

SA Power Networks Regulatory Proposal Engagement 2025-30

Retailer Presentation | 30 November 2022



Empowering South Australia

Acknowledgement of Country

'I would like to begin by acknowledging the multiple Traditional Owners of the lands that host the South Australian electricity grid.'

I would also like to pay my respects to Elders past and present and acknowledge that these are living cultures by paying respect to emerging leaders.'



Housekeeping

Online session

- Questions, comments in chat function
- Raise hand if want to speak ()
- Cameras off unless asking a question
- Session will be recorded

Parking Bay

- We'll use the chat function to capture 'parked' items

Follow up

- The presentation will be shared with attendees
- Optional individual 45 minute sessions with Retailers are scheduled W/C 5 December
- If you have not secured a session please contact amanda.hudson@sapowernetworks.com.au

Stakeholder Invitees

SA Power Networks has extended the invite to all retailers participating in the South Australian market.

Today's participants include:

- AGL
- Alinta Energy
- Discover Energy
- Energy Australia
- Energy Locals
- Globird Energy
- IO Energy
- Momentum
- Origin Energy
- Red Energy
- Shell Energy
- Simply Energy
- Telstra
- Yes Energy
- Zen Energy



SA Power Networks staff presenting and listening:

- Helen White – Revenue & Pricing Manager
 - James Bennett – Manager Regulation
 - David Woods – Industry & Retailer Relationship Manager
-
- Sophie McRae – Head of Customer Relations
 - Martin Coelho – Billing and Credit Manager
 - Adam Neill – Billing and Compliance Lead
 - Amanda Hudson – Customer Consultation Lead

Overview – Retailer Engagement

9:30am-9:40am

Welcome and Introduction

- Welcome
- Overview

9:40am-10:20am

Consumption Tariffs

- Residential
 - Small
 - Medium
- Large Business
- Major Customers: Substation and Sub transmission

10:20am-10:50am

Export Tariffs

Small Generation

- Residential
- Small Business

Large Generation

10:50am-11:00am

Wrap up and Close

Consumption Tariffs



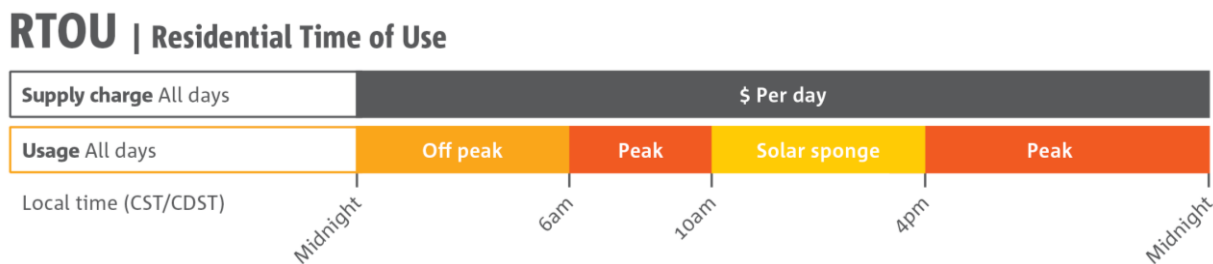
Tariff Classes

- SA Power Networks is proposing to maintain the existing 2020-25 tariff classes for 2025-30.
- In response to stakeholder feedback, we propose to split the current tariff class of Small Business <160MWh p.a. into two tariff categories: Small and Medium for the 2025-30 Tariff Structure Statement (TSS).
- Residential
- Small Business
 - Small 0-40 MWh p.a.
 - Medium 40-160 MWh p.a.
- Large Business Low Voltage
- Large Business High Voltage
- Major Business
 - Substation
 - Sub transmission

Residential Tariff Structures

Residential			
	TYPE 6	TYPE 5	TYPE 4
Mandatory	Fixed Supply Charge		
Default	Single Rate RSR	Time of Use RTOU	
Customer Choice	Time of Use Prosumer Demand RPRO		
	Time of Use Electrify RELE		
Options	Diversify EV Rebate RDIV		

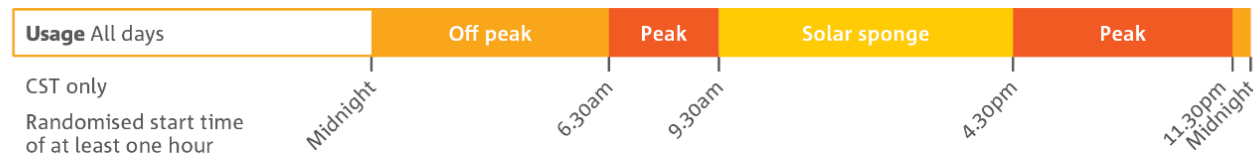
Residential Tariff Structures – Interval Meter | Default



- Increased time window by 1 hour:
 - Solar Sponge 10am-4pm
 - Off Peak 12am-6am
- Reduced Peak window by 2 hours.
- Peak: 12 Hours | 130.6% of RSR
- Off Peak: 6 Hours | 65.3% of RSR | 50% of Peak
- Solar Sponge: 6 Hours | 32.7% of RSR | 25% of Peak

Residential Tariff Structures – Interval Meter | Default

CL | Time of Use Controlled Load

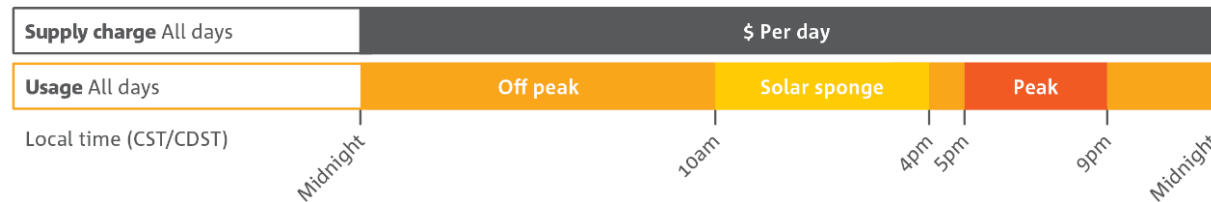


Time of Use Controlled Load

- Increased Off Peak time window by 1 hour
 - Retains one hour randomisation
 - Remains CST **not** CDST
-
- Peak: 10 Hours | 130.6% of RSR
 - Decreased time window by 1 hour
 - Off Peak: 7 Hours | 65.3% of RSR
 - Increased time window by 1 hour
 - Solar Sponge: 7 Hours | 32.7% of RSR

Residential Tariff Structures – Interval Meter | Customer Choice

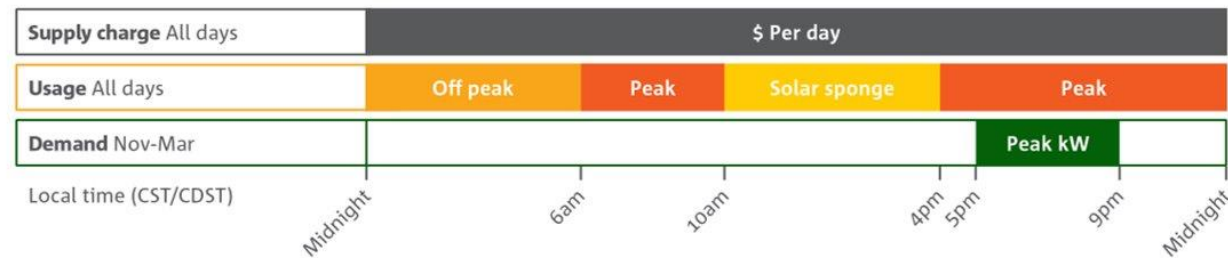
RELE | Electrify



- **Electrify** is currently a trial tariff which is proposed to be included in 2025-30 TSS.
- Volumetric tariff with no demand component.
- Sharp Peak signals in a short time window all year round.
- Wide time windows suitable for an electrified household.
 - Peak: 4 Hours | 213.7% of RSR
 - Off Peak: 14 Hours | 67.1% of RSR
 - Solar Sponge 6 Hours | 25% of RSR

Residential Tariff Structures – Interval Meter | Customer Choice

RPRO | Residential Prosumer



- **Residential Prosumer** includes demand component for Summer Peak (November – March).
- Time of Use windows are the same as RTOU. Volumetric prices are 60% of RTOU.
- Demand measurement is Summer only and includes negative values. In 2020-25 negative values are treated as a zero value.
- All Residential tariffs incorporate the additional 1 hour of Solar Sponge.

Residential Tariff Structures – Customer Choice

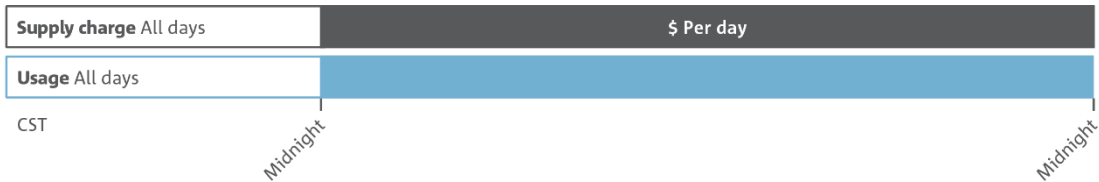
- **Diversify** is currently a daily rebate implemented via the trial tariff mechanism which is proposed to be included in 2025-30 TSS.
- 2022-23 Trial tariff rebate price is \$0.33 per day ex GST.
- Aims to incentivise residential customers with an EV to allow SA Power Networks to regulate the charging rate of their smart EV chargers on the rare occasions when the distribution network has limited capacity.
- Enable SA Power Networks to increase the diversity of EV charging load thereby avoiding inefficient distribution network investment.
- Can be partnered with any Residential tariff and is meter agnostic.
 - Residential Single Rate Diversify | RSRD
 - Residential Time of Use Diversify | RTOUD
 - Electrify | RELED
 - Residential Prosumer | RPROD

RDIV | Diversify



Residential Tariff Structures – Accumulation Meter | Default

RSR | Residential Single Rate



OPCL | Off Peak Controlled Load



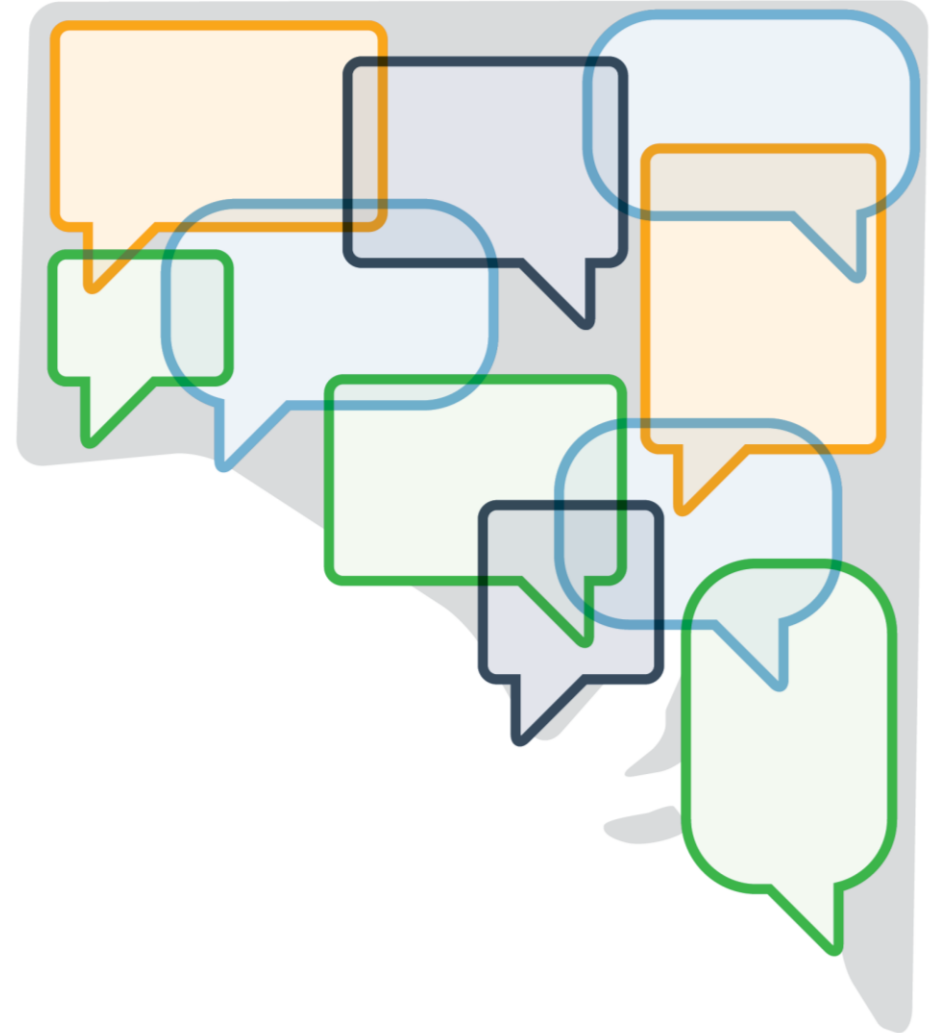
*Time clock is managed by SA Power Networks and typically involves supply usage between 11pm-7am and from 10am-3pm.

- No changes to single rate/flat tariffs in 2025-2030.
- Only customers with an Accumulation Meter can access these tariffs.

Summary of Residential Tariff Changes 2025-30

Tariff	Default/Customer Choice	Change	New
Residential Time of Use RTOU	Default	Time window + 1 hour Solar Sponge + 1 hour Off Peak - 2 hours Peak	—
Controlled Load Time of Use CL	Default	Time window + 1 hour Off Peak - 1 hour Peak	—
Residential Prosumer RPRO	Customer Choice	Time window + 1 hour Solar Sponge + 1 hour Off Peak - 2 hours Peak Demand calculation Recognise negative demand	—
Electrify RELE	Customer Choice	—	Time of Use tariff option.
Diversify RDIV	Customer Choice	—	Rebate for customers who allow SA Power Networks to regulate EV charging in accordance with network loads.
Residential Single Rate RSR	Default	—	—
Off Peak Controlled Load OPCL	Default	—	—

Discussion | Questions | Comments | Observations



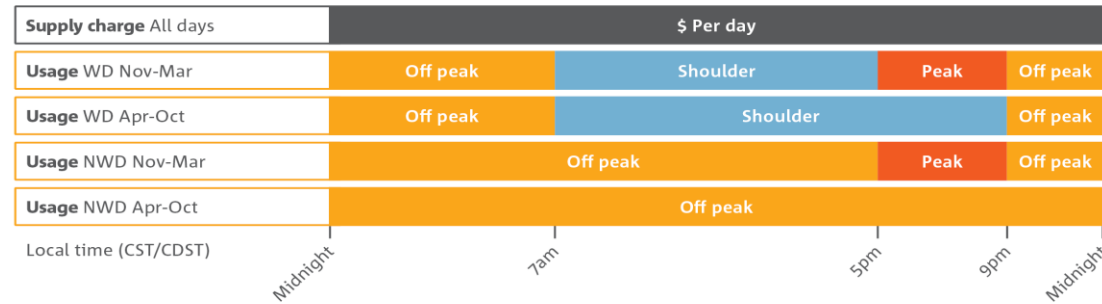
Small Business Tariff Structures

Small Business <40MWh p.a.			
	TYPE 6	TYPE 5	TYPE 4
Mandatory	Fixed Supply Charge		
Default	Single Rate BSR	Time of Use if <120kVA SBTou	
	Two Rate B2R	Time of Use Demand if >120kVA MBTOUD	

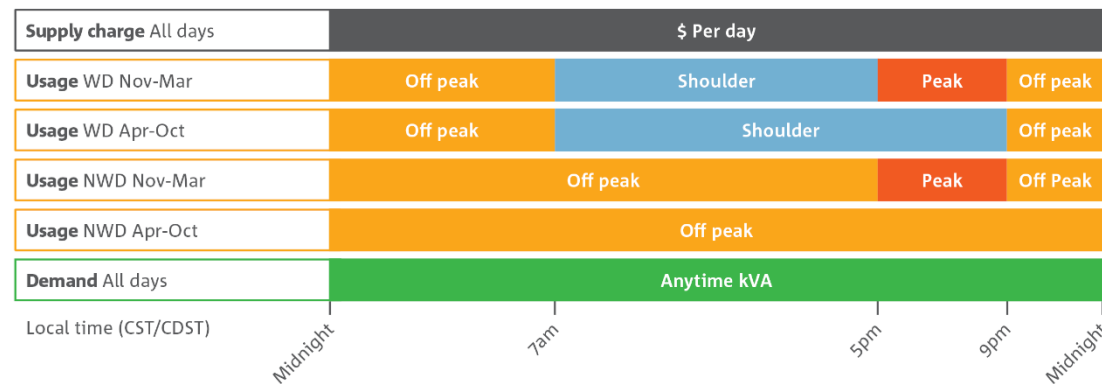
Small Business Actual Demand | SBD will no longer be a choice in 2025-30. Customers currently on this tariff can transition to another tariff in 2020-25 and will be mandatorily reassigned at 1 July 2025.

Small Business Tariff Structures 0-40 MWh p.a. – Interval Meter

SBTOU | Small Business Time of Use



MBTOUD | Medium Business Time of Use Demand



- SBTou is the default tariff with <120kVA.
- If >120kVA then MBTOUD is the default tariff.
- SBTou Daily supply charge will be priced the same as Residential. Usage charges will vary.
- MBTOUD is the same tariff structure as SBTou in 2020-25.

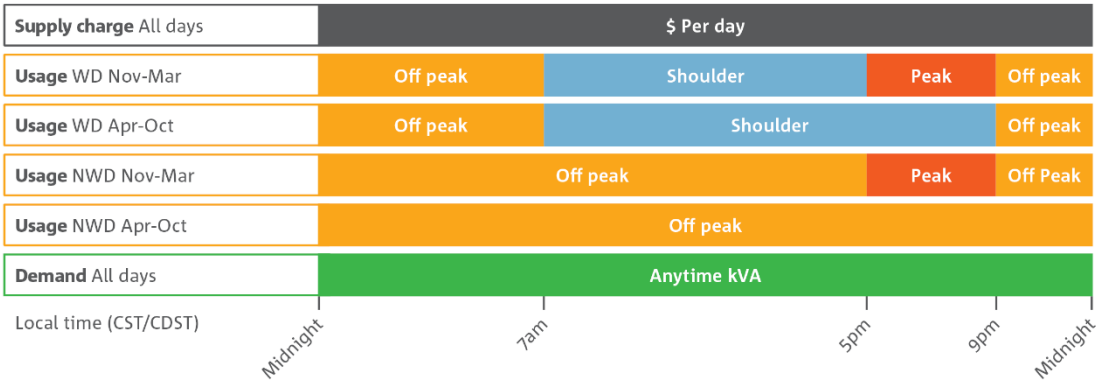
Medium Business Tariff Structures

Medium Business >40MWh <160MWh p.a.			
	TYPE 6	TYPE 5	TYPE 4
Mandatory	Fixed Supply Charge		
Default	Single Rate BSR	Time of Use Demand MBTOUD	
	Two Rate B2R		
Customer Choice	Time of Use if <120kVA SBTou		

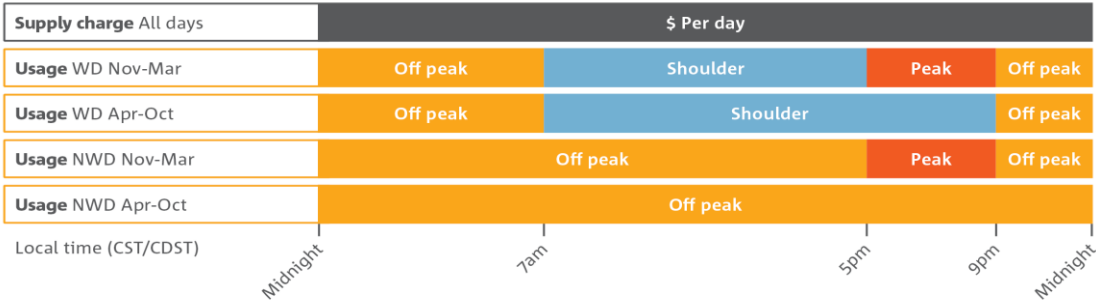
Small Business Actual Demand | SBD will no longer be a choice in 2025-30. Customers currently on this tariff can transition to another tariff in 2020-25 and will be mandatorily reassigned at 1 July 2025.

Medium Business Tariff Structures 40-160 MWh p.a. – Interval Meter

MBTOUD | Medium Business Time of Use Demand



SBTOU | Small Business Time of Use



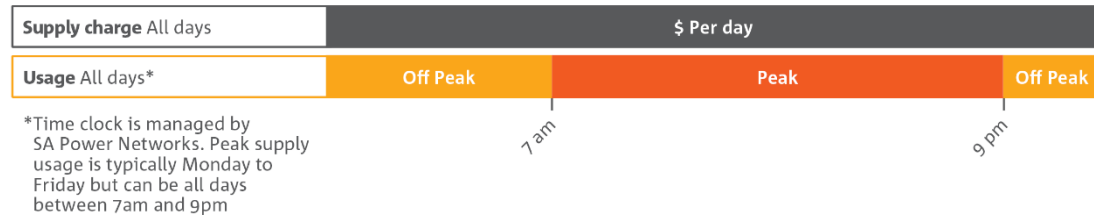
- MBTOUD is the default tariff.
- If <120kVA then SBTOU is a Customer Choice tariff.
- MBTOUD Daily supply charge will have a higher price than SBTOU.
- MBTOUD is the same tariff structure as SBTOUD in 2020-25.

Small and Medium Business Tariff Structures – Accumulation Meter | Default

BSR | Business Single Rate



B2R | Business Two Rate



OPCL | Off Peak Controlled Load



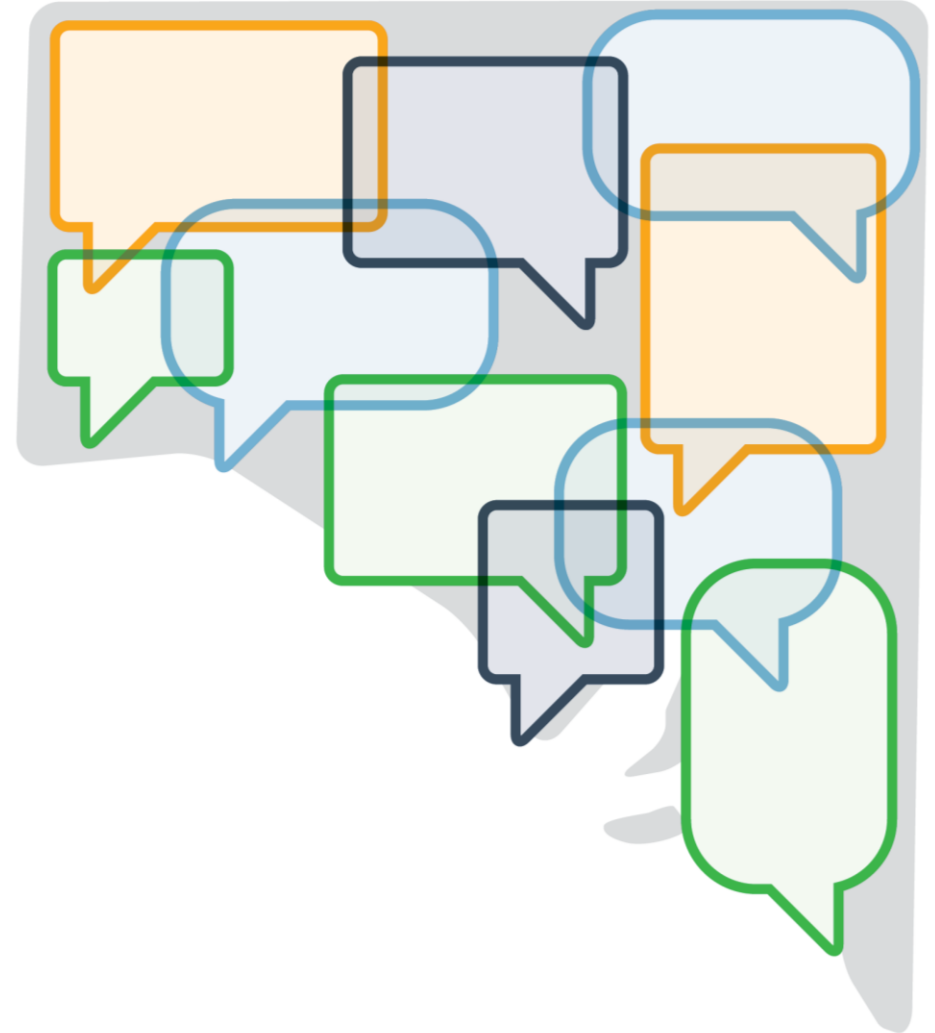
*Time clock is managed by SA Power Networks and typically involves supply usage between 11pm-7am and from 10am-3pm.

- No changes to single and two rate/flat tariffs in 2025-2030.
- These tariffs will not incorporate a pricing differential like the interval meter tariffs in Small and Medium Business tariff classes.
- Only customers with an Accumulation Meter can access these tariffs.

Summary of Small Business Tariff Changes 2025-30

Tariff	Default/Customer Choice	Change	New
Small Business Time of Use SBTOU	Default 0-40 MWh p.a. <120kVA Customer Choice 40-160 MWh p.a. <120kVA	Small Business tariff class has two tariff categories: Small and Medium	—
Medium Business Time of Use Demand MBTOUD	Default 40-160 MWh p.a.	Small Business tariff class has two tariff categories: Small and Medium	—
Business Single Rate BSR	Default	—	—
Business Two Rate B2R	Default	—	—
Off Peak Controlled Load OPCL	Default	—	—

Discussion | Questions | Comments | Observations



Large Business Tariff Structures

Large Low Voltage Business >160MWh p.a.

	TYPE 5	TYPE 4
Mandatory	Fixed Supply Charge	
Default	Time of Use Annual Demand LBAD	
Customer Choice	Time of Use Monthly Demand LBMD	
	Time of Use Agreed Demand Flexible LBADF	

Large LV Business Actual Demand | BD and HV Business Actual Demand | HBD will no longer be a choice in 2025-30.

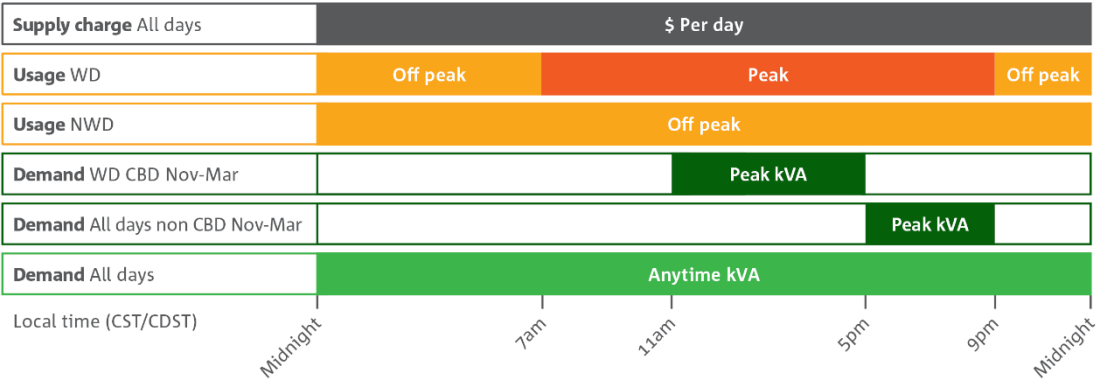
High Voltage Business >160MWh p.a.

	TYPE 5	TYPE 4
Mandatory	Fixed Supply Charge	
Default	Time of Use Annual Demand HVAD	
Customer Choice	Time of Use Monthly Demand HVMD	
	Time of Use Agreed Demand Flexible HVADF	

Customers currently on these tariffs can transition to another tariff in 2020-25 and will be mandatorily reassigned at 1 July 2025.

Large Business Tariff Structures >160 MWh p.a. – Interval Meter

- LBAD** | Large Low Voltage Business Annual Demand
- LBADF** | Large Low Voltage Business Agreed Demand Flexible
- LBMD** | Large Low Voltage Business Monthly Demand
- HVAD** | High Voltage Business Annual Demand
- HVADF** | High Voltage Business Agreed Demand Flexible
- HVMD** | Large High Voltage Business Monthly Demand



- Existing tariff structures proposed to continue in 2025-30: LBAD, LBMD, HVAD and HVMD.

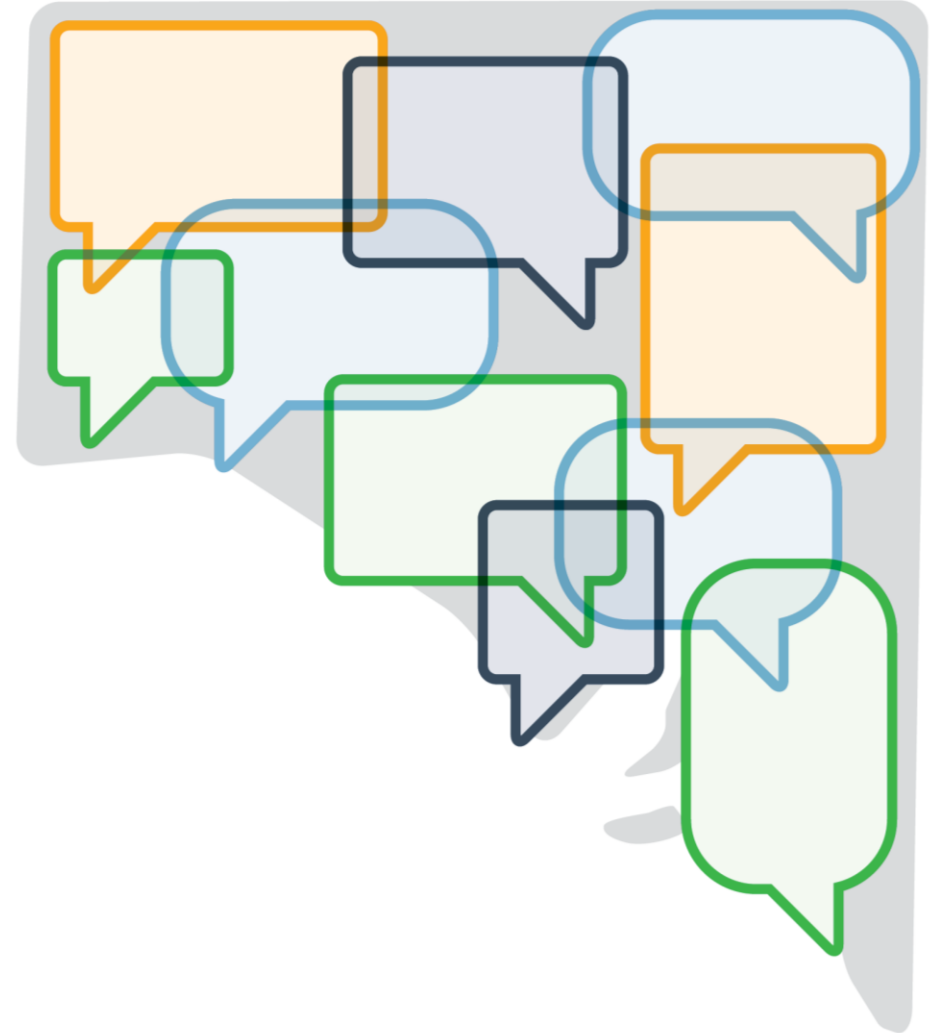
Flexible Tariffs | NEW 2025-30 |

- Addition of the Flexible concept which is currently being trialled in 2022-23.
- If a load can be flexible, then that flexibility is rewarded with a 50% reduction in the Anytime Demand tariff.
- Demand values are agreed for a 12 month period.
- The Peak window has also been redefined:
 - November to March
 - 5-9pm (Rest of SA), 11am-5pm (CBD)
 - Temperature forecast at West Tce Adelaide is greater than 38 degrees on the preceding day at 4pm

Summary of Large Business Tariff Changes 2025-30 | Interval Meter

Tariff	Default/Customer Choice	Change	New
Large Low Voltage Business Annual Demand LBAD	Default	—	—
Large Low Voltage Business Annual Demand Flexible LBADF	Customer Choice	—	Incentivising customers who can be flexible with their load.
Large Low Voltage Business Monthly Demand LBMD	Customer Choice	—	—
High Voltage Business Annual Demand HVAD	Default	—	—
High Voltage Business Annual Demand Flexible HVADF	Customer Choice	—	Incentivising customers who can be flexible with their load.
High Voltage Business Monthly Demand HVMD	Customer Choice	—	—

Discussion | Questions | Comments | Observations



Major Business Tariff Structures

Major Business Substation + Sub Transmission

	TYPE 4
Mandatory	Fixed Supply Charge
Default	Single Rate Annual Demand ZSN STN
Customer Choice	Single Rate Agreed Demand ZSN STN
	Single Rate Agreed Demand Flexible ZSNF STNF

Major Business Tariff Structures – Interval Meter

ZSN | Zone Substation

ZSNF | Zone Substation Flexible

STN | Sub Transmission

STNF | Sub Transmission Flexible

Supply charge All days	\$ Per day
Usage All days	Single rate
Demand All days	Peak kVA
Demand All days	Anytime kVA

Local time (CST/CDST) Midnight Midnight

- Existing tariff structures proposed to continue in 2025-30: ZSN and STN.
- Peak Demand time window is determined by transmission pricing requirements which vary across the state.

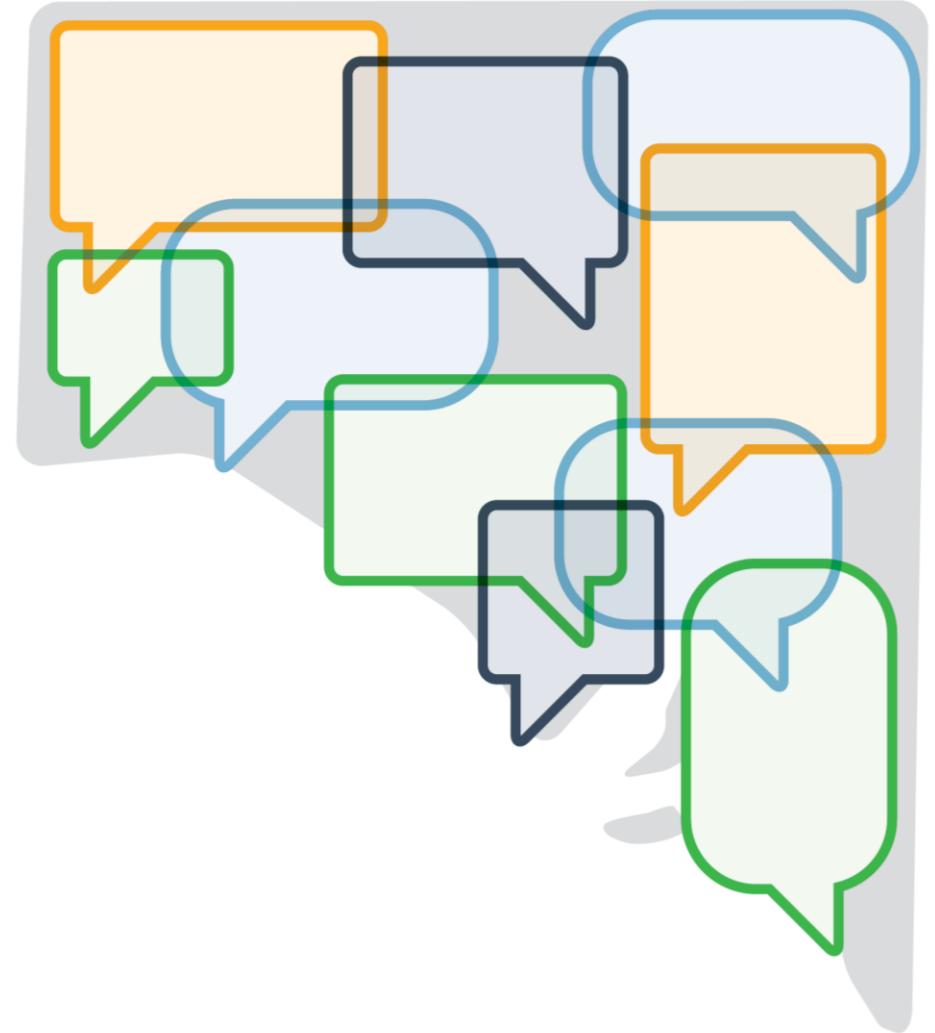
Flexible Tariffs | **NEW 2025-30** |

- Addition of the Flexible concept which is currently being trialled in 2022-23.
- If a load can be flexible, then that flexibility is rewarded with a 50% reduction in the Anytime Demand tariff.
- Demand values are agreed for a 12 month period.
- The Peak window has also been redefined:
 - November to March
 - 5-9pm (Rest of SA), 11am-5pm (CBD)
 - Temperature forecast at West Tce Adelaide is greater than 38 degrees on the preceding day at 4pm

Summary of Major Business Tariff Changes 2025-30 | Interval Meter

Tariff	Default/Customer Choice	Change	New
Zone Substation ZSN	Default	–	–
Zone Substation Flexible ZSNF	Customer Choice	–	Incentivising customers who can be flexible with their load.
Sub Transmission STN	Default	–	–
Sub Transmission Flexible STNF	Customer Choice	–	Incentivising customers who can be flexible with their load.

Discussion | Questions | Comments | Observations



Generation Tariff Structures

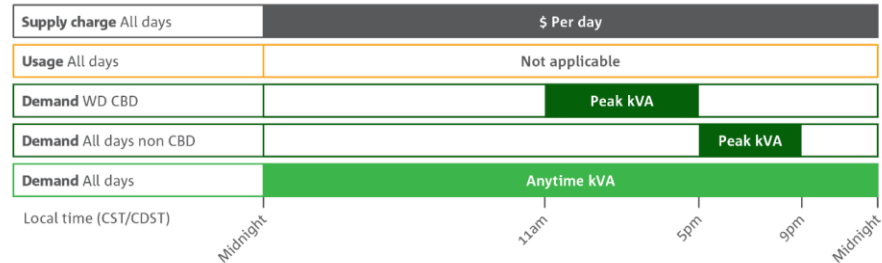
Generation

	TYPE 4
Mandatory	Fixed Supply Charge LBG
Default	Single Rate Annual Demand LBG HVBG ZSNG STNG
Customer Choice	Single Rate Agreed Demand LBG HVBG ZSNG STNG
	Single Rate Agreed Demand Flexible LBGF HVBGF ZSNGF STNGF

Generation Tariff Structures – Interval Meter

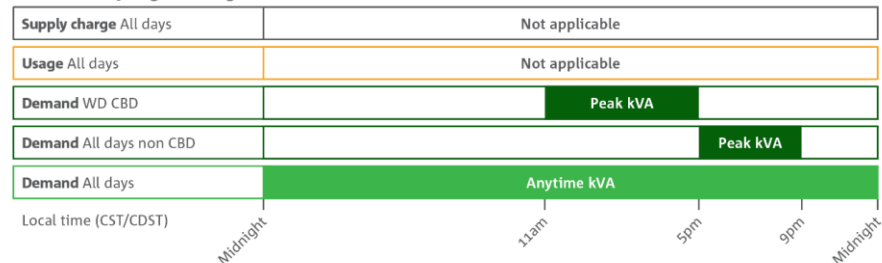
LBG | Large Low Voltage Business Generation

LBGF | Large Low Voltage Business Generation Flexible



HVBG | High Voltage Business Generation

HVBGF | High Voltage Business Generation Flexible

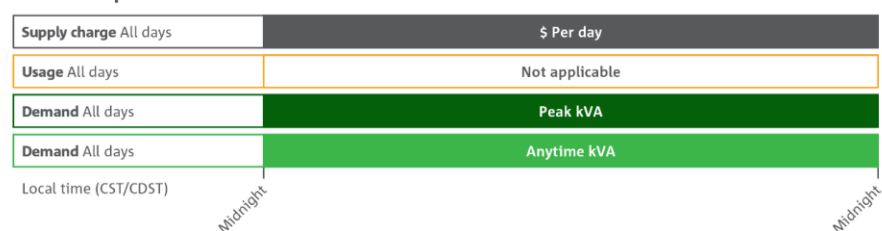


ZSNG | Zone Substation Generation

ZSNGF | Zone Substation Generation Flexible

STNG | Sub transmission Generation

STNGF | Sub Transmission Generation Flexible



- Existing tariff structures proposed to continue in 2025-30: LBG and HVBG.
- Addition of ZSNG and STNG to accommodate customers who are requesting connection at the higher voltage steps.
- Peak Demand time window is determined by transmission pricing requirements which vary across the state. **| NEW 2025-30 |**

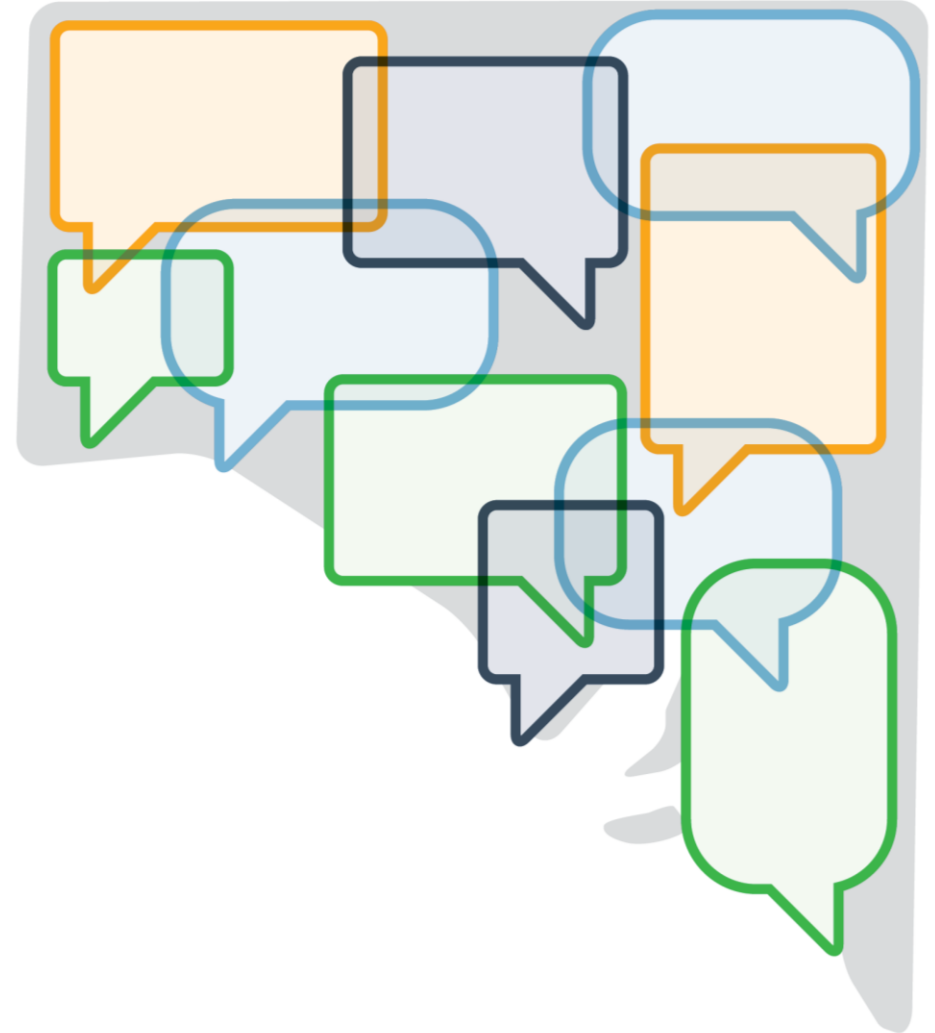
Flexible Tariffs | NEW 2025-30 |

- Addition of the Flexible concept which is currently being trialled in 2022-23.
- If a load can be flexible, then that flexibility is rewarded with a 50% reduction in the Anytime Demand tariff.
- Demand values are agreed for a 12 month period.
- The Peak window has also been redefined:
 - November to March
 - 5-9pm (Rest of SA), 11am-5pm (CBD)
 - Temperature forecast at West Tce Adelaide is greater than 38 degrees on the preceding day at 4pm

Summary of Generation Tariff Changes 2025-30 | Interval Meter

Tariff	Default/Customer Choice	Change	New
Large Low Voltage Business Generation LBG	Default	—	—
Large Low Voltage Business Generation Flexible LBGF	Customer Choice	—	Incentivising customers who can be flexible with their generation.
High Voltage Business Generation HVBG	Default	—	—
High Voltage Business Generation Flexible HVBGF	Customer Choice	—	Incentivising customers who can be flexible with their generation.
Zone Substation Generation ZSNG	Default	—	To accommodate new customers connecting at a higher voltage step.
Zone Substation Generation Flexible ZSNGF	Customer Choice	—	Incentivising customers who can be flexible with their generation.
Sub Transmission Generation STNG	Default	—	To accommodate new customers connecting at a higher voltage step.
Sub Transmission Generation Flexible STNGF	Customer Choice	—	Incentivising customers who can be flexible with their generation.

Discussion | Questions | Comments | Observations

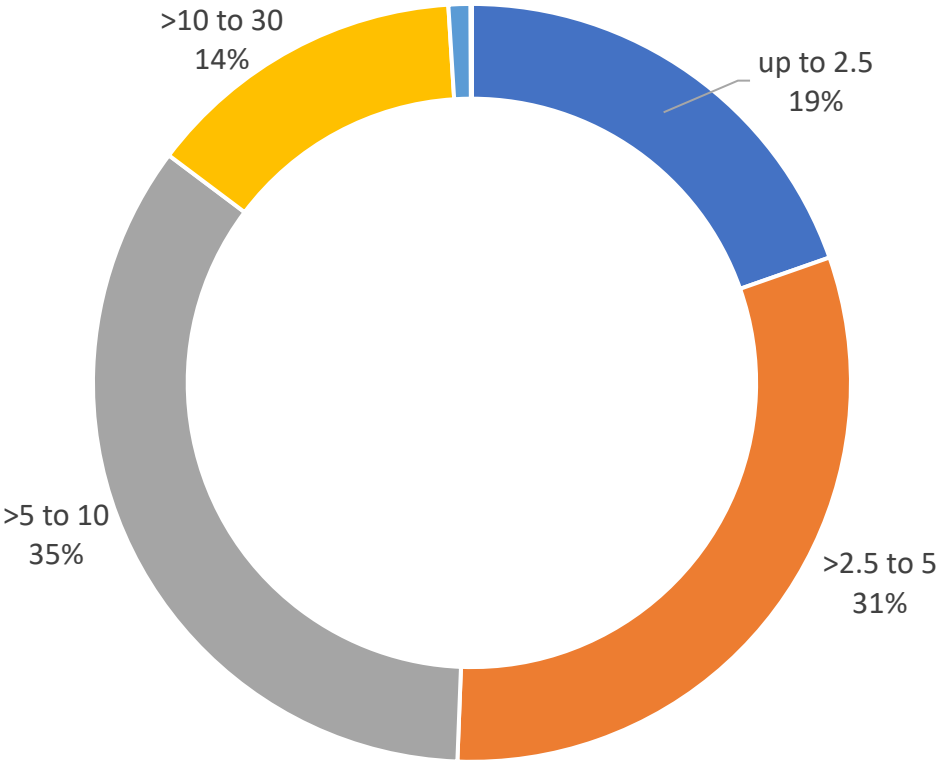


Export Tariffs – Small Generation <30kW

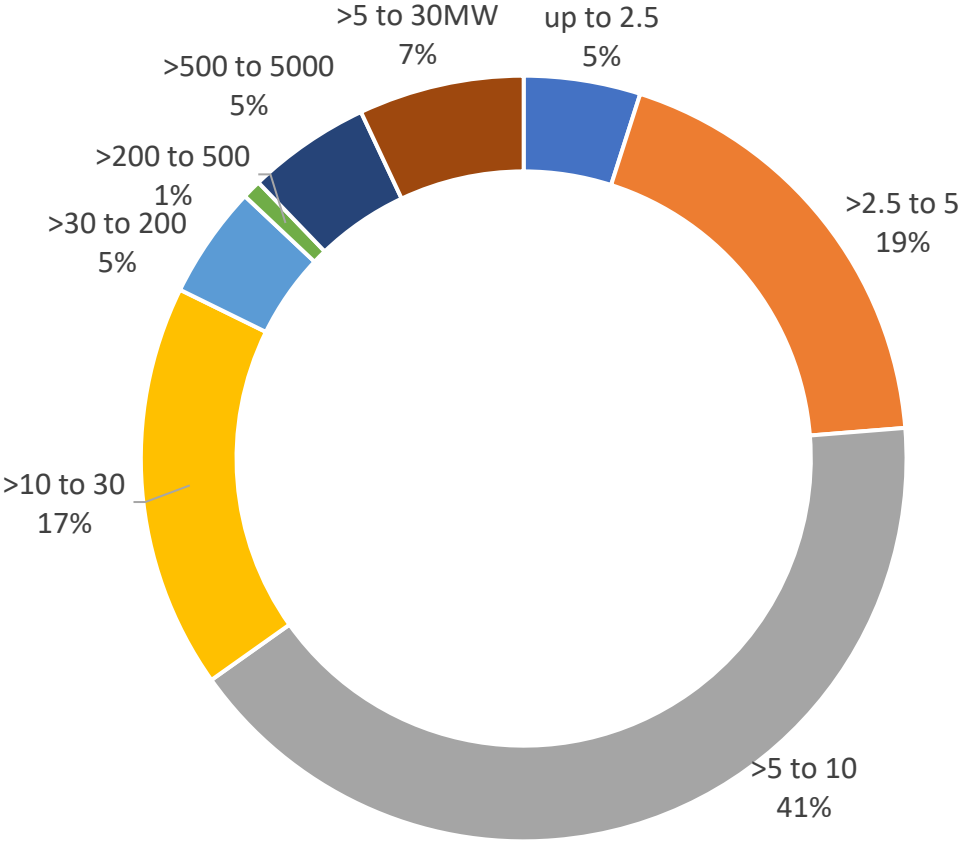


Scene Setting

PV Installations by kW Size PV Commissioned
1% of systems are larger than 30 kW

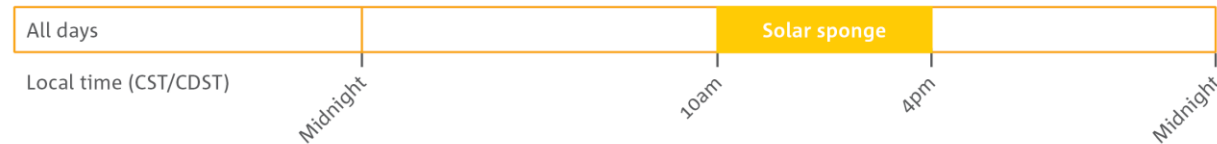


Export Energy 2021-22 by kW Size PV Commissioned



Tariff Structures – Interval Meter | Residential

RE | Residential Export



- The export charge window would align with the Solar Sponge window in Residential consumption tariffs.
- Any time outside 10am – 4pm would not incur a charge.
- The free basic export level (1.5 kW) would be calculated and billed at no charge on a monthly basis.
- If the free basic export limit kWh are not utilised for a day then the kWh will be rolled over and can be used at another time within the month.
- The basic export limit applies on a kWh monthly basis – 9kWh @ 30 days = 270kWh

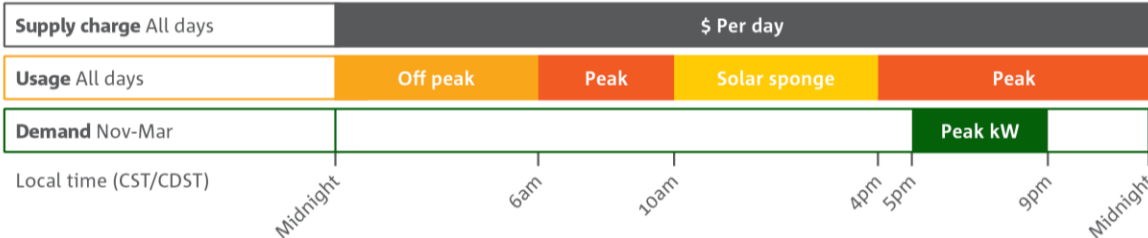
Tariff Structures – Accumulation Meter | Residential

- The meter type cannot distinguish what time of day export is occurring.
- The free basic export level would be calculated and billed at no charge on a quarterly basis.
- 270 kWh Solar Sponge 10am-4pm per month equals approximately 1,100 kWh anytime per quarter maximum.
- If the free basic export limit kWh are not utilised for a day then the kWh will be rolled over and can be used at another time within the quarter.
- The basic export limit applies on a kWh quarterly basis.
- The basic export limit kWh will be calculated based on sample customer data.
- The export charge would be priced in such a way that customers are not penalised or incentivised because they have an Accumulation meter
- On average, a customer who has the same export profile whether they have an Accumulation meter or an Interval meter will have the same pricing outcome.
- This is consistent with our approach for consumption tariffs – RSR/RTOU.

Tariff Structures – Negative Charges/Credits | Residential

- Residential Prosumer tariff has a kW demand charging component:
 - November to March 5pm-9pm
- Demand is calculated as the highest daily average demand interval – i.e. 4 hours
- SA Power Networks is proposing to recognise negative demand in 2025-30.
- If negative demand reduces the demand value for the 4 hour window of 5pm-9pm November to March to a negative kW value then a credit of **74.76** c/kW per day for the month will be received.

RPRO | Residential Prosumer



Time Interval	kW	Demand Calculation 2020-25	Proposed Demand Calculation 2025-30
5:01-5:30pm	-10	Sum of all positive values. Negative values treated as 0.	Sum of all positive and negative values.
5:31-6:00pm	-15		
6:01-6:30pm	-5		
6:31-7:00pm	-10	0 + 0 + 0 + 0 + 0 + 0 + 20 + 10 = 30	(10) + (15) + (5) + (10) + (5) + (15) + 20 + 10 = (30)
7:01-7:30pm	-5		
7:31-8:00pm	-15		
8:01-8:30pm	20	Highest daily average: 30/8 = 3.75	Highest daily average: (30)/8 = (3.75) 3.75 x 74.76 c/kW = \$2.80 per day \$2.80 x 30 days = \$80.00 per month
8:31-9:00pm	10		

| **CHANGE 2025-30** |

Tariff Structures – Negative Charges/Credits | Residential

- SA Power Networks is proposing to trial a two way tariff in 2023-24 to inform our thinking for 2025-30. We have not landed on a position for 2025-30 at this stage.
- The trial will be based on the Electrify tariff structure and include an export charge and export credit.

Consumption 2022-23 NUoS Pricing

- Peak: 4 hours | 28.62 c/kWh
 - All year round
- Shoulder: 14 hours | 9.0 c/kWh
- Solar Sponge: 6 hours | 2.02 c/kWh

Proposed Export Pricing

- Peak: 4 hours | **14.5** c/kWh credit
 - November – March
- Solar Sponge: 6 hours | 1 c/kWh charge applicable above 270kWh for every 30days

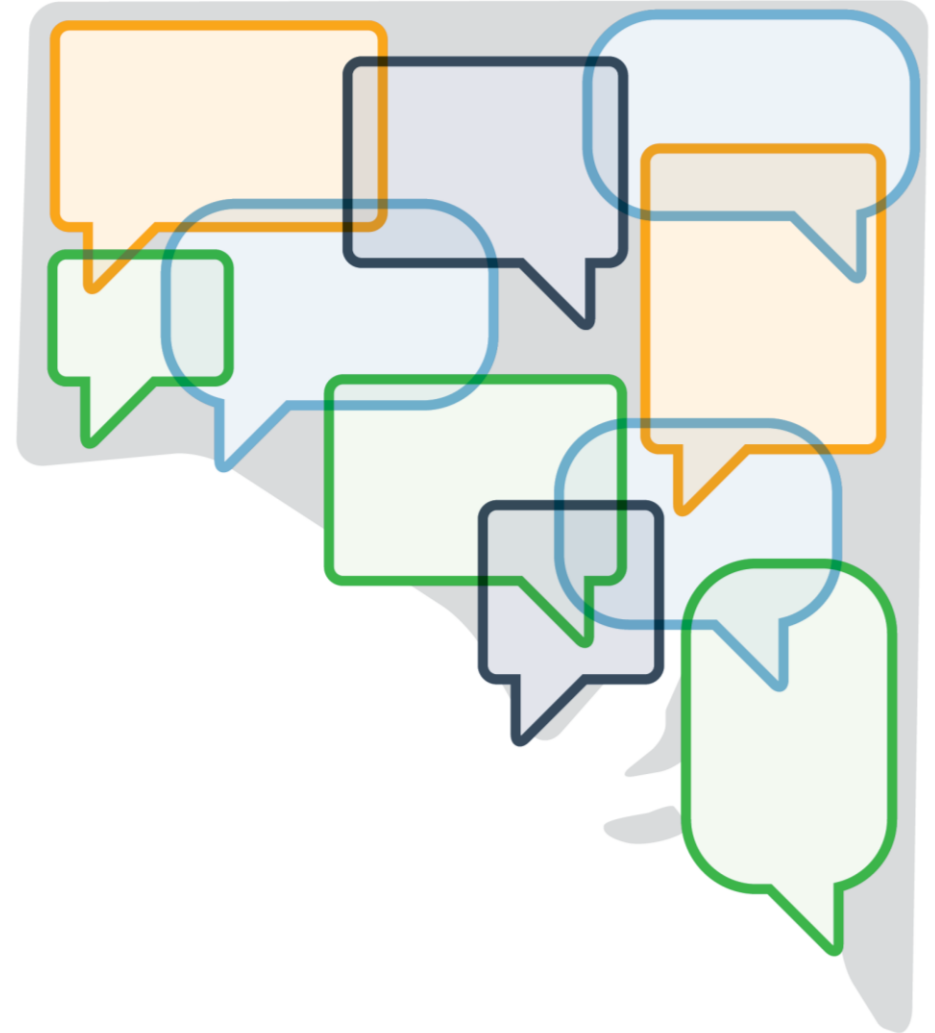
RELE | Electrify



RE | Residential Export



Discussion | Questions | Comments | Observations



Tariff Structure – Interval Meter | Small & Medium Business

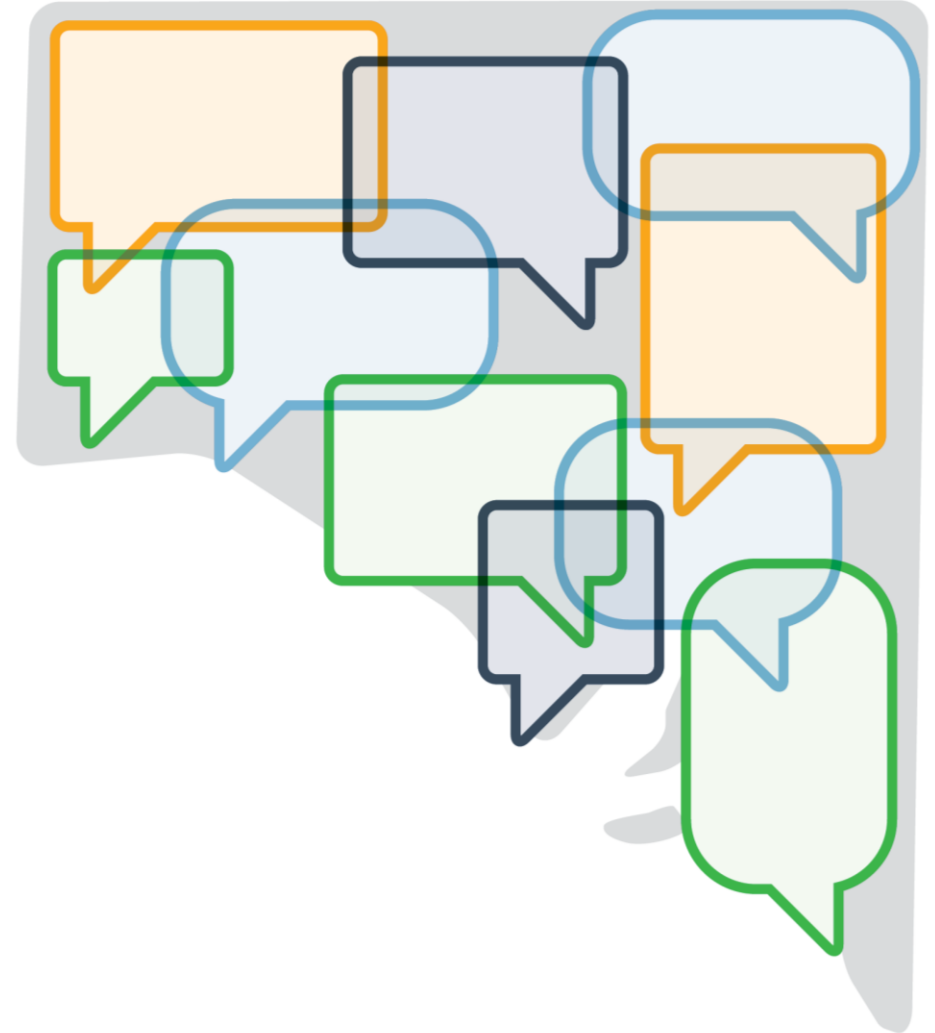
	Export Charge Time Window	No. Days	Basic Export Level	Basic Export kWh per Week
Work Day WD	10am-4pm 6 Hours	5	1.5kW	45
Non Work Day NWD		2		18
Total				63

- WD and NWD concept has already been established in Small and Medium Business tariffs.
- The free basic export level would be calculated and billed at no charge on a monthly basis.
- Unused basic export kWh WD will be rolled over and can be used at another time within the month on a WD.
- Unused basic export kWh NWD will be rolled over and can be used at another time within the month on a NWD.
- Any time outside 10am – 4pm would not incur a charge.

Tariff Structure – Accumulation Meter | Small & Medium Business

- The meter type can not distinguish what time of day export is occurring.
- The free basic export level would be calculated and billed at no charge on a quarterly basis.
- 270 kWh Solar Sponge per month equals approximately 1,100 kWh anytime per quarter maximum.
- If the free basic export limit kWh are not utilised for a day then the kWh will be rolled over and can be used at another time within the quarter.
- The basic export limit applies on a kWh quarterly basis.
- The basic export limit kWh will be calculated based on sample customer data.
- The export charge would be priced in such a way that customers are not penalised or incentivised because they have an Accumulation meter.
- On average a customer who has the same export profile whether they have an Accumulation or an Interval meter will have the same pricing outcome.

Discussion | Questions | Comments | Observations



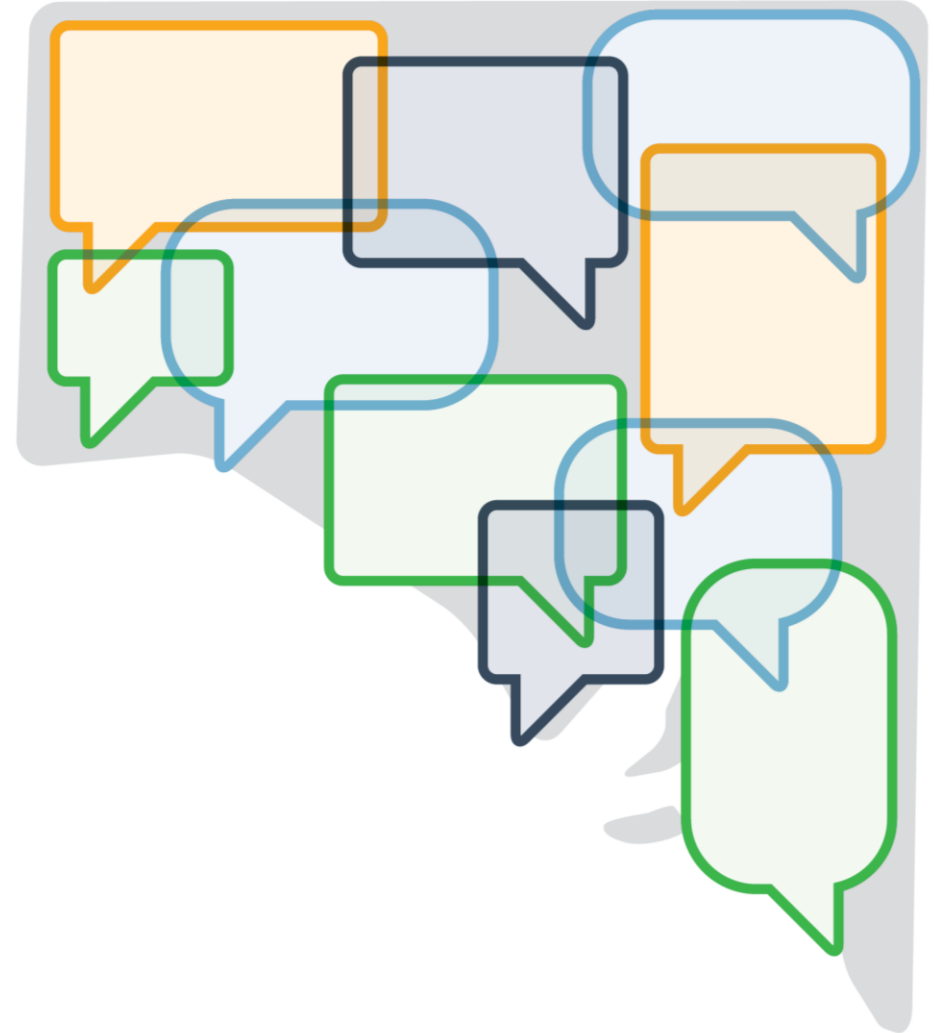
Export Tariffs – Large Generation >30kW



Tariff Structure – Interval Meter | Large Generation >30kW

- Less than 1% of Distributed Energy Resource NMIs are >30kW
- To date, SA Power Networks has been focusing its thinking and development to create export tariffs for Small Generation customers.
- As we refine our thinking and work with our broad and diverse range of stakeholders we will inform and consult with retailers in 2023.

Discussion | Questions | Comments | Observations





Empowering South Australia