

# Agenda and timing for presenters (note there are questions allowed for at the end of each topic)

Time	Presenter	Topic
9 am	LCE	Intro and welcomes
9.05 – 9.15	Jodi Triggs	Welcome
9.15 – 9.30	Brendon Crown	TSS
9.30 – 9.45	Andy Ferreira	TSS and Pricing
9.50 – 10.30	Ezra Beeman	Challenges
10.35 – 10.50	BREAK	
10.50 - 11.50	Ezra Beeman	Pricing
11.50 – 12.25	All	Hearing from retailers
12.25	LCE	Close



# **Welcome and Introductions**



Jodi Triggs – Executive General Manager – Customer Strategy and Regulation

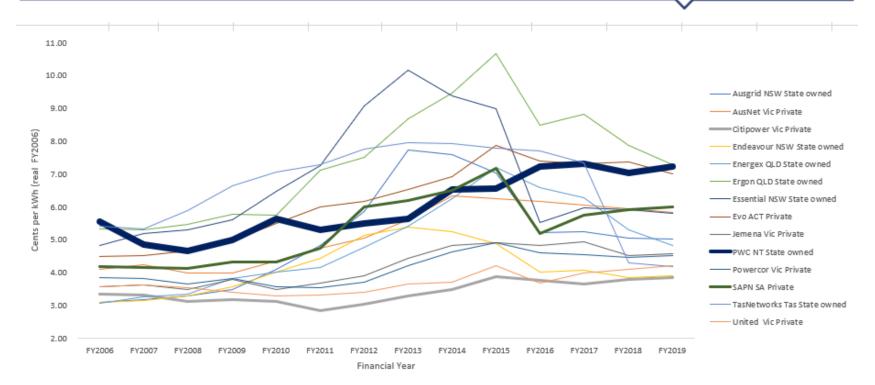




# **Progress on Implementing our Tariff Structure Statement**

# **Background: Current pricing outcomes**

















# **Background: Tariff Structure Statement 2019-24**



Tariff class	Description of tariffs
	1 Residential customers consuming <750MWh pa with standard accumulation meters
	2 Non-residential customers consuming <750MWh pa with standard accumulation meters
LV <750MWh	3 Customers consuming <750MWh pa with smart meters (i.e. type 4 meters)
	4 Unmetered supply (for street lighting, traffic lights and other unmetered devices)
LV >750MWh*	5 Customers connected to the LV network consuming >750MWh pa
	6 Customers connected to the HV network consuming <750MWh pa
HV*	7 Customers connected to the HV network consuming >750MWh pa

<sup>\*</sup> For sufficiently large and unique new customers for whom a bespoke tariff would best meet the NT NER pricing principles and protect the interests of our existing customers, Power and Water may confidentially determine individually calculated tariffs in accordance with the eligibility arrangements and tariff setting approach set out in this TSS, and would seek AER approval of these in the annual tariff variation process.

Tariff	System Access Charge (SAC)	Anytime kWh (c/kWh)	Peak Demand (\$/kVA)
Tariff 1		Χ	
Residential	X		-
Tariff 2 Non	X	Χ	
Residential			-
Tariff 3 LV	X	X	v
Smart Meter			X
Tariff 4	X	X	
Unmetered			-
Supply			
Tariff 5	X	X	v
LV<750MWh			Х
Tariff 6	X	X	x
HV<750MWh			X
Tariff 7	X	X	x
HV>750MWh			X











## **Background: Tariff Structure Statement 2019-24**





Tariff Structure Statement | Explanatory Statement

4 April 201

- Fairer split of revenue
- Rebalance energy, demand and fixed charges.
- Increasing the demand charge for large customers.
- Adjusted peak charging period.
- excess kVAr charge.
- individually calculated tariffs











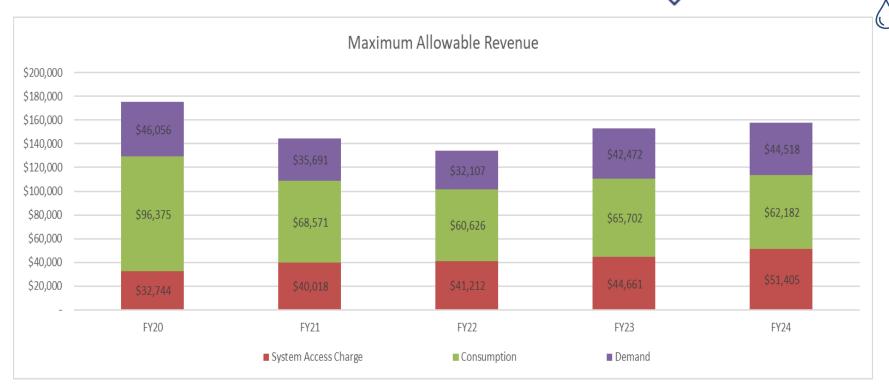




# Progress against current pricing proposal

# **Background: Network Prices 2020-21**











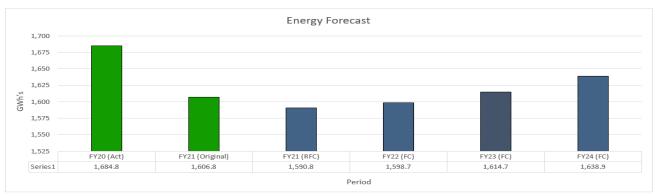


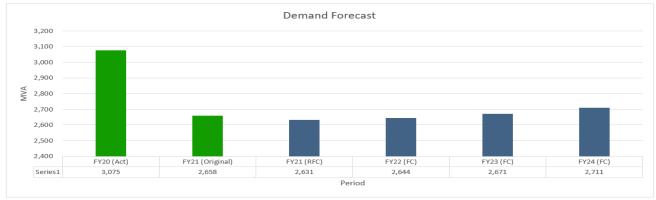




# **Background: Current pricing outcomes**



















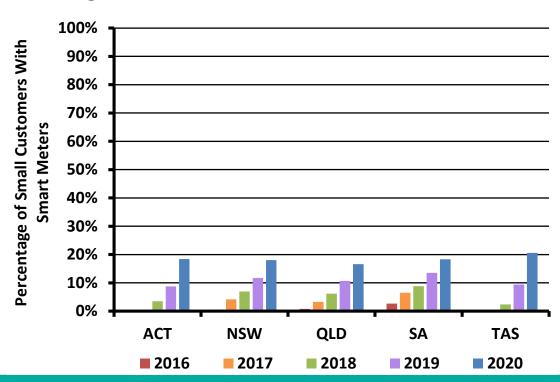


# **Our Challenges as an Industry**

# **Key Challenge: Incomplete Customer Data**



#### Percentage of customers with smart meters



Source: AEMO (2020), Note: Data represents small customers only









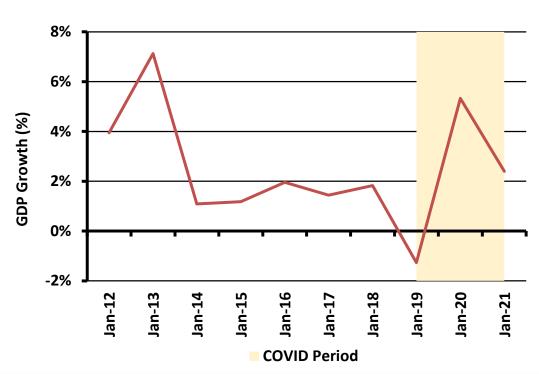




# **COVID** impact on economic growth - NT



#### **GDP Growth**



Source: ABS (2021)









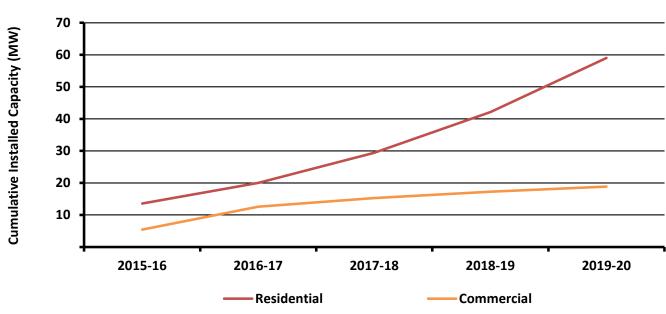




# **Solar impacts on consumption**



### **Darwin Cumulative Solar PV Capacity**



Source: Utilities Commission (2021)













# Solar PV uptake and outlook – Darwin Katherine electricity system plan









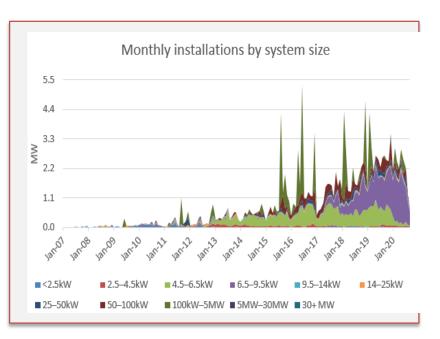




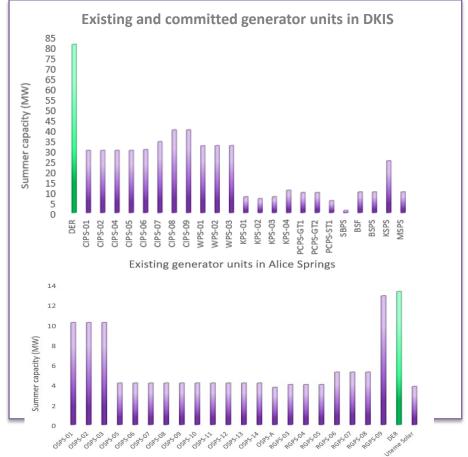




# **Unprecedented growth in rooftop PV**















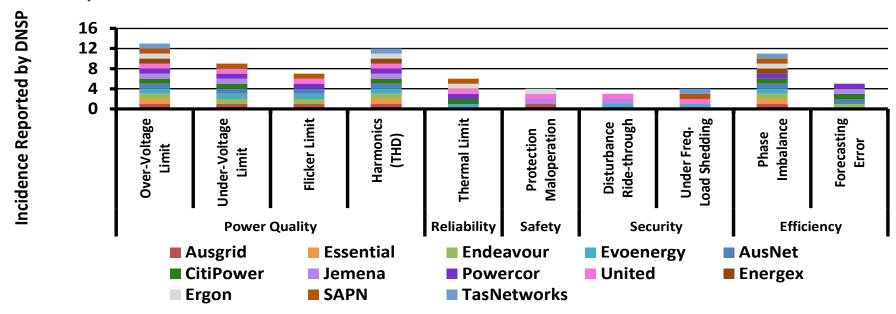




# Solar PV impacts on revenues and costs



#### **DNSP Reported PV- Driven Cost Drivers**



Source: DNSP Determinations









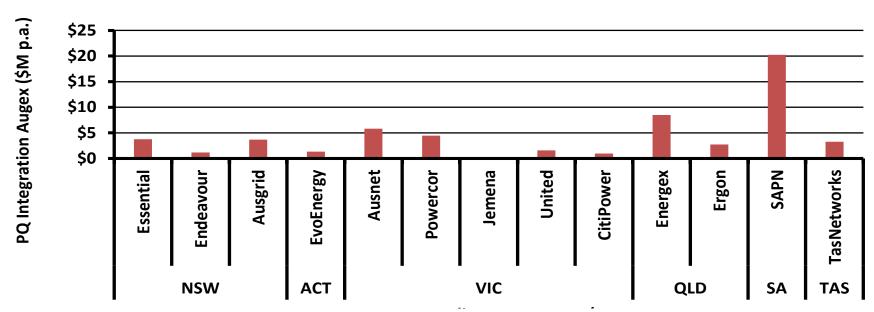




# Solar PV impacts on revenues and costs



# **DNSP Reported PV- Driven Integration Augex**



Source: Energeia Research









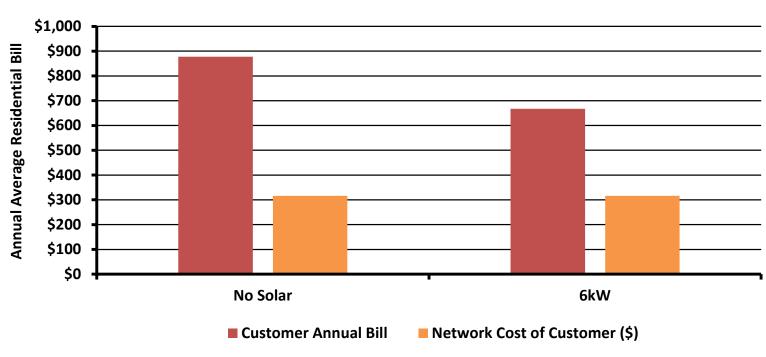




# **Solar PV impacts on cross-subsidies**



#### Customer annual bill vs network cost



Source: Energeia Analysis













# **DNSP** examples

## **Solar sponge initiatives**

DNSP	Tariff	Solar PV implementation
	Residential ToU	5-Hour Off-Peak Period at 25% of single-rate price
SAPN	Residential Prosumer	5-Hour Off-Peak Period at 15% of single-rate price
	Controlled Load (Residential and Small Business)	Based on usage between 9:30am and 3:30pm, at 25% of single-rate price
AusNet	Small Residential ToU	Off-Peak Rates Before 3pm
Ergon, Energex	Residential Tariffs	Incorporation of solar sponge into proposed cost reflective tariffs for residential customers based on solar-impacted load in the Energex area

Source: Energeia Research













# **New AEMC rules governing export pricing**

Access, pricing and incentive arrangements for distributed energy resources



Australian Energy Market Commission

#### **RULE DETERMINATION**

NATIONAL ELECTRICITY AMENDMENT (ACCESS, PRICING AND INCENTIVE ARRANGEMENTS FOR DISTRIBUTED ENERGY RESOURCES) RULE 2021

NATIONAL ENERGY RETAIL AMENDMENT (ACCESS, PRICING AND INCENTIVE ARRANGEMENTS FOR DISTRIBUTED ENERGY RESOURCES) RULE 2021

#### **PROPONENTS**

SA Power Networks St Vincent de Paul Society Victoria Total Environment Centre and Australian Council of Social Service

12 AUGUST 2021

Source: AEMC (2021)









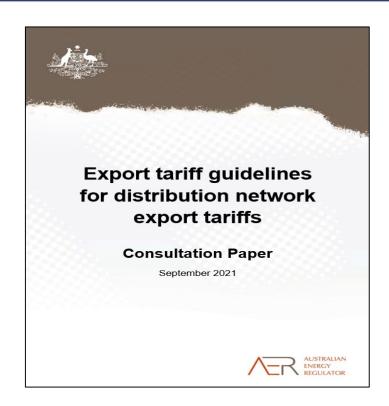




# **Draft AER Export Pricing Guidelines**



### **Export Tariff Guidelines**



Source: AER (2021)









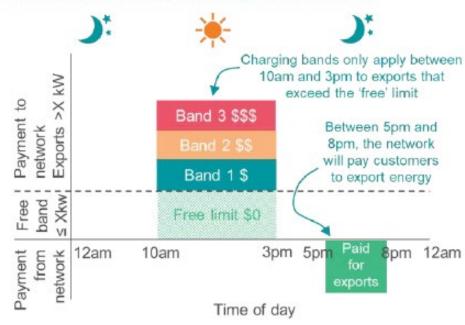




# **Australian DNSP Example**

### **Essential Energy Export Tariff Trial Design**

#### Preferred form of export charge to take to trial



Source: Essential Energy







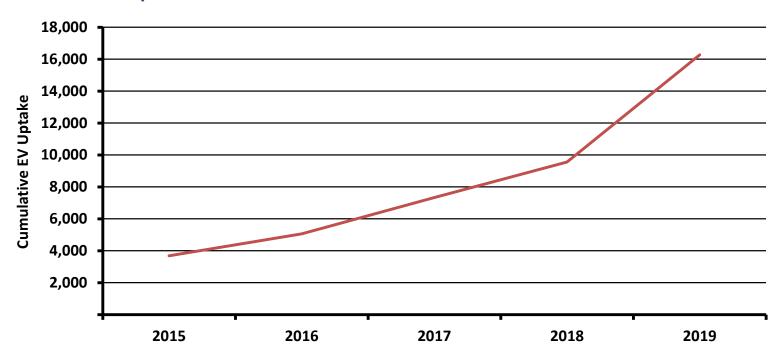






# **Electric Vehicle Uptake and Outlook**

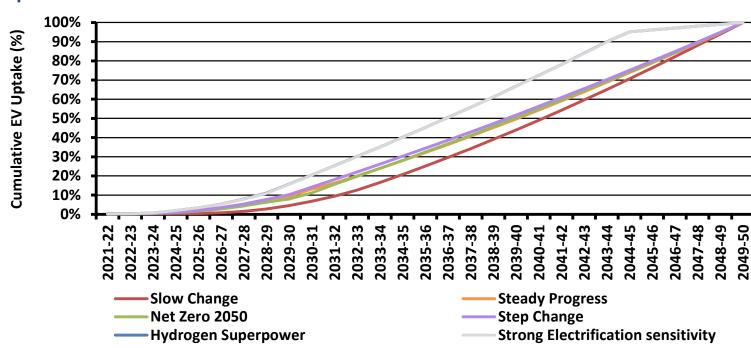
#### **Historical EV Uptake**



Source: Electric Vehicle Council (2020)

# Electric vehicle uptake and outlook

#### **NEM EV uptake - AEMO**



Source: AEMO (2021)









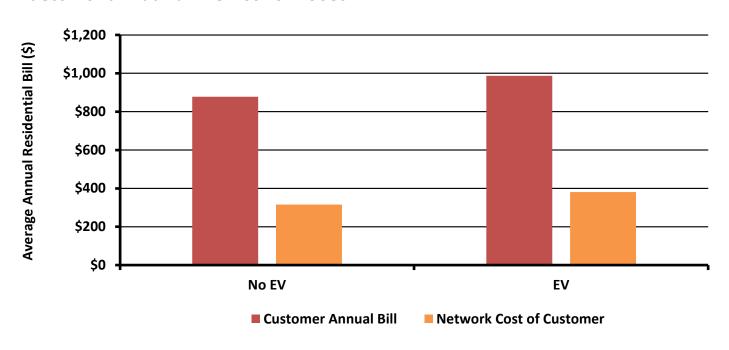




# Electric vehicle impacts on revenues, costs and cross-subsidies



#### Customer annual bill vs network cost



Source: Energeia Analysis













# Big batteries and individually calculated tariffs



#### Tesla's big battery at Hornsdale, SA



- 1. A number of big batteries are being planned in the NT, including by the NT Government
- 2. A battery has a unique connection profile in that it is both a source and a sink
- Current tariffs may disadvantage a battery where not cost reflective
- 4. An individually calculated tariff may be more appropriate until more is known

Source: Tesla













# **NT's Retail Pricing Order**



### Regional QLD (Ergon Energy)



ICP released 12 January 2021

Stakeholder submissions due 5 February 2021

# Mid stage

Draft determination 24 March 2021

Stakeholder workshop 7 April 2021

Stakeholder submissions due 23 April 2021

# Final stage

Final determination by 11 June 2021

Notified prices apply 1 July 2021

Source: QCA (2021)













# NT's retail pricing order



**Western Australia (Western Power)** 

# Household electricity pricing

Regulated electricity prices are determined by the State Government annually as part of the State Budget process.

## **Business and Government Electricity Pricing**

Regulated electricity prices are determined by the State Government as part of the annual State Budget process.

#### **Uniform Tariff Policy**

Show less ^

The Uniform Tariff Policy means that small use Synergy and Horizon Power customers are all charged the same rate. This includes customers in remote regions, where the costs to supply electricity are considerably higher.

The extra costs of supplying electricity to these areas are partially funded by the Tariff Equalisation Contribution through electricity network charges in the South West Interconnected System (SWIS).

Source: WA Government (2021)









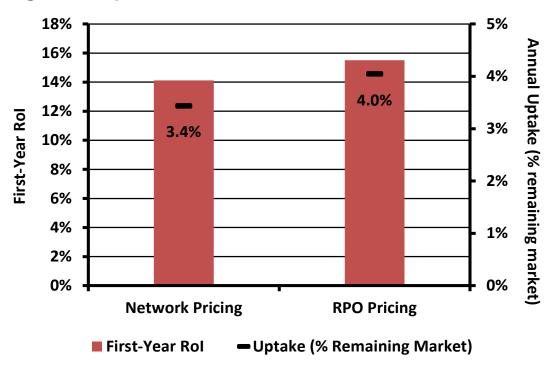




## Impacts on customer behavior and cross-subsidies



### **Ergon Example**



Source: Energeia Analysis















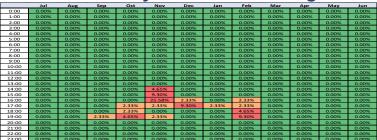


**Key pricing opportunities and Options we are Exploring** 

# Peak demand periods vs defined peak - Darwin

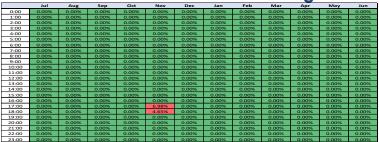






Source: PWC, Energeia analysis

**Darwin Weekend Peak Period Congestion** 



Source: PWC, Energeia Analysis

#### **PWC Network Tariff Weekday Peak Periods**

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Source: PWC TSS (2019) – tariff 1 and 2, Note: Red represents peak

#### **PWC Network Tariff Weekend Peak Periods**

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Source: PWC TSS (2019) - Tariff 1 and 2













# **Change in Peak Periods - Endeavour**



#### Residential Weekday Peak Period - Old

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Source: Endeavour TSS (2016), Note: Red represents peak

#### **Residential Weekday Peak Period - New**

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Source: Endeavour TSS (2019), Note: Yellow represents low peak, red represents high peak









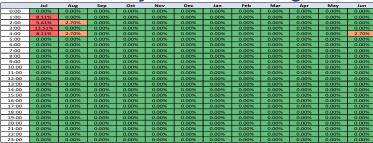




## Min Demand Periods vs Defined Peak - Darwin

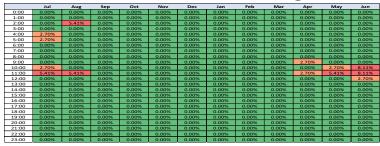






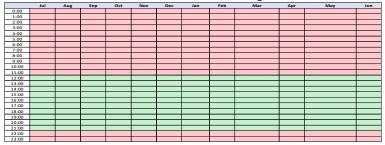
Source: PWC, Energeia

#### **Darwin Weekend Min Period Congestion**



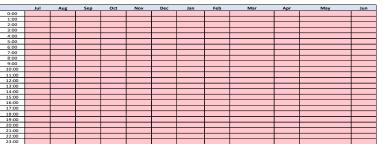
Source: PWC, Energeia

#### **PWC Network Tariff Weekday Off-Peak Periods**



Source: PWC TSS (2019) - Tariff 1 and 2, Note: Red represents off-peak

#### **PWC Network Tariff Weekend Off-Peak Periods**



Source: PWC TSS (2019) - Tariff 1 and 2













## Min Demand Periods vs Defined Off Peak - SAPN



#### **SA Weekday Min Period Congestion**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
0:00	3.8%	4.5%	12.1%	8.9%	8.9%	10.8%	8.3%	7.6%	10.2%	9.6%	5.1%	3.2%
1:00	7.6%	7.0%	15.9%	10.8%	20.4%	14.6%	9.6%	9.6%	9.6%	17.2%	13.4%	5.7%
2:00	14.0%	12.7%	23.6%	17.2%	18.5%	26.1%	19.7%	15.3%	16.6%	20.4%	14.6%	10.2%
3:00	15.3%	14.6%	25.5%	19.1%	17.8%	28.7%	21.0%	15.9%	19.7%	22.3%	16.6%	12.7%
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6:00	2.5%	1.9%	13.4%	7.0%	7.6%	29.3%	17.2%	5.7%	16.6%	17.8%	12.7%	6.4%
7:00	2.5%	0.6%	7.6%	1.3%	1.3%	24.2%	12.7%	0.6%	9.6%	14.6%	5.7%	2.5%
8:00	3.2%	0.6%	6.4%	1.9%	1.3%	21.0%	12.1%	0.6%	6.4%	19.1%	4.5%	1.3%
9:00	2.5%	1.3%	8.3%	6.4%	7.0%	33.1%	18.5%	3.2%	4.5%	29.9%	2.5%	1.9%
10:00	2.5%	8.3%	27.4%	31.2%	33.8%	55.4%	38.9%	12.7%	12.1%	49.7%	10.8%	2.5%
11:00	3.8%	22.3%	48.4%	49.7%	51.6%	67.5%	58.6%	39.5%	31.8%	65.6%	29.3%	10.2%
12:00	7.0%	24.8%	48.4%	52.9%	53.5%	71.3%	60.5%	46.5%	42.7%	64.3%	36.3%	9.6%
13:00	5.7%	30.6%	52.2%	54.1%	52.2%	72.0%	61.1%	46.5%	47.1%	67.5%	39.5%	12.7%
14:00	5.1%	22.9%	46.5%	56.1%	51.0%	68.8%	61.1%	48.4%	43.9%	60.5%	30.6%	11.5%
15:00	5.1%	8.3%	25.5%	51.0%	49.7%	65.0%	56.1%	43.9%	42.7%	37.6%	14.0%	4.5%
16:00	0.6%	2.5%	21.0%	35.0%	36.9%	52.9%	33.8%	28.7%	19.1%	10.8%	5.1%	2.5%
17:00	0.6%	0.6%	14.6%	5.1%	3.8%	10.8%	7.0%	3.2%	5.1%	4.5%	2.5%	2.5%
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22:00	1.9%	1.9%	12.1%	3.2%	3.8%	5.1%	2.5%	3.2%	4.5%	7.0%	5.7%	3.8%
23:00	3.2%	2.5%	14.0%	6.4%	7.0%	10.2%	3.2%	7.0%	7.6%	8.3%	5.7%	5.1%

Source: SAPN ZS Load Profiles, Energeia Analysis

### **SA Weekend Min Period Congestion**

	<u> </u>											
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
0:00	2.5%	3.2%	5.7%	7.0%	8.3%	8.3%	3.2%	5.1%	8.3%	8.3%	7.0%	5.7%
1:00	5.7%	7.6%	9.6%	7.6%	10.2%	10.8%	7.0%	7.6%	9.6%	15.9%	12.7%	8.9%
2:00	8.3%	9.6%	15.3%	15.3%	18.5%	19.1%	16.6%	15.9%	17.8%	19.7%	14.6%	12.1%
3:00	10.8%	13.4%	18.5%	19.1%	19.7%	22.9%	18.5%	17.8%	17.8%	22.9%	17.8%	13.4%
4:00	14.6%	13.4%	19.1%	20.4%	22.9%	23.6%	20.4%	19.1%	21.7%	24.8%	17.8%	14.0%
5:00	13.4%	13.4%	17.8%	21.7%	22.9%	23.6%	19.7%	18.5%	21.0%	23.6%	17.2%	13.4%
6:00	7.0%	8.3%	15.9%	19.7%	21.7%	25.5%	17.8%	16.6%	19.7%	20.4%	14.6%	10.2%
7:00	6.4%	8.3%	15.9%	17.8%	19.7%	26.1%	18.5%	15.3%	17.8%	19.1%	10.2%	8.3%
8:00	5.7%	6.4%	12.7%	19.1%	24.2%	30.6%	19.1%	14.0%	14.6%	19.7%	8.9%	7.0%
9:00	4.5%	10.2%	27.4%	22.3%	36.9%	40.8%	26.8%	17.2%	15.9%	26.1%	9.6%	7.0%
10:00	3.8%	21.0%	57.3%	47.1%	58.0%	58.0%	46.5%	34.4%	25.5%	40.8%	21.0%	7.6%
11:00	4.5%	42.7%	68.8%	66.9%	68.8%	70.1%	61.8%	56.1%	44.6%	58.0%	35.0%	12.1%
12:00	9.6%	54.1%	71.3%	69.4%	72.0%	72.6%	65.6%	64.3%	49.7%	54.1%	40.8%	12.1%
13:00	10.8%	59.2%	67.5%	71.3%	72.6%	72.6%	63.1%	63.7%	54.8%	59.2%	43.9%	16.6%
14:00	8.9%	49.7%	63.1%	72.0%	72.0%	72.6%	63.1%	65.6%	54.1%	51.0%	33.8%	13.4%
15:00	5.7%	24.8%	36.3%	70.7%	66.9%	71.3%	61.1%	63.7%	54.1%	29.3%	12.7%	7.6%
16:00	3.2%	3.8%	11.5%	45.9%	53.5%	62.4%	45.9%	45.9%	31.2%	10.8%	3.2%	5.1%
17:00	2.5%	2.5%	6.4%	11.5%	15.3%	29.3%	8.3%	15.9%	9.6%	5.7%	2.5%	2.5%
18:00	1.9%	3.2%	5.7%	7.0%	7.0%	9.6%	1.9%	5.7%	5.1%	4.5%	3.2%	3.2%
19:00	2.5%	3.2%	4.5%	5.1%	7.6%	7.0%	1.9%	4.5%	4.5%	5.1%	3.2%	5.1%
20:00	2.5%	3.2%	4.5%	3.2%	5.1%	7.6%	1.9%	3.2%	3.2%	7.0%	3.2%	4.5%
21:00	3.2%	3.2%	4.5%	3.2%	3.2%	5.1%	1.9%	3.2%	5.7%	7.6%	3.8%	4.5%
22:00	3.2%	3.8%	5.1%	3.8%	7.0%	7.6%	2.5%	5.1%	5.7%	8.9%	4.5%	4.5%
23:00	3.2%	3.2%	5.1%	7.6%	10.8%	12.1%	3.2%	9.6%	8.3%	8.3%	4.5%	5.1%

Source: SAPN ZS Load Profiles, Energeia Analysis

#### **SAPN Network Tariff Weekday Off-Peak Periods**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
0:00												
1:00												
2:00												
3:00												
4:00												
5:00												
6:00												
7:00												
8:00												
9:00												
10:00												
11:00												
12:00												
13:00												
14:00												
15:00												
16:00												
17:00												
18:00												
19:00												
20:00												
21:00												
22:00												
23:00												

Source: SAPN TSS (2020), Note: Red represents peak

#### **SAPN Network Tariff Weekend Off-Peak Periods**

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
0:00												
1:00												
2:00												
3:00												
4:00												
5:00												
6:00												
7:00												
8:00												
9:00												
10:00												
11:00												
12:00												
13:00												
14:00												
15:00												
16:00												
17:00												
18:00												
19:00												
20:00												
21:00												
22:00												
23:00												

Source: SAPN TSS (2020), Note: Red represents peak













# **Australian DNSP Approaches to LRMC**

### **LRMC Methodology Summary**

		VIC				NSW	ACT	SA	
		AusNet	Jemena	CitiPower / Powercor	Ausgrid	Endeavour	Essential	Evoenergy	SA Power
Ë	P10/P50/Raw	P50	Raw	Raw	P50	P50	Raw	Raw	P10
Demand incl. in LRMC	NCMD/CMD	NCMD	CMD	NCMD	-	NCMD	CMD	CMD	CMD
	NCMD Basis	ZS		ZS	•	ZS	-	•	•
% Expenditure incl. vs. AER FD	Repex	10%	0%	0%	1%	142%	10%	0%	9%
	Augex	0%	6%	174%	400/	27%	18%	89%	69%
	Connex	0%	21%	0%	40%	43%		109%	0%
	Opex %	1.0%	4.3%	0.5%	2.0%	2.0%		2.0%	1.5%-2%
Time	LRMC Start Year	FY20	FY19	CY16	FY19	FY19	FY18	CY18	FY16
	Actual Years in LRMC	FY20	CY19-20	CY16-20	FY19-20	FY19	FY17-19	CY18	FY16-20
	Forecast Years in LRMC	FY21-30	FY22-29	CY21-25	FY21-38	FY20-28	FY20-32	CY19-27	FY21-38
	Total Years in LRMC	11	11	10	20	10	15	10	23

Source: DNSP LRMC Methodology Papers













# **DNSP Approaches**

### **DNSP Pricing Trends**

	0	ld Default Tar	iff	New Default Tariff			Reasons for Change		
DNSP	Flat/BT	ToU	Demand	Flat/BT	ToU	Demand	PV	BESS	EV
Ausgrid	×	✓	×	×	×	✓	✓	✓	✓
Essential	×	✓	×	×	×	✓	✓	✓	✓
Endeavour	×	✓	×	×	×	✓	✓	✓	✓
Energex	✓	×	×	×	×	<b>√</b>	×	×	×
Ergon	✓	×	×	×	×	✓	×	×	×
United	×	×	<b>√</b> *	×	✓	×	?	?	?
Jemena	×	✓	×	×	✓	×	?	?	?
Citipower	×	×	<b>√</b> *	×	✓	×	?	?	?
Powercor	✓	×	×	×	✓	×	?	?	?
Ausnet	×	✓	×	×	✓	×	✓	✓	<b>✓</b>
SAPN	✓	×	×	×	✓	×	?	?	?
TasNetworks	✓	×	×	×	✓	×	?	?	?

Source: DNSP TSSs, Note:  $\checkmark$ \* = Transitional Tariff













# **Hearing from Retailers**

# **Retailer Top 3 Issues**



1. Please add to the team chat













# **Next Steps**



# **Appendix**





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# Misc

# **DNSP Examples**



#### **DNSP Tariff Reforms**

Tariff Reform Summary
Closure of non-TOU tariffs for residential and small business customers.
Demand tariff made to be default tariff
New customers automatically assigned to ToU tariff. Demand charge for
residential and small business customers will only apply 5pm-8pm on
weekends, previously being 7am-10pm on all days
Incorporation of solar sponge into proposed cost reflective tariffs for residential
customers. Narrower non-seasonal evening peak period (4pm-9pm) to
encourage mass-market adoption of demand and ToU tariffs
Introduction of a solar component to tariffs that corresponds to but differs
slightly from SAPN's solar sponge, with a very low off-peak charge 10pm-3pm
and a peak charge between 3pm and 9pm
Introduction of new ToU tariff, in which peak period is now 3pm-9pm every day
compared to the previous legacy ToU which was 7am-11pm weekdays. All small
business ToU tariffs discontinued and replaced, with peak period shifting from
7am-11pm weekdays to 9am-9pm weekdays
All existing residential ToU tariffs discontinued and replaced by new ToU tariffs,
in which the peak period has been modified from 7am-11pm weekdays to 3pm-
9pm every day
Proposed to replace flat energy charges with a ToU component in the
Residential Demand tariff (this was rejected by the AER)
Introduction of solar sponge component in ToU tariffs for residential and small
business customer. Closure of residential flat rate tariffs
Introduction of two new DER tariffs available to DER customers, in which the
off-peak charge is discounted by 50%

1. Australian distribution networks are undertaking a range of pricing reforms to respond to the above challenges

Source: Energeia Research













### **New Tools: Tariff Design Tool**



- Key Pricing Challenges
  - 1. Incomplete Customer Data
  - 2. Plethora of Pricing Design Options
  - 3. Understanding Customer Impacts
  - 4. Understanding Impacts on Customer Behavior, e.g. Solar PV, EVs and Batteries
- 2. Introducing our Pricing Design Tool
- 3. Grounded in a Robust Customer Sample
- Key Benefits of New Tool
  - 1. Increased ability to work with retailers in real-time











### **Agenda**



#### 1.Welcome and Introductions

- 1.Acknowledgement of Country
- 2. Challenges we are Facing as a Network
- 3.Regulatory Objectives
- 4. What We Need from You

#### 2. Progress Implementing our Tariff Structure Statement

- 1. Tariff Structure Statement 2019-24
- 2.Network Prices 2021-22

#### 3. Our Challenges as an Industry

- 1.Revenue Volatility
- 2.Solar PV
- 3. Export Pricing Rule
- 4. Electric Vehicles
- 5.Retail Pricing Order

#### 4. What we have Heard from Customers

1. Customer Consultation

#### **5.Key Pricing Opportunities and Options**

- 1.AER Feedback
- 2.Periods
- 3.LRMC
- 4. Existing Tariffs

#### 6.New Tools we will be Using

1.Smart Meters

#### 7. Hearing from Retailers

1.Issue and Opportunity Capture

#### 8. Next Steps

- 1. Annual Pricing Proposal 2022-23
- 2. Tariff Structure Statement 2024-29
- 3. Retailer Consultation









