

# Council Member briefing

## 16 April 2024

# Tonight...

## 1. Sustainable Kerbside Service

6–6.30 Rob Gregory, General Manager East Waste

## 2. Proposed changes in tree management

6.30–7.15 Philip Roetman and Chris Hawkins

## 3. Power Purchasing opportunity

7.15–7.45 Philip Roetman



# Tonight...

## **1. Sustainable Kerbside Service**

6–6.30 Rob Gregory, General Manager East Waste



# EastWaste



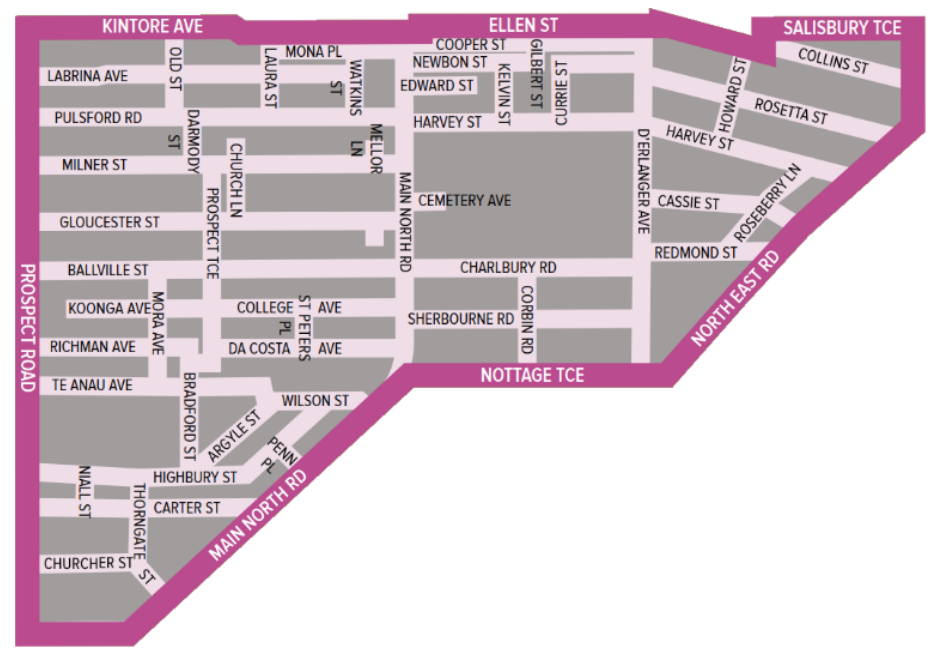
## Sustainable Kerbside Service City of Burnside Elected Members Briefing

16 April 2024



# PROSPECT Trial Overview

- Weekly FOGO
- Fortnightly recycling
- Fortnightly landfill
- 240L upsize of landfill on request
  
- Thursday Collection Area
- Commenced 7 Sept
- 1,900 properties (inc. businesses)



# Participant Overview



## Weekly FOGOers

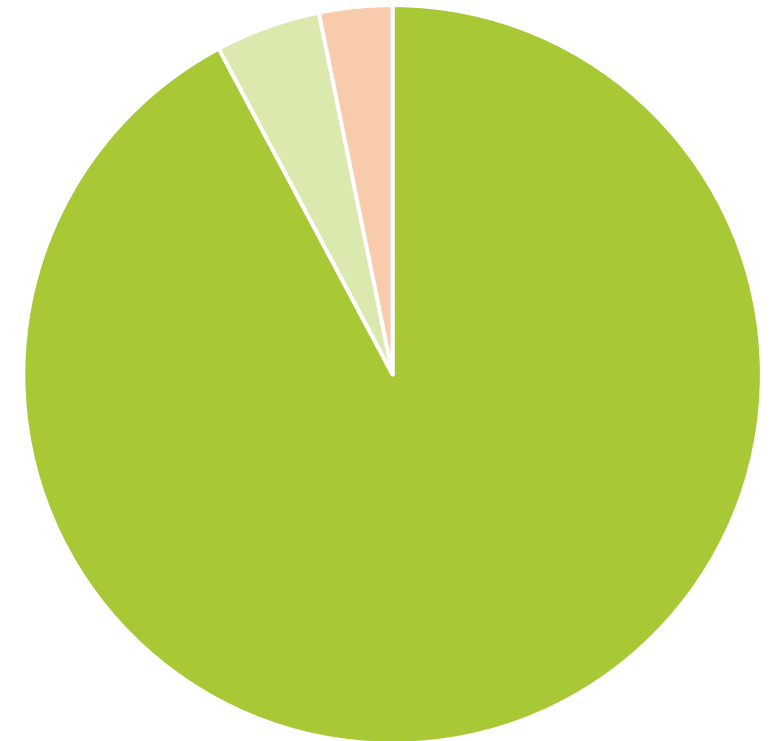
- 97% of the trial population

## Opt Up to a larger landfill bin

- 77 households
- 5% of the trial population

## Opt Out to weekly landfill

- 59 households opted out of the trial
- 3% of the trial population

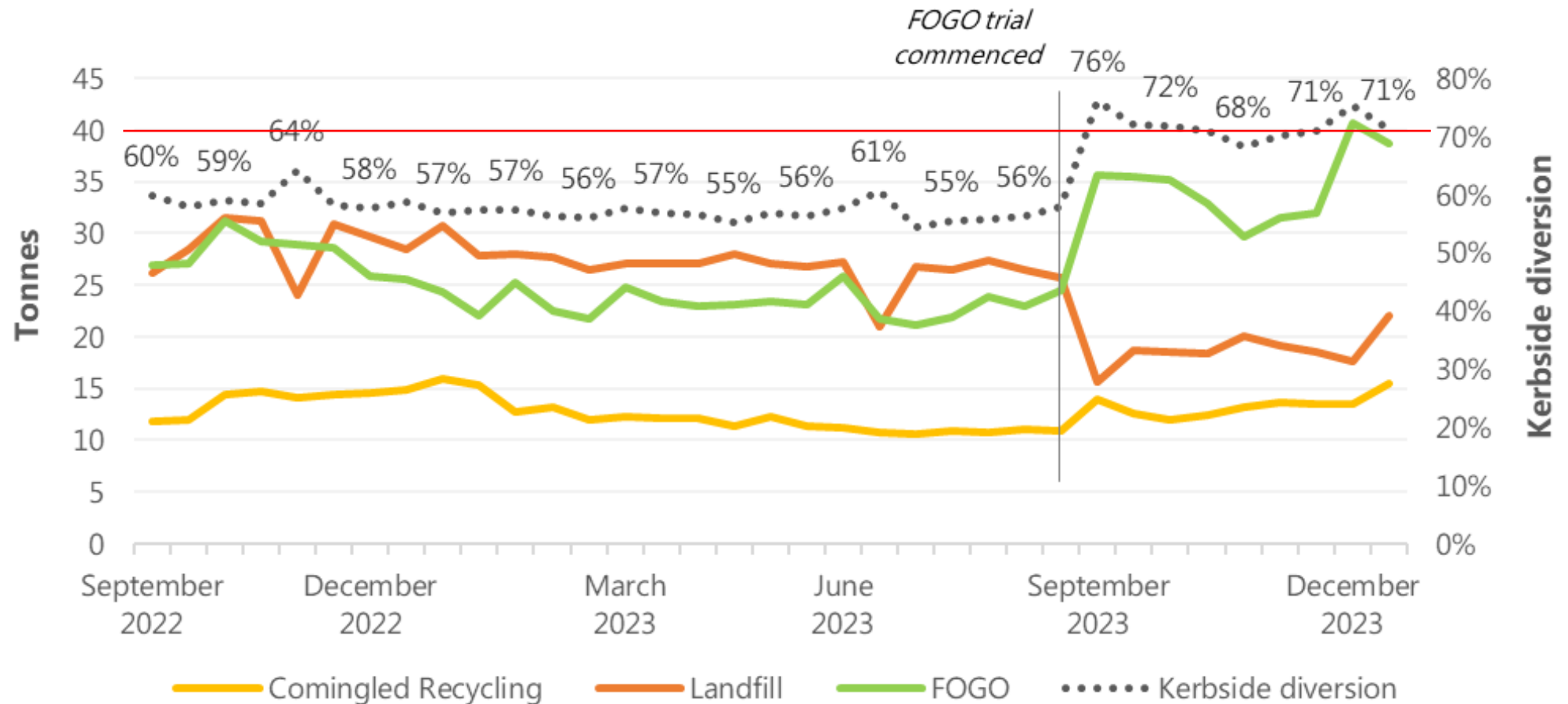


■ Weekly FOGOers ■ Opt-Ups ■ Opt-Outs

# Waste Generation & Kerbside Diversion

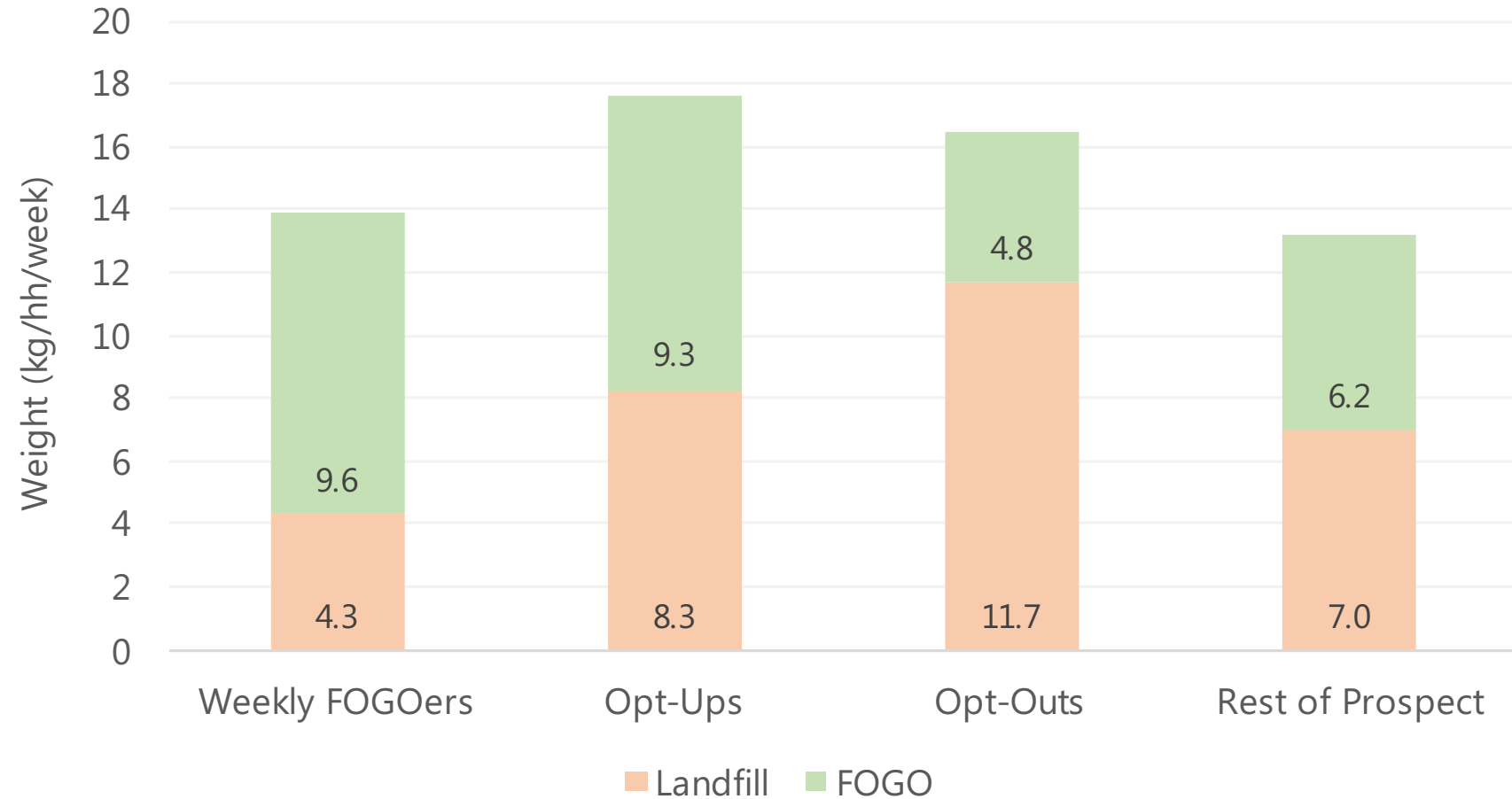


## Tonnes of material collected and kerbside diversion





## Waste generation (kg/hh/week)



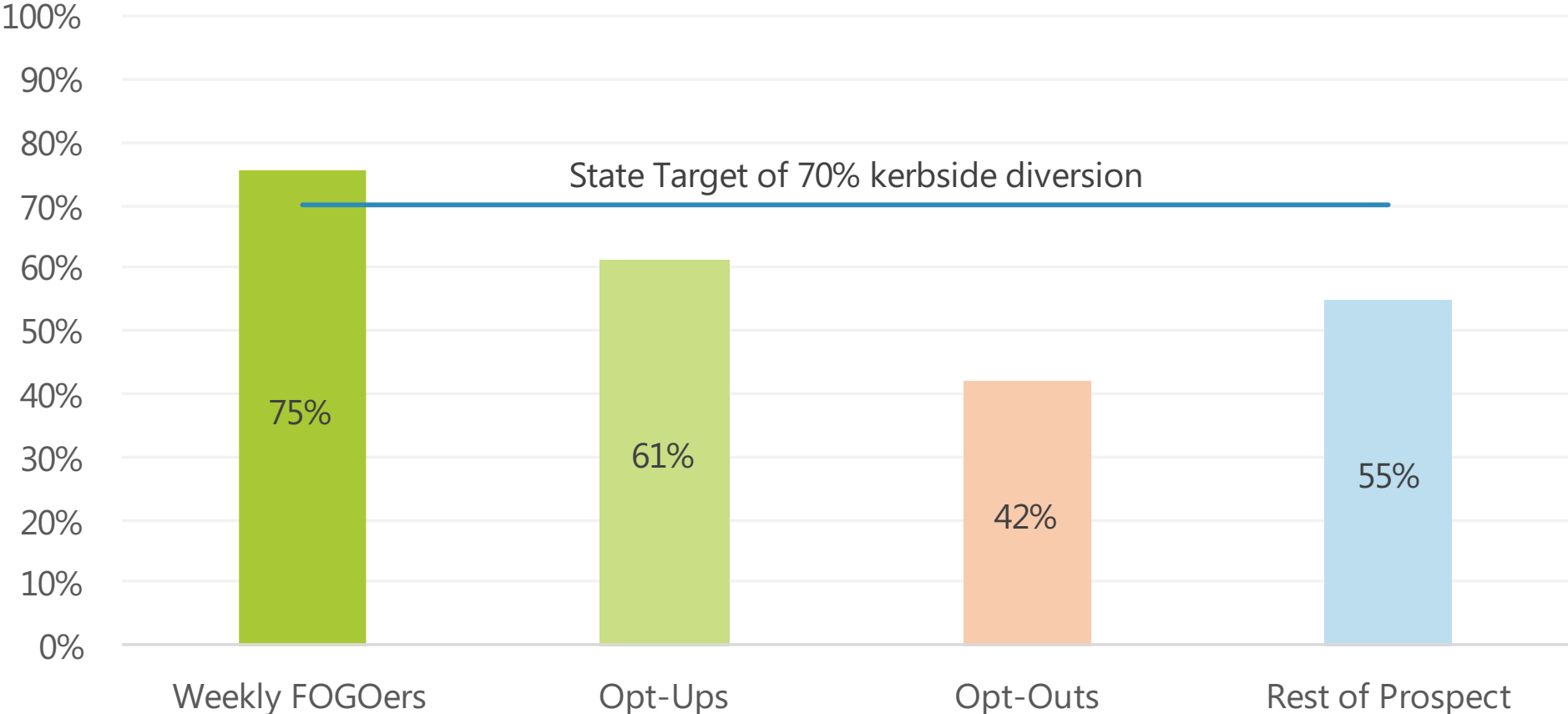
# Waste Generation



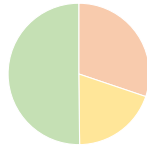


# Kerbside Diversion

## Audit results - kerbside diversion



## What Prospect can Achieve



72% kerbside diversion (from 55% currently across Council)



1,400 tonnes of additional FOGO material collected each year



1,600 tonnes less is placed in the landfill bin each year



\$461,000 contribution to gross state product and the SA circular economy



0.8 full time equivalent jobs created in the composting industry



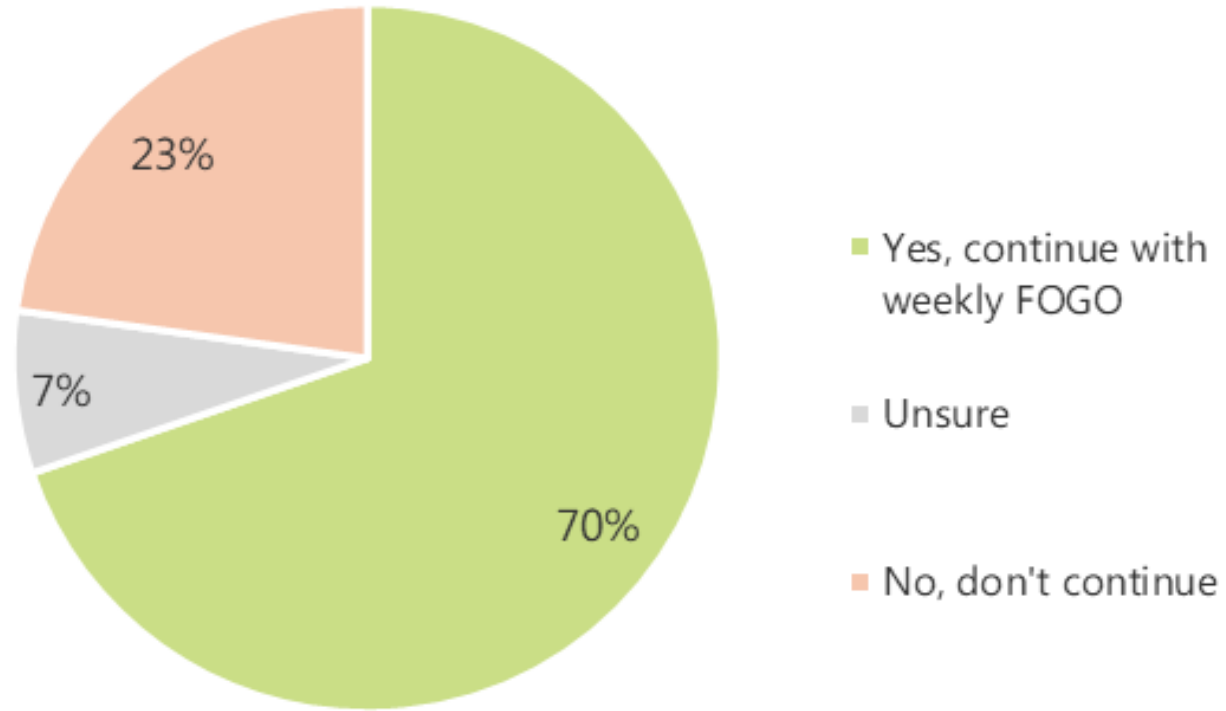
Net CO2 saving



Supports fiscal responsibility and provides cost of living relief through operational saving, while supports those with genuine needs at no additional cost.



# Community Support



# City of Burnside Trial



## NEW TRIAL SERVICE



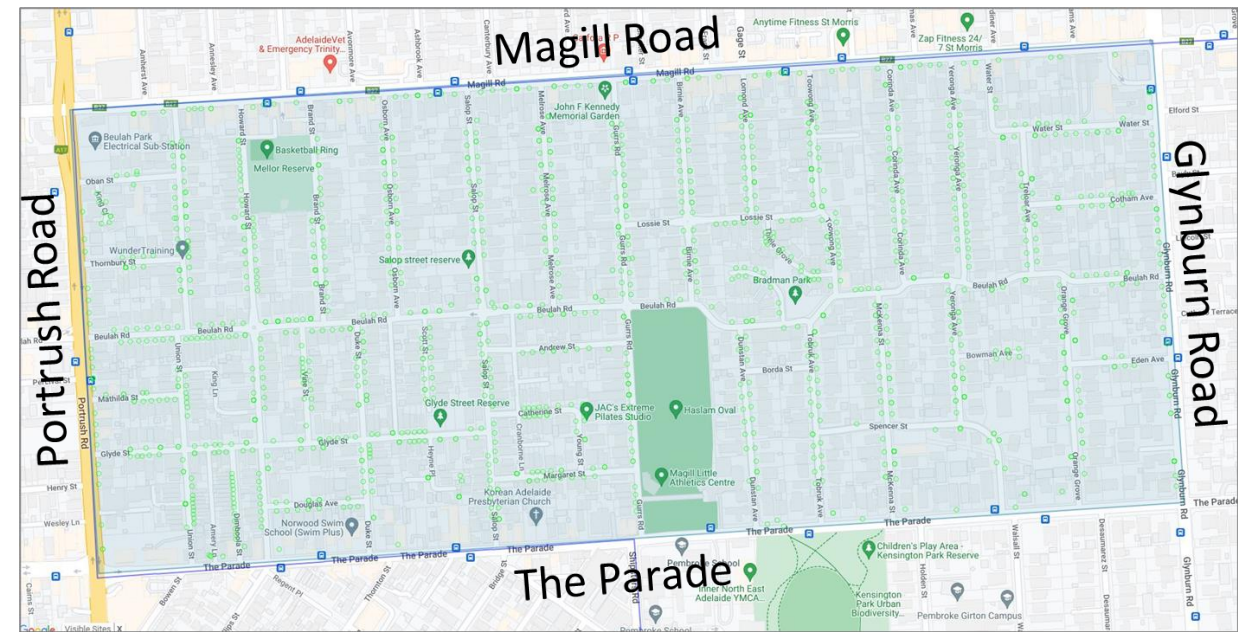
WEEK 1



WEEK 2

## Trial Location

- Monday- part collection
- Beulah + Kensington Park
- 1,338 sites
- Clear trial boundaries





## Trial Details

- Website live: 1 August
- Welcome packs delivered (flyer, caddy, bags, calendar & map): 5 August
- Reminder letter: 19 August
- Street corner meetings: 10 and 24 August
- Civic centre presentation: 22 August
- **Trial commencement** and 2nd reminder letter: **2 September**  
(no change to service yet, landfill and organics collected as normal)
- **First week of no landfill collection: 9 September** (organics and recycling collected)
- Grace period for first week of no landfill collection, bins collected 11 September

# Questions



# Tonight...

## 2. Proposed changes in tree management

6.30–7.15 Philip Roetman and Chris Hawkins





# Background...

- Council tree data managed in *Forestreet*, with increasing ability to:
  - Analyse tree and works data
  - Adapt management protocols accordingly

The screenshot shows the Forestreet dashboard interface. At the top left is the 'forestreet' logo. The main header is 'Dashboard' with the user name 'Philip Roetman'. Below the header is a 'Maps' section with five icons: INSPECTIONS, WORKS, PLANTING, STUMPS, and WATERING. To the right of the Maps section is a summary card for 'TOTAL TREES' showing '42,172'. Below this are four rows of data: 'STREET TREES 34,882', 'PARK/RESERVE TREES 7,290', 'PLANTING SPACES 3,134' (with '1,061 Approved' in green), and 'WATERING LIST 2,401'. At the bottom of this card are 'COPESE 5' and 'HEDGE 3', along with 'HELP GUIDE' and 'SHOW TOUR' buttons. On the left side is a navigation menu with items: Dashboard, Assigned to Me, Inspections List, Work Required List, Planting List, Stumps Removal List, and Reporting. The 'Activity Feed' section shows three items: 'Inspection 3659207 Private Overhang' by Matt Grant on 12/04 at 2:00 pm; 'Work Complete 256498 Deadwood' by Tom Palmer on 12/04 at 1:20 pm; and 'Work Complete 769237 Other' by Pruning1 on 12/04 at 12:48 pm.

The screenshot shows a detailed view for a tree. The title is 'Jacaranda mimosifolia Jacaranda'. The tree ID is 'Tree #409751'. The address is '18 Lockwood Road ERINDALE SA 5066'. The asset ID is '136691' with a 'Low' risk level. The tree was planted on '21/08/2017' and is 'Juvenile'. Its health is 'Good' and it is '10 years +'. The height is '0' (less than 5m) and the canopy range is '0' (less than 2m). The DBH is '3' and the structure is 'Fair'. The trunk circumference at 1m is 'less than 2m'. The planted pot size is '2.00m' and the retention value is '1.50m'. There are also buttons for 'Flag' and 'Flag'.



# Background...

- Council's tree assessments follow respected industry methodology:
  - *Tree Risk Assessment Qualification (TRAQ)*.
  - Developed and maintained by *International Society of Arboriculture*.
  - Used by most Councils in Adelaide.
- TRAQ inspections result in a risk profile for every tree (42,172):
  - Low Risk (42,002)
  - Moderate Risk (165)
  - High Risk (5)
  - Extreme Risk (0)



# Background...

- Like all things in life, there is no such thing as no risk:

Cause	Mortality rate in Australia (1 in...)	Comparison with accidental tree failure
Driving	20,000	250x
Murder	100,000	50x
Falling from a bed	420,000	12x
Falls involving a chair	1,000,000	5x
Falls involving a ladder	1,300,000	4x
Horses	2,040,000	2x
Accidental tree failure	5,000,000	90% during wind/storms
Accidental tree failure (while inside a house)	189,000,000	



# Background...

- Risks associated with trees are outweighed by their benefits...
  - Aesthetics
  - Cooling
  - Habitat for native animals
  - Stormwater management
  - Pollution reduction
  - Physical and mental health
  - Reduction of energy costs
  - Soil health
  - Combatting climate change
  - And more!



# Background...

- Council has protection from liability under *Local Government Act*:
  - **Section 244: Trees on community land**  
Protection dependent on no wrongful act
  - **Section 245: Street trees**  
Protection dependent on reasonable action in response to requests
- Currently increased public and media scrutiny + increased requests
- Increased pressure on officers' decision-making and work lives
- Review of practices conducted to ensure:
  - Best practice
  - Reduce risk (i.e., maintain legal protection)



# Current timeframes on works

Risk-based work priority	Reactive (customer driven)	Proactive (identified via planned inspections)
Low	12 months	3 years
Medium	3 months	12 months
High	1 month	6 months
Urgent	24 hours	24 hours

Noted in AMP  
(public)

Historical,  
determined by  
resourcing

## 3-years is too long:

- The situation may change over 3-years.
- *Mutual Liability Scheme* has questioned a 3-year delay (considering the LG Act).
- Would not pass the 'front-page test' if an incident occurred.

# Setting reasonable timeframes on works

- The *Mutual Liability Scheme* have determined that Council should set its risk threshold and timeframes on works considering:
  - Standard Industry Practice (i.e., what other Councils do); or
  - Professional advice.
- We consulted 4 Adelaide councils and 3 Melbourne councils...



# Industry practice...

- **Range of approaches and strengths**
- **Inspection cycles:**
  - Most 5-years, one 2-years
  - Custom cycles for some tree, most 1-year, some 0.5 to 3-years
- **Timeframes for works:**
  - 3-months to 2-years
  - Councils with shorter timeframes did not include aesthetic crown lifts
- **Aesthetic crown lifts:**
  - Most use an area-based approach
  - We identify and 'lift' individual trees





# Proposed timeframes on works

<b>Risk-based work priority</b>	<b>Reactive</b> (customer driven)	<b>Proactive</b> (identified via planned inspections)	<b>Proposed new timeframes</b> (BOTH proactive and reactive)
<b>Low</b>	12 months	3 years	<b>12 months</b>
<b>Medium</b>	3 months	12 months	<b>6 months</b>
<b>High</b>	1 month	6 months	<b>1 month</b>
<b>Urgent</b>	24 hours	24 hours	<b>24 hours</b>

**All works conducted within 1-year**

- **Alignment of reactive and proactive works will ensure works are prioritised based on risk**



# Aesthetic crown-lifts

- Aesthetic trimming above roads and footpaths
- Propose that these are no longer raised as works (unless there's elevated risk)
- Area-based approach (i.e., one street at a time)
- Save funds:
  1. Not paying consultants to identify aesthetic crown lifts;
  2. Work conducted in batches, rather than on individual trees; and
  3. The allocation of works will be a simpler and less time consuming.



# Inspection schedules: current practice...

- All trees identified in *Forestree* are inspected every 4 years at minimum; and
- Some large Eucalypts are inspected every 1 or 2 years.
- Ward-based approach.
- It is a flawed system...
  - Cannot reset inspection schedule for out-of-cycle inspections (i.e., customer requests, emergencies, or development applications).
  - During 2023, over 32,000 tree inspections were conducted:
    - Cost of over \$235,000.
    - Close to three quarters of the 42,253 trees in Forestree were inspected.
- The duplication is clear and costly.

# Proposed inspection schedules

Inspection type		#	Frequency of inspections	Years between inspections
Proactive	Standard inspections	38,342	Quadrennially	4
	Mature street gums	2,071	Biennially	2
	Major parks mature trees	1,130	Biennially	2
	Trees around playgrounds	536	Biennially	2
	Moderate risk trees	169	Annually	1
	High risk trees	5	Biannually	0.5
Reactive	Reactive inspections	5,088	Reactive inspections conducted as required	
	Savings from reactive replacing proactive inspections	(1,396)		

# What will it cost?

Inspection type		#	Cost per inspection	Frequency of inspections (annualised)	Inspections conducted per annum	Annualised cost of inspections
Proactive	Standard inspections	38,342	\$5.10	0.25	9,586	\$48,886
	Mature street gums	2,071	\$15.30	0.5	1,036	\$15,843
	Major parks mature trees	1,130	\$15.30	0.5	565	\$8,645
	Trees around playgrounds	536	\$15.30	0.5	268	\$4,100
	Moderate risk trees	169	\$15.30	1	169	\$2,586
	High risk trees	5	\$15.30	2	10	\$153
Reactive	Reactive inspections	5,088	\$15.30	1	5,088	\$77,849
	Savings from reactive replacing proactive inspections	(1,396)	\$9.45	1	(1,396)	\$(13,196)
				<b>TOTALS</b>	<b>15,326</b>	<b>\$144,866</b>

# How does the cost compare?

<b>System</b>	<b># of inspections</b>	<b>TOTAL COST</b>
Current (2023)	32,054	\$235,151
Proposed	15,326	\$144,866
<b>SAVINGS</b>	<b>16,729</b>	<b>\$90,285</b>

These efficiency savings will support the increased service level, ensuring works are conducted within the revised timeframes with no pressure on budget

# Catching up on works (to meet proposed timelines)

Type	Priority	2-3 years	1-2 years	3 mths-1 yr*	< 3 months	Totals
Reactive	Low	0	0	29	68	97
	Medium	0	1	1	15	17
	High	0	0	0	0	0
	Urgent	0	0	0	0	0
	Totals	0	1	30	83	114
Proactive	Low	22	82	557	95	756
	Medium	2	1	55	14	72
	High	0	0	0	2	2
	Extreme	0	0	0	0	0
	Totals	24	83	612	111	830

\*71 more proactive works will be over 12-months by the end of the financial year

**TOTAL = 179 works to catch up**

# Cost of catching up

Priority	Time since raised	Work Type <sup>2</sup>	Number of Trees	Cost per tree <sup>3</sup>	Total
Low	2-3 years	Minor works	4	\$84	\$336
		Other works	18	\$1,200	\$21,600
Low	1-2 years	Minor works	11	\$84	\$924
		Other works	71	\$1,200	\$85,200
Low	9-12 months	Minor works	23	\$84	\$1,932
		Other works	45	\$1,200	\$54,000
Medium	2-3 years	Minor works	1	\$84	\$84
		Other works	1	\$1,200	\$1,200
Medium	1-2 years	Minor works	0	\$84	\$84
		Other works	2	\$1,200	\$1,200
Medium	9-12 months	Minor works	2	\$84	\$168
		Other works	1	\$1,200	\$1,200
<b>Total</b>					\$167,928
<b>Total including 5% contingency</b>					\$176,324
<b>Funds available in Council's Tree Removal Fund</b>					<b>(\$86,947)</b>
<b>New funds required for proposed tree works</b>					<b>\$89,377</b>



# Conclusion

- Improving Council's management of trees will:
  - Reduce anxiety in staff; and
  - Be a demonstrably positive action should Council's practices come under any community or legal scrutiny (i.e., protect Council).
- An initial investment is required to support a step-change in tree management.
- There is not expected to be an ongoing increase in costs.



# Recommendations

1. Reset and align timeframes for proactive and reactive tree works
2. Develop an area-based approach to aesthetic crown-lifts (efficiency)
3. Adopt the proposed new approach to inspection scheduling (efficiency)
4. Immediately spend the \$86,947, (Tree Removal Fund), on works over 1-year old, focussing on the oldest works first
5. Council approves the additional funding required to address the remaining works over 1-year old (\$89,377).

# Questions?



# Tonight...

## **3. Power Purchasing opportunity**

7.15–7.45 Philip Roetman

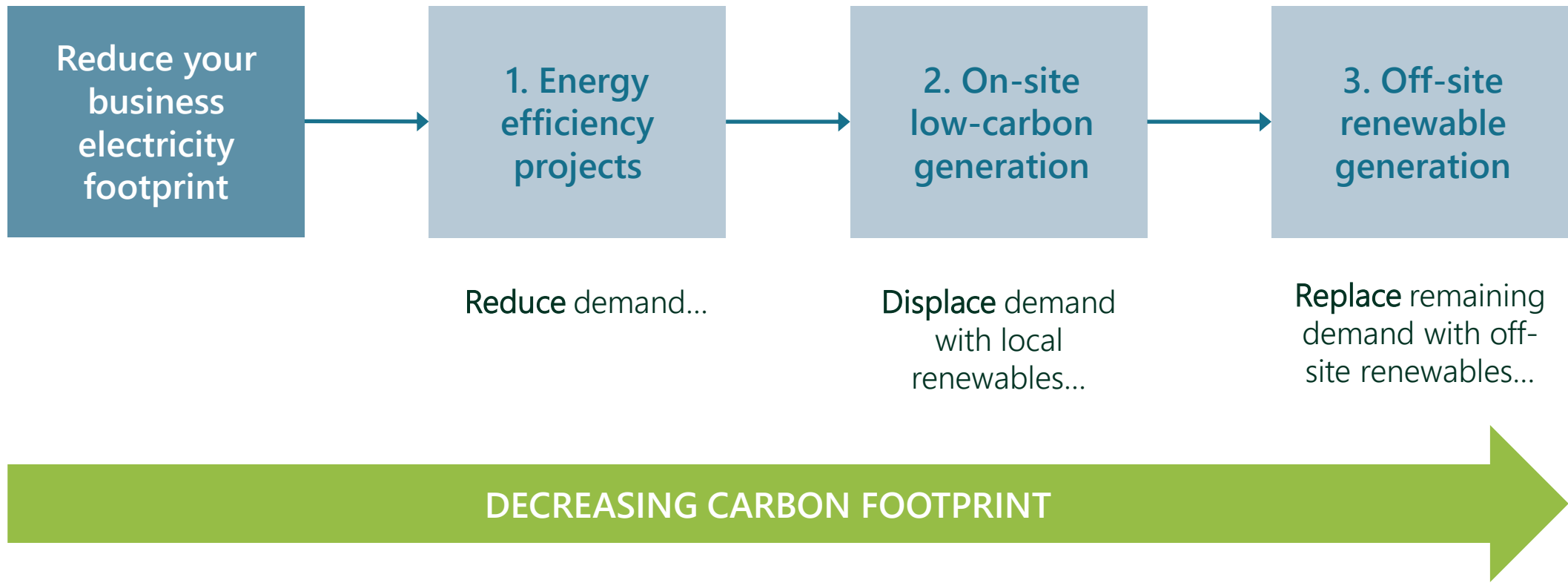


# Long-term Planning for Councils' Procurement of Electricity

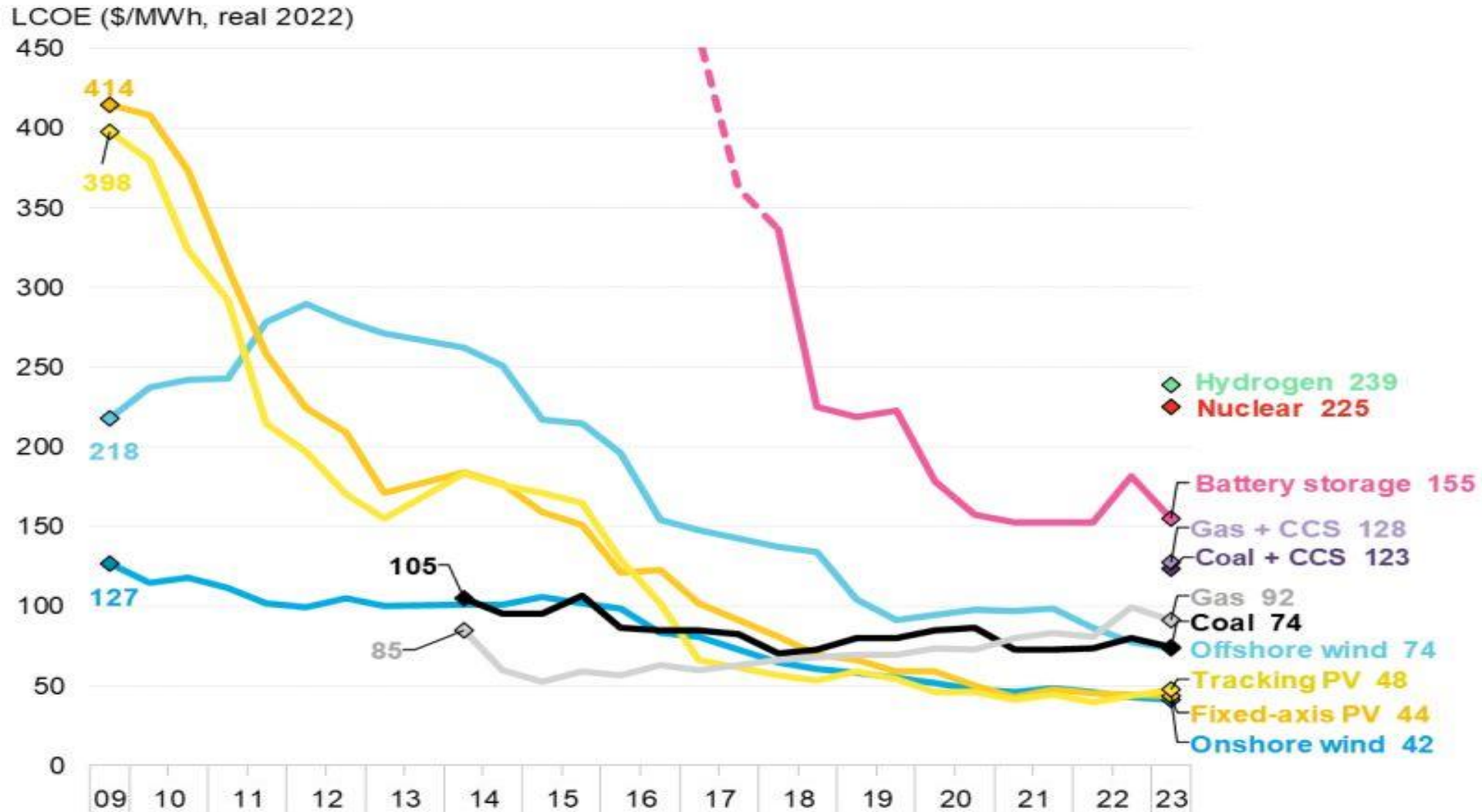
- Councils currently paying record electricity prices
- Some councils avoiding these through Power Purchasing agreements (PPAs)
- We have been exploring opportunities with a group of councils
- Supported by specialised consultancy, Presync



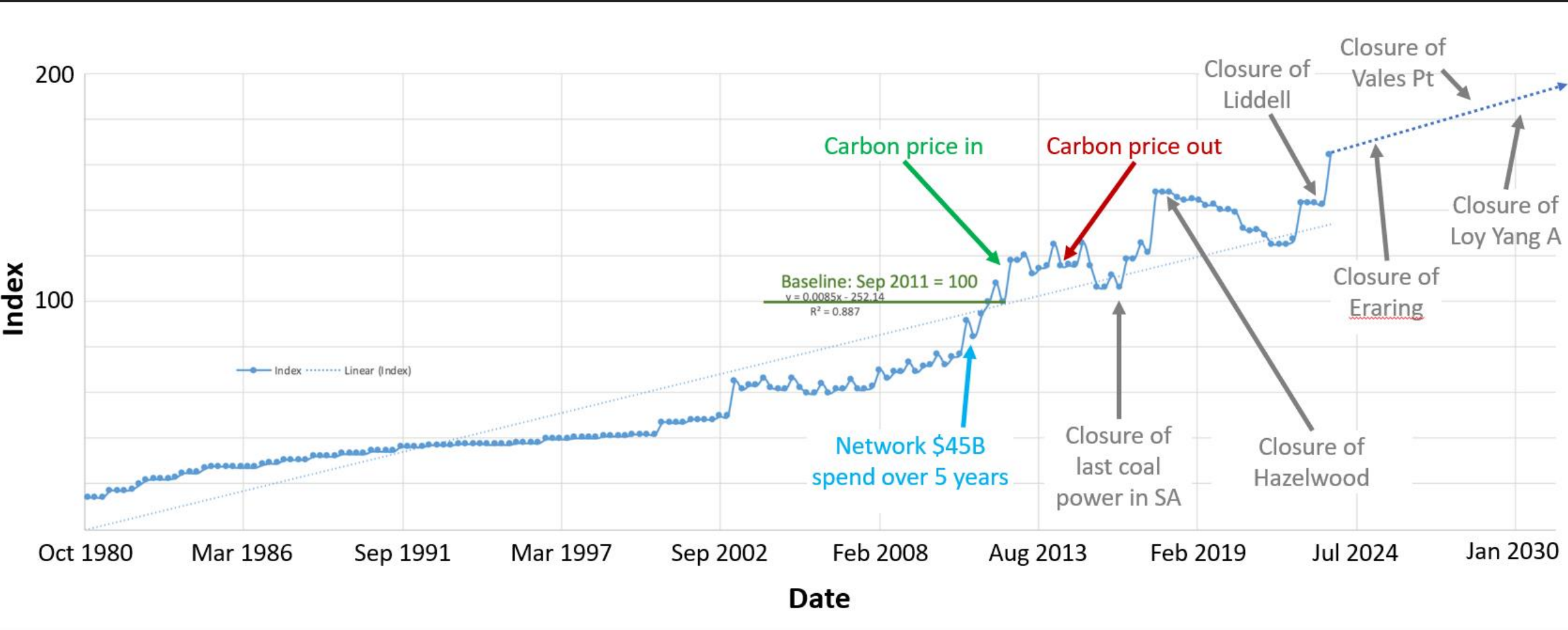
# Background: Best approach to reducing energy costs and emissions



# Cheapest generation source = renewables



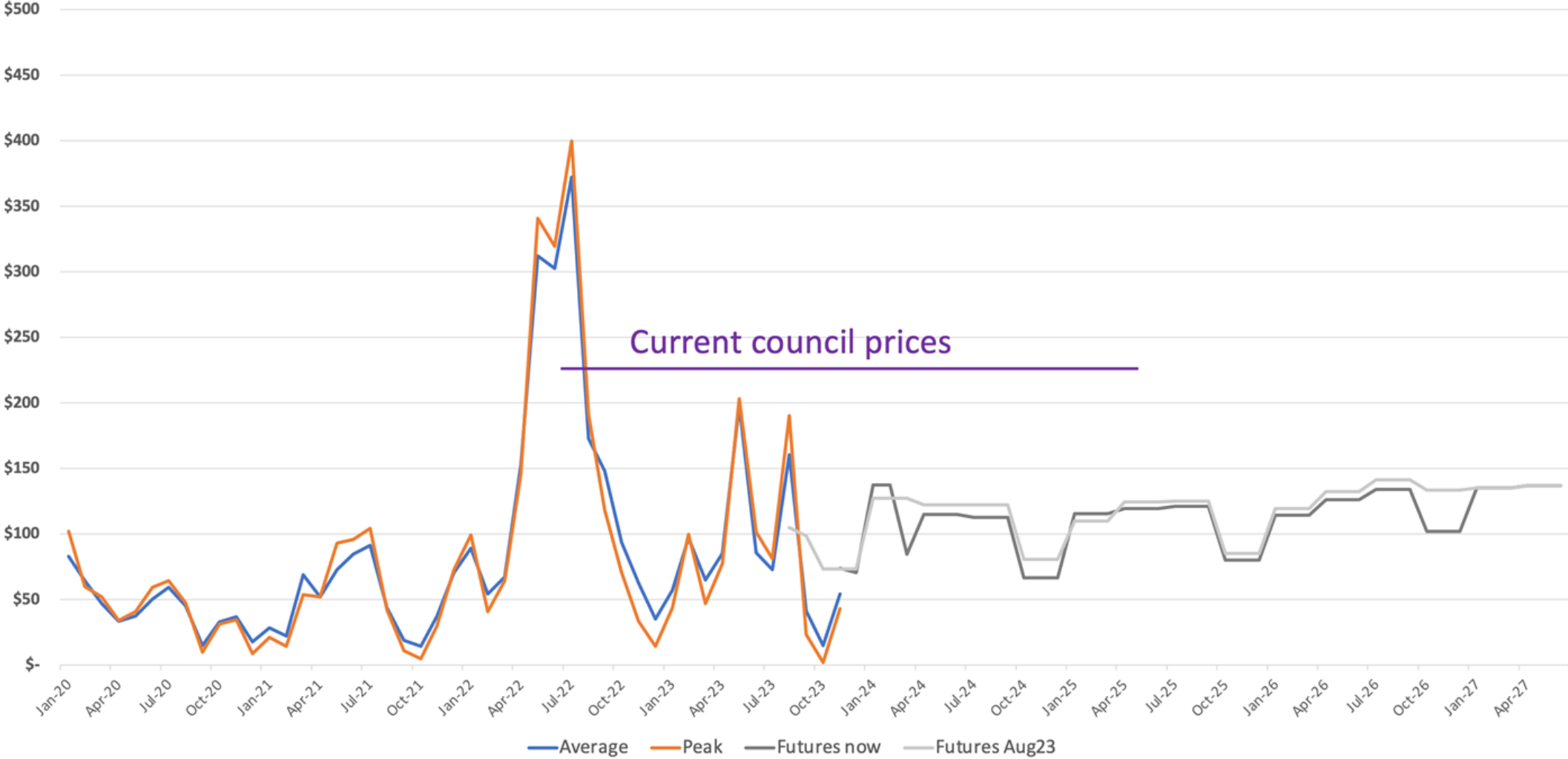
# History of Adelaide's Electricity Prices





# SA electricity wholesale market

SA electricity monthly average and peak wholesale electricity price + futures at Nov23



# What is a PPA?

## **Power Purchase Agreement (PPA):**

A contract specifically for the purchase and sale of renewable electricity over a defined period.

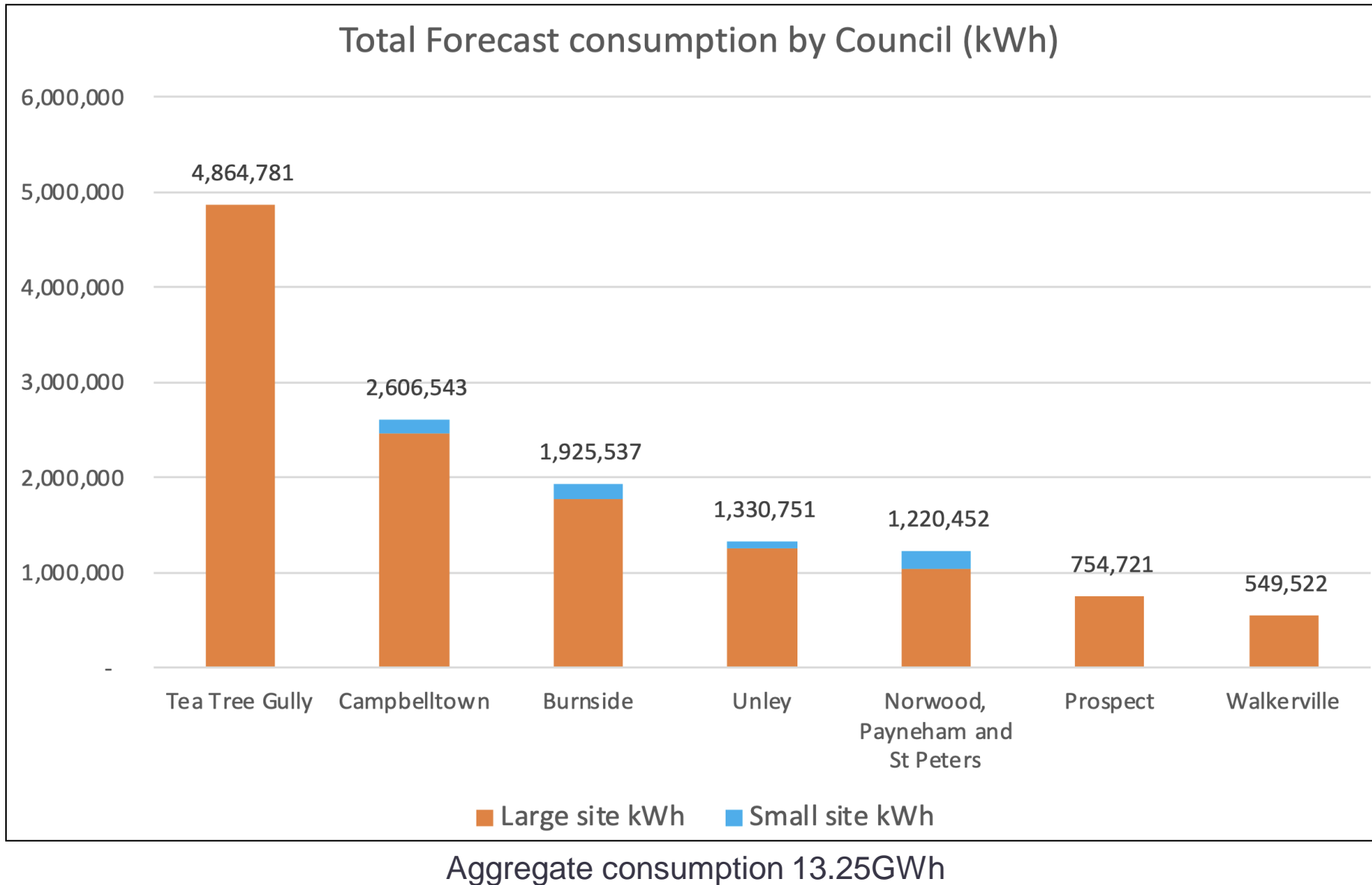
## Can include: **Large Scale Generation Certificates (LGCs)**

- City of Adelaide saving \$ and emissions
- Many other councils across Australia (individually and in groups)

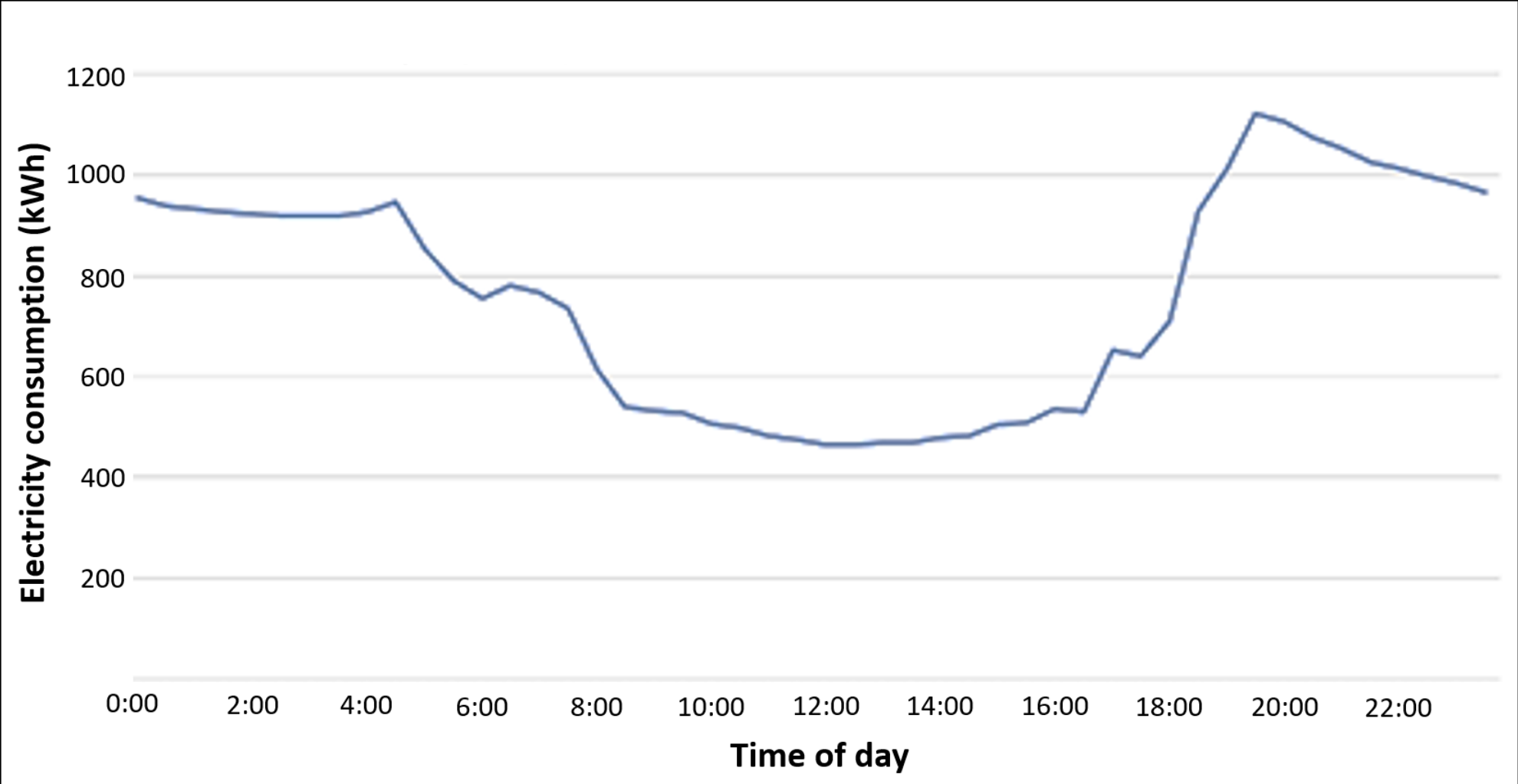
# Why a PPA?

Typical goals	Normal Electricity Procurement	Renewable PPA
<b>1. Reduce and stabilise electricity costs</b>	<b>A roller coaster</b> <ul style="list-style-type: none"> <li>• Volatile</li> <li>• Price fixed for up to 3 years only</li> <li>• No ability to plan costs long term</li> </ul>	<b>Long-term stability</b> <ul style="list-style-type: none"> <li>• Price demonstrably below BAU</li> <li>• Price fixed for 7-10 years</li> <li>• No fuel cost risk (coal/gas)</li> <li>• Assists long-term financial planning</li> </ul>
<b>2. Reduce emissions over time</b>	<b>Add GreenPower (LGC certificates)</b> <ul style="list-style-type: none"> <li>• Price linked to spot market volatility</li> <li>• From projects anywhere in Australia incl. old projects built last decade</li> </ul>	<b>Lock in long-term LGC supply</b> <ul style="list-style-type: none"> <li>• Price fixed for 7-10 years</li> <li>• From specific projects in regional SA</li> <li>• New projects</li> <li>• Choice in quantity</li> </ul>
<b>1. Create new economic opportunities</b>	<b>No value</b> <ul style="list-style-type: none"> <li>• Buy from centralised generation</li> <li>• Supports 1950s grid architecture</li> </ul>	<b>Support local jobs</b> <ul style="list-style-type: none"> <li>• Supports decentralisation of power</li> <li>• Directly support SA projects</li> <li>• SA jobs &amp; community support</li> </ul>

# Total consumption forecasts

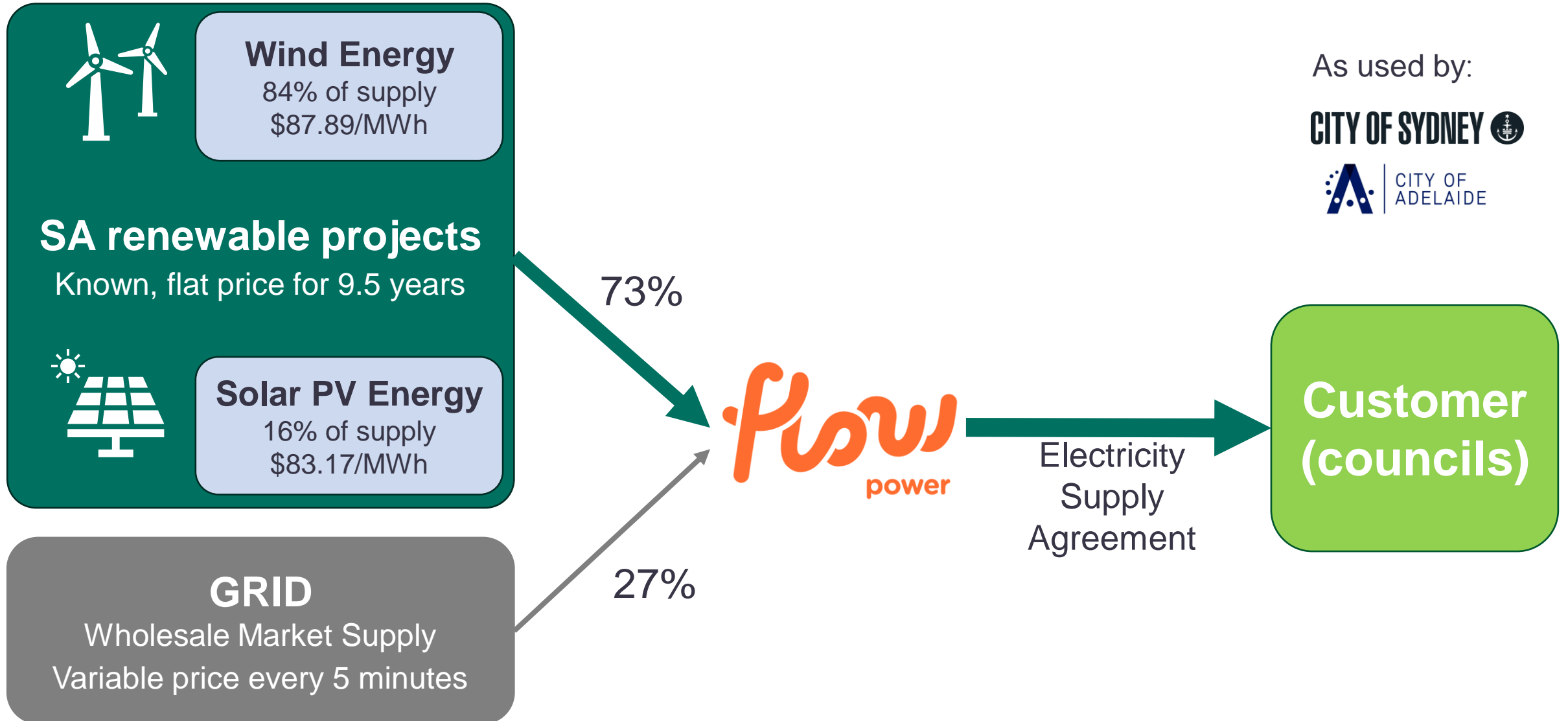


# Total consumption forecast (councils combined)

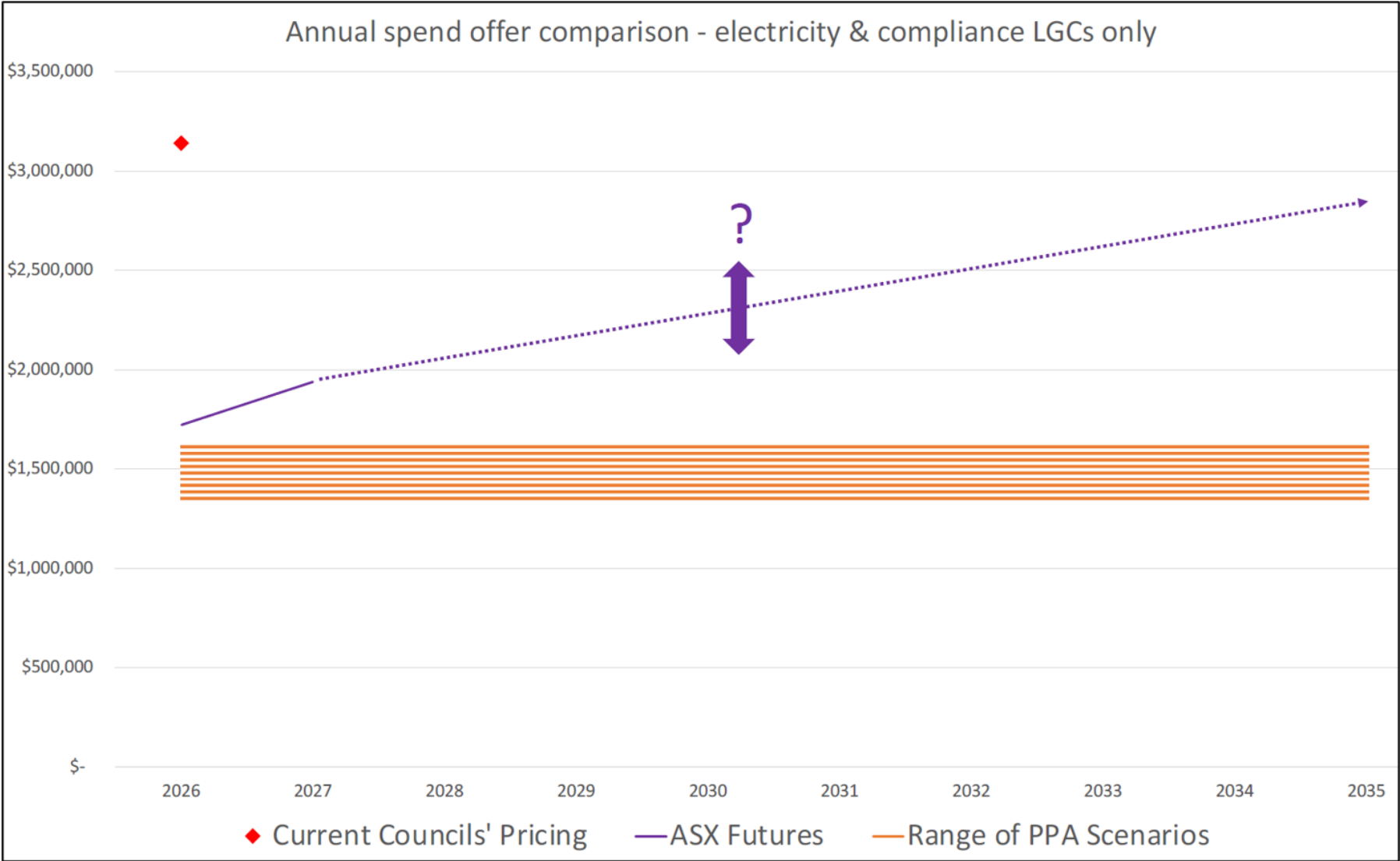


This is the consumption profile that would need to be matched with grid renewables in any future procurement project and *forms the basis for the evaluation of likely PPA economics for the group*

# Offer summary: PPA market testing



# Economic results



Retail energy spend for all 7 councils combined.

# Financial impact at Burnside

1. Council spend on electricity ~ \$590,000 in 2023/24
2. Savings estimated, considering:
  1. Streetlights and ~90% of other sites can be part of PPA (sites with smart meters)
  2. Savings are ~50% on the consumption and mandatory charges (no saving on network charges)
  3. Consumption and mandatory charge are 55%+ of bills
3. Savings on ~\$150,000 per annum, compared to 2023/24
4. Savings will vary, depending on future market prices



# Presync's advice to councils

- A retail PPA option is a compelling alternative to current pricing and the ASX futures market.
- Linked renewable energy projects available in SA.
- Annual cost of a PPA expected to be lower than current market rates.
- Market volatility is anticipated to persist into the future.
- A retail PPA can offer stable long-term annual costs.
- A long-term flat LGC price enables councils to achieve renewable energy goals while keeping expenses below current prices.
- Recommendation: to proceed with a group procurement project to explore PPA options further.



# Proposed Next Steps

- **Council Reports:** Seek endorsement to advance an MOU between councils to facilitate a PPA option for long-term energy procurement.
- **Project Resourcing:** Allocate resources for the project and appoint a Project Lead.



# Questions?



Thank you!

