Consumer Advisory Panel Meeting 33

Thursday, 16 May 2024

ElectraNet

Acknowledgement of Country

We acknowledge the Traditional Owners of the land on which we meet and pay our respects to their Elders past and present. We extend that respect to other Aboriginal and Torres Strait Islander people who are present today.

ElectraNet 2 // INTERNAL Distribution: STAFF

Agenda Outline

- 1. Welcome
- 2. General updates and action items
 - Meeting #32 20 November 2023
 - PEC Timing update
 - o ISP Update
- 3. CAP top of mind issues
- 4. Presentation on Social License
- 5. CAP engagement on ElectraNet's Program Outlook
- 6. South Australia Energy Transformation (based on ENA conference)



ElectraNet 3 CONFIDENTIAL Distribution: Consumer Advisory Panel

Action Items & General Update

#	Action Item	Status
1	ElectraNet to provide an update on AER application for inertia service costs	In Progress
2	ElectraNet to share the Network Transition Strategy for feedback prior to release	Completed
3	SA Business Chamber to share the full quarterly business survey results with CAP Members	In Progress

3. CAP top of mind issues

Leanne Muffet + All Independent Facilitator



4. Presentation on Social License

Michael Bails Lead Land and Approvals



Social License

Michael Bails – Lead Land and Approvals

16 May 2024

ElectraNet

Purpose

To discuss ElectraNet's approach to building and maintaining a social license to operate

ElectraNet 8 INTERNAL Distribution: Presentation to Consumer Advisory Panel

Social License to Operate

"At its simplest, it refers to the acceptance granted to a company or organization by the community."

The Ethics Centre

AAP Image supplied by traditional owners, the Puutu Kunti Kurrama and Pinikura (PKKP) Aboriginal Corporation.







ElectraNet has conceded the approach taken by one of its contractors was not conducive to harmonious relations with people along potential corridors for a new high-voltage powerline.

Rather than being consulted, some property owners between Mount Gambier and Snuggery were initially presented with a notice seeking authority to enter their land.

The company is now focusing on a single route after concerns raised by Glencoe residents.

www.abc.net.au/news/2003-09-22/ residents-air-powerline-approach-concerns/1481842



5,500+ km of transmission lines

<1km on ElectraNet land

~7,500 properties



XXXX

X

Our Approach

Barka Park – Mt Barker South Substation



PUBLIC Distribution: Internal / External

Respect

Landholders Community Environment Traditional Owners



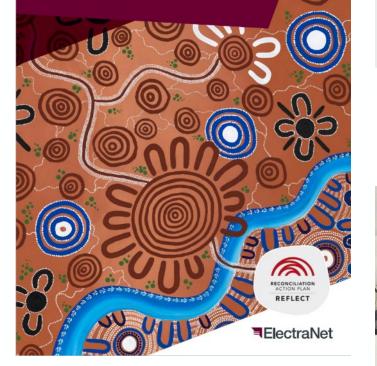
GATE'S MUST BE SHUT ATALL. TIME'S



Leading Positive Change



November 2023 – December 2024











ENERGY & MINING

PREMIER'S AWARDS









Learning & Innovation

EHELY



Questions



Thank You

For more information please contact:

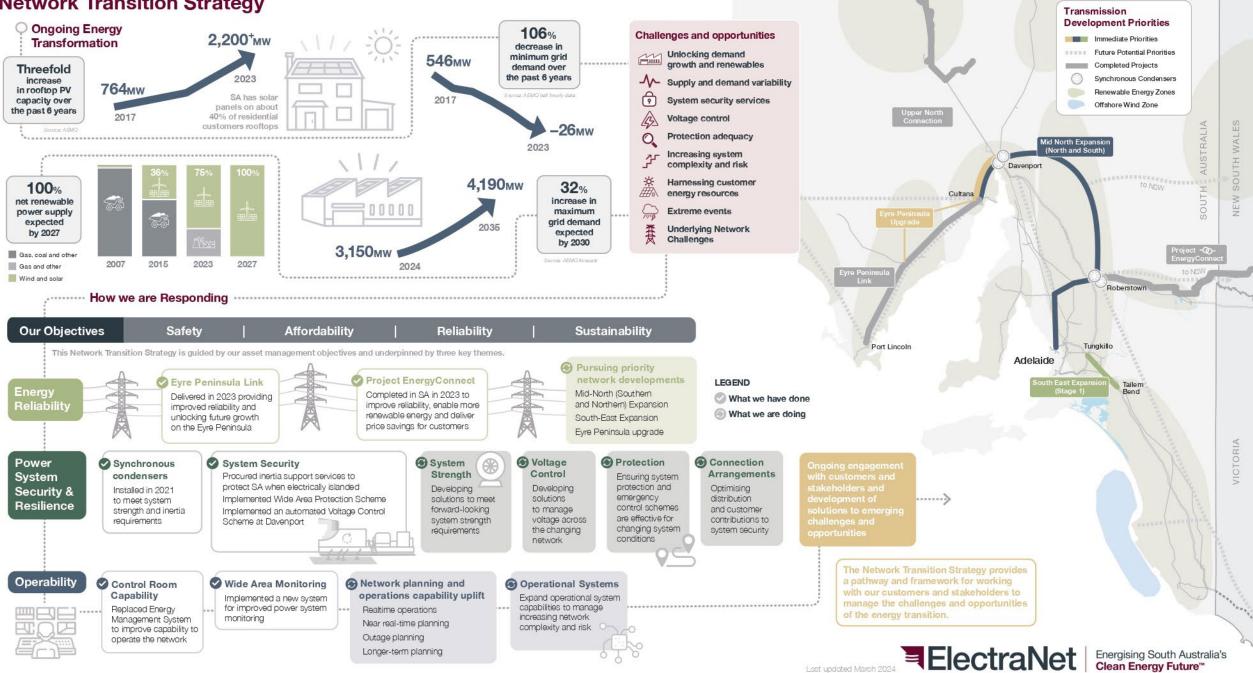
Michael Bails, Lead Land and Approvals +61 405 147 206

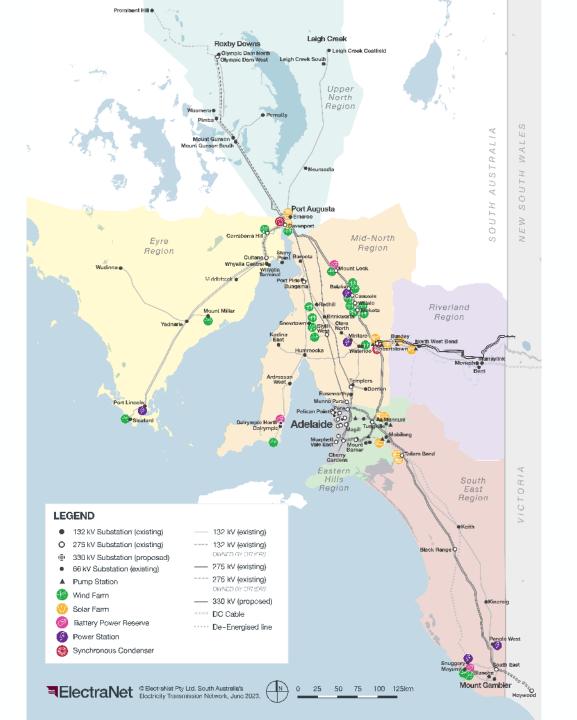
E bails.michael@electranet.com.au



electranet.com.au

Network Transition Strategy



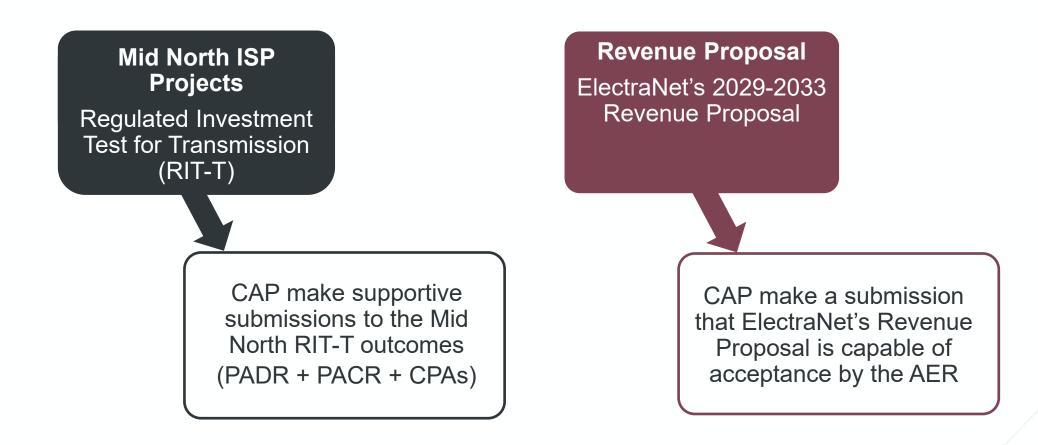


5. CAP engagement of ElectraNet's Capital Program Outlook

Jeremy Tustin Manager, Regulations



ElectraNet's Engagement Objectives

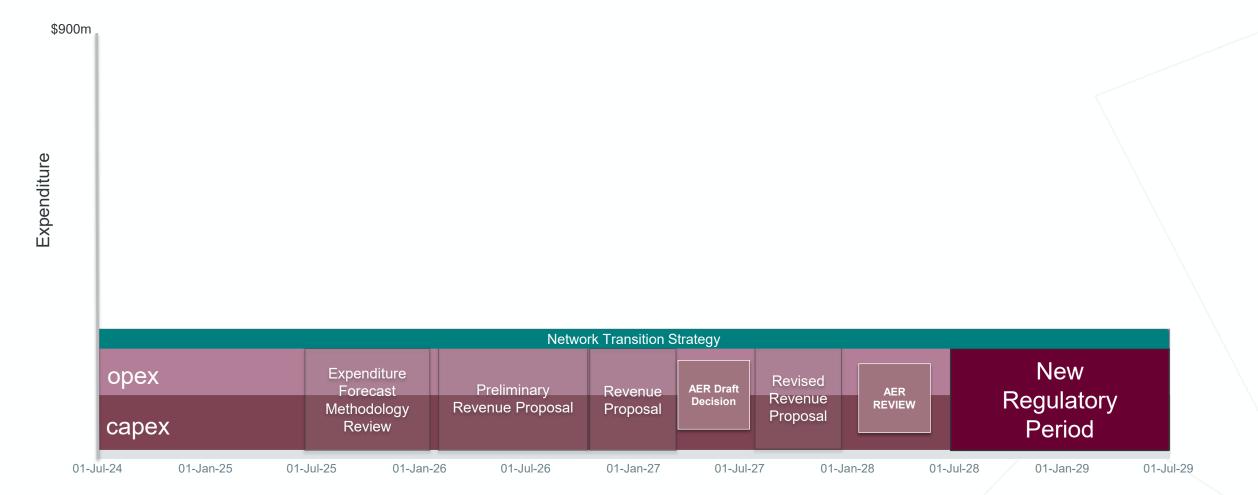


Revenue setting framework - Revisited

Return on capital Revenue Breakdown 2023-24 (forecast capital base × rate of return) (Revenue Proposal) Capital Incentive Corporate tax payments allowance Costs -2% 0% **Regulatory depreciation** (depreciation net of indexation applied to capital base) Operating Maximum **Operating Expenditure** expenditure Return on 36% Allowed capital (OPEX) 45% Revenue **Incentive Mechanisms** (increment or decrement) Return of capital (regulatory depreciation) **Corporate Income Tax** 17% (net of value of imputation credits)

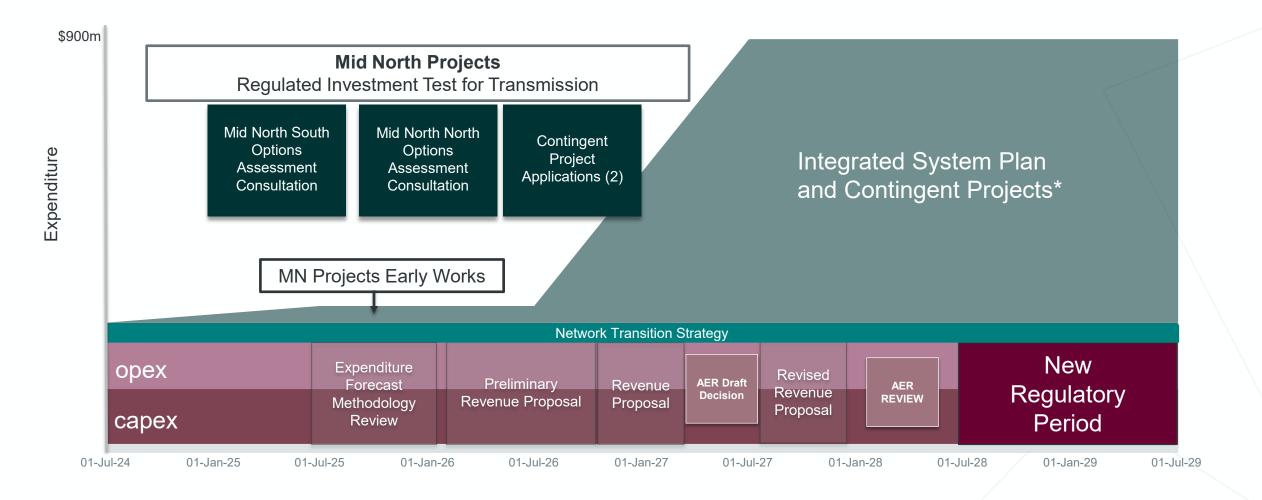
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CAP Engagement Windows



ElectraNet 24 CONFIDENTIAL Distribution: Consumer Advisory Panel

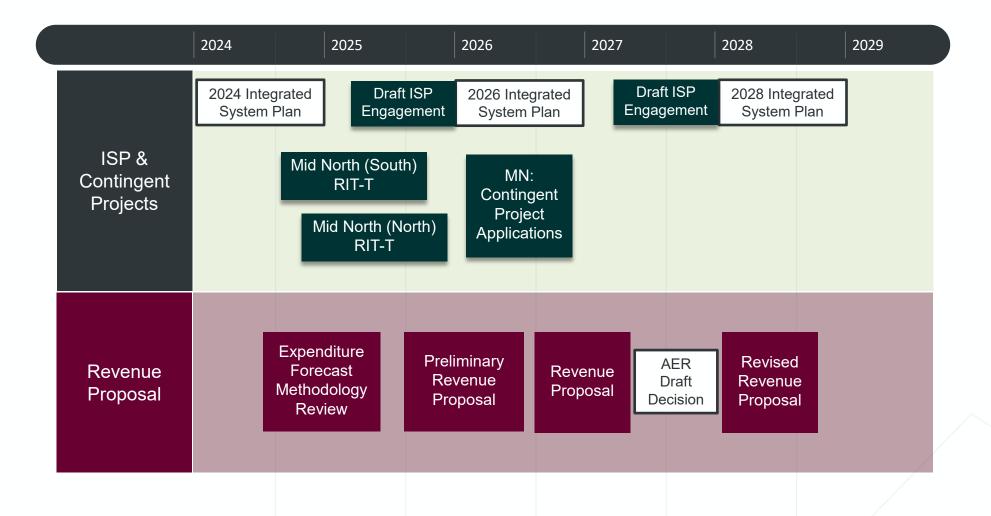
CAP Engagement Windows



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*MN Projects being made actionable in 2024 ISP

Major Engagement Milestones



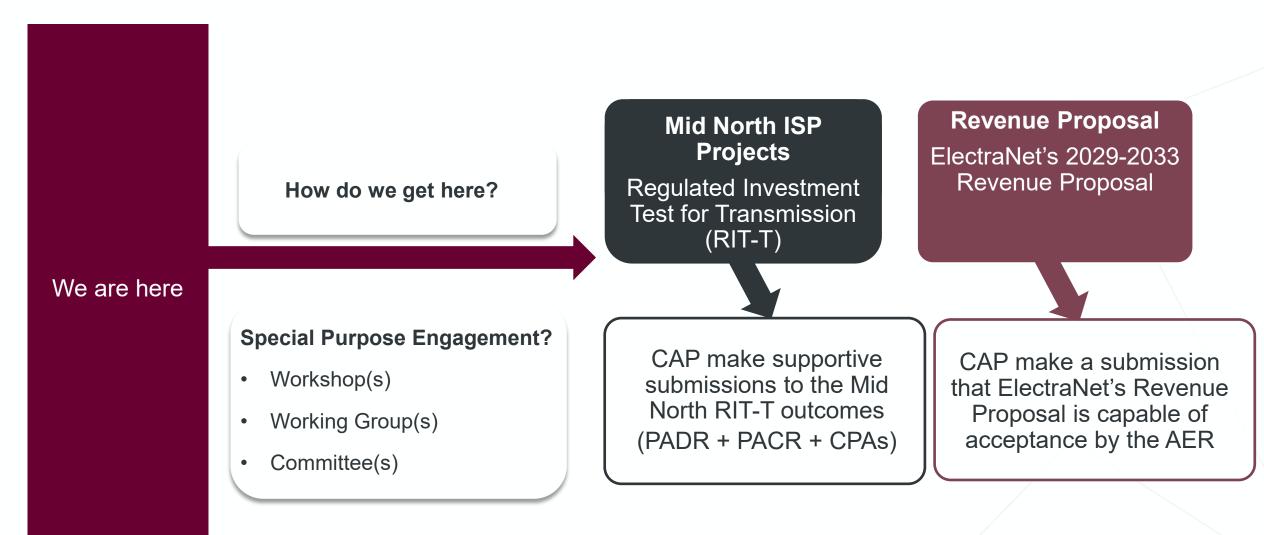
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Other Engagement Considerations

- Transmission Annual Planning Report Release Every October
 - □ Engage with the CAP every August/September for October Release
 - Provides current capacity and limitations of transmission network over a 10-year period
 - □ Full list of project updates/status
- Other Potential Major Projects/RIT-Ts
 - □ Network Voltage Control RIT-T
 - □ South-East Expansion
 - □ EP Upgrade
 - □ IMB300s

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ElectraNet's Engagement Objectives



6. South Australia Energy Transformation (based on ENA Conference)

James Brown + Head of Network Strategy, SAPN

Hugo Klingenberg Manager, Network Transformation



SA Showcase: Leading Australia's Energy Transition





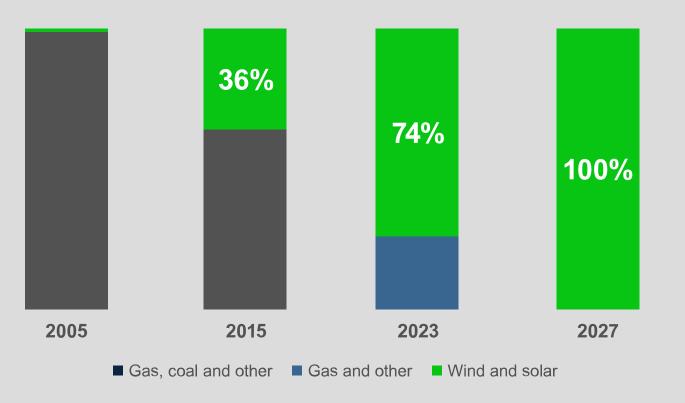
Objective: Demonstrate how we collaborate in addressing challenges & opportunities of the energy transition in SA





South Australia's profound transition to renewable electricity

Demand met by renewables



Highest penetration of **variable renewable energy** globally

SA exceeded **net 100% renewables for 31 days** in the last 12 months.

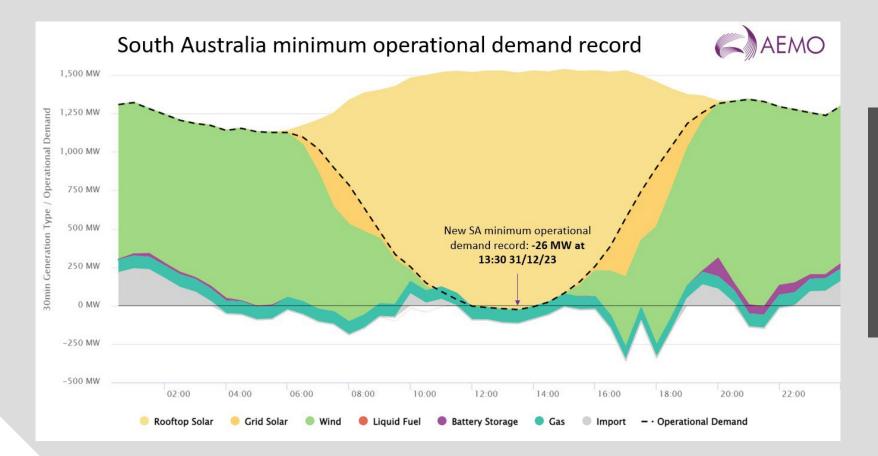
82% renewables in December quarter.

Reached **100% renewables** on **289 days** over 2023





South Australia minimum operation demand (AEMO)



Rooftop solar can now supply over **100%** of state demand in the middle of the day

No other gigawatt scale power system in the world has operated at this level





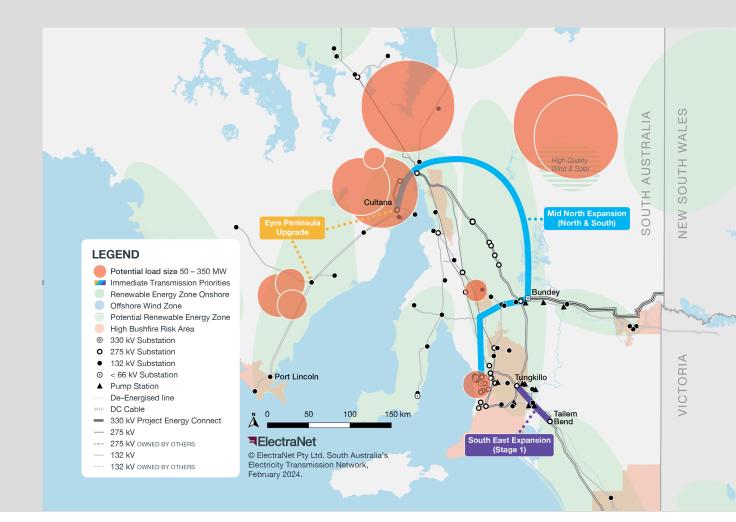
South Australia's green reindustrialisation opportunity

Electrified energy consumption in South Australia is rapidly approaching a 100% net renewable energy future.

14 Active projects seeking transmission connection. Additional projects seeking distribution connection

A **diverse range of industries** under consideration including green steel, minerals extraction and hydrogen exports

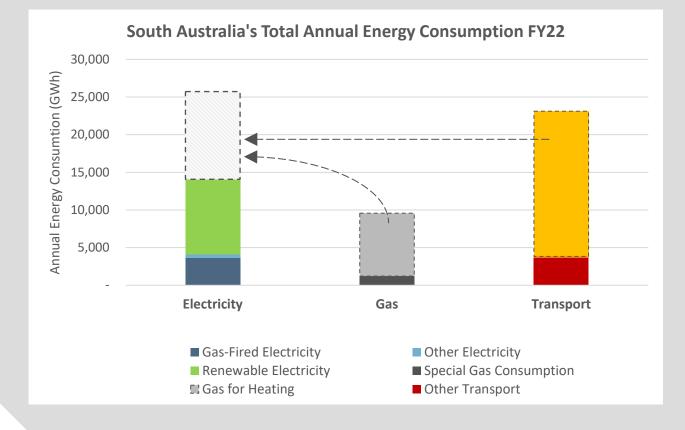
Over **2,000 MW potential demand**, would more than double existing energy consumption







Electrification will require the distribution network to carry vastly more energy



SA's electricity network currently delivers ~22% of its end-use energy

As we decarbonise, the distribution network could ultimately supply up to 60% of the state's energy needs

Without intervention, this could ~double the peak load on the electricity network and drive \$billions of unnecessary investment





Network transition and operating a 100% renewable grid

South Australia Showcase

May 2024

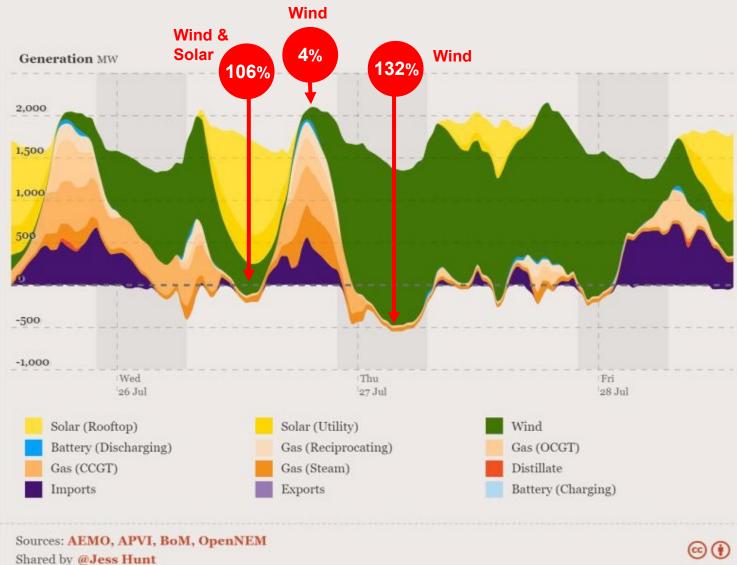
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South Australian Context

Dealing with variability

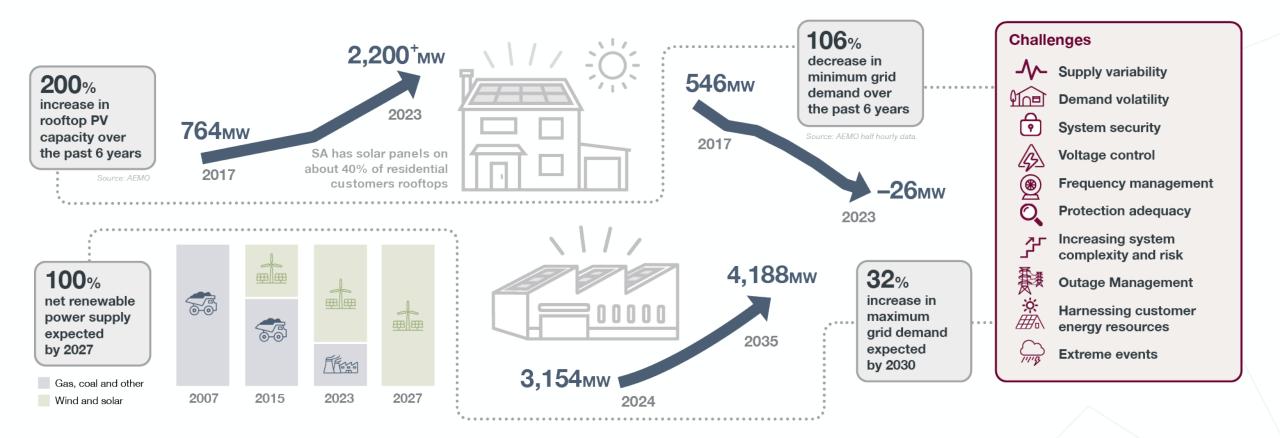
- Regular wide range of demand • at transmission & distribution interface points
- Distributed weather dependent generation
- Grid has to cater for a variety of • generation technologies
- Dispatchable generation has to be able to service an increasing ramp rate

South Australia Variability in SA Wind and solar generation, 26-27 July 2023



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Challenges of the transition



ElectraNet 38 // Public Distribution



Current focus

Energy reliability

- PEC system integration
- Priority network developments

Operability

- Implementing a Wide Area Monitoring System (WAMS)
- Operational systems enhancements

Power system security and resilience

- Developing the SA Interconnector Trip Remedial Action Scheme (SAIT RAS)
- Developing solutions to meet forwardlooking system strength requirements
- Developing and delivering solutions for voltage control across the changing network
- Grid batteries assisting with frequency response in SA - becoming too fast for interstate contingencies
- UFLS dynamic arming
- Expanding OFGS





Next steps / Future

Energy reliability

 Sufficient infrastructure to maintain system reliability and security

Operability

- Improve network planning and operations capabilities to manage power system changes
- Integrate WAMS learnings
- Dispatchable demand

Power system security and resilience

- Deliver solutions to meet forwardlooking system strength requirements
- Ensure system protection and emergency control systems are effective for changing system conditions
- Connection arrangements coordinate distribution and customer contributions to system security
- Innovation and new technologies
- Anticipate and prepare for high impact low probability events
- Manage collective response from IBR embedded functionality



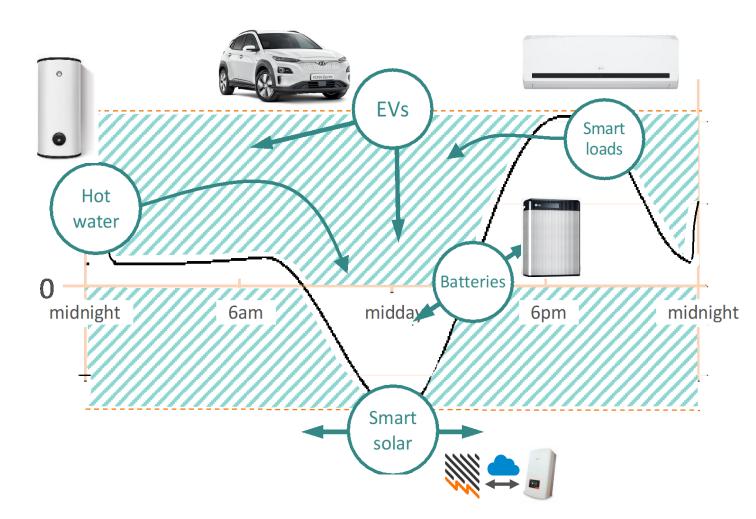
Activating demand side flexibility

James Brown





Demand-side flexibility is key



Enabling **flexibility** is key to an **efficient** renewable energy power system

- The network has **tremendous spare capacity** outside peak times for new applications
- We can unlock this capacity, and significant customer value, through 'flexibility'
- If we get it right we can significantly increase asset utilisation and lower costs for all
- 'Flexible' connections will enable customers to save money, both upfront and in ongoing energy costs

Flexible exports

10.00k Flexible

01.50kW Fixed



86% Opt-in rate



Max export

Of the time for 90% of customers **87%** Response rate during system emergencies

يَ⁻ Key insight

CER integration offers must be win-win for all *parties*

- Customers = More return from solar
- Installers = Sell bigger systems
- *Network = Avoid network investment*
- All = greater energy reliability and security

CER compliance improvement

Transformed our Introduced automated compliance program process 90% Apply Of a solar retailers Once installers are \bullet sites must be compliant engaged, they generally want to Install Has led to... do the right thing Compliance • incentives and **Commission** penalties must be aligned to the right **Closeout** 40% 95% parties ******* Compliance Compliance

Unlocking value through wholeof-home flexibility

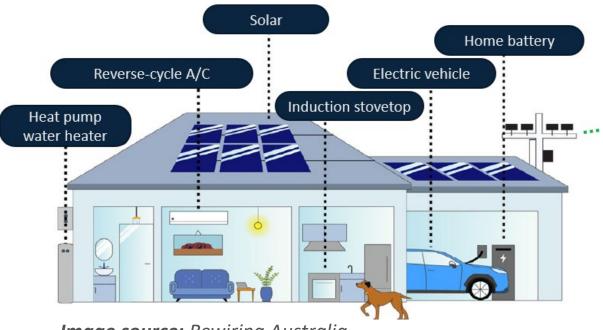
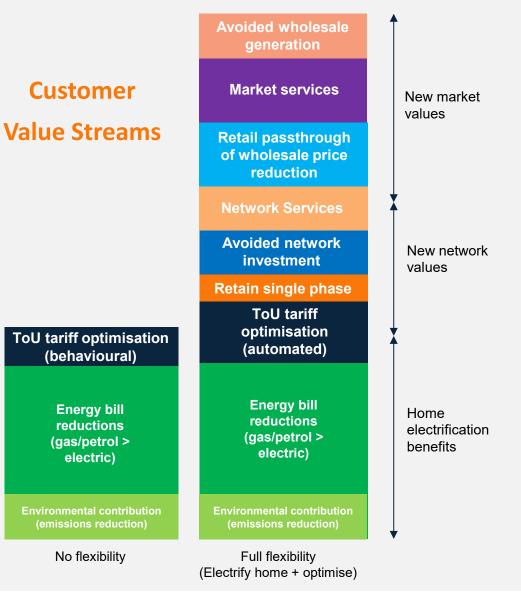
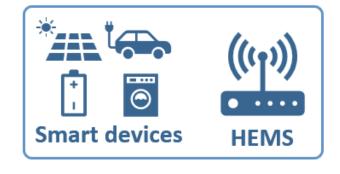


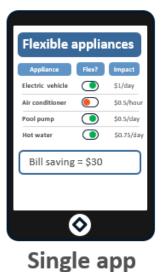
Image source: Rewiring Australia



*value scale indicative only

Our Smart Home Vision





view



Single, unified bill



Customers have access to simple retail offers that combine the benefits of network, market, and in-home optimisation – enabled by smart 'plugand-play' CER/appliances and home energy management technology.

Customers can choose their level of sophistication and engagement, are rewarded for increased flexibility, and have the freedom to switch between different retailers and product lines.

Benefits from flexibility are maximised without impact to customer amenity.

A unique opportunity: clean, reliable, affordable energy

SA is uniquely positioned to realise the full benefits of the energy transition, thanks to:



Vast **renewable** resources and world-leading **rooftop solar take-up**



Leveraging the network to support new applications, increase utilisation and drive down cost



Community and stakeholders aligned on long-term vision



Vast mineral resources, low-cost clean energy processing



Clean energy exports

Benefits

Lower household energy bills Access to abundant clean energy Foundation for decarbonisation Growth of new industries A prosperous economy







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7. CAP only session:

Leanne Muffet Independent Facilitator



CAP Meeting Schedule 2024

#	Date	Time
1	Thursday, 22 February 2024	10:00am – 12:30pm
2	Thursday, 16 May 2024	9:30am – 12:30pm
3	Thursday, 15 August 2024	9:30am – 12:30pm
4	Wednesday, 27 November 2024	9:30pm – 1.30pm Includes lunch with ElectraNet Board

Thank You

Next meeting: Thursday, **15 August 2024**, ElectraNet HQ

