full solution required



