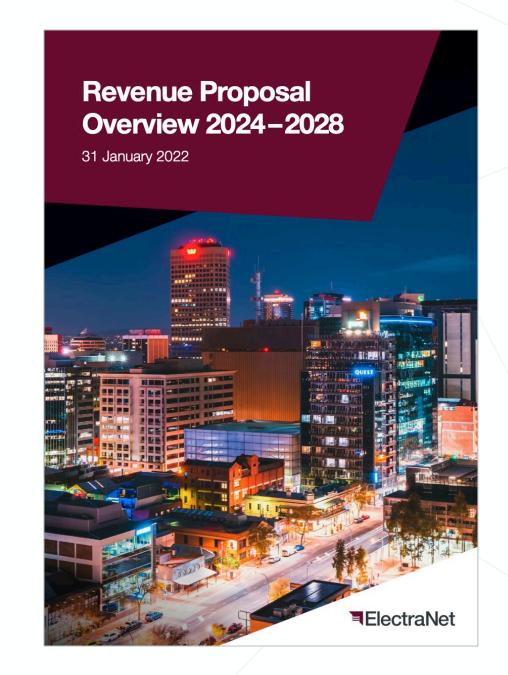
# ElectraNet Revenue Proposal 2022 Public Forum

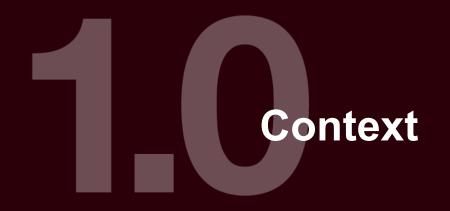
31 March 2022

# ElectraNet

## Outline

- 1. Context
- 2. Customer engagement
- 3. Revenue Proposal overview





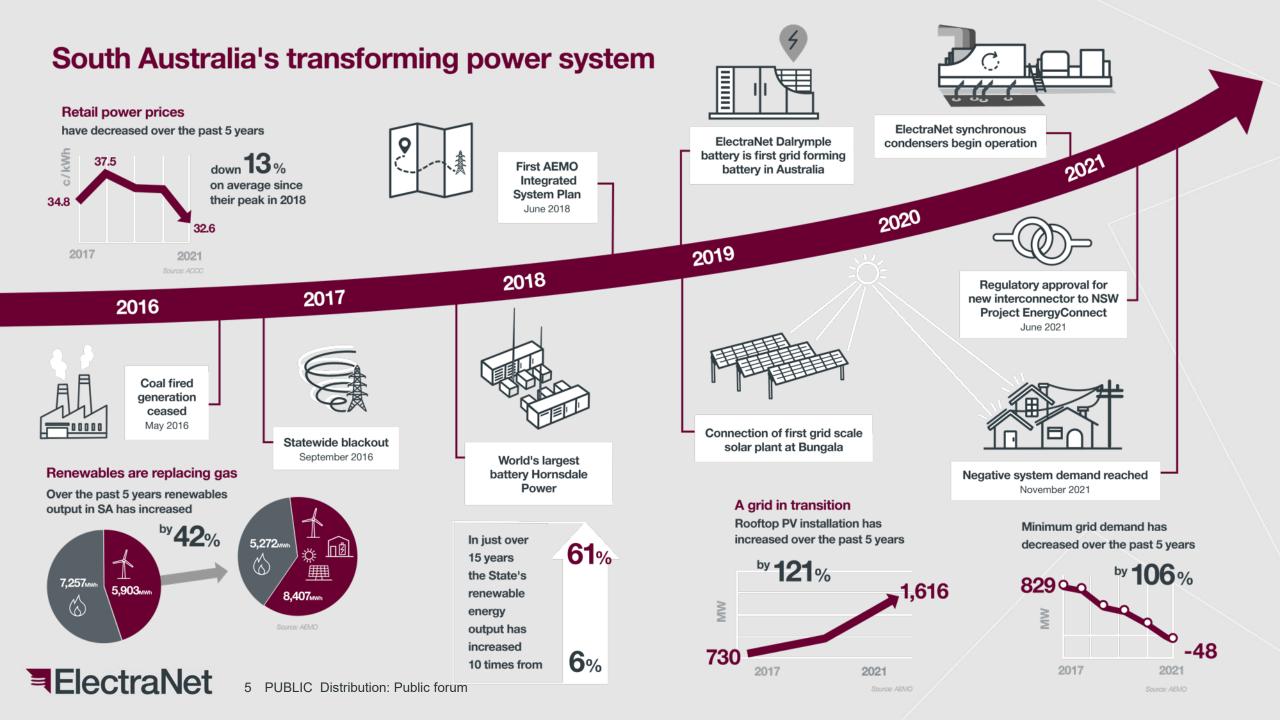


## Overview

ElectraNet

- SA remains at the forefront of the global energy transformation
  - □ Renewables are displacing traditional sources
  - □ Pushing the power system beyond its limits
- Increased role for transmission
  - Interconnection, system services, control schemes being delivered now
- These investments come at a cost but drive down overall prices
- Meeting the evolving needs of our customers into the future
  - □ Ongoing focus on managing ageing network
  - □ Targeted investments in technology & security
  - Maintaining and operating an increasingly complex network amid external cost pressures

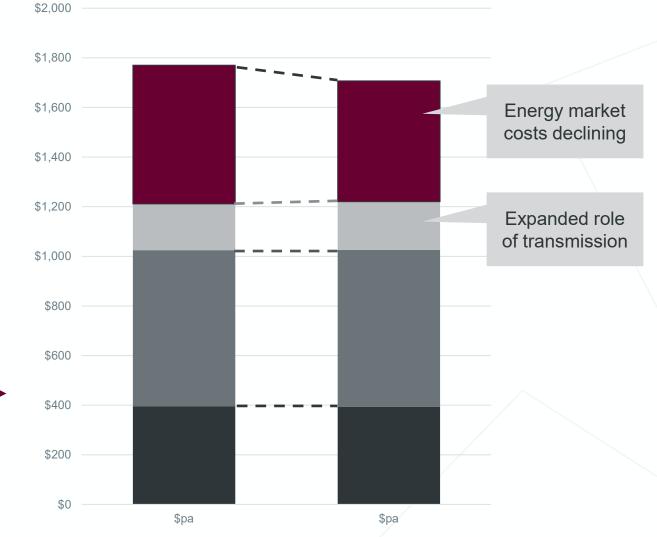




# The role of transmission is changing

- The transmission network is playing a greater role:
  - □ Stronger interconnection
  - System services (system strength, inertia, frequency control, emergency control schemes)
- Investments support energy transition and drive down overall electricity prices

Transmission component of cost is growing to drive overall price reductions



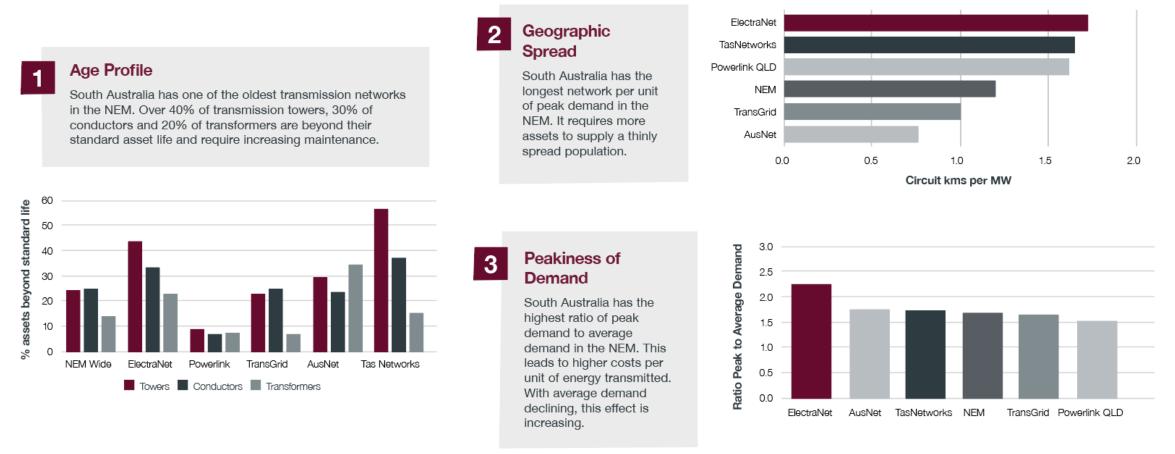
#### The evolving role of transmission

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■ Retail & environmental policies ■ Distribution ■ Transmission ■ Wholesale

# Ongoing challenges of South Australia's transmission network

These factors mean efficient transmission costs are higher in SA



Despite these challenges, the AER's benchmarking shows we have remained the most efficient mainland TNSP since reporting began in 2006 in total productivity terms

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# Customer Engagement



# **Our Overall Approach**

Key benefits of ongoing engagement:

- Improved understanding of customer perspectives
- More targeted expenditure plans
- Greater trust and confidence, with 'no surprises'
- Improved value of transmission services

#### **Network Vision**

The Network Vision is developed in collaboration with our customers and stakeholders to help shape our directions and priorities for the transmission network.

# Preliminary Revenue Proposal 2024–2028 Jurati

#### **Revenue Proposal**

Our final expenditure plans and priorities shaped by stakeholder input.

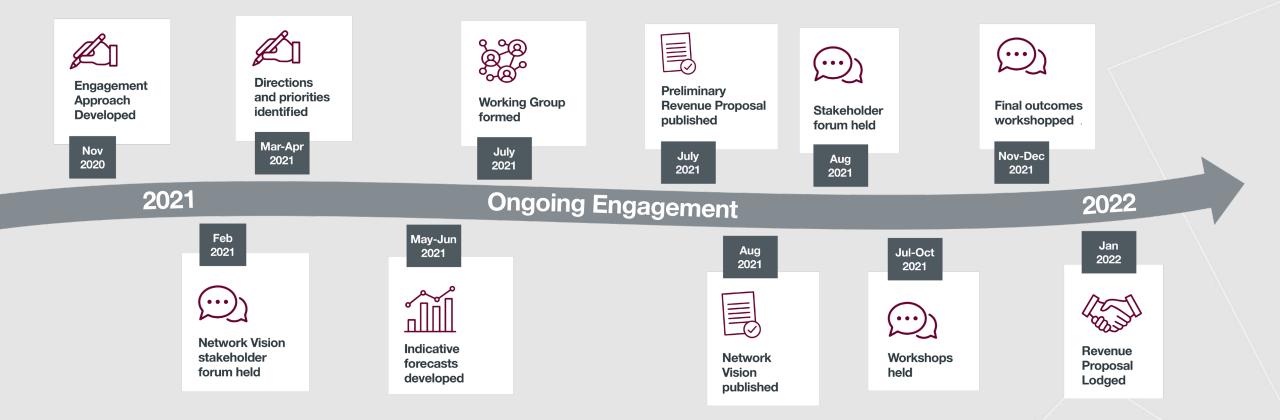


#### **Preliminary Revenue Proposal**

The purpose of the Preliminary Revenue Proposal is to give our stakeholders the information they need to make meaningful contributions to our Revenue Proposal.

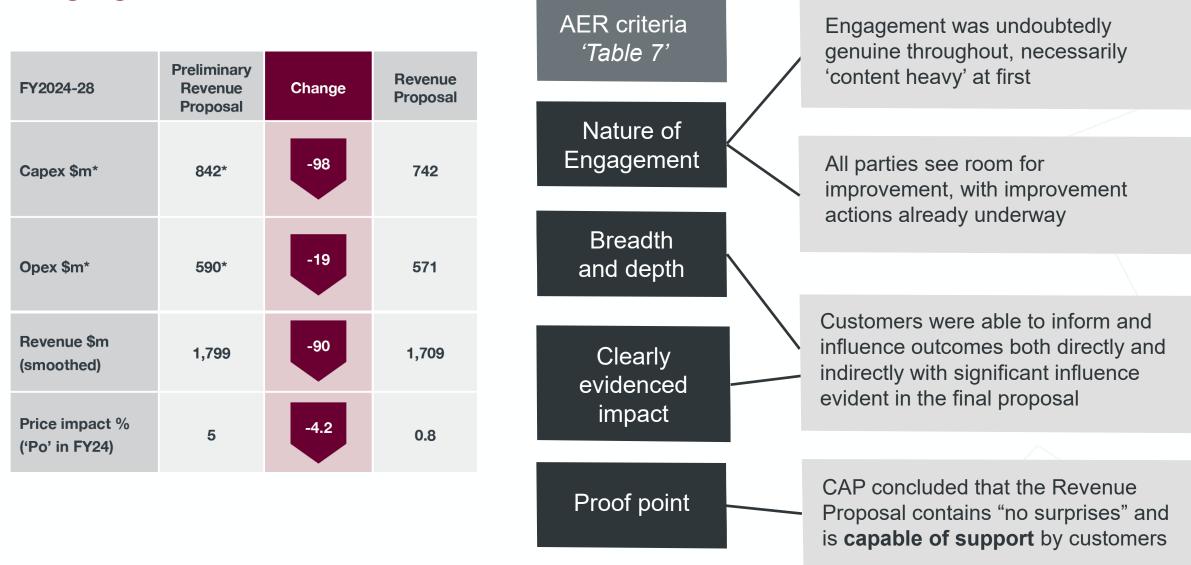
Revenue Proposal Overview 2024 – 2028 Jaruary 202

# **Engagement Journey**





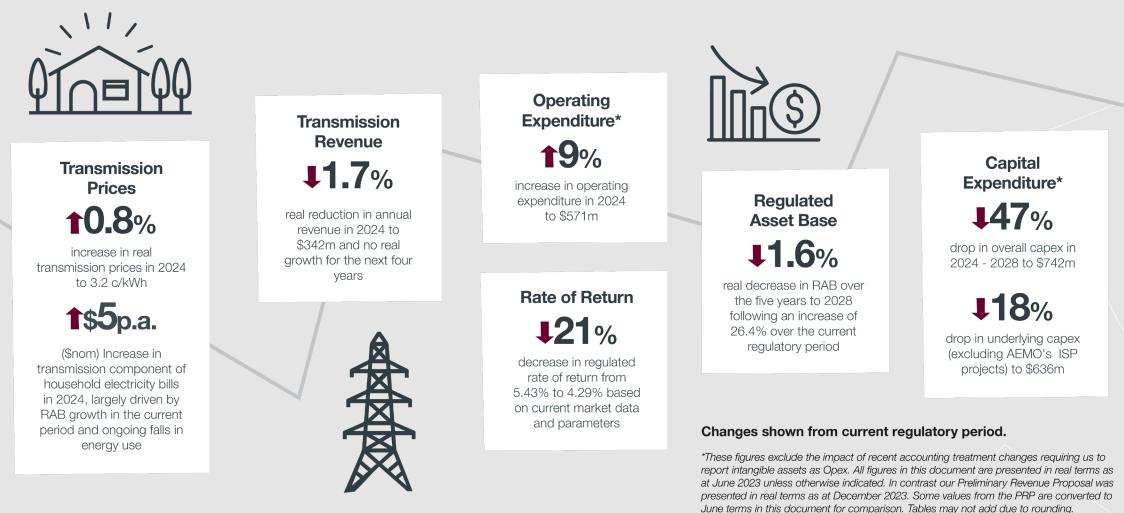
# **Engagement Outcomes**



# Revenue Proposal Overview



## **Revenue Proposal at a glance**



# We apply a risk-based approach to capital planning

The Consumer Advisory Panel was satisfied that our risk-based capital planning framework is robust, and that we have given sufficient focus to reducing capital expenditure in our Revenue Proposal

#### **Asset Management Objectives:**



#### Affordability and reliability

Reduce the overall cost of electricity to customers by removing network constraints, operating the network, and delivering our capital and maintenance works as efficiently as possible, while maintaining safety and reliability.



#### Safety of People

Ensure the safety of staff, contractors, and the public.



#### **Protect the environment**

Ensure the environmental impact of network operations are minimised.



## Power system security and resilience

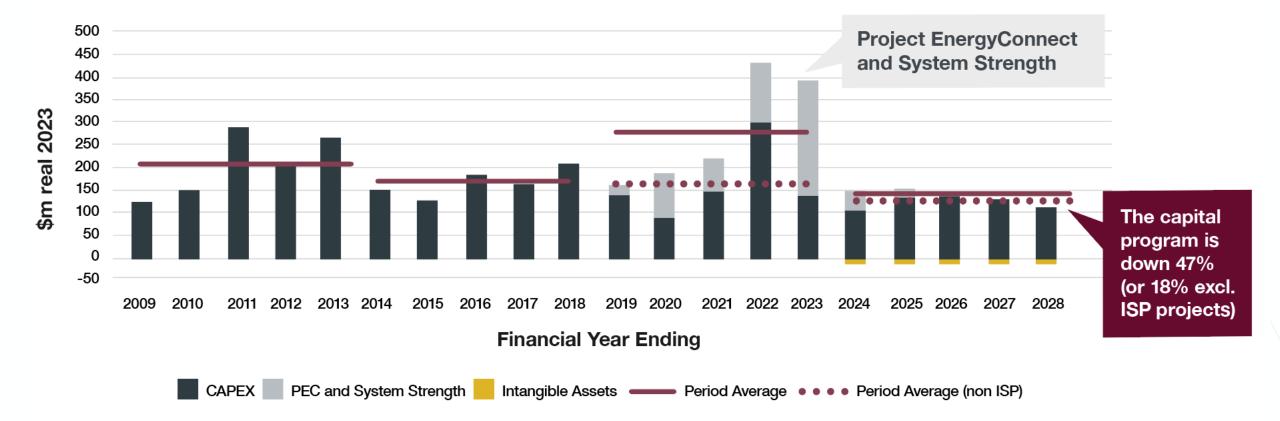
Ensure the network is resilient and operates within acceptable parameters in the face of electrical, physical, or cyber disruption, and continues to enable the transition to a low carbon emissions future.

These objectives were developed in consultation with ElectraNet's Consumer Advisory Panel and are consistent with the National Electricity Objective and the capital expenditure objectives set out in the National Electricity Rules

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## **Capital Expenditure Forecast**

Following delivery of major energy transition projects, we are returning to a smaller program focused on managing the ageing network.

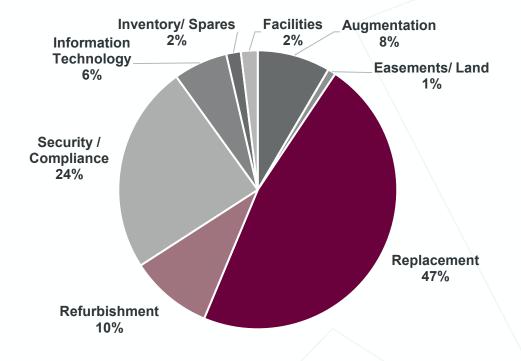


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## **Capital Expenditure Forecast**

The capital program is largely driven by replacement/ refurbishment (54%) and security/ compliance (24%) requirements

Category (\$m FY23)	FY19-FY23 forecast	FY24-FY28 forecast (unadjusted)	FY24-FY28 forecast (adjusted*)
Augmentation	407	59	59
Connection	3	0	0
Easements/ Land	6	6	6
Replacement	538	339	327
Refurbishment	92	67	67
Security / Compliance	268	176	168
Information Technology	79	70	44
Inventory/ Spares	12	12	12
Facilities	13	14	14
Total	1,421	742	696



\*Reflects accounting treatment changes requiring intangible assets to be reported as opex

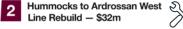
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## Major capital projects

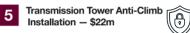
#### Project EnergyConnect — \$59m

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This is the final phase of Project EnergyConnect, which will connect South Austrlaia's transmission network to New South Wales, paving the way for reduced wholesale electricity prices due to increased competition and also enabling increases in the use of renewable generation in South Australia.



Our routine condition assessment indicates that the transmission line between Hummocks and Ardrossan West is in need of substantial work. The most efficient option is to replace the line.



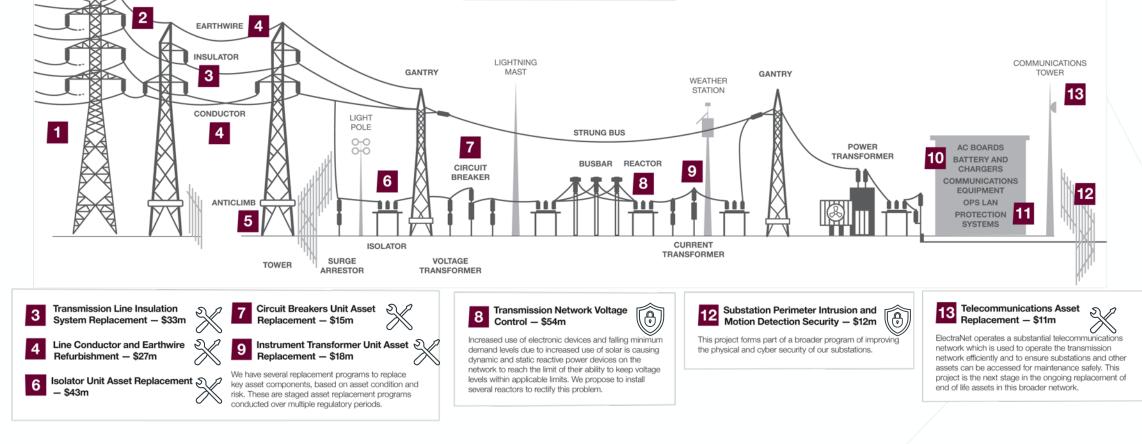
Many of our older transmission towers are not fitted with anti climb equipment that is now standard. For public safety reasons we propose to install this equipment on towers in locations most at risk of unauthorised climbing. We are taking a phased approach over multiple regulatory periods.

#### Substation Technology System 10 0 Cybersecurity Uplift – \$16m

With the rising risk of cyber attack this project is to upgrade computer systems in our substations as part of a broader program of upgrading substation security



We will install phasor measurement units at various sites around the network as AEMO requires. These devices will increase the speed with which we and AEMO receive network information and, in turn, allow us to manage the network more efficiently.



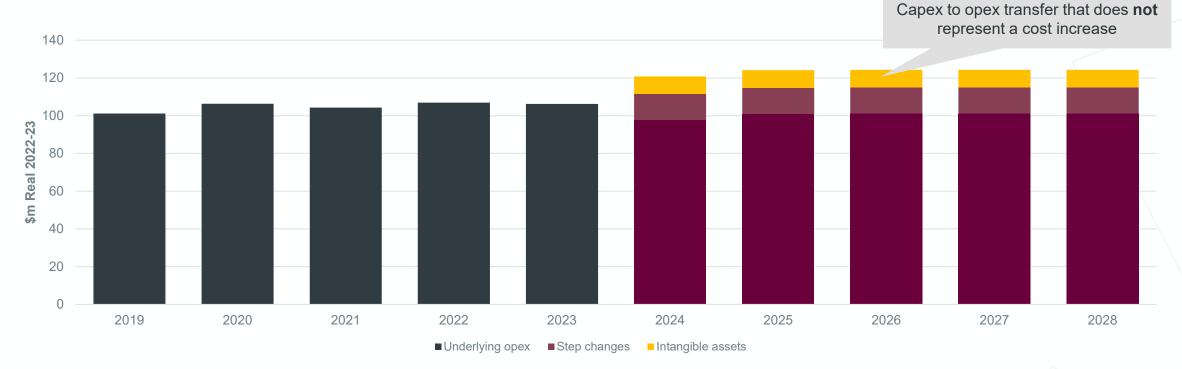
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# **Operating Expenditure Forecast**

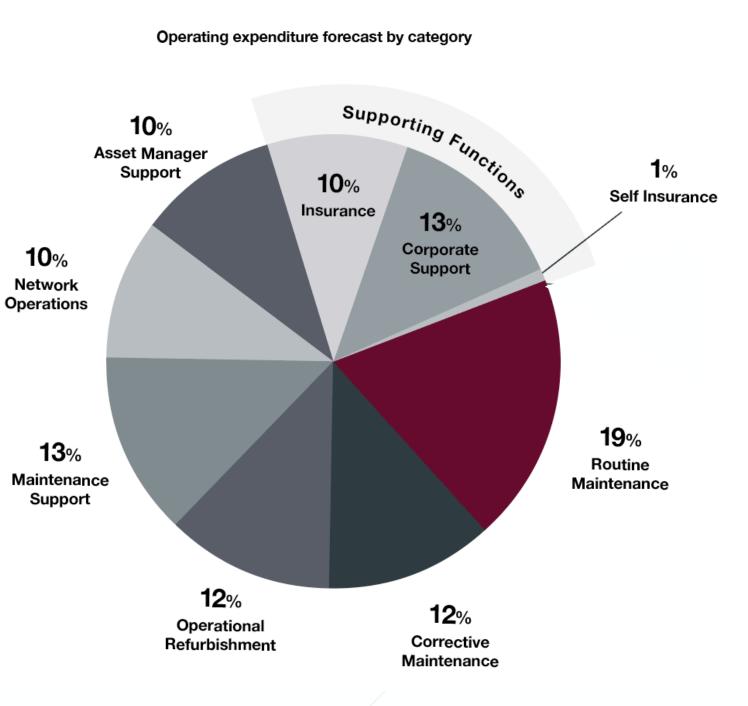
Our operating expenditure program is focused on managing and operating the network efficiently in a rapidly changing environment



- Externally imposed step changes are driving up costs by 9%, including insurance and cyber compliance costs which are being driven up externally
- Transfer of intangible asset expenditure from capital to operating expenditure (under accounting standards) adds a further 9%

# Operating Expenditure Forecast breakdown

- Over three quarters of our operating costs are directly associated with the operation and maintenance of the network
- The balance comprises various supporting functions



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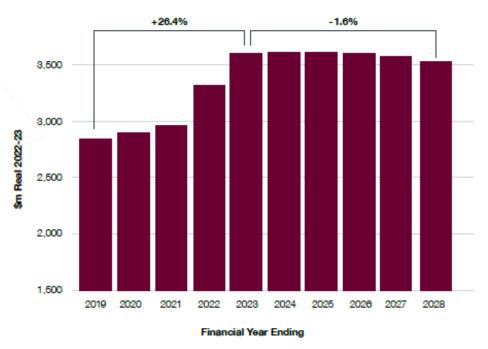
## Revenue 'Building Blocks'

Revenue Component	2019-23 Forecast	2024-28 Forecast	Comments
Return on Capital	802	753	Reflects a lower rate of return applied to an increased Regulatory Asset Base
Return of Capital (regulatory depreciation)	307	341	Reflects the size of the Regulatory Asset Base
Operating Expenditure	500	627 <sup>2</sup>	Forecast developed using the base step trend approach
Revenue Adjustments	-4	-11	Reflects EBSS and CESS payments
Net Tax Allowance	41	0	Reflects the new AER methodology - including the diminishing value method
Annual Building Block Revenue Requirement	1,646	1,709	

<sup>2</sup> Exceeds \$571m above because it includes debt raising costs of ~\$9m and intangible assets of ~\$46m.

EBSS - Efficiency Benefit Scheme CESS - Capital Expenditure Sharing Scheme

#### Closing Regulated Asset Base



The Regulated Asset Base is declining in real terms over the coming regulatory period based on the reduced capital program

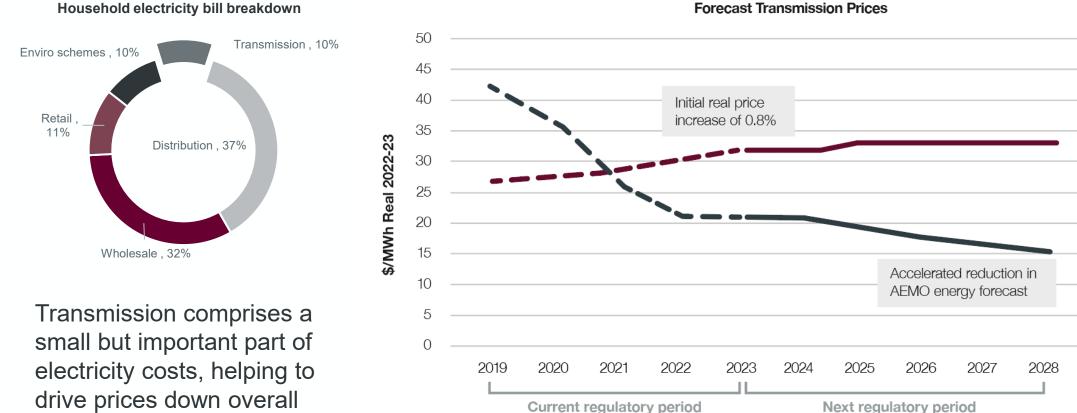
## **Transmission Prices**

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While revenue is falling, average transmission prices are forecast to rise slightly due to declining energy consumption from the grid



Forecast Transmission Prices

Revenue Proposal Overview \_\_\_\_\_ Energy Throughput - PRP

13,000

12,500

12,000

11,500

11,000

10,500

10,000

Indubno,

Energy

GWhs

## **Risks for customers**

### Risks

There are two key risk areas for customers in relation to this Revenue Proposal.

#### Risk 2

## Our Revenue may be insufficient to adequately manage the network

### 💥 Risk of underinvestment

Our customers benefit when we invest in the network, thus ensuring an ongoing safe, secure and reliable electricity supply. By the same token there is a risk associated with under investment. Deferring investment would allow for lower prices right now, but, as was pointed out by Energy Consumers Australia during our engagement process, this really just transfers the cost to future years. Too little investment creates risks to supply reliability, security and affordability in the short term and also increases the amount of investment required in future.

Given the importance of transmission services, the consequences of under investment tend to outweigh the risk of over investment.

## Risk 1 Our actual revenue requirement may exceed that forecast in this Revenue Proposal

The National Electricity Rules place a substantial onus on us to identify an efficient revenue requirement and they limit the circumstances in which this may be changed. Therefore, most of the revenue risk is with ElectraNet. However, there are some circumstances in which our revenue, and therefore the transmission prices our customers pay, might increase. These include:

#### Cost pass through events

Each of the nominated pass through events relate to risks that our customers bear. For instance, if we were to fall victim to a terror event our customers may experience electricity supply disruptions.

While treating these issues as pass through events places the risk on our customers, this is preferable to the alternative because, this way, customers will only bear the cost of these risks if they occur. Given the uncertainties inherent with them, this is more efficient than providing an upfront allowance in our building block costs.

#### Additional services

We are currently working to respond to a shortfall in Fast Frequency Response services in South Australia declared by AEMO. This could potentially result in additional service costs being passed to customers in the coming regulatory period.

Should this be confirmed in the coming months we will endeavour to reflect these costs as necessary in our Revised Revenue Proposal, for example as a Network Support allowance.

## Increases in interest rates or other financial market changes

Under the current guideline our rate of return will be reset each year to reflect prevailing conditions in financial markets. This is important to ensure our investors are fairly compensated for their investment, and therefore to ensure that future investment is possible. At the time of writing this Revenue Proposal Australia has enjoyed an extended period of low interest rates and benign financial markets. If these conditions change the cost we incur in financing our business will increase as will the prices our customers pay.

## Contingent and actionable ISP projects

The power system is changing rapidly as Australia transitions to a low emissions future. This means that there is significant uncertainty about the size and timing of some projects. This uncertainty is dealt with through the contingent project mechanism and, in more recent years, through the actionable ISP mechanism. Either of these might lead to increases in our capital expenditure, our RAB and, therefore, transmission prices. If they do, though, it will be because the AER, AEMO and others have determined that the relevant projects are in the long term interests of electricity customers, so their cost will be more than outweighed by other benefits.

## Thank You

Rainer Korte – Chief Executive
Simon Appleby – Group Executive Asset Management
Jeremy Tustin – Manager Regulation and Investment Planning

