TRANSMISSION NETWORK STAKEHOLDER FORUM

Classification: Public
Distribution: Stakeholder Forum

21 September 2016



TODAY'S AGENDA

- Welcome
- The transition to a low-carbon economy
- Our customer engagement program
- Our Preliminary Revenue Proposal
- Discussion



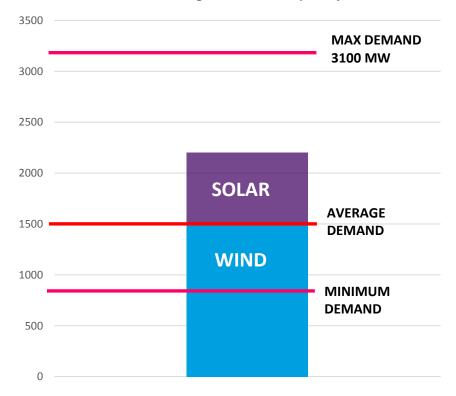


TRANSITIONING TO A LOW-CARBON ECONOMY

- South Australia has reached world-leading levels of renewable energy penetration
- Challenges are increasing from higher levels of intermittent renewable energy and less conventional thermal generation operating on the power system

ElectraNet has a key role to play in responding to these challenges

South Australian renewable generation capacity relative to demand





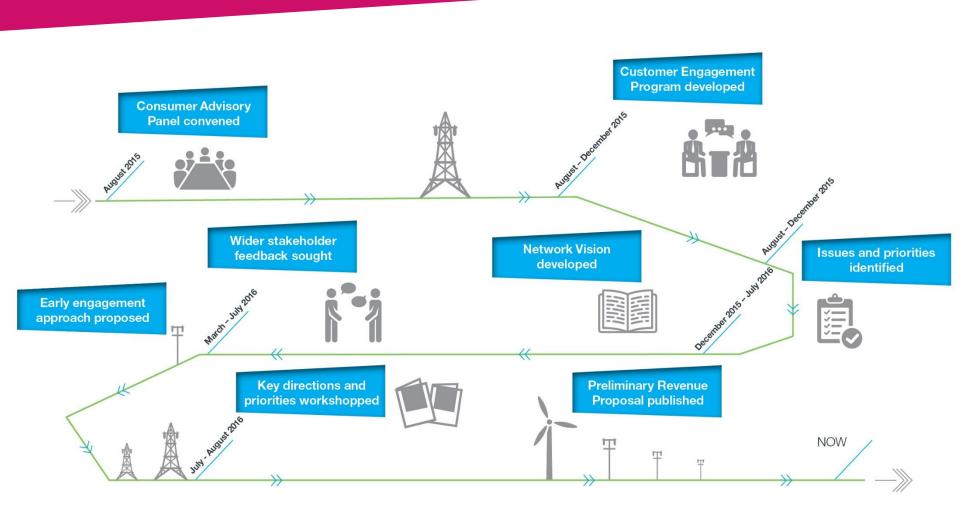


- The transmission network can help the nation meet renewable energy targets
- A strong, reliable and more interconnected transmission network is more important than ever
- While transmission charges are only a very small part of the electricity bill less than 10% for the average household – we continue to work hard to drive down our costs while maintaining the reliable network expected in a modern digital society



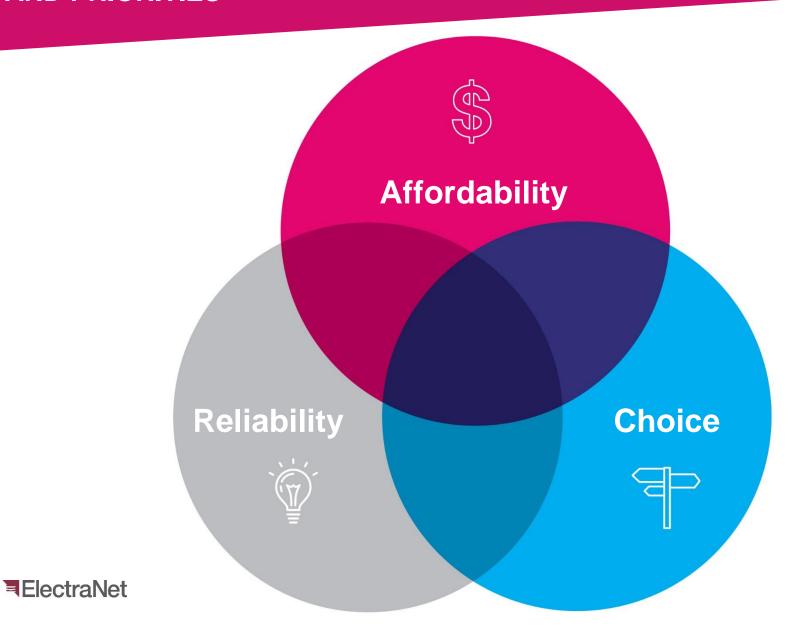


OUR CUSTOMER ENGAGEMENT STORY





CUSTOMER FEEDBACK INFORMED OUR DIRECTIONS AND PRIORITIES





ElectraNet's vision for South Australia's transmission network is that it will deliver affordable and reliable power supplies that support customer choices for a sustainable future.

The transmission network will continue to play an important role into the future to support safe, reliable and affordable electricity supply.

The ongoing uptake of distributed energy resources by customer is changing the role of the grid.

The generation mix is changing, creating new challenges for the secure and reliable operation of the grid.

New technologies are changing the way some network services can be delivered.







- The PRP presents our indicative expenditure plans, based on current assumptions which may change over the coming months
- The PRP is not an early submission of our revenue proposal
- It's about promoting effective early engagement, and giving customers and stakeholders an opportunity to provide feedback that we can take into account in our formal submission
- The early engagement approach, is an ElectraNet initiative, and a first for the industry and the AER
- It has the support of our Consumer Advisory Panel and the AER



TIMELINE AND PROCESS

Preliminary Revenue Proposal

Formal Revenue Proposal AER Draft Determination

AER Final Determination

6 Sep 2016

By 31 Jan 2017

Sep 2017

Apr 2018





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This Preliminary Revenue Proposal is intended to promote effective early engagement with ElectraNet's customers and stakeholders, develop shared understanding, and give customers and stakeholders an opportunity to provide feedback. It is not an early submission of ElectraNet's revenue proposal, either in whole or in part. ElectraNet will submit a formal revenue proposal to the Australian Energy Regulatory under Rule 6A.10.1 of the National Electricity Rules by 31 January 2017.



THE HEADLINES

Electricity Transmission Prices

↓13%

↓\$19&\$38

drop in indicative transmission prices in the first year of the 2019-2023 regulatory period to around 2.5c/kWh.

in annual savings for the average residential household and small business customer respectively



Maximum Allowable Revenue

lower in the first year of the 2019-2023 regulatory period at \$306m



Capital Expenditure

lower than the expenditure allowance in the 2014-2018 regulatory period at \$407m

Operating Expenditure

lower than trend expenditure allowance in the 2014-2018 regulatory period at \$434m 2014-2018 regulatory period at \$434m



Return

Rate of 75% in the 2014-2018 regulatory period indicative rate based on current market data





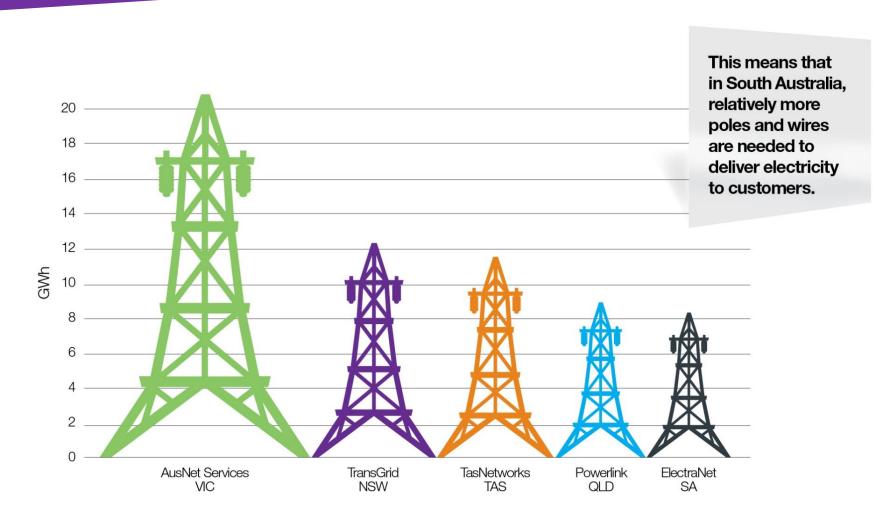




- Our network has lower economies of scale, the peakiest demand, the lowest customer density and among the oldest assets
- We have achieved significant operating and capital expenditure savings already, which result in lower costs and price outcomes for South Australian electricity customers
- We will have to continue to work hard to achieve further efficiencies
- These savings are significant given the unique challenges of the South Australian network

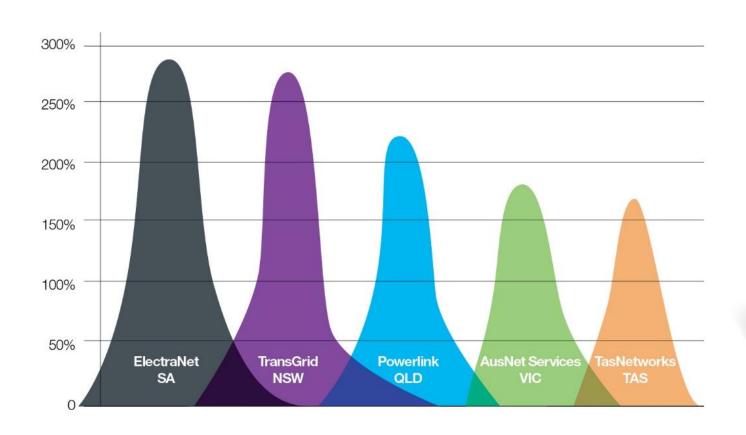


ELECTRICITY TRANSMITTED PER \$1M OF ASSETS





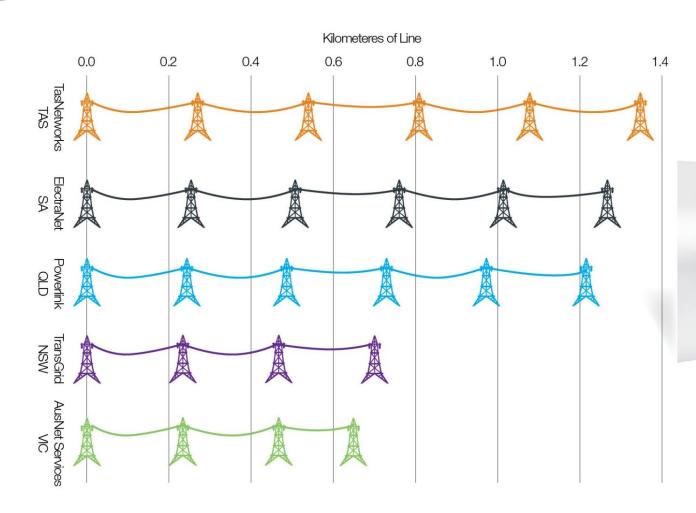
VERY 'PEAKY' DEMAND



A higher peak to average demand ratio requires more network capability and increases the unit cost of electricity in South Australia.



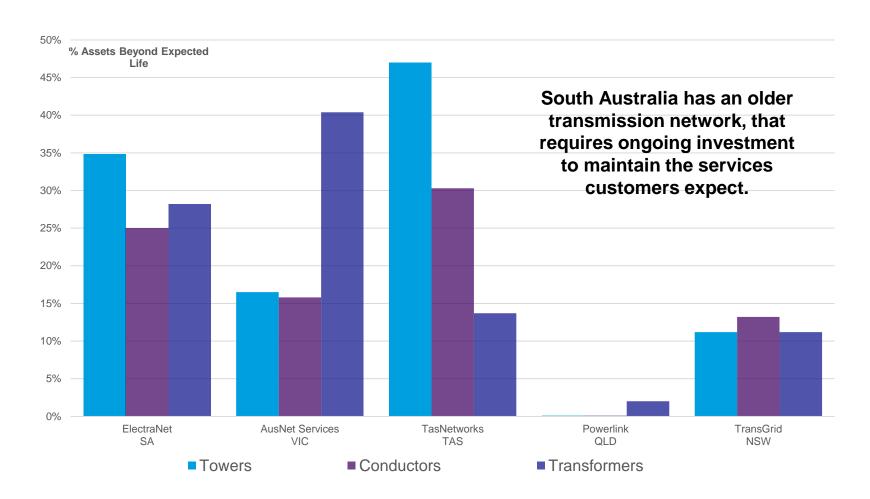
MORE ASSETS ARE REQUIRED TO MEET PEAK DEMAND



This means more poles and wires are needed to deliver each unit of electricity in South Australia at times of peak demand.

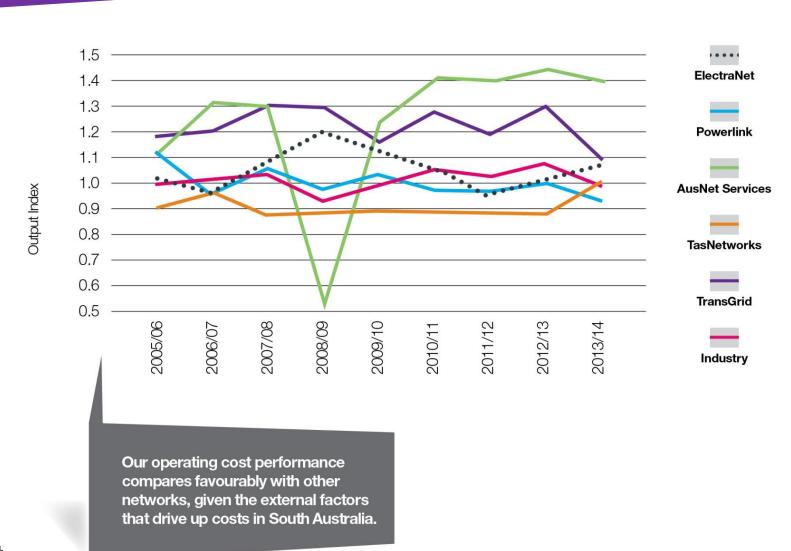


OUR ASSETS ARE OLDER

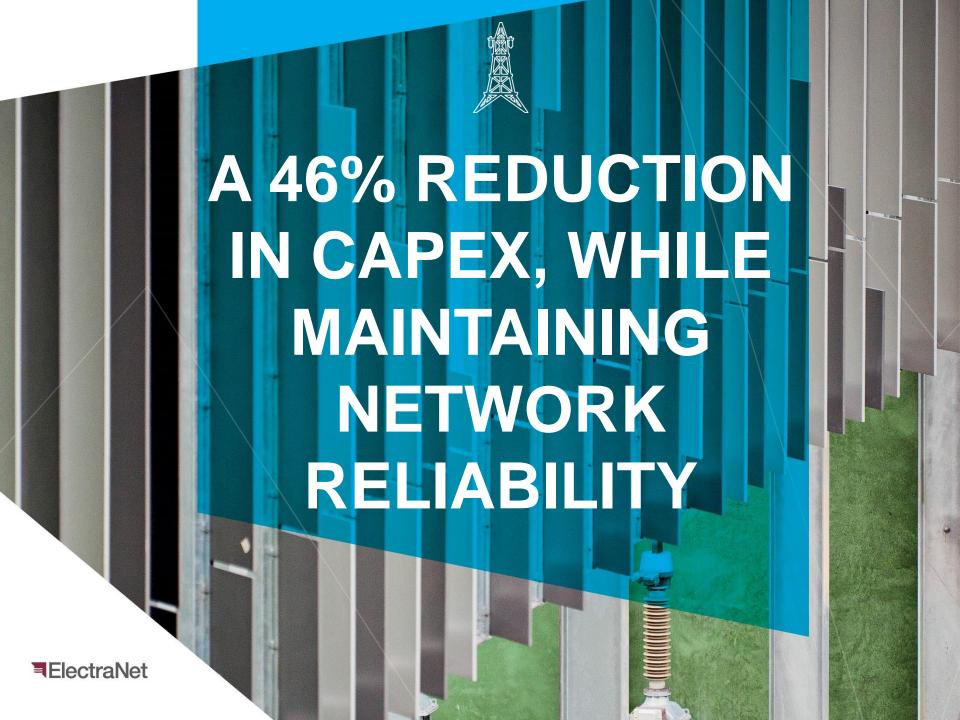




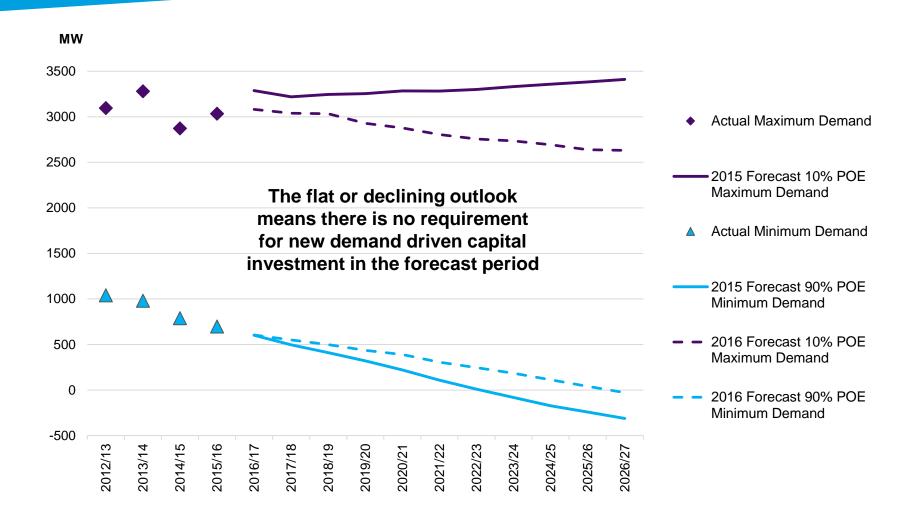
OUR PRODUCTIVITY COMPARES WELL





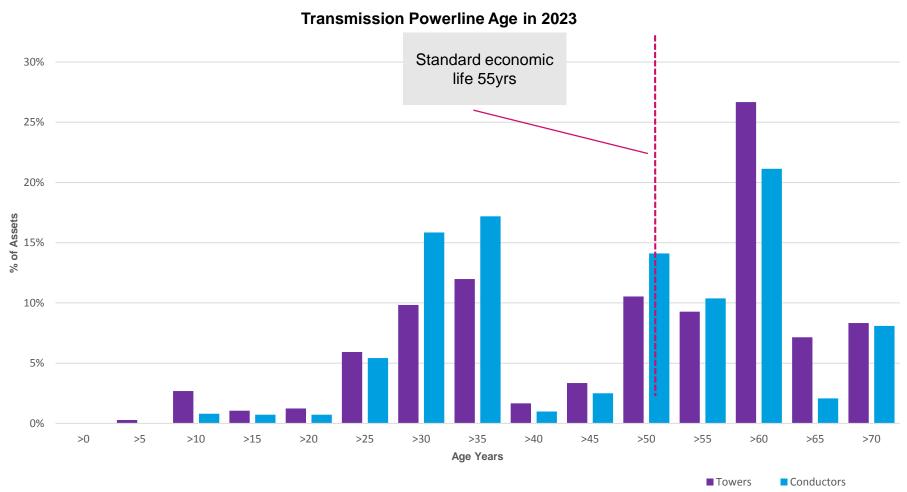


ACTUAL AND FORECAST DEMAND ON THE SOUTH AUSTRALIAN TRANSMISSION NETWORK





FOCUS WILL BE ON REFURBISHING OLDER LINES TO EXTEND THEIR USEFUL LIFE

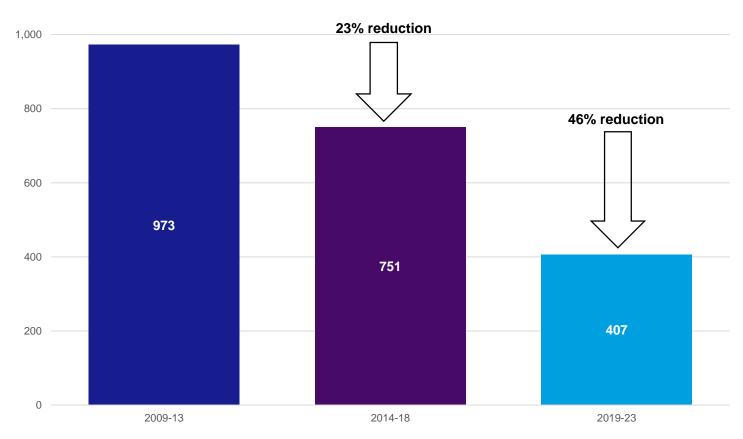




ACTUAL AND INDICATIVE FORECAST CAPITAL EXPENDITURE

Actual and indicative forecast capital expenditure

\$million Real 2017-18





BREAKDOWN OF ACTUAL AND INDICATIVE FORECAST CAPITAL EXPENDITURE

Category	Total forecast expenditure 2014- 2018 (\$ million)	Indicative forecast 2019-2023 (\$ million)	Change	Driver
Demand driven				
Augmentation	100	5	↓ 95	No new load driven augmentation, connection or strategic land requirements in declining demand environment
Connection	40	5	↓ 35	
Easement/land	34	0	↓ 34	
Replacement/ Refurbishment Replacement	367	209	↓ 159	Focus on component asset replacements with reduced need for large scale rebuilds – key expenditure drivers are to manage reliability and safety risk and contain escalating maintenance costs
Refurbishment	74	86	1 12	Key expenditure drivers are to extend the useful life of ageing transmission lines and manage safety, reliability and fire start risk
Security/ Compliance	61	40	↓ 21	Reduced requirements based on risks and opportunities addressed in current period – largely completion of current projects
Other			4	Ongoing replanishment program
Inventory/spares	12	12	0	Ongoing replenishment program
Information technology	57	44	↓ 13	Reduced program largely focused on ongoing replacement requirements
Facilities	5	6	1 2	Ongoing minor asset replacement
Total*	751	407	↓344	Reduction of 46%



^{*}Totals may not add due to rounding

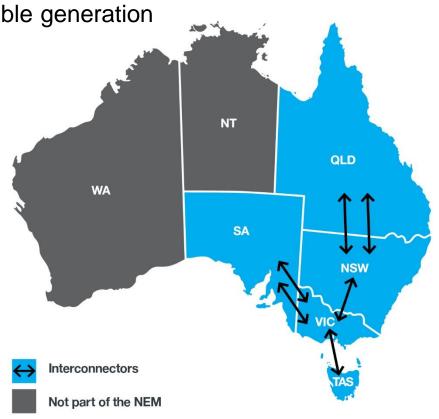
INCREASED INTERCONNECTION IS VITAL TO ACHIEVING AFFORDABLE AND RELIABLE SUPPLY

- The transmission network can help the nation meet renewable energy targets
- Increased interconnection across the National Electricity Market will
 - facilitate market competition between generation sources

open up the market to more renewable generation

deliver system security

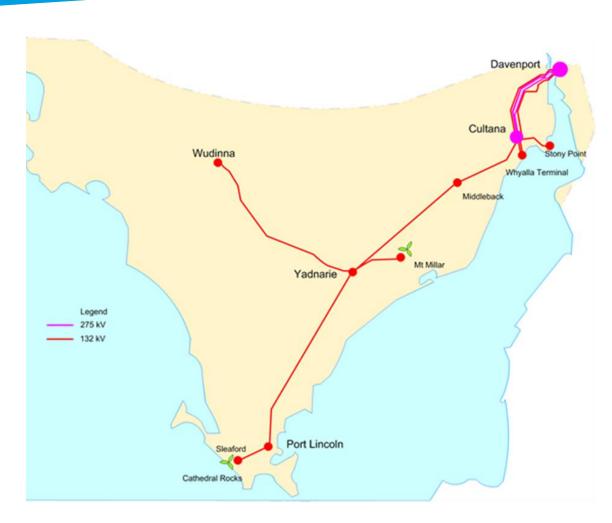
 Formal consultation on new interconnector investigation to be published in coming weeks





ENSURING RELIABLE SUPPLY TO EYRE PENINSULA

- ElectraNet is investigating the full rebuild of the transmission line supplying the Eyre Peninsula
- Partial line replacement is currently included in the forecasts at \$56m to replace component assets at end of life
- Full line replacement would only proceed if the benefits to customers exceed the costs



Electricity demand is about 100 MW south of Cultana with about 50 MW at Port Lincoln



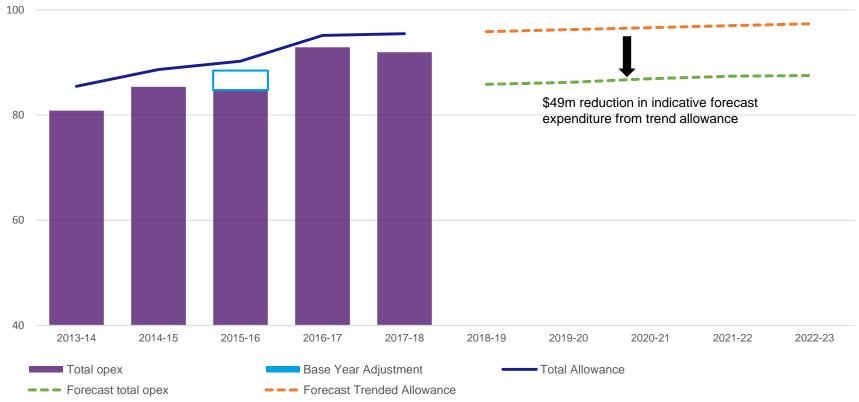


A 10% REDUCTION IN COSTS TO **OPERATE AND** MAINTAIN THE NETWORK



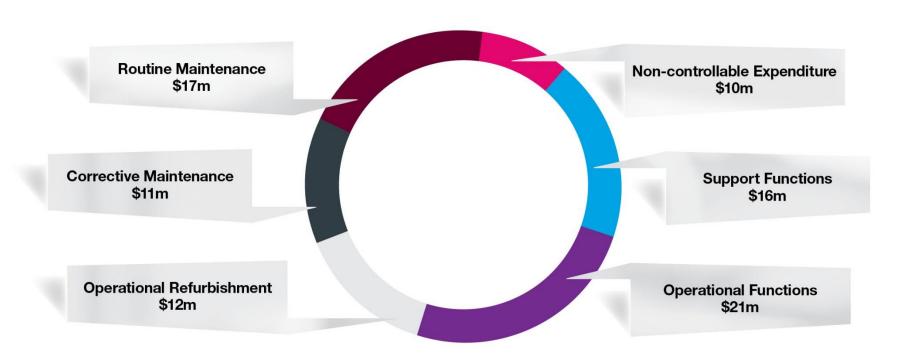
ACTUAL AND INDICATIVE FORECAST TOTAL OPERATING EXPENDITURE

\$ million real 2017-18





BREAKDOWN OF INDICATIVE FORECAST TOTAL OPERATING EXPENDITURE

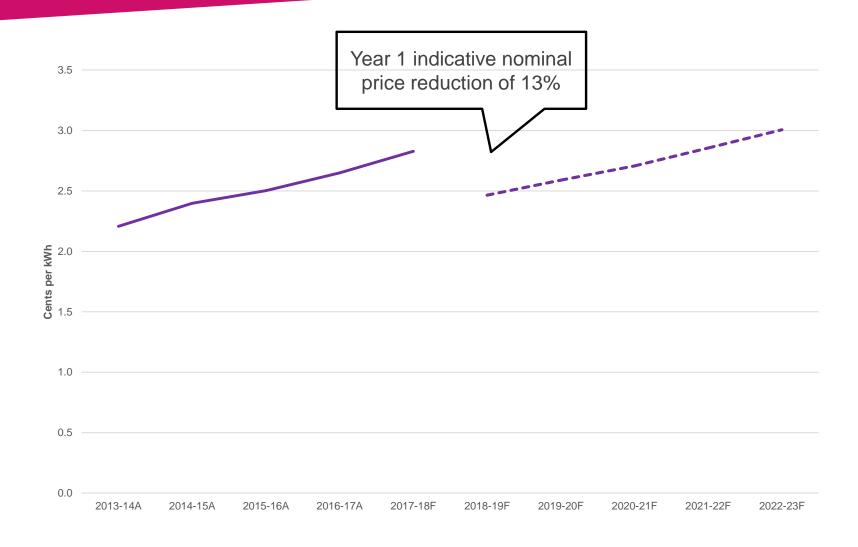


Around 70% of ElectraNet's annual operating expenditure is associated with direct maintenance and operation of the network





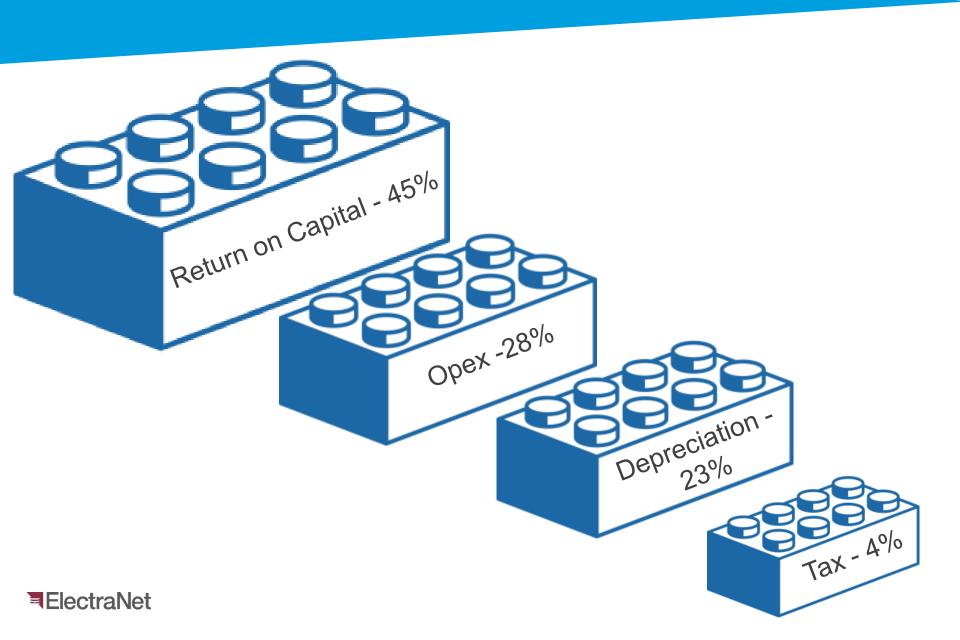
INDICATIVE TRANSMISSION REVENUE PATH







THE FINANCIAL BUILDING BLOCKS







- We're actively seeking feedback from electricity customers and our other stakeholders
- Online form to capture feedback
- Feedback due 11 October 2016
- Ongoing early engagement with the AER and customer representatives
- We will lodge a formal revenue proposal in January 2017, after reviewing and considering the feedback provided on the PRP



