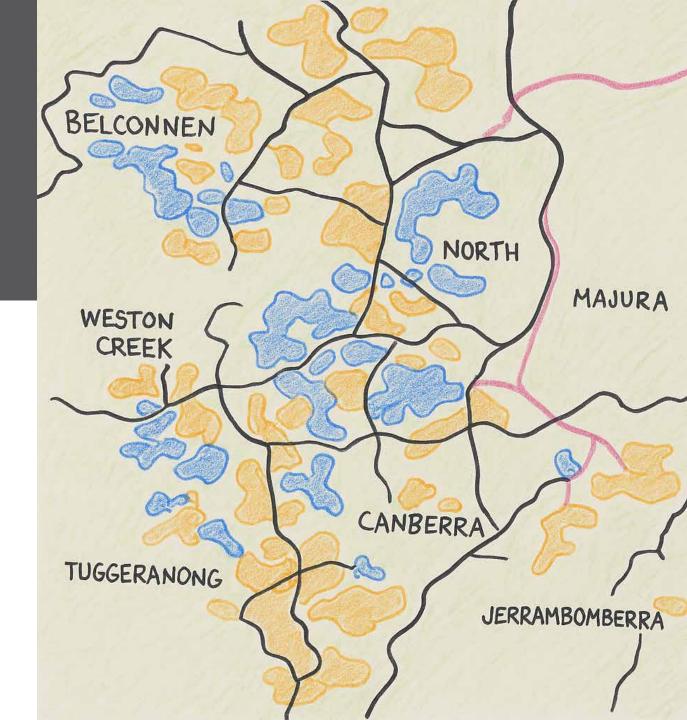
Navigating Ambiguity

Lessons from Our Journey Towards a Zero Gas Future in the ACT













Acknowledgement of Country

We acknowledge the traditional custodians of the land on which we meet today, the Turrbal and Jagera people, and we also acknowledge the traditional custodians of the other lands on which we live and work.

We pay our respects to all First Nations elders, past and present, and celebrate all First People's continuing connections and contributions to Country.

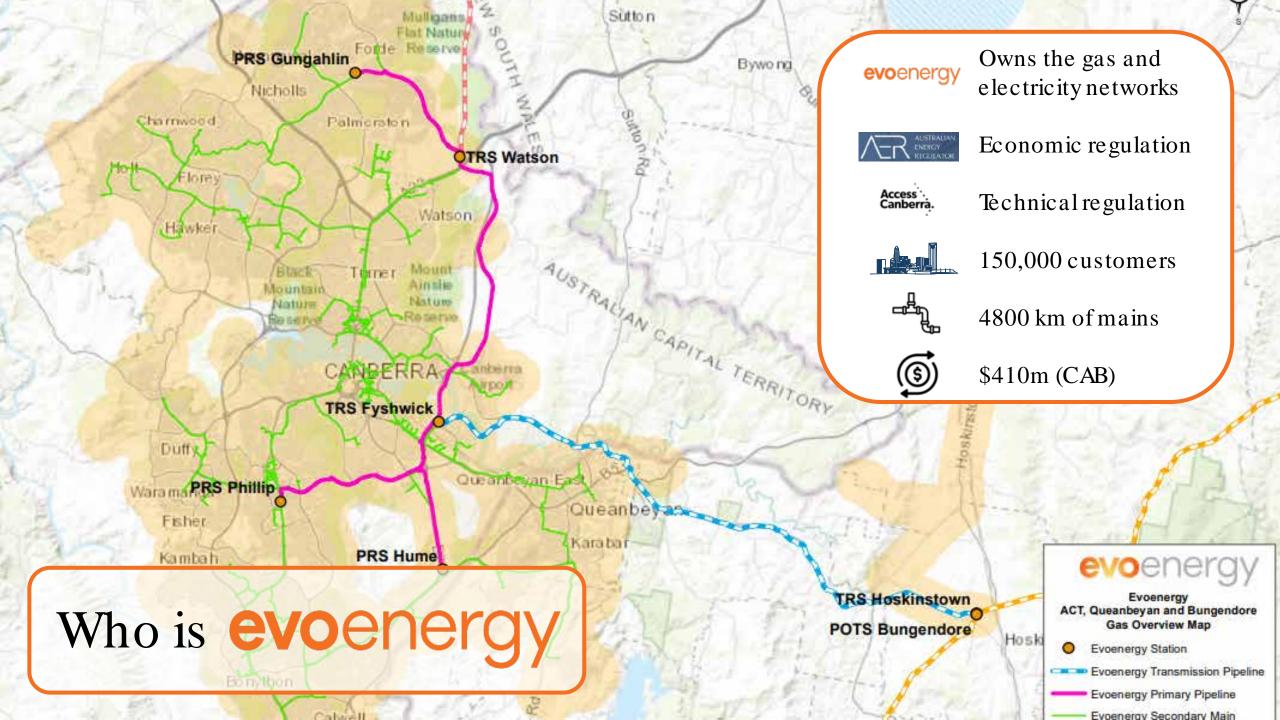
Silk painting artwork created by GPA Engineering staff with Tjimari Sanderson-Milera from Kumarninthi Cultural Education

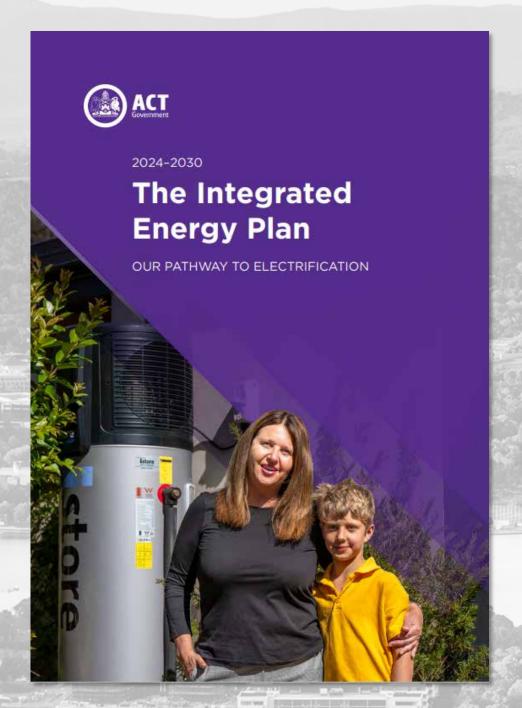
This presentation addresses a sensitive topic for the APGA industry, but it reflects the current reality we face, and we believe it is crucial to share the lessons we have learned, forewarned is forearmed.



evoenergy







• Electrify all public &community housing

• Provide support to help households improve efficiency & electrify

• Legis lation to aid complex building electrification

• Support businesses to electrify

2030-2035

2024-2030

• Focus on actions to accelerate the transition

• Plans for complex building will be implemented

2035-2040

• Majority of households will be electric

• ACT will have met its reduction target of 90-95% of 1990 levels

2045

• ACT will be at net-zero

State Regulation and Targets

	ACT	NSW	VIC	QLD	SA	WA	NT	TAS
Legislated net zero emissions by 2045	~	~	~	~	~	~	~	~
Ban on new gas connections	~	~	~	~	~	~	~	~
Gas Network decommissioning from 2035 or earlier	~	~	~	~	~	~	~	~
Hydrogen not being explored		~	~	~	~	~	~	~

Preference for Electrification Strongest in the ACT

Research from ECA, Sagacity and CIE shows strong ACT gas motivation to electrify.

The ECAreports:

- 65% of ACT gas customers intend to switch off gas in the next 5 years
- 35% of Australian gas customers intend to switch off gas in the next 5 years

Sagacity forecasts:

• up to 32% increase in the proportion of Evoenergy customers likely to electrify in the next five years

ACT Government Policies Accelerating the Transition

The ACT Government (ACTG) leads in electrification policies, implementing ambitious reforms.

Key initiatives include:

- 'Integrated Energy Plan': targets net zero by 2045, and 'allelectric households' by 2030 goal
- ACTG plans to start gas network decommissioning as early as 2035
- ACT is the first to ban new gas connections
- Strong financial incentives for diverse customer types to electrify
- ACTG aims to 'electrify all feasible public and community housing by 2030'

Unique Demand Characteristics in the ACT

The ACT has the highest proportional residential load across jurisdictions.

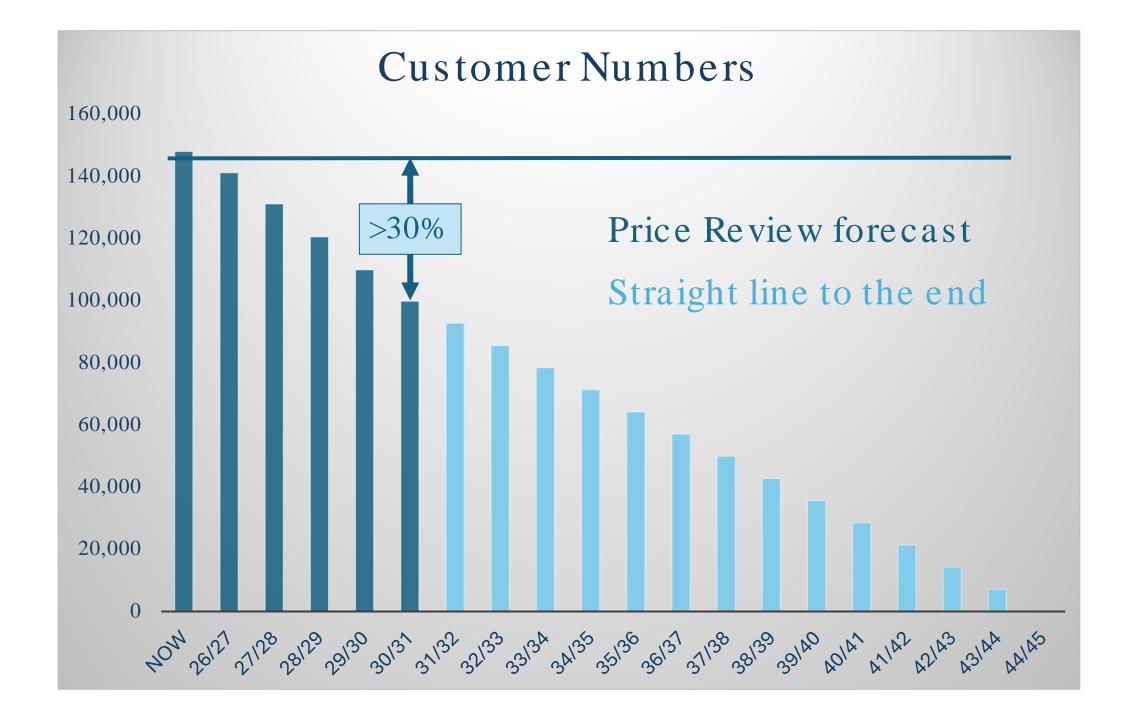
almost 2x NSW and SA

The ACT has the smallest industry base load.

only 1/3 of NSW and SA

ACT demand is highly seasonal with large peaks and toughs.

July demand is 5xJanuary demand.



Problem Statement

How to safely, compliantly, efficiently and effectively decommission the ACT gas distribution network over the next 19 years, navigating a wide variety of stakeholders interests, whilst minimising Evoenergy's exposure to this fundamental change.



The task? Develop a Playbook



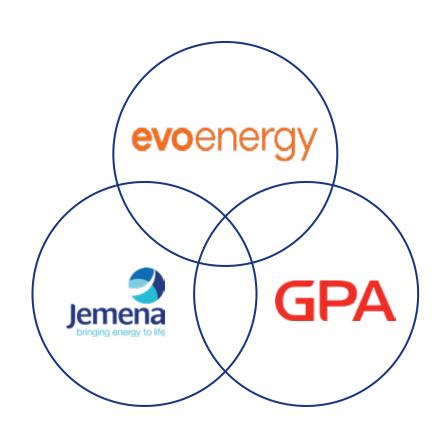
Identify

- Pathways
- Scenarios
- Endstates

Considerations

- Safety
- Compliance
- Customers
- Government (Policy)
- Evoenergy's electricity business
- Price review cycles
- Schedule
- Cost
- Evoenergy's NSW Assets
- Resource allocation / availability
- Shareholders

• ...



Opportunities

ENGAGE WITH THE RETAILERS

SUPPORT CUSTOMERS' TRANSITION

MATCH ELECTRICAL UPGRADES

REDUCE RELIABILITY

ELECTRIFY BROKEN
ASSETS

CREATE CRITERIA TO FORCE DISCONNECTION

RULE CHANGES

INCENTIVES

MANDATING A TIMELINE

INCENTIVISING RETAILERS

Pathways

How to disconnect customers?

CONNECTION TYPE

STREET/AREA

How to decommission the network?

VIA NETWORK STRUCTURE

ISOLATE

Scenarios

At what rate will decommissioning occur?

At what rate will customers disconnect?

How can we align these options with planned regulatory cycles?

What percentage of customers will choose each option?

In what order will these options play out?

MAJOR POLICY CHANGES

Threats

INCENTIVES

RULE CHANGES

POLITICAL CHANGES

IEP TRANSITION

TEMPORARY

BY STREET



PERMANENT

BY AREA

FORCED TRANSITION



SHARED TRANSITION Rates and Timing



ACCELERATED TRANSITION

STAFFING LEVELS

FINANCIAL RESPONSIBILITY

REPUTATION DAMAGE

ACCELERATED DISCONNECTION

End States

No gas network in the ACT

Connection on high pressure network remain for specific users

Connection to Queanbeyan remains

Connection to Queanbeyan and hard to electrify areas remain

The Play(s)

The Play

An adaptable combination of approaches that minimises risks & maximises benefits

The Priorities

Strategic objectives that underpin the Play

Opportunities

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Threats

INCENTIVES

RULE CHANGES

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FORCED TRANSITION



SHARED **TRANSITION**



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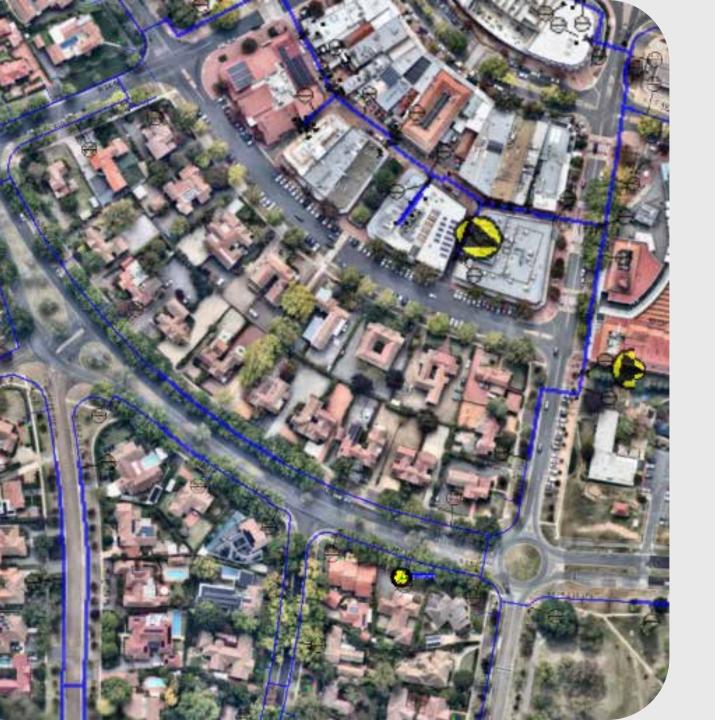
Pathways considered

ecreasing influence of Customers

Increasing influence of Evoenergy

	Pathway	Description	Disconnect Customers	Decommission the Network	Isolate the Network
5	Temporary	Gas flow to property stopped by authorised technician	•		
	Permanent	Irreversible and permanent isolation of gas to property	•		
	Zoning type	Staged disconnection by customer type	_		
٥	Street by street	Staged disconnection one street at a time	•	•	
0	Area by area	Staged disconnection one area at a time	•	•	
	District Regulators	Isolate at the SDRSs and stop gas flow	•	•	•
	Stations	Isolation at PRS, CTS and TRS to stop gas flow	•	•	•





But of course, no street is homogeneous

To aid in the next example, we have use AI to generate a set of fictional characters, their photos and their backstories...

We did note we were in the midst of the ESG/DEI section and thus we have instructed the AI program to take this into consideration...and cannot be held responsible for any faults of the AI generator...





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SCORP 11 21 14 CD S

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Analysing the gap Customer disconnection vs network decommissioning

Percentage of original customer base consuming gas

Percentage of network in commission



ACCELERATED TRANSITION

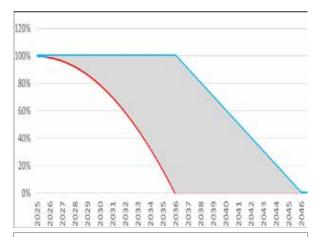


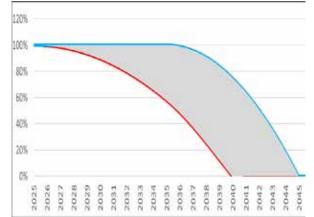
IEP TRANSITION

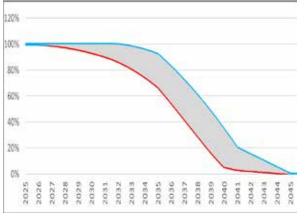


SHARED TRANSITION











In this scenario, customers are disconnecting from the network quicker than the network is decommissioned, leaving gas assets underutilised and generating high OPEX This gap is the graphical representation of the death spiral between high OPEX and inability to cover operational costs.

If customer disconnection and network decommissioning are following the IEP timelines, the tipping point gap is reduced due to customers staying on the gas network for longer, which allows for cost recovery across a larger customer base.

In the Shared Transition, the gap between the network in commission and customer disconnections is minimised, with equitable cost recovery across a larger customer base and manageable disconnection rates. Customer disconnection and network decommissioning are delayed, with only few customers disconnecting voluntarily over the initial years. This reduces the gap between the network in decommissioning and the number of customers remaining on the network.

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Explored end states

We know where we are starting, but what does the future look like?

End state

No gas network in the ACT

Connection to Queanbeyan remains

Connection to
Queanbeyan and hard to
electrify areas remain

Connection to Secondary
Mains remain for specific
users

Gas network scale

No active gas network.

Approx 25km of Steel Mains, 8 SDRSs, Fyshwick TRS.

Approx 50km of Steel Mains, 100km of Plastic Mains, 20 SDRSs, Fyshwick TRS.

Approx 200km of Steel Mains, 30 SDRSs, All Stations.

No active gas network in the ACT. Queanbeyan is connected through NSW.

No active gas network in the ACT, but Queanbeyan (approximately 10,000 customers) remains connected to the network and gas is still transferred through the ACT pipeline.

Are sidual gas network in the ACT feeding specific users in specific areas (Hume, Fyshwick, Mitchell Airport, NCA) and Queanbeyan.

Are sidual high pressure gas network in the ACT feeding specific users (Commercial and Industrial customers) connected to the steel mains and Queanbeyan.

Summary

Decommissioning the network is a complex challenge

The ACT Government's Integrated Energy Plan (IEP) requires full decommissioning of the ACT gas distribution network by 2045. Whilst the policy direction is defined, the implementation pathway remains uncertain. The long timeframe, combined with limited precedent, contributes to a high degree of complexity and ambiguity regarding the approach and sequencing of decommissioning activities.

Impacts vary...

The decommissioning of the gas network carries significant financial implications with no clear way to meet them. It further creates organisational challenges, including workforce scale up and downs and maintaining the reliability and safety across both the gas and electricity network during the transition phase. Upon the decommissioning of the network, the ACT will operate in a fundamentally different energy landscape.

Aflexible approach and clear priorities are necessary

To manage the uncertainty of the challenge, the proposed "Play" is designed to remain flexible. Timings of disconnections and decommissioning can be adapted based on developments in customer, government or other stakeholder environments. The "Play" is underpinned by five strategic priorities, that position Evoenergy to respond to regulatory, operational and customer-facing challenges.



My tea is nearly ready and the sun has left the sky;

It's time to take the window to see Leerie going by;

For every night at teatime and before you take your seat,

With lantern and with ladder he comes posting up the street.

Robert Louis Stevenson, 'The Lamplighter', 1885



What is our future identity?









