

# Acknowledgement of Country

We would like to acknowledge the Traditional Owners of the land on which we meet and pay our respects to their Elders past and present and extend that respect to other Aboriginal and Torres Strait Islander people who are present today

### Welcome

- Welcome & Introductions
- Opening Remarks
- AER Draft Decision
- Revised Revenue Proposal
  - 1. What are the customer considerations?
  - 2. What role should the CAP play?
  - 3. What other information do you need to fulfil that role?
- Project EnergyConnect Update
- Next Steps



Purpose & Introductions

# Consumer Advisory Panel

- The overarching **PURPOSE** of this engagement is to *provide meaningful* opportunities for input to improve the value of electricity transmission services in South Australia.
- The CAP is part of ElectraNet's commitment to consumer engagement
- The CAP is the <u>vehicle for ElectraNet</u> to engage and collaborate with consumer representatives
- The CAP brings together <u>representatives of different organisations and / or</u> individuals
- Members are <u>expected to contribute to advice and ideas</u> through a range of mechanisms including attendance at meetings, meeting preparation, review of documents, contributions to written advice/ reports
- The CAP will be <u>independently facilitated</u>

# IAP2 SPECTRUM

International Association of Public Participation = IAP2

# IAP2 Spectrum

UBLIC ARTICIPATION SOAL

> PROMISE TO THE PUBLIC



#### INFORM

To provide the public with balanced and objective information to assist them in understanding the problem, alternatives and/or solutions.

We will keep you informed.



#### CONSULT

To obtain public feedback on analysis, alternatives and/or decision.

We will keep you informed, listen to and acknowledge concerns and aspirations, and provide feedback on how public input influenced the decision.



#### INVOLVE

To work directly with the public throughout the process to ensure that public concerns and aspirations are consistently understood and considered.

We will work with you to ensure that your concerns and aspirations are directly reflected in the alternatives developed and provide feedback on how public input influenced the decision.



#### COLLABORATE

To partner with the public in each aspect of the decision including the development of alternatives and the identification of the preferred solution.

We will look to you for advice and innovation in formulating solutions and incorporate your advice & recommendations into the decisions to the maximum extent possible.



#### **EMPOWER**

To place final decision-making in the hands of the public.

We will implement what you decide.

### INCREASING IMPACT ON THE DECISION

© International Association for Public Participation

iap2.org

# Opening Remarks

Simon Emms
Chief Executive



# **AER's Draft Decision**

**Lynley Jorgensen**Director, Australian Energy Regulator



# Revised Revenue Proposal

Jeremy Tustin,
Regulated Investment Planning Manager



## Developing Revised Revenue Proposal - role of the CAP

- Purpose of a Revised Revenue Proposal
  - ☐ Matters approved by the AER at the Draft Decision stage are considered settled
  - ☐ ElectraNet can respond to outstanding issues in a Revised Revenue Proposal
- The key question for the CAP is:
  - □ "How can customer interests be best served through ElectraNet's response to the remaining issues"

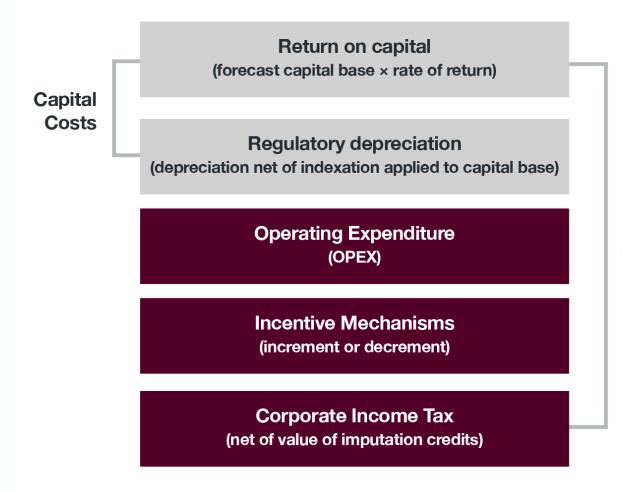
### Way Forward:

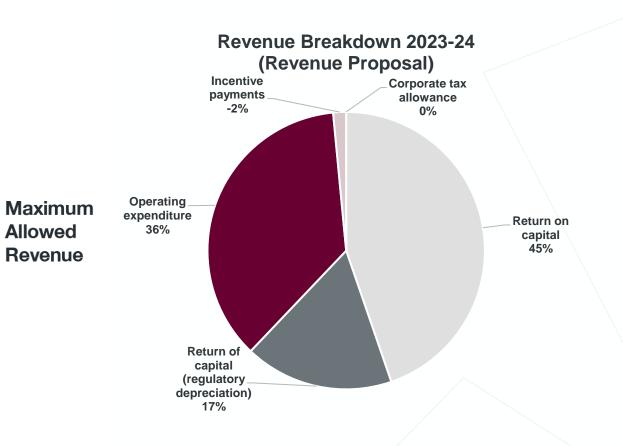
- AER Draft Decision 30 Sep 2022
- Engagement with the CAP Sep-Nov 2022
- Revised Proposal due 2 Dec 2022
- AER Final Decision 30 Apr 2023
- Ongoing Annual Planning Cycle





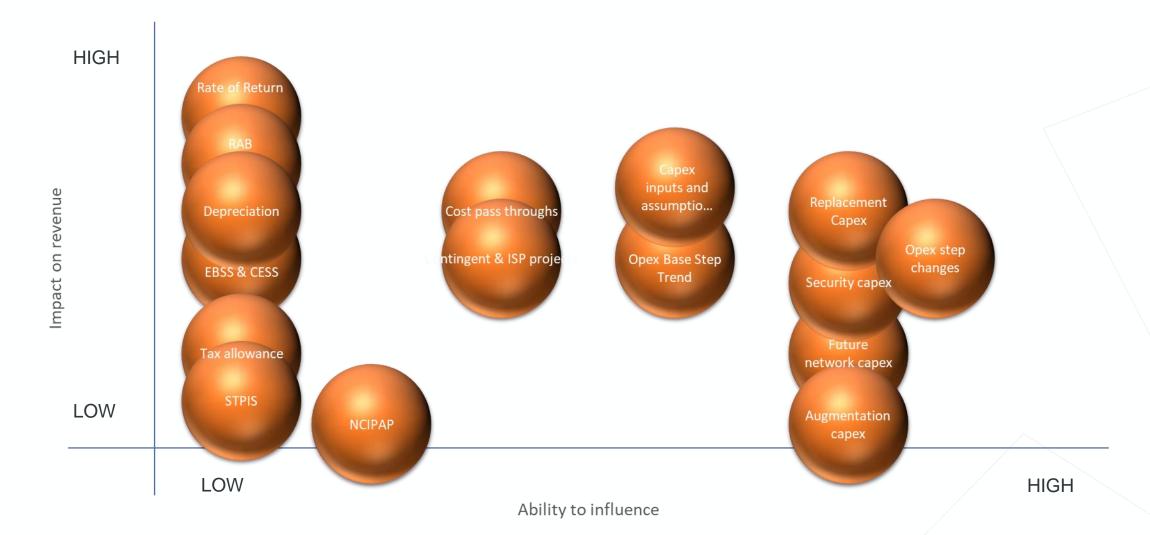
## Revenue Proposal - revenue setting framework





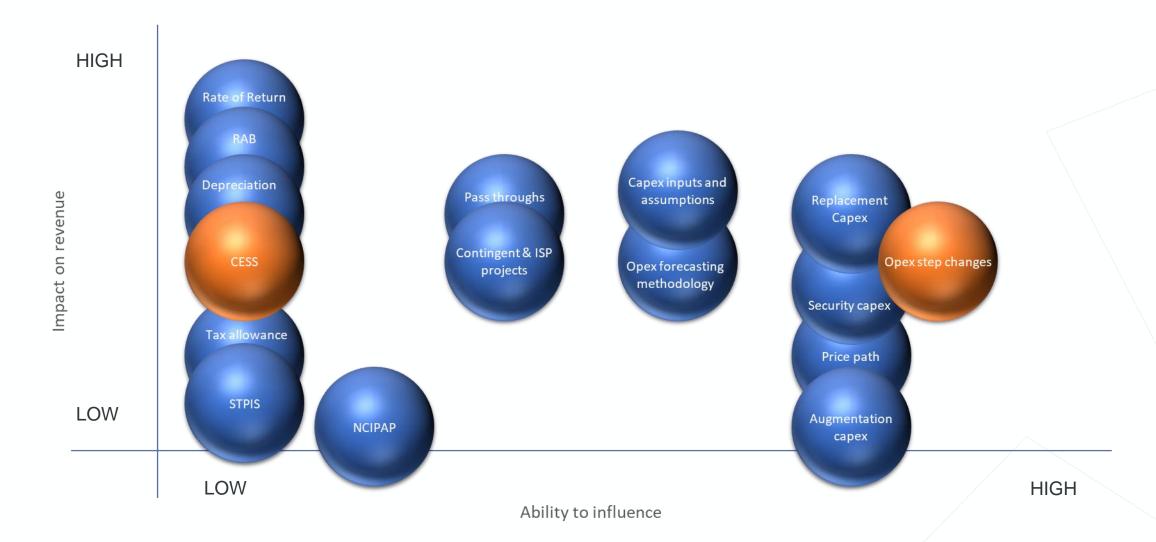


## Original focus areas identified by the CAP WG





### As 'narrowed down' in AER Draft Decision





### As 'narrowed down' in AER Draft Decision

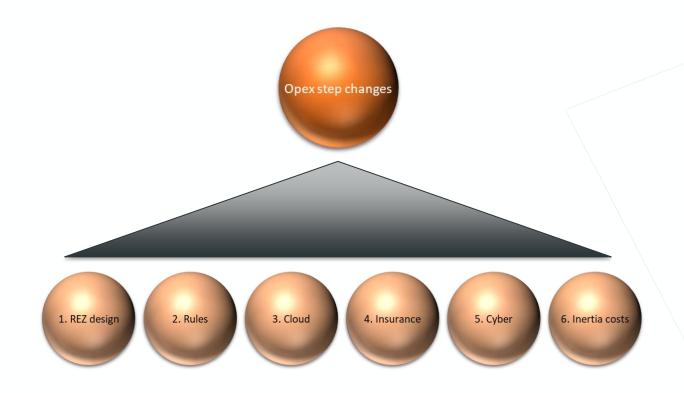




### For discussion







Ability to influence

- 1. What are the customer considerations?
- 2. What role should the CAP have in this issue?
- 3. What other information do you need to fulfil that role?



### 1. Rule changes - REZ Design Reports



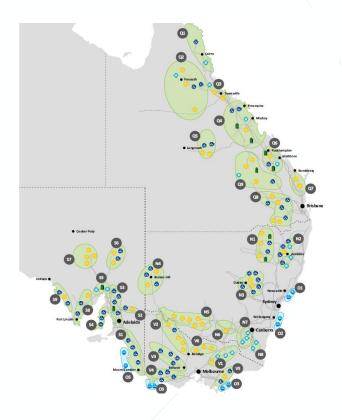
#### AEMO has identified Renewable Energy Zones

- High-quality resource areas where clusters of large-scale renewable energy projects can be developed using economies of scale
- 9 in South Australia
- REZ development 'triggered' by ISP (next published in 2024 and 2026)

#### Impact on ElectraNet

- REZ Design Reports
  - Engineering
  - Community consultation
- Is it reasonable to anticipate 2 or 3 REZ
   Design Reports in SA per ISP? (4 to 6 total)
- Indicative cost per report ~\$300k
   → \$1.2 ~ 1.8m over reg period (~1% opex)

- I. What are the customer considerations?
- 2. What role should the CAP have in this issue?
- 3. What other information do you need to fulfil that role?





## 2. Rule changes - Increasing system complexity



#### The power system is becoming increasingly complex

- New obligations under the Rules
- AEMO engineering framework
- Operational technology roadmap
- 100% instantaneous renewables

AEMO "...median investment ~\$500k per GW peak demand p.a. ..."

#### Impact on ElectraNet

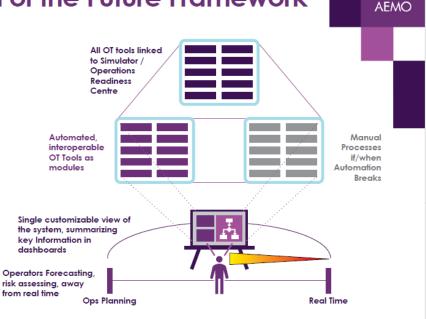
- Need for ongoing improvement in real time system analysis
- Increasingly complex power system to plan and operate
- Personnel and capacity uplift required (e.g.)
  - Increased number of connections
  - Sharp increase in control room alarms
  - Outage management
  - Need to invest in future skills
- Indicative need for 20+ FTE for various functions

- What are the customer considerations?
- What role should the CAP have in this issue?
- What other information do you need to fulfil that role?

### **EPRI Control Room of the Future Framework**

EPRI has an established methodology and framework when developing roadmaps and research associated with transmission system control rooms of the future (CROF). This is a complex, interconnected model, with four foundations and eleven pillars all supporting the purpose and vision for the CROF. This was developed in consultation with key stakeholders during the development process.

The framework establishes a pathway to develop a future system operations vision, shown right. In this vision of future operations, operators engage with OT tools via a streamlined interface. They act further from real time, risk assessing the system trajectory based on forecasts. The OT tools are interoperable and while automated processes dominate, manual backup is available at all times. All OT tools are mirrored in a training simulator or operations readiness centre environment.



AEMO Operations Technology Roadmap, Executive Summary Document June 2022



### 3. Insurance cost pressures

Global events have put substantial upward pressure on insurance markets

- COVID-19
- **Bushfires**
- Qld and NSW floods may end up in top 4 insurance cost events ever

#### Impact on ElectraNet

- Legal obligations to maintain certain level of insurance
  - Transmission licence
  - Financier covenants
  - Leasing arrangements
- Tightening market reduced choice
- Situation has deteriorated this year
  - Forthcoming cost pass through application
- Consideration as to whether existing forecast is adequate based on latest market movements



- What are the customer considerations?
- What role should the CAP have in this issue?
- What other information do you need to fulfil that role?





### 4. Cloud computing

4. Cloud

There is a need to migrate part of our IT infrastructure to the Cloud to maintain and enhance operational capabilities moving forward

This involves a capex/opex trade off

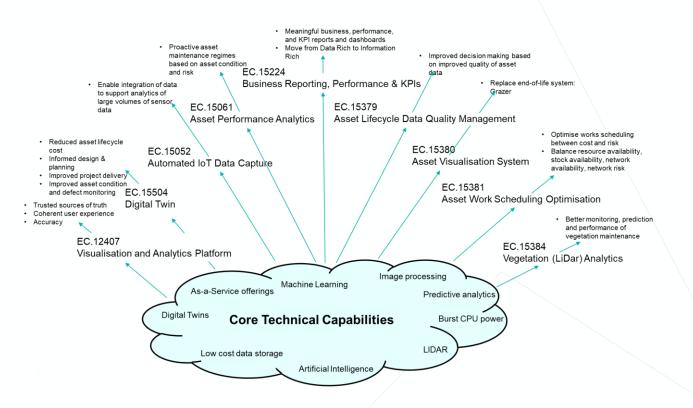
- Step change to cover the cost of additional licence fees
- Offset by benefits

#### Implications of Draft Decision to decline step change...

- Jeopardises the migration
- Limits access to future efficiencies?
- Rules require reasonable opportunity to recover efficient costs

ElectraNet needs to consider implications and position

- What are the customer considerations?
- What role should the CAP have in this issue?
- What other information do you need to fulfil that role?





### 5. Cyber security

5. Cyber

The Australian Energy Sector Cyber Security Framework sets out a roadmap for improving cyber security

The AER and ElectraNet agree that:

- It is prudent for ElectraNet to increase to Security Profile 3 (SP-3)
- This will place pressure on opex which requires a step change

The AER has not accepted ElectraNet's forecast costs of achieving this

#### Impact on ElectraNet

- Significant internal and external resources are needed to address all areas required
- Independent expert advice obtained
- Some preparations already brought forward
- ElectraNet needs to consider position and revisit cost forecasts

- I. What are the customer considerations?
- 2. What role should the CAP have in this issue?
- 3. What other information do you need to fulfil that role?





### 6. Inertia costs



AEMO has declared a shortfall calling for *inertia* support services relating to 'islanded' SA network

ElectraNet must tender to provide these services

- 200 MWs this year (in place)
- 360 MWs until Project EnergyConnect is fully operational (yet to be contracted)

#### Impact on ElectraNet

- Cost of inertia services to be passed through to customers via Network Support pass through
  - Annual true up process against allowance
  - No allowance currently in place
- Cost not yet known tendering is underway
  - Likely fixed and variable components
  - Variable only occurs if service invoked
- Cost recovery could be:
  - Real time
  - In arrears
  - Hybrid

- What are the customer considerations?
- What role should the CAP have in this issue?
- What other information do you need to fulfil that role?





## 7. Capital Expenditure Sharing Scheme



#### CESS is designed to encourage efficient investment

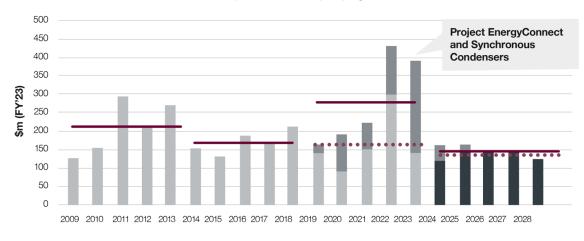
Rewards efficient underspend & penalises overspend Adjustment mechanism exists to avoid windfall gains from deferral of large projects ElectraNet and CAP agreed no windfall gain should result from deferral of Project EnergyConnect ElectraNet has sought to correct adjustment made for a windfall gain that does not exist – the AER has not accepted this

### Implications of Draft Decision to apply deferral adjustment...

- Penalises windfall gain that does not exist fails to provide incentive for efficient investment in accordance with the National Electricity Law
- Appears inconsistent with AER Guideline offset expenditure should be considered
- Unprecedented in decisions to date

- What are the customer considerations?
- What role should the CAP have in this issue?
- What other information do you need to fulfil that role?

#### Our past and future capital program



#### Financial Year Ending





# Major Projects Update

Rainer Korte
Group Executive Asset Management



### Project EnergyConnect Update

### **Project at a Glance**

- The project is 900km high-voltage transmission interconnector between Robertstown and Wagga Wagga in New South Wales
- The line capacity will be 800 MW equivalent of delivering electricity to 240,000 households
- The voltage will be 330 kV (new to SA)
- The total cost of the project is \$2.28 billion and the South Australian section is \$457 million
- Route passes through high-quality renewable energy zones, facilitating the transition of more renewable energy into the National Electricity Market
- Project is expected to create over 200 jobs during construction and around 250 on-going jobs in SA

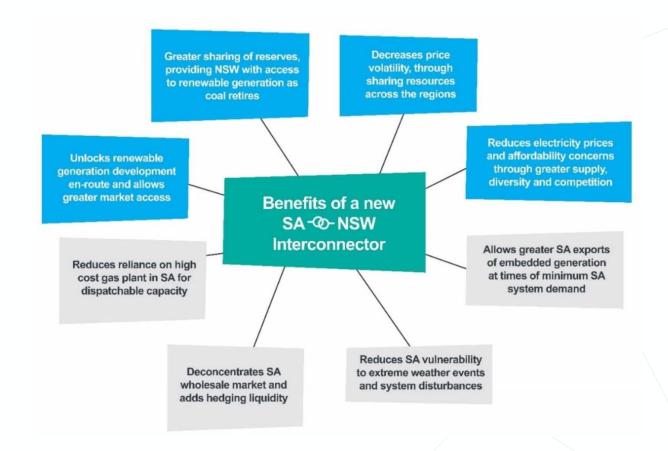




### Project EnergyConnect Update

### **Customer Benefits**

- For SA customers, benefits include access to additional capacity when needed to replace expensive gas generation and improved resilience and security of the power system
- For NSW customers, benefits include improved diversity of supply and access to cheaper renewable energy sources as the coal fleet progressively retires – it also unlocks significant renewable energy development along the route
- Customer price reductions are expected in both regions which outweigh the additional transmission costs by a factor of 6-7 times or more





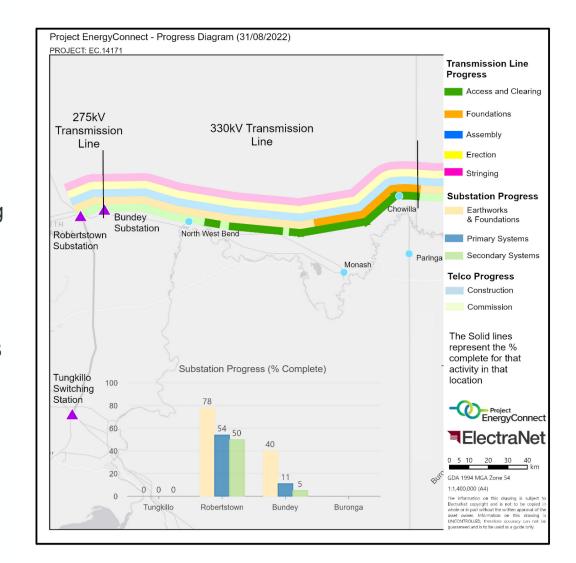
## Project EnergyConnect Update

### **Project Timing**

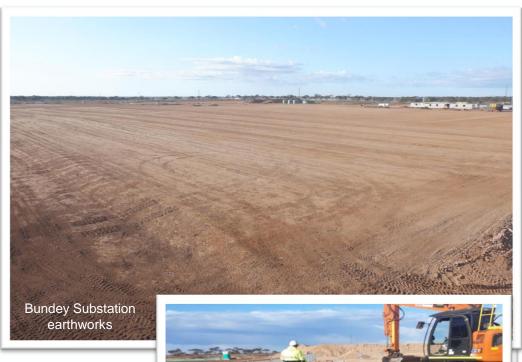
- In February 2022, major work commenced on the South Australian component of Project EnergyConnect
- Project EnergyConnect will be delivered in two stages:
  - The completion of construction from Robertstown to Buronga and energisation in late 2023, with commissioning and release of initial transfer capability over the following 12 months
  - The completion of the second section from Buronga to Wagga Wagga and energisation in late 2024, with internetwork testing and release of transfer capacity over 12-18 months, ramping up to 800MW

### **Environmental Approvals**

- EIS Approvals are now complete
- All Cultural heritage agreements signed
- Easement acquisition is complete with all landholders













Erection of first 330 kV tower in SA



# Wrap Up and Next Steps

**Chris Hanna** 

Government and Stakeholder Relations Adviser



## Wrap Up and Next Steps

- 2022-23 Proposed Meeting Schedule:
  - CAP Meeting: Monday, 17 October 2022, 3pm to 5pm
    - Engagement principles, practices and co-design
    - Revised Revenue Proposal
  - CAP Meeting: Thursday, 23 February 2023, 3pm to 5pm
  - **CAP Meeting**: Thursday, 25 May 2023 + Site Visit
- Sitting Fees to be discussed

