

Monday, 19 November 2018

The Manager Company Announcements Australian Stock Exchange Limited 20 Bridge Street SYDNEY NSW 2000

Dear Sir / Madam

#### **ASIA ROADSHOW PRESENTATION**

I enclose the presentation to be delivered to investors in Hong Kong, Japan and Singapore from 20 to 22 November 2018.

Yours faithfully,

Alexandra Finley Company Secretary



## SPARK INFRASTRUCTURE – AT A GLANCE

### Australia's leading ASX listed electricity network owner

A\$3.8b market capitalisation<sup>1</sup>

S&P/ASX 100

**A\$6.0b** regulatory asset base (proportional)



A\$17b of total electricity network assets



Across three states



Supplying >5.5m homes and businesses



>5,100 employees

### Victoria Power Networks (CitiPower and Powercor)

49%

\$6.00bn

Spark Infrastructure ownership

Regulated Asset Base



**SKI** Proportional Asset Base

#### **SA Power Networks**

49%

Spark Infrastructure ownership

\$4.12bn

Regulated Asset Base



SKI Proportional Asset Base

#### **TransGrid**

**15%** 

Spark Infrastructure ownership

\$6.77bn

Regulated and Contracted Asset Base



SKI Proportional Asset Base

**Traditional** supply chain (but evolving)









Retailer

Customer &

## **KEY INVESTMENT PROPOSITION**

## Performance fundamentals and outlook for a new energy future remain solid despite continued energy policy uncertainty



Our networks are leaders in efficiency, reliability and safety

- Most efficient network assets with high levels of utilisation
- Strong track record of outperformance post-privatisation
- Well placed to benefit from industry structural change to new energy future



**Strong performance** metrics and balance sheet

- Delivered 6.9% operating cash flow growth in HY 2018
- Investment grade credit ratings



Strong cash vield of 7.0%(1)

- Forecast DPS growth of 4.9% to 16.0 cps in FY 2018
- 8.0 cps interim distribution declared
- Distribution growth of 'at least CPI' to 2020, subject to business conditions



**Supportive** characteristics

- High cash flow visibility to 2020
- Inflation-linked regulatory regime; increases in interest rates reflected in higher regulated revenues



opportunities in the new energy future

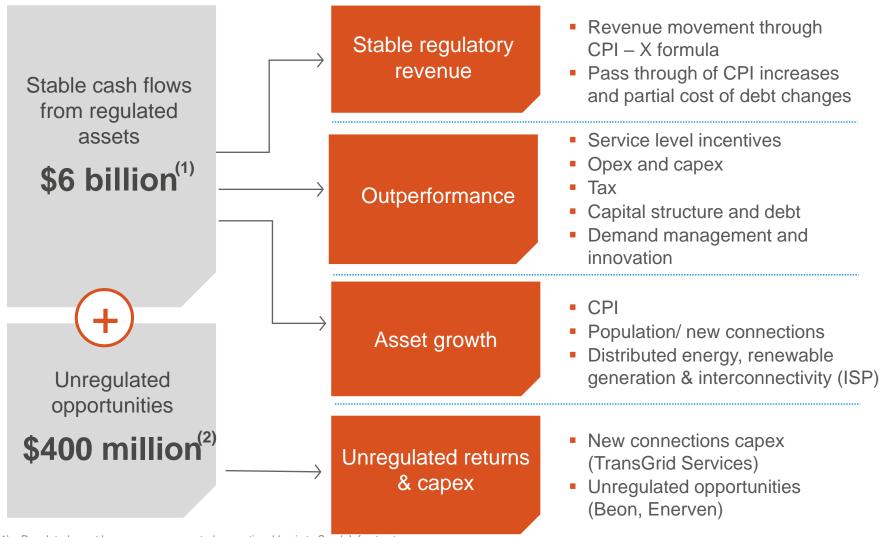
- Technology, customer preferences and generation mix are transforming the role of networks
- Distributed renewable generation, reliability requirements and efficient wholesale energy market operation reinforces role of the grid

OUR NETWORKS ARE GROWING EFFICIENTLY AND DELIVERING RELIABLE AND AFFORDABLE **ELECTRICITY TO CONSUMERS** 

<sup>(1)</sup> Based on 6 November 2018 closing price of \$2.28 and FY 2018 distribution guidance of 16.0 cps

## STABLE CASH FLOWS AND ASSET GROWTH

### Value creation from a portfolio of high-quality, long-life essential service infrastructure businesses



Regulated asset base, on an aggregated proportional basis to Spark Infrastructure

Contracted asset base, on 100% TransGrid basis

## FIRST HALF 2018 FINANCIAL HIGHLIGHTS



Stand-alone operating cash flow<sup>(1)</sup>

**\$130m** 



HY 2018 Distribution<sup>(2)</sup>

8.0 cps **Up 4.9%** 



Reaffirmed FY 2018 **Distribution guidance** 

16.0 cps

Up 4.9%



Efficiency benchmarking<sup>(3)</sup>

No. 1



Regulated asset base<sup>(4)</sup>

\$5.9bn

**Up 1.5%** 



Contracted asset base<sup>(5)</sup>

\$400m

**Up 12.7%** 



Net debt/Regulated & **Contracted asset** base<sup>(4)(6)</sup>

74.1%

- (1) Includes repayment of shareholder loans
- (2) Record date 5 September 2018; payable 14 September 2018
- (3) Powercor No.1 distribution network service provider in 2016; SA Power Networks No.1 on a state by state comparison in 2016
- (4) On an aggregated proportional basis to Spark Infrastructure
- On 100% TransGrid basis
- Excluding revenue over/under collections

## **OUR STRATEGIC VISION AND PRIORITIES**

We continue to evaluate opportunities to grow and diversify the portfolio through disciplined acquisition and to grow and develop into adjacent businesses

#### **OBJECTIVE**

**Delivering long** term value to Securityholders by building a portfolio of high-quality, long-life essential service infrastructure businesses

#### **BUSINESS MODEL**

**Managing for Performance** 

**Organic Growth** 

**Acquisition and Development led Growth** 

**ELECTRICITY NETWORKS** 



**RENEWABLE ENERGY** 



**ELECTRICITY STORAGE** 



GAS NETWORKS / **GAS STORAGE** 



WATER NETWORKS / WATER TREATMENT



DATA **NETWORKS** 



BY BUILDING SUSTAINABLE BUSINESSES AND HARNESSING THEIR EVOLVING GROWTH POTENTIAL WE WILL CONTINUE TO CREATE LONG-TERM VALUE FOR SECURITYHOLDERS

## STRONG FOCUS ON VALUE TO THE CUSTOMER

Our investment businesses continue to drive strong efficiency outcomes together with prudent investment, low user costs and strong reliability outcomes

#### Our assets have high efficiency...





BEST PERFORMING NETWORK (DISTRIBUTION)



#### **SA Power Networks**

MOST EFFICIENT STATE-WIDE NETWORK (DISTRIBUTION)

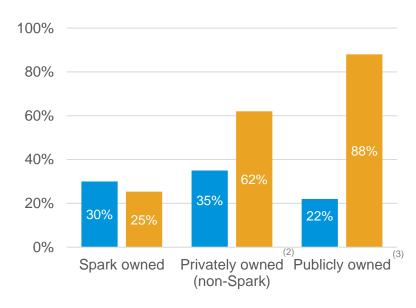


#### **TransGrid**

SECOND BEST PERFORMING NETWORK (TRANSMISSION)

#### ... and have not overinvested

DNSP RAB growth vs network use (2006 to 2016)<sup>1</sup>



- Change in network use (2006 to 2016)<sup>(1)</sup>
- Change in RAB (2006 to 2016)

THE EFFICIENCY OF OUR BUSINESSES HAS BEEN ACKNOWLEDGED BY THE ACCC - "RABS AND TARIFFS INCREASED SIGNIFICANTLY MORE IN PUBLICLY-OWNED NETWORKS THAN IN PRIVATE NETWORKS"

<sup>(1)</sup> Source: Spark analysis using AER 2017 distribution partial performance indicators 2012-2016. Network use calculated using Grattan Institute's 'Down to the Wire' 2018 report methodology: Network use = % change in customers + % change in peak demand (MW), where peak demand is maximum of the most recent 5 years; Excludes AMI RAB in VIC DNSPs

<sup>(2)</sup> Includes networks that were privately owned by entities other than Spark Infrastructure at the start of 2016, including United Energy, Jemena, AusNet Services, and ActewAGL.

<sup>3)</sup> Includes networks that were publicly owned at the start of 2016, including Ausgrid, Endeavour Energy, Essential Energy, Energex, Ergon and TasNetworks

## **OUTLOOK FOR DISTRIBUTION NETWORKS**

Distribution networks are critical in the transition to renewable generation; ongoing investment supported by solid growth drivers

#### Growth in network use is a key driver

As are changing customer requirements















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#### DISTRIBUTION SYSTEM OPERATOR ROLE GROWING IN IMPORTANCE

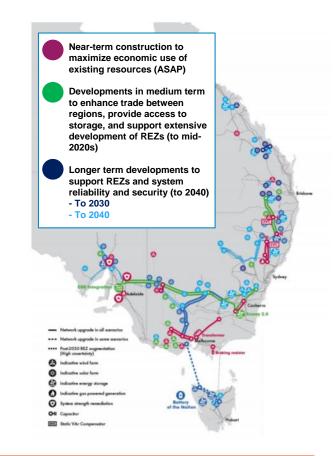
Source: Victoria State Government land use and population research; South Australia State Planning Commission population projects and demographics; AEMO National Electricity and Gas Forecasting portal maximum demand data; mid-point of Reserve Bank of Australia inflation target on average over time

Percentage of households installed. Source: management estimates, Clean Energy Regulator small-scale installation data, AEMO ISP 2018 database neutral scenario forecasts and Victoria Solar Homes program data. Assumes full roll out of Victoria State Government Solar Homes program to 650,000 homes

## **OUTLOOK FOR TRANSMISSION NETWORKS**

## AEMO's ISP indicates that total system savings of \$1.2b-\$2.0b are achievable with its integrated approach and new transmission investments outlined in the ISP

- AEMO notes that increased investment in transmission and interconnection will deliver the lowest-cost, most reliable power system that supports emissions abatement
- Net present cost to replace retiring generation and meet customer demand of \$8bn to \$27bn to 2040 - Spending 8-15% of this on transmission rather than generation yields \$1.2b-\$2.0b in reduced total system costs, providing important customer benefits
- Significant opportunities for TransGrid based on these ISP recommendations:
  - Immediate NEM-wide investment of \$450m \$650m<sup>1</sup>, including transfer capacity increases from Victoria to New South Wales and Queensland to New South Wales, totalling between 170 MW to 460 MW
  - Action to be taken now to initiate projects for implementation by mid-2020s of transfer capacity increases from NSW to SA (750 MW), QLD to NSW (378 MW) and network access to Snowy 2.0 pumped storage project
  - Longer-term developments to increase interconnection between NSW and Victoria (SnowyLink) and develop additional Renewable Energy Zones (REZs) in NSW and Queensland



INCREASING ROLE OF THE GRID IS THE LEAST COST SOLUTION FOR DELIVERING RELIABLE ENERGY THAT SUPPORTS EMISSIONS REDUCTIONS. TRANSGRID IS CENTRAL TO THE DEVELOPMENT OF THE NEM

<sup>(1)</sup> Includes all recommended immediate updates, including recommendations not directly related to TransGrid Source: AEMO. Integrated System Plan. July 2018

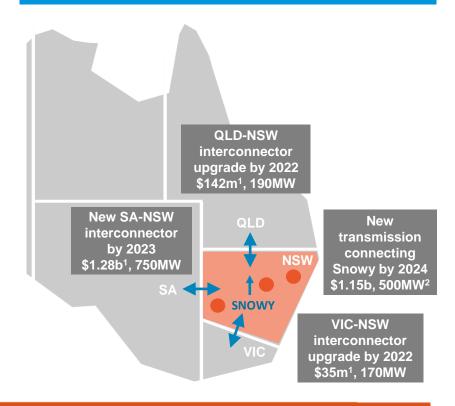
## **NSW TRANSMISSION STRATEGY A POSITIVE MOVE**

The NSW Government's plan provides important backing for key TransGrid projects and is forecast to benefit NSW energy bills by \$2.4b up to 2040

The NSW Government's strategy has three main objectives...

- Boost interconnection with Victoria, South Australia and Queensland, and increase connection to Snowy:
  - NSW Government to provide TransGrid with "funding guarantee" to accelerate planning work
- Increase NSW's energy capacity by prioritising three regional Energy Zones:
  - NSW Government to update planning and licensing frameworks to support efficient and timely investment in Energy Zones
- Streamline regulation and reduce barriers to transmission investment
  - NSW Government to work with other states and regulators to improve conditions for investment

... With an ambitious timeline for delivery that requires TransGrid's support



THE NSW GOVERNMENT'S PLAN PROVIDES A ROADMAP TO UNLOCK PRIVATE SECTOR INVESTMENT IN PRIORITY TRANSMISSION INFRASTRUCTURE PROJECTS

<sup>(1)</sup> Represents full capital cost, some of which may be funded by a transmission company in the state interconnecting with NSW

<sup>(2)</sup> Up to 2,600 MW with Snowy 2.0

Source: NSW Transmission Infrastructure Strategy, November 2018

## TRANSGRID IS INVESTING IN A RENEWABLE FUTURE

## TransGrid's unregulated business continues to construct and operate new connection assets, a business platform reinforced by AEMO's ISP

#### TransGrid's connections pipeline growing...

Project status	Number of projects	Stage 1 Capacity <sup>1</sup>	Revenue start date
Complete	8	1,095 MW	Jul 2017 – Aug 2018
Under construction	4	415 MW	FY19 Q4 – FY20 Q1
Total (complete + under construction)	12	1,510 MW	
Contracts executed <sup>2</sup>	3	799 MW	
Complete + under construction + contracts executed	15	2,309 MW	

#### ... to continue with Renewable Energy Zones

- Large scale renewables required AEMO's ISP neutral scenario forecasts 35 GW of new wind and large-scale PV to be built in the NEM by 2040
- **Developing Renewable Energy Zones (REZs)** can reduce costs by integrating generation, storage and transmission to optimise new generation build and transmission network spend, reduce losses, achieve more consistent generation output, and realise economies of scale
- **Developing REZs first in areas where** renewable resources are good and the transmission network is strong is recommended in AEMO's ISP to reduce overall costs for the NEM. The ISP identifies 8 optimal REZ development areas for the short to medium term, with three in NSW, two in QLD, two in SA and one in Victoria

IN THE PAST YEAR THE ENQUIRY PIPELINE<sup>3</sup> HAS TRIPLED DEMONSTRATING THE CONTINUED GROWTH POTENTIAL OF THE CONNECTIONS BUSINESS

- (1) Excludes Stage 2 additional capacity
- (2) Notice to proceed to construction is subject to financial close
- (3) Enquiry pipeline includes projects for which enquiries have been received but fees are not yet contracted

## **ENERGY AND REGULATORY POLICY ISSUES**

Spark Infrastructure seeks to constructively engage and influence policy outcomes

**Actively** protect and grow financial returns through outperformance

## Revenue decisions

Cash flow certainty to 2020

- TransGrid Final Decision current regulatory period to 30 June 2023
- SA Power Networks current regulatory period to 30 June 2020
- Victoria Power Networks current regulatory period to 31 December 2020

# **Energy** regulation

Continuing change, a destabilising effect

- Binding Rate of Return Guideline legislation
- Rate of Return Guideline Review
- Regulatory approach to tax
- Incentive framework reviews
- Regulatory **Investment Test**

# **Energy** policy

Future opportunities for growth

- AEMC Review of network regulation
- AEMC Open **Energy Networks**
- AEMO Integrated System Plan
- ACCC Electricity Retail Market Review
- National Energy Guarantee uncertain future

SPARK INFRASTRUCTURE HAS INCREASED LEADERSHIP ROLE IN POLICY AND REGULATORY **REVIEW PROCESSES** 

## **OUR INVESTMENT OPERATING PRIORITIES**

#### Managing for Performance and Organic Growth remain key focus areas across our investments in 2018-19



- Sustainable RAB arowth
- Prudent and efficient capital spend



- and outperformance
- Continued efficiency focus
- Further reliability and cost outperformance



**Optimising** financial efficiency

Ongoing work to optimise TransGrid's debt financing for unregulated CAB



- Strong growth in TransGrid CAB
- Further renewable opportunities at Beon and Enerven



**Engaging** with regulators

- Continued advocacy for integrity of regulatory framework
- VPN and SAPN 2020-25 revenue determinations

SPARK INFRASTRUCTURE REMAINS FOCUSED ON DRIVING GROWTH AND EFFICIENCY ACROSS **OUR PORTFOLIO** 

## **DISTRIBUTIONS AND TAX**

## No change to previously disclosed FY 2018 guidance and commentary

2018 DPS Guidance	<ul> <li>The Directors reaffirm distribution guidance for FY 2018, subject to business conditions, of 16.0 cps</li> </ul>
Distributions	<ul> <li>Spark Infrastructure anticipates that growth in distributions per security, through to the end of the regulatory determinations in 2020, will be at least CPI, subject to business conditions</li> <li>The current low inflation environment affects CPI-X adjusted revenue allowances that Spark Infrastructure's portfolio businesses are permitted to recover</li> </ul>
Tax	<ul> <li>Spark Infrastructure expects to become a taxpayer in the short term</li> <li>The timing and amount of tax payable will be dependent on a number of factors including: <ul> <li>underlying financial performance of Spark Infrastructure's investment portfolio businesses;</li> <li>tax timing differences; and, in the longer term</li> <li>outcome of existing disputes with the Australian Taxation Office</li> </ul> </li> <li>When we do pay tax, we would expect to be able to pass those tax credits up through the structure and on to Securityholders as franking credits, where applicable</li> </ul>

#### NO CHANGE IN DISTRIBUTION GUIDANCE FOR FY 2018 OR TAX OUTLOOK

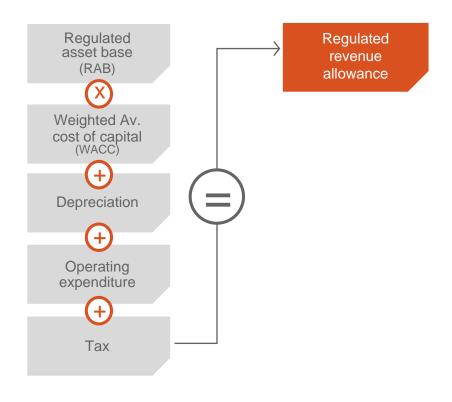
# **APPENDIX**

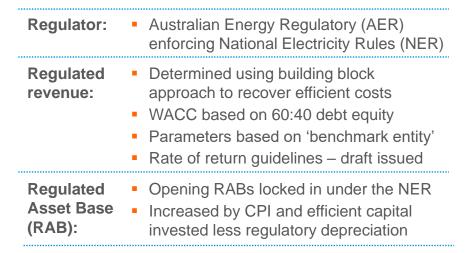
FURTHER INDUSTRY PERSPECTVES

## INCENTIVE-BASED REGULATORY FRAMEWORK

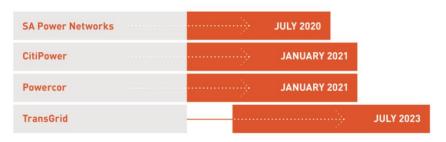
Well established regulatory process with resets every 5 years, based on CPI-X price formula

#### Revenue building blocks





### Regulatory resets – cash flow certainty to 2020



REGULATORY FRAMEWORK PROVIDES REVENUE CERTAINTY, INFLATION-LINKED REVENUE AND GIVES EFFICIENT BUSINESSES INCENTIVE AND OPPORTUNITY TO OUTPERFORM

## ROLE OF NETWORKS EXPANDING IN NEW FUTURE

## Networks are increasingly delivering more value-add services to the grid as technology and customer preferences evolve

#### From a stable, high emissions, centralised energy system...

- Dozens of dispatchable thermal generators in total system
- New large-scale plant built every few years
- Small gains from regional interconnection due to:
  - Similar marginal cost of generation
  - Similar output profiles of power plants
- Customers as passive recipients of one way flow of energy, with limited technologies available to manage their energy

#### ...To a dynamic, low emissions, decentralised energy system

- Nearly two million solar PV rooftops in system today
- Dozens of large-scale renewable plants built each year
- Large gains from regional interconnection due to:
  - Differing marginal cost of generation
  - Intermittent and less correlated output profiles
- Customers as active participants in multi-directional flow of energy, with proliferation of new energy technologies available

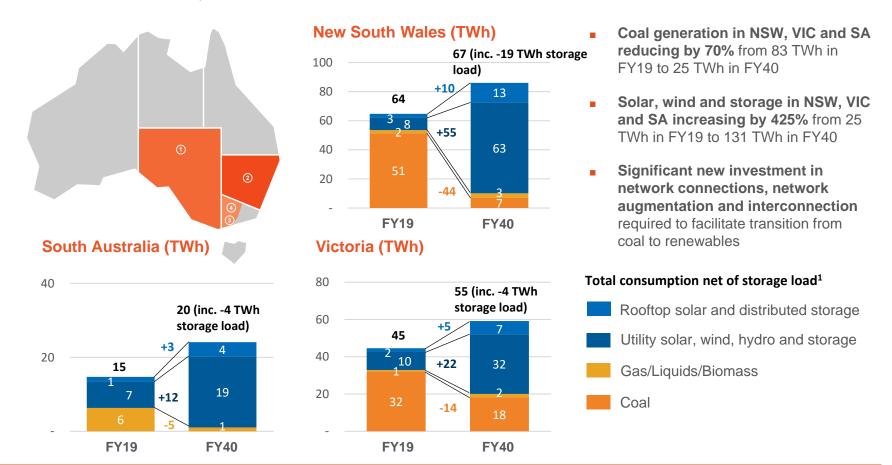
#### ... Leading to an increased role for networks

- Networks managing more complex two way energy flows
- Networks connecting large-scale generation, storage and firming services more frequently
- Greater opportunity for interconnection investment to reduce total system costs and ensure network security
- Optimised renewable energy zoning to assist market balancing
- Networks critical to managing millions of distributed energy resources to strengthen system and enable customer choice

NETWORKS SHIFTING FROM CONVENTIONAL MIDDLEMEN IN THE VALUE CHAIN TO BEING AT THE CENTRE OF A COMPLEX SYSTEM, FACILITATING FLOWS OF ENERGY THROUGHOUT THE VALUE CHAIN

## **GENERATION MIX TO CHANGE SIGNIFICANTLY**

## The AEMO ISP neutral scenario predicts significant changes in the generation mix in New South Wales, Victoria and South Australia between FY19 and FY40



OUR NETWORKS ARE WELL PLACED TO BENEFIT FROM INCREASED REQUIREMENT FOR NETWORK CONNECTION, AUGMENTATION AND INTERCONNECTION

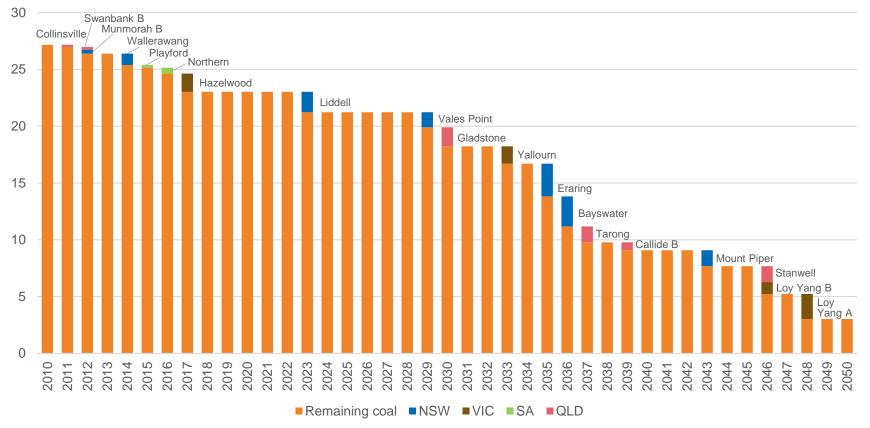
<sup>(1)</sup> Storage load represents consumption of electricity by distributed and utility storage

Source: AEMO 2018 Integrated System Plan Neutral Scenario, July 2018

## **COAL CLOSURES REQUIRE NEW INVESTMENT**

NEM coal capacity forecast to decrease by 20% from FY19 to FY30 and by 60% from FY19 to FY40 as Australia's coal-fired generating fleet ages and capacity is removed

#### **Generation capacity (GW)**

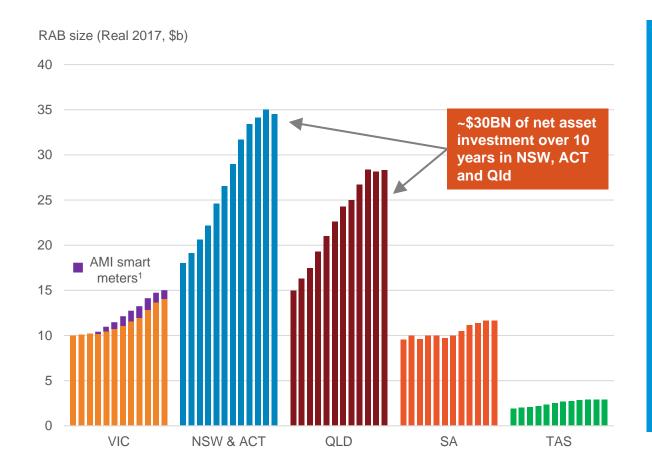


NEW GENERATION REQUIRES NETWORK CONNECTION, AUGMENTATION AND INTERCONNECTION

Source: Australian Energy Council, 2017. AEMO 2018 Integrated System Plan, July 2018. TransGrid 2017 Transmission Annual Planning Report, June 2017

### GOVERNMENTS HAVE DRIVEN NETWORK SPENDING

#### Regulatory Asset Base From 2006 – 2017 FY NEM Region



#### The ACCC says...

"In NSW, Queensland and Tasmania there has been significant over-investment in state-owned networks, driven primarily by excessive reliability standards"

"The RABs in Queensland, NSW and to a lesser extent Tasmania grew at a much greater rate than in South Australia and Victoria"

"In Victoria ... 17 per cent of the network costs are due to the government-mandated distributor rollout of smart meters."

"Retail Electricity Inquiry - Final Report"

- ACCC, June 2018

#### NSW AND QLD GOVERNMENT RELIABILITY REQUIREMENTS HAVE DRIVEN DISTRIBUTION **NETWORK RAB GROWTH AND OPERATING INEFFICIENCIES**

<sup>(1)</sup> Source: AMI RAB tab from 2016-20 AER final decision opening metering regulatory asset base files for CitiPower, Powercor, Jemena, United Energy and SP Ausnet. Note: Over the AMI roll-out period of 2009-2015, the AER's regulatory determinations allowed Victorian distributors to recover \$2.35bn (\$ nominal) from consumers.

<sup>(2)</sup> Source: AER economic benchmarking, Regulatory Information Notice responses

## STABLE DISTRIBUTION CHARGES IN RESIDENTIAL BILLS

# In Victoria and South Australia, our businesses' distribution charges are ~25% of a typical household bill

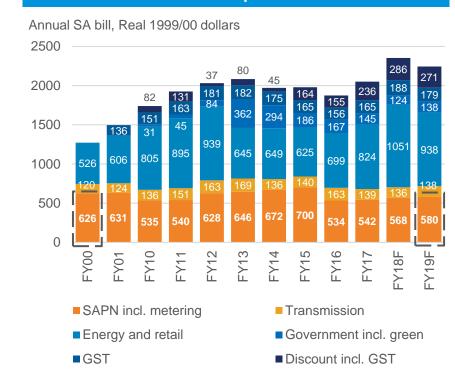
#### SAPN

- Distribution prices reduced by 9% in real terms between 2000 and 2018 and now represent 26% of a typical household bill
- SAPN's 2020-25 draft plan forecasts further reductions of \$37 in FY21 for residential customers and \$148 in FY21 for small and medium businesses<sup>1</sup>

#### **VPN**

 Between 2007/08 and 2017/2018 CitiPower's real distribution prices declined by 1% and Powercor's real distribution prices declined by 6%<sup>2</sup>

# In South Australia, distribution network costs have reduced in real terms since privatisation in 1999

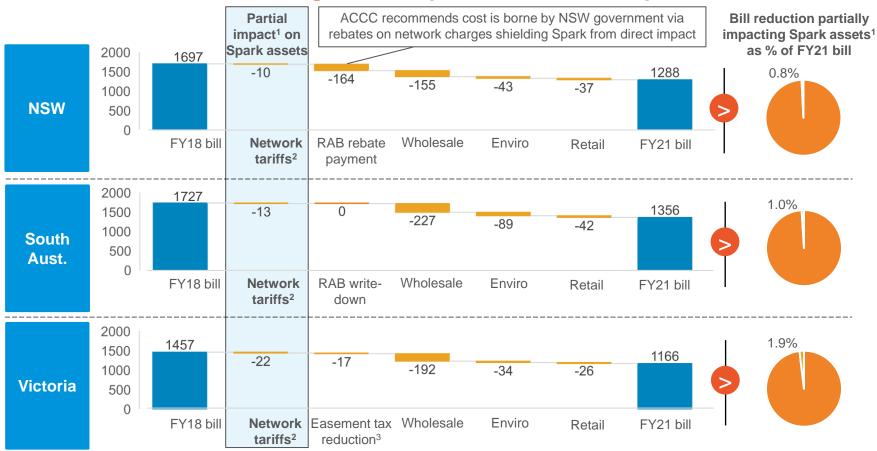


#### PRIVATISED NETWORK BUSINESSES ARE NOT THE CAUSE OF RECENT NETWORK PRICE INCREASES

- (1) SAPN draft 2020-25 plan, August 2018
- (2) After removing Advanced Metering Infrastructure (AMI) which was a Victorian Government mandated roll-out

## **ACCC NOTES EFFICIENCY OF PRIVATE NETWORKS**

The recommendations from the ACCC's Retail Electricity Pricing Inquiry have impacts across the value chain, although these impacts are smaller for private networks



NSW RAB REBATE PAYMENT TO BE BORNE BY NSW GOVERNMENT IF IT PROCEEDS AND NETWORK TARIFF REDUCTIONS ALREADY EMBEDDED IN PUBLICLY AVAILABLE AER INFORMATION

Network tariff reductions only partially impact Spark assets as they include tariff reductions for all transmission and distribution companies in each state

Network tariff reductions comprise determinations the AER has made or is consulting on for the period to 2023 (i.e. reductions are not additional to existing AER process)

Recommended reduction in easement tax incurred by AusNet Services transmission network

## TRANSGRID IS INVESTING IN A RENEWABLE FUTURE

## TransGrid's unregulated business continues to construct and operate new connection assets, servicing renewable energy and new large power users

Project	Status	Stage 1 Capacity <sup>1</sup>	Revenue start date
White Rock Wind Farm	Complete	175 MW	July 2017
Parkes and Griffiths Solar Farms	Complete	96 MW	August 2017
Deer Park Terminal Station	Complete	N/A (Load growth project)	November 2017
Sapphire Wind Farm	Complete	270 MW	December 2017
Silverton Wind Farm	Complete	200 MW	March 2018
Bodangora Wind Farm	Complete	113 MW	July 2018
Crookwell II Wind Farm	Complete	91 MW	August 2018
Coleambally Solar Farm	Complete	150 MW	August 2018
Beryl Solar Farm	Under construction	120 MW	Q4 2019
Crudine Ridge Wind Farm	Under construction	138 MW	Q4 2019
Goonumbla Solar Farm	Under construction	87 MW	Q1 2020
Metz Solar Farm	Under construction	70 MW	Q1 2020
Various Projects	Contracts executed <sup>2</sup>	799 MW	2020
Total: 15 Projects	Complete/ Under construction/ Contracts executed	2,309 MW	

#### IN THE PAST YEAR THE ENQUIRY PIPELINE<sup>3</sup> HAS TRIPLED DEMONSTRATING THE CONTINUED GROWTH POTENTIAL OF THE CONNECTIONS BUSINESS

- (1) Excludes Stage 2 additional capacity
- (2) Notice to proceed to construction is subject to financial close
- (3) Enquiry pipeline includes projects for which enquiries have been received but fees are not yet contracted

# **APPENDIX**

FINANCIAL **INFORMATION** 

# SPARK INFRASTRUCTURE'S FINANCIAL RESULTS

## ADJUSTED PROPORTIONAL PERFORMANCE

#### Revenue growth and strong cost control has delivered solid EBITDA growth

Adjusted Proportional Results (Spark Infrastructure share) (\$m)	HY 2018	HY 2017	Change
Distribution and transmission revenue	481.2	460.9	
Other revenue	82.3	72.4	
Total Revenue	563.5	533.3	5.7%
Operating costs <sup>(1)</sup>	(150.0)	(150.6)	
Beon margin	2.3	1.7	
Enerven margin	4.4	6.2	
EBITDA	420.2	390.5	7.6%
Net external finance costs	(82.9)	(85.0)	
EBTDA	337.4	305.6	10.4%

Proportional HY 2017 EBITDA	\$390.5m
Change in VPN EBITDA	\$26.8m
Change in SAPN EBITDA <sup>(1)</sup>	(\$0.9m)
Change in TransGrid EBITDA	\$3.8m
Proportional HY 2018 EBITDA	\$420.2m

#### SPARK INFRASTRUCTURE AGGREGATED PROPORTIONAL EBTDA HAS INCREASED BY 10.4%

<sup>(1)</sup> Adjustments:

<sup>-</sup> HY 2018: Excludes SA Power Networks release of excess December 2016 storm provision in HY 2018, ultimately not required \$3.0m

<sup>-</sup> HY 2017: Excludes SA Power Networks release of excess December 2016 storm provisions in HY 2017, ultimately not required \$6.9m

## **OPERATING CASH FLOW**

## Improved distributions across Spark Infrastructure's investment businesses

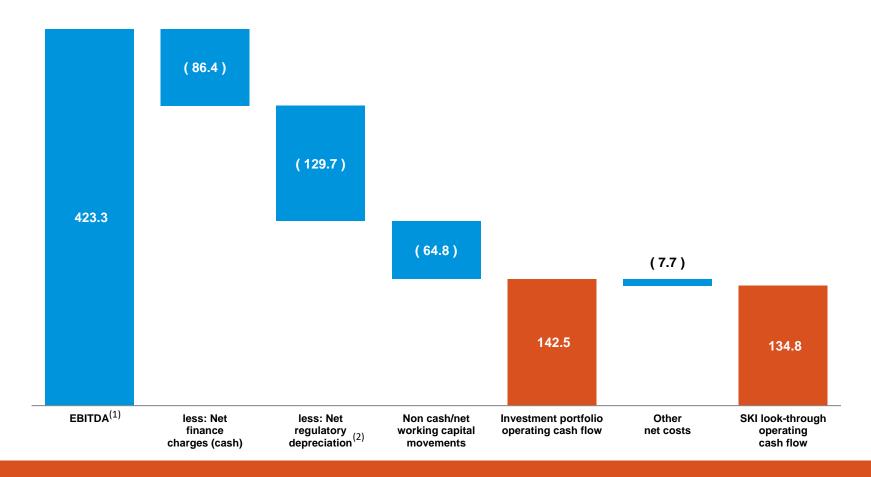
Operating Cash Flow (\$m)	HY 2018	HY 2017	Change
Investment Portfolio Distributions			
Victoria Power Networks <sup>(1)</sup>	74.7	73.5	1.6%
SA Power Networks	54.7	54.2	0.9%
TransGrid	8.6	4.6	87.0%
Total Investment Portfolio Distributions	138.0	132.3	4.3%
Net interest received/(paid)	0.4	0.2	
Corporate expenses	(7.5)	(7.2)	
Project expenses	(0.6)	(3.4)	
Standalone OCF	130.3	121.9	6.9%
Standalone OCF per Security	7.7 cps	7.2 cps	
Spark Infrastructure Distribution per Security	8.0 cps	7.625 cps	4.9%

#### SPARK INFRASTRUCTURE OPERATING CASH FLOWS HAVE GROWN BY 6.9%

<sup>(1)</sup> Victoria Power Networks distributions include both interest on and repayment of shareholder loans. Repayments of loan principal are classified as investing activities for statutory reporting purposes

## LOOK-THROUGH OPERATING CASH FLOW

### Look-through operating cash flow on a proportional ownership basis



#### SPARK INFRASTRUCTURE LOOK-THROUGH OPERATING CASH FLOWS HAVE INCREASED BY \$8.9M

<sup>(1)</sup> EBITDA excludes customer contributions and gifted assets and includes 'true-up' of DUOS/TUOS to revenue cap

<sup>(2)</sup> Net regulatory depreciation is calculated based on actual inflation. Applying the regulatory assumed inflation rates reduces net regulatory depreciation to \$115.3m

# **OUR INVESTMENTS'** FINANCIAL RESULTS

## **VICTORIA POWER NETWORKS**

#### Reduction in operating costs drives EBITDA increase of 14.6%

Financial (\$m) <sup>(1)</sup>	HY 2018	HY 2017	Change
Regulated revenue	473.0	441.2	
Prescribed metering ("AMI")	40.2	50.4	
Semi-regulated revenue	27.1	21.9	
Unregulated revenue	26.4	18.1	
Total Revenue	566.7	531.6	6.6%
Operating costs	(143.0)	(161.4)	
Beon margin	4.6	3.4	
EBITDA	428.3	373.6	14.6%
Other			
Net finance costs <sup>(2)</sup>	(72.0)	(76.7)	
Net capital expenditure	211.1	174.5	
Distributions received by SKI	74.7	73.5	1.6%

CPI-X	\$22.8m
STPIS <sup>(3)</sup>	<b>\$9.0m</b> (down \$1.3m on HY 2017)
Customer Growth <sup>(4)</sup>	1.3%
Consumption Growth <sup>(4)</sup>	0.03%
FTE Change <sup>(5)</sup>	1.5%
Net Debt / RAB	71.0%

#### SUPPORTED BY LONG TERM CUSTOMER GROWTH, VICTORIA POWER NETWORKS HAS CONTINUED TO **INVEST IN THE NETWORK**

<sup>(1) 100%</sup> basis (2) Includes non-cash credit valuation hedge gain of \$8.1m (HY 2017: nil)

<sup>(3) 2016</sup> STPIS result recovered from 1 January 2018 i.e. 50% recovered in HY2018

<sup>(4)</sup> Compared with HY 2017 (5) Compared with December 2017

## **VICTORIA POWER NETWORKS**

## **Key financial drivers**

	<ul><li>From 1 January 2018 CPI of 1.93%</li></ul>
Regulated Revenue Up by 7.2%	<ul> <li>X-factors for Powercor: -0.81% and CitiPower: -0.05% representing a real increase in revenue before CPI</li> </ul>
	<ul><li>\$9.0m STPIS recovery included within distribution revenue, down \$1.3m</li></ul>
Degulated Asset Base	<ul> <li>RAB increased to \$6,001m</li> </ul>
Regulated Asset Base Up by 1.8%	<ul> <li>Increase driven by net capex of \$211m, less regulatory depreciation of \$185m, and includes a CPI uplift of \$57m</li> </ul>
	Semi-regulated revenue: up 23.7% - increased connection design services
Other Revenue Up by 3.7%	<ul> <li>Unregulated revenue: up 45.9% - RERT<sup>(1)</sup> scheme, additional service level agreement projects and sale of properties</li> </ul>
	AMI revenue: down 20.2% - depreciating RAB
Operating Costs (ex Beon) Down by 11.4%	<ul> <li>Continued productivity and efficiency improvements</li> <li>Lower vegetation costs</li> <li>Higher capitalisation of labour costs due to increased number of capital projects</li> </ul>
	<ul> <li>Growth capex of \$142.0m up 16.7% (network connections and augmentation) –</li> </ul>
Net Capital Expenditure Up by 21.0%	continuation of REFCL <sup>(2)</sup> program
Op by 21.0%	<ul> <li>Maintenance capex of \$69.1m up 31.1% - zone substation replacement projects</li> </ul>

#### VICTORIA POWER NETWORKS RAB HAS INCREASED 1.8% OVER THE LAST 6 MONTHS

- (1) Reliability and Emergency Reserve Trader
- (2) Rapid Earth Fault Current Limiter

## SA POWER NETWORKS

### Revenue growth offset by unregulated operating costs

Financial (\$m) <sup>(1)</sup>	HY 2018	HY 2017	Change
Regulated revenue	398.1	387.3	
Semi-regulated revenue	41.4	40.9	
Unregulated revenue	5.4	5.5	
Total Revenue	444.9	433.7	2.6%
Operating costs <sup>(2)</sup>	(118.6)	(101.3)	
Enerven margin	8.9	12.7	
EBITDA	335.2	345.1	-2.9%
Other			
Net finance costs <sup>(3)</sup>	(54.5)	(63.7)	
Net capital expenditure	207.8	164.0	
Distributions received by SKI	54.7	54.2	0.9%

CPI-X	\$8.9m
STPIS <sup>(4)</sup>	\$13.8m (up \$5.5m on HY 2017)
Customer Growth <sup>(5)</sup>	0.6%
Consumption Growth <sup>(5)</sup>	(1.0%)
FTE Change <sup>(6)</sup>	3.1%
Net Debt / RAB	74.7%

#### SA POWER NETWORKS HAS SIGNIFICANTLY INCREASED CAPITAL EXPENDITURE IN HY 2018

<sup>(1) 100%</sup> basis (2) Includes \$6.2m release of GSL provisions in HY2018 relating to storms in December 2016 (HY2017 includes \$14.2m release), ultimately not required

<sup>(3)</sup> Includes non-cash credit valuation hedge gain of \$9.3m (HY 2017: \$0.3m loss) (4) 2015/16 STPIS result recovered from 1 July 2017

<sup>(5)</sup> Compared with HY 2017 (6) Compared with December 2017

## SA POWER NETWORKS

#### **Key financial drivers**

<b>Regulated Revenue</b>	
Up by 2.8%	

- CPI of 1.48% from 1 July 2017
- X-factor applicable from 1 July 2017 was -0.94% representing a real increase in revenue before CPI
- From 1 July 2018 CPI was 1.91% and X-factor was -0.74% (increase)
- \$13.8m STPIS recovery, up \$5.5m

#### **Regulated Asset Base Up by 1.7%**

- RAB increased to \$4,119m
- Increase driven by net capex of \$176m, less regulatory depreciation of \$151m. and includes a CPI uplift of \$38m

#### **Other Revenue** Up by 0.9%

Semi-regulated revenue: up 1.2% - higher metering services and pole/duct rental

#### **Underlying Operating** Costs (ex Enerven) Up by 8.1%(1)

- Increased vegetation costs, emergency response and network maintenance costs
- Offset by reduced asset relocation activity and continued workforce productivity and efficiency

#### **Net Capital Expenditure Up by 26.7%**

- Growth capex of \$76.2m up 15.6% network connections and augmentation
- Maintenance capex of \$131.6m up 34.1% undersea cable connecting Kangaroo Island to the South Australia mainland

#### SA POWER NETWORKS HAS SEEN RAB GROWTH OF 1.7% OVER THE 6 MONTHS

(1) Excluding \$6.2m release of GSL provisions in HY2018 relating to storms in December 2016 (HY2017 excluding \$14.2m release), ultimately not required

## **TRANSGRID**

## Investing in RAB and CAB while reducing regulated operating costs

Financial (\$m) <sup>(1)</sup>	HY 2018	HY 2017	Change
Regulated revenue	362.4	366.0	
Unregulated revenue	81.7	29.3	
Other revenue	8.2	6.8	
Total Revenue	452.3	402.1	12.5%
Regulated operating costs	(75.9)	(88.7)	
Unregulated operating costs	(48.9)	(10.7)	
EBITDA	327.5	302.7	8.2%
Other			
Net finance costs <sup>(2)</sup>	(139.6)	(108.0)	
Regulated capital expenditure	(101.4)	(101.4)	
Unregulated capital expenditure	(44.4)	(36.9)	
Distributions received by SKI	8.6	4.6	87.0%

CPI-X	(\$9.0m)
STPIS <sup>(3)</sup>	<b>\$7.8m</b> (up \$1.7m on HY 2017)
RAB <sup>(4)</sup> Growth	0.5%
CAB <sup>(4)(5)</sup> Growth	12.7%
FTE Change <sup>(4)</sup>	(2.4%)
Net Debt <sup>(6)</sup> / RCAB <sup>(5)</sup>	82.1%

#### CAPITAL INVESTMENT IN NEW UNREGULATED CONNECTIONS CONTINUES TO BUILD TRANSGRID **CONTRACTED ASSET BASE**

<sup>1) 100%</sup> basis 2) HY 2018 includes accelerated amortisation of \$27m capitalised debt transaction costs resulting from the debt refinancing transaction in June 2018

<sup>2016</sup> STPIS result recovered from 1 July 2017 4) Compared with December 2017

CAB comprises of unregulated infrastructure and telecommunication assets and investment property 6) Excluding revenue over/under collections

## **TRANSGRID**

## **Key financial regulated business drivers**

Regulated Revenue Down by 1.0%	<ul> <li>CPI of 1.48% from 1 July 2017</li> <li>X-factor from 1 July 2017 was 3.94% representing a real decrease in revenue before CPI</li> <li>The AER's determination set the MAR for 2018/19 so no CPI-X calculation is applied. The MAR for 2018/19 is 3% higher in nominal terms and 0.5% in real terms than the</li> </ul>
	MAR for 2017/18.  • \$7.8m STPIS recovery, up \$1.7m
Regulated Asset Base Up by 0.5%	<ul> <li>RAB increased to \$6,371m</li> <li>Increase driven by capital expenditure of \$101m, less regulatory depreciation of \$133m, and includes a CPI uplift of \$60m</li> </ul>
Operating Costs Down by 14.4%	<ul> <li>Assessed by the AER to be an efficient operator</li> <li>Maintenance efficiencies achieved and procurement savings delivered in the areas of IT, telecommunications operations and insurance placement</li> </ul>
Capital Expenditure In line with H1 2017	<ul> <li>Growth capex of \$3.6m (up 2.9%)</li> <li>Maintenance capex of \$76.5m (down 5.1%) – consistent with regulatory allowance</li> <li>Non-network capex of \$21.3m (up 22.4%)</li> </ul>

COST CONTROL REMAINS TRANSGRID'S KEY FOCUS AS IT CONTINUES ITS TRANSFORMATION INTO A **LEADING PRIVATE SECTOR OPERATOR** 

## **TRANSGRID**

## Key financial unregulated business drivers

Unregulated Capital Expenditure Up \$7.5m	<ul> <li>Infrastructure capex (mainly renewable connections) up \$8.2m to \$41.2m, partially offset by Telecommunications capex down \$0.7m to \$3.1m</li> </ul>
Unregulated Revenue Up \$52.4m	<ul> <li>Major line relocation work under service-style contract for the Western Sydney Airport, Peabody and Mandalong coal mines</li> <li>Connections contracts entered into with customers which are now complete and operational, are generating revenue following completion of construction</li> <li>Expected to continue to increase across the remainder of 2018 and 2019 as construction of connection assets is completed</li> </ul>
Operating Costs Up \$38.2m	<ul> <li>Line modifications delivery driving a corresponding increase in project costs</li> <li>Growth in the completed connection portfolio resulting in increased maintenance costs</li> </ul>
New Connections Funding Structure - TransGrid Services	<ul> <li>New structure known as TransGrid Services established to facilitate the efficient funding of unregulated new connections investment</li> <li>TransGrid Services established in June 2018</li> </ul>

NEW CONNECTIONS INVESTMENT AND LINE MODIFICATION PROJECTS DRIVING UNREGULATED BUSINESS **PERFORMANCE IN HY 2018** 

## **INVESTMENT GRADE FUNDING**

## Our businesses retain strong investment grade debt structures

Issuer	Victoria Power Networks	SA Power Networks	TransGrid
Credit Rating (S&P / Moody's)	A- / n/a	A- / n/a	n/a / Baa2 (on USPP notes)
Weighted Average Maturity <sup>(1)</sup> (31 December 2017)	5.7 yrs	5.9 yrs	6.6 yrs
	(5.2 yrs)	(6.0 yrs)	(5.9 yrs)
Net Debt at 30 June 2018 (31 December 2017)	\$4.259bn	\$3.076bn	\$5.562bn <sup>(2)</sup>
	(\$4.189bn)	(\$2.962bn)	(\$5.524bn)
Net Debt / RAB at 30 June 2018 (31 December 2017)	71.0%	74.7%	87.3% <sup>(2)</sup>
	(71.0%)	(73.1%)	(87.1%)
Net Debt / RAB + CAB at 30 June 2018 (31 December 2017)	N/A	N/A	82.1% <sup>(2)</sup> (82.5%)

#### ON A COMBINED BASIS THE BUSINESSES HAVE SUCCESSFUL REFINANCED \$4.7BN DURING HY 2018

<sup>(1)</sup> Weighted average maturity calculation is based on drawn debt at 30 June 2018

<sup>(2)</sup> Excluding revenue over/under collections

# OTHER FINANCIAL INFORMATION

## **KEY METRICS**

SECURITY METRICS	
Market price at 6 November 2018	\$2.28
Market capitalisation	\$3.83 billion

DISTRIBUTIONS	
HY 2018 actual	8.00cps
Comprising:	
- Loan Note interest	3.50cps
- Tax deferred amount	4.50cps
Tax defended announc	

CREDIT RATINGS	
Investment portfolio credit ratings	SA Power Networks: A- Victoria Power Networks: A- TransGrid: Baa2
Spark Infrastructure level credit rating	Baa1

16.00cps

SPARK INFRASTRUCTURE	\$m
Total RAB and CAB (Spark Infrastructure share)	5,975
Gross debt at Spark Infrastructure level	Nil

SA POWER NETWORKS	\$m
RAB <sup>(1)</sup>	4,119
Net debt	3,076
Net debt/RAB	74.7%

VICTORIA POWER NETWORKS	\$m
RAB <sup>(1)</sup> (including AMI)	6,001
Net debt	4,259
Net debt/RAB	71.0%

TRANSGRID	\$m
RAB <sup>(1)</sup>	6,371
CAB <sup>(1)(2)</sup>	400
RCAB <sup>(1)(2)</sup>	6,771
Net debt <sup>(3)</sup>	5,562
Net debt/RAB <sup>(3)</sup>	87.3%
Net debt/RCAB <sup>(3)</sup>	82.1%

FY 2018 Guidance

<sup>(1)</sup> June 2018 estimate

<sup>(2)</sup> Includes WIP/partially completed assets and investment property

<sup>(3)</sup> Excluding revenue over/under collections

## **REGULATED PRICE PATH**

#### CPI minus X<sup>(1)</sup>

- Regulated electricity network revenues are determined by a price path set according to the CPI-X<sup>(1)</sup> formula. A negative X-factor means a real increase in distribution tariffs
- The regulatory pricing period commences on 1 January each year for Victoria Power Networks (CitiPower and Powercor) and 1 July each year for SA Power Networks and TransGrid
- Whilst CPI-X is the key underlying driver for revenue movements, the revenue movements in reported results include adjustments for other factors

CitiPower	CPI (%) Actual (Forecast)	X-Factor	Expected movement in revenue <sup>(3)</sup> %
Year 1 <sup>(2)</sup>	2.50	_	_
(1 Jan 16)	(2.50)		
Year 2	1.02	0.40	0.62
(1 Jan 17)	(2.32)		
<b>Year 3</b> (1 Jan 18)	1.93 <i>(</i> 2.32)	-0.05	1.99
Year 4	(2.32)		
(1 Jan 19)	(2.32)	-1.20	3.55
Year 5 (1 Jan 20)	(2.32)	-2.40	4.78

Powercor	CPI (%) Actual (Forecast)	X-Factor	Expected movement in revenue <sup>(3)</sup> %
<b>Year 1</b> <sup>(2)</sup> (1 Jan 16)	2.50 (2.50)	-	-
<b>Year 2</b> (1 Jan 17)	1.02 (2.32)	4.68	-3.71
<b>Year 3</b> (1 Jan 18)	1.93 (2.32)	-0.81	3.08
<b>Year 4</b> (1 Jan 19)	(2.32)	-1.80	4.16
Year 5 (1 Jan 20)	(2.32)	-2.60	4.98

<sup>(1)</sup> Whilst referred to as "CPI-X", the actual tariff increase formula used by the regulator is: (1+CPI)\*(1-x)-1. Source: AER

No CPI-X was applied in 2016. The AER calculated the revenue cap as a dollar amount

Excludes over or under recovery and S factor revenue

## **REGULATED PRICE PATH**

#### CPI minus X<sup>(1)</sup>

SA Power Networks	CPI (%) Actual (Forecast)	X-Factor	Expected movement in revenue <sup>(2)</sup> %	
Year 1	1.72	28.00	-26.80	
(1 Jul 15)	(2.50)	20.00	20.00	
Year 2	1.69	-7.13	8.90	
(1 Jul 16)	(2.50)	-7.13		
Year 3	1.48	-0.94	2.40	
(1 Jul 17)	(2.50)	-0.34	2.40	
Year 4	1.91	-0.74	2.66	
(1 Jul 18)	(2.50)	-0.74	2.00	
Year 5		-1.10	3.40	
(1 Jul 19)	(2.25)	-1.10	3.40	

TransGrid	CPI (%) Actual (Forecast)	X-Factor	Expected movement in revenue <sup>(2)</sup> %
<b>Year 1</b> (1 Jul 14)	1.72 <i>(</i> 2.38)	11.61	-9.51
<b>Year 2</b> (1 Jul 15)	1.70 (2.38)	15.03	-13.59
<b>Year 3</b> (1 Jul 16)	1.70 <i>(</i> 2.38 <i>)</i>	3.70	-2.06
<b>Year 4</b> (1 Jul 17)	1.48 <i>(</i> 2.38)	3.94	-2.50

TransGrid	CPI (%) Actual (Forecast)	X-Factor	Expected movement in revenue <sup>(2)</sup> %
<b>Year 1</b> <sup>(3)</sup> (1 Jul 18)	n/a	-	3.00
<b>Year 2</b> (1 Jul 19)	(2.45)	-1.98	4.48
<b>Year 3</b> (1 Jul 20)	(2.45)	-1.98	4.48
Year 4 (1 Jul 21)	(2.45)	-1.98	4.48
<b>Year 4</b> (1 Jul 22)	(2.45)	-1.98	4.48

<sup>(1)</sup> Whilst referred to as "CPI-X", the actual tariff increase formula used by the regulator is: (1+CPI)\*(1-x)-1. Source: AER

<sup>(2)</sup> Excludes over or under recovery and S factor revenue

<sup>(3)</sup> The AER's determination set the MAR for 2018/19 so no CPI-X calculation is applied. The MAR for 2018/19 is 3% higher in nominal terms and 0.5% in real terms than the MAR for 2017/18.

## TRANSGRID FINAL REGULATORY DETERMINATION

(\$m)	2018–19	2019–20	2020–21	2021–22	2022–23	Total
Return on capital	416.8	424.8	435.2	445.4	458.2	2,180.4
Regulatory depreciation <sup>(1)</sup>	101.2	118.9	131.7	134.1	144.6	630.5
Operating expenditure <sup>(2)</sup>	179.9	187.6	196.5	208.3	204.6	976.7
Revenue adjustments(3)	4.7	18.5	5.4	12.7	5.1	46.5
Net tax allowance	31.7	33.7	35.3	37.3	39.1	177.1
Annual building block revenue	734.3	783.5	804.1	837.8	851.6	4,011.3
Annual expected MAR (smoothed)	734.3	767.1	801.5	837.4	874.8	4,015.1 <sup>(4)</sup>
X factor (%) <sup>(5)</sup>	n/a <sup>(6)</sup>	-1.98%	-1.98%	-1.98%	-1.98%	n/a
Capital expenditure	217.2	261.7	265.3	296.2	208.9	1,249.2

<sup>(1)</sup> Regulatory depreciation is straight-line depreciation net of the inflation indexation on the opening RAB

Source: AER - TransGrid 2018-23 - Transmission determination - Attachment 1 - Maximum allowed revenue - May 2018

<sup>(2)</sup> Operating expenditure includes debt raising costs

Includes revenue adjustments from the efficiency benefit sharing scheme (EBSS) and capital efficiency sharing scheme (CESS)

The estimated total revenue cap is equal to the total annual expected MAR

<sup>(5)</sup> The X factors will be revised to reflect the annual return on debt update. Under the CPI-X framework, the X factor measures the real rate of change in annual expected revenue from one year to the next. A negative X factor represents a real increase in revenue. Conversely, a positive X factor represents a real decrease in revenue

<sup>(6)</sup> TransGrid is not required to apply an X factor for 2018–19 because the AER's sets the 2018–19 MAR in its decision. The MAR for 2018–19 is around 0.5 per cent higher than the approved MAR for 2017-18 in real terms, or 3.0 per cent higher in nominal terms

AER - TransGrid 2018-23 - Transmission determination - Attachment 6 - Capital expenditure

# **STPIS RESULTS (100% BASIS)**

Victoria Power Networks	\$m	
2015 regulatory year	21	Recovered in 2017 regulatory year
2016 regulatory year	18	Being recovered in 2018 regulatory year
2017 regulatory year	36	To be recovered in 2019 regulatory year
SA Power Networks	\$m	
2014/15 regulatory year	29	Recovered in 2016/17 regulatory year
2015/16 regulatory year	28	Recovered in 2017/18 regulatory year
2016/17 regulatory year	20	To be recovered in 2018/19 regulatory year
2017/18 regulatory year <sup>1</sup>	31	To be recovered in 2019/20 regulatory year
TransGrid	\$m	
2014 calendar year	12	Recovered in 2015/16 regulatory year
2015 calendar year	12	Recovered in 2016/17 regulatory year
2016 calendar year	15	Recovered in 2017/18 regulatory year
2017 calendar year	16	To be recovered in 2018/19 regulatory year

<sup>(1)</sup> Preliminary estimate

## **DISCLAIMER & SECURITIES WARNING**

Investment company financial reporting - Adjustments are made to distribution and transmission revenues to defer/accrue for amounts in excess of/under the regulated revenue cap to reflect that these amounts will be returned to/recovered from electricity consumers in future periods via adjustments to tariffs.

The financial reporting is based on TransGrid's special purpose financial statements for the year ended 30 June 2018. Results have been adjusted by Spark Infrastructure to reflect the 6 month period to 30 June 2018.

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