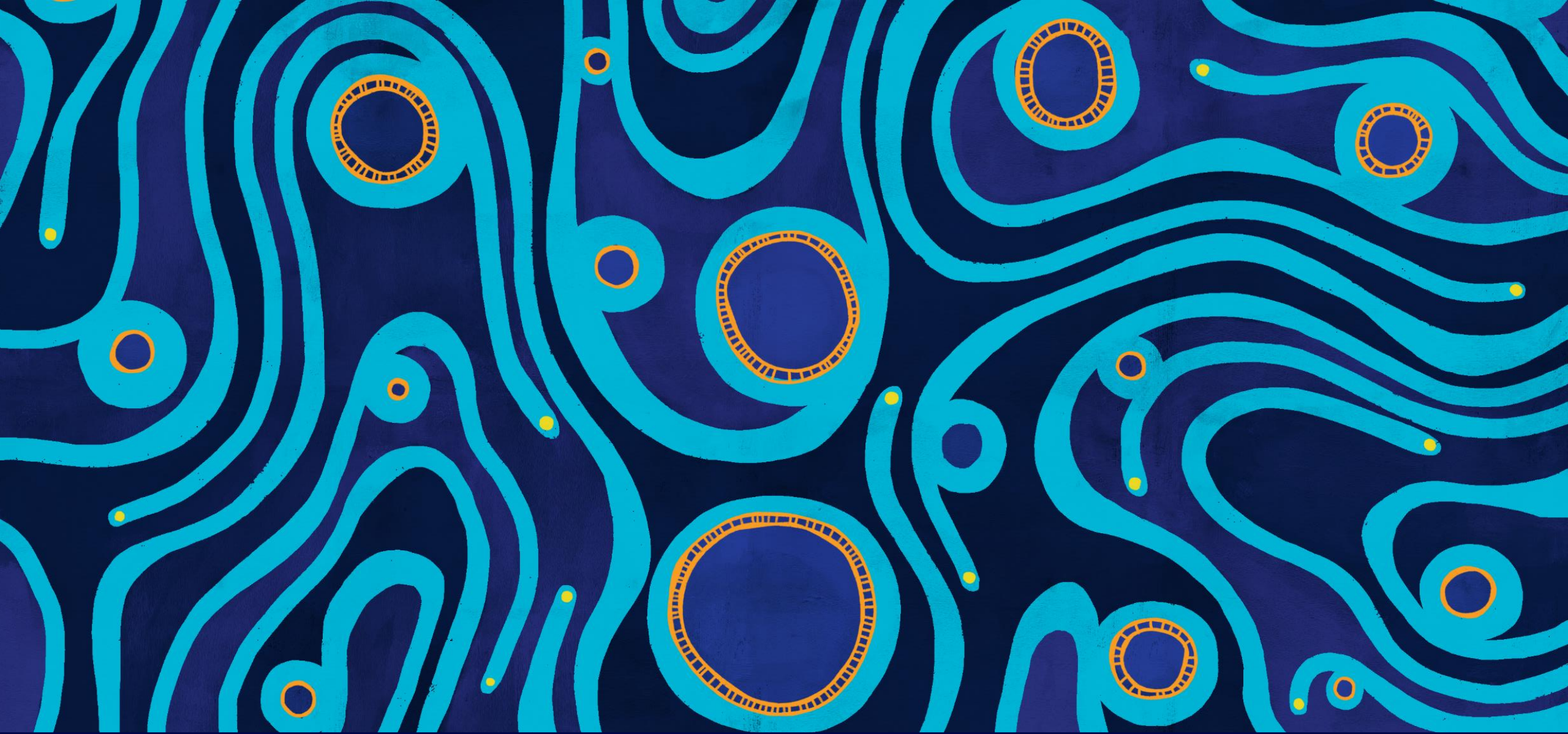


Newcastle Community Dialogue Group

Thursday, 28 November 2024





We are meeting today in the Hunter Region of New South Wales on the lands of the Worimi People.

We acknowledge the Worimi People as the Traditional Custodians of this land
and pay our respects to their Elders past and present.

Agenda

- 1 Open and welcome, apologies, declarations, previous minutes, business arising and correspondence
- 2 Newcastle Gas Storage Facility latest news
- 3 AGL Update

- 4 Tomago Battery Project Update
- 5 General business, next meeting and close

NGSF Update

- No major incident, MTIs or LTIs
- Liquefaction commenced early September
- Filling tank continues
- Tank level 1,130 TJ
- Ausgrid industrial action affects some maintenance works

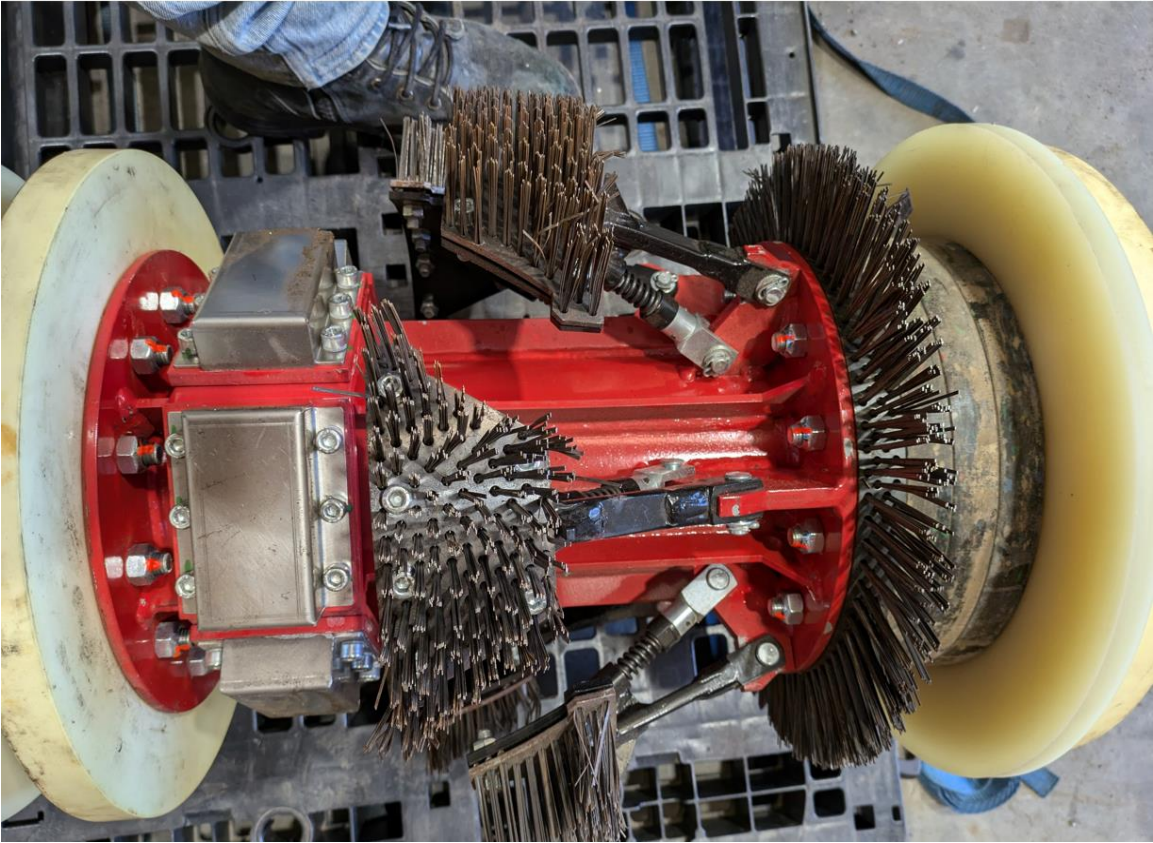


NGSF Update – pigging



- PIGGING = a method to clean or inspect the internal bore of pipelines
- PIG = pipeline inspection gauge
- The PIG is inserted into a 'pig launcher' and then travels along the pipeline to a 'pig receiver'
- There are different types of PIGs that serve different purposes

NGSF Update – pigging



Bushfire preparedness (NGSF)

- Fuel loads have decreased substantially from recent fire
- Asset protection zones are now cleared
- Bushfire accredited assessor has completed assessment and believes adequate preparation is in place



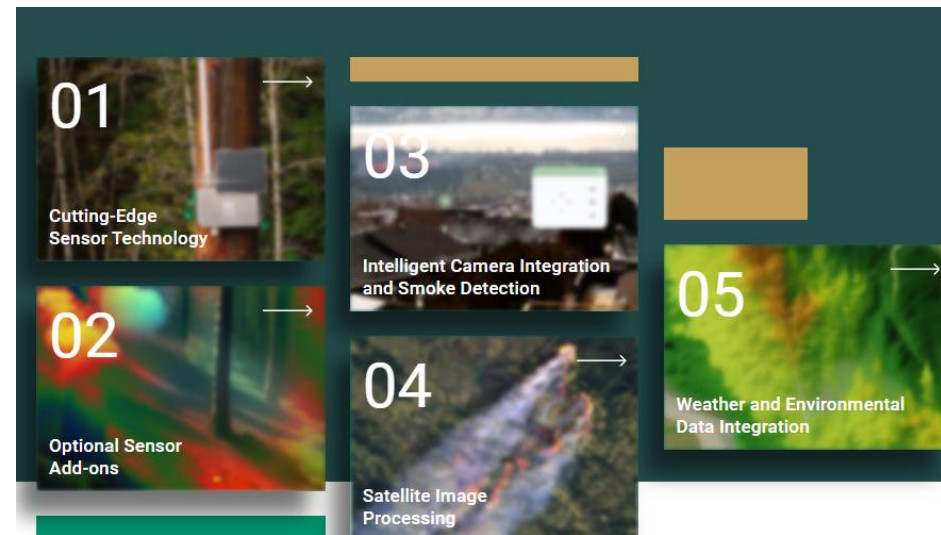
Bushfire preparedness (NGSF)

- Vegetation to the south and west (TAC land) was not burnt and may have a high fuel load
- AGL is progressing with having all vegetation on its property assessed
- Next emergency exercise may involve a forced escape through the fire trails to the south



Bushfire preparedness (NGSF)

- Fire detection cameras (Sensenet) are being trialled at another AGL site
- The cameras monitor a range of parameters (gases, particulate matter, thermal changes, smouldering matter, fires)
- If trial is successful, AGL will investigate applicability to NGSF and the surrounding area



Environment update – water monitoring (Amelia)

- Groundwater and surface water sampling completed in accordance with the Operations Water Management Plan.
- September 2024 Monitoring Results:
 - within historic fluctuations
 - below the adopted analyte threshold criteria except for total chromium at MW14 and fluoride at MW16
- review of ongoing monitoring program requirements to be completed
 - any changes must not increase the risk of environmental harm being caused but given data set (over 8 years of data) opportunity to refine monitoring frequency and analytical program.
 - any proposed changes will be socialised to the community group, esp. Hunter Water

Exceedance identified	Recorded Concentration (mg/L)	Adopted thresholds (adopted to highlight changing conditions, not toxicity)	Drinking Water criteria	Risk
Chromium at MW14	0.006 mg/L	0.005 mg/L	0.05 mg/L	Low <ul style="list-style-type: none"> • Localised • Below drinking water guidelines • Hexavalent chromium concentration (0.005 mg/L) • No identified site sources
Fluoride at MW16	0.6 mg/L	0.5 mg/L	1.5 mg/L	Low <ul style="list-style-type: none"> • Localised • Below drinking water guidelines

Environment update (John M) - Medowie offset property

- Medowie Offset Property:
 - Annual report finalised and sent to BCT
 - Natural regeneration has progressed well
 - Carnivorous plant and various orchids were spotted by the ecologist
 - Deer continue to be an issue
 - Trailbikes are accessing a corner of the property



Plate 1: A carnivorous Sundew plant (*Drosera peltata*) recorded in the regenerating site 16MP6





Plate 2: Forest oak sapling pushed over by deer rubbing



Plate 7: A deer captured on Camera CB02



Plate 3: Lightning strike in Pipeclay Creek and the remnants of a *Eucalyptus robusta* (Swamp Mahogany)



Plate 10: Fallen limb over a fence requiring rectification



Plate 4: Hardened chain and padlocks installed at all entry points into the MCA



Plate 5: Motorbike tracks traversing through the southeast corner of Lot 16 (right track)

AGL in the Community

Jo Ferguson – Manager Community Relations

Newcastle Hunters NPL T20

Over 300 players registered from the community played across 16 teams from various communities and backgrounds.

It's clear that your contribution played a key role in the overall success of the NPL-3.
Kiran Venu – League Manager



2024 Deadly Awards

Local Youyoong AECG annual Deadly Awards recognises the achievement of Aboriginal students who have excelled in fields of learning, sport or leadership. Staff who have made a special contribution are also honoured.



Join the change

Youyoong is a Worimi word meaning 'to go further'.



Jylan was presented with a Deadly Award for Love of Learning.
Salt Ash Public School



Love of learning achievements - Letti McFadyen, Reuden Carter and Shelby Letham.
Cultural Leadership – Keira Cannon.
Staff Recognition – Mrs Mulley and Mrs Newton.
Tanilba Bay Public School



Jacob Bates Deadly Award winner
Dungog High School

- 19 Primary Schools
- 5 High Schools
- 128 students recognised
- 3 Deadly Students Year 6, Year 10 & Year 12 receive a laptop.
- 2 Deadly Community Awards
- 2 Deadly Staff Awards

AGL in the Community



Dianne Ball – Executive Director of Wahroonga Aboriginal Corporation

- Dianne Ball was the first Aboriginal woman to graduate Year 12 in her country of Gumbangerri (Armidale).
- She moved to the Port Stephens in the mid 90's and co-founded the Wahroonga Aboriginal Corporation in 1994 in response to local need. The organisation guides service users through programs including emergency relief, family support, housing, employment and medical services. She is now Executive Director.
- Order of Australia Medal (OAM), 2020 for service to the Indigenous community of the Hunter
- Member, Port Stephens West Local Health Committee.
- CEO of the Karuah Aboriginal Land Council.
- Deputy Chair, Awabakal Ltd. Awabakal provides health care, aged care and family services to Aboriginal people in the wider Newcastle region.
- Founding Member, Raymond Terrace Driver Training Program, which aims to help disadvantaged young people learn vital safe driving skills



NGSF Christmas Giving



*It takes a community.
Calling all Secret Santas!*

COMMUNITY Secret Santa TOY DRIVE



In the last financial year, PSFaNS supported **1117** children and **575** young people and their families. **Many** of whom had been experiencing homelessness, domestic and family violence, and/or extreme financial distress. Many who, without our help, will go without this Christmas.

We are calling on anyone in the community (businesses, organisations, schools, groups and individuals) to be a Secret Santa for someone in need and give the gift of hope to Port Stephens most vulnerable children and young people.

HOW IT WORKS

Use the Secret Santa Shopping Guide for recommendations and donate as many **NEW** toys and food items as you choose (whether it's one gift or many, **EVERY SINGLE** donation counts).

Drop your unwrapped donation in to us and it will be assigned to a child/young person and delivered discretely to the parent/carer to be put under their tree.

Every child deserves a gift under the tree - help us spread some Christmas magic!

DELIVERY INSTRUCTIONS

- 📍 Deliver to 3 Phillip St Raymond Terrace 49 800 800
- 📅 All donations to be received by 13th December
- 📦 All gifts need to be sighted. Please do not wrap (wrapping paper welcomed).



Newcastle Toy Run

November 18 at 10:24 AM · 📍

Support for Community, what it's all about, thank you [AGL Newcastle Gas Storage Facility](#) for your ongoing support



AGL Update



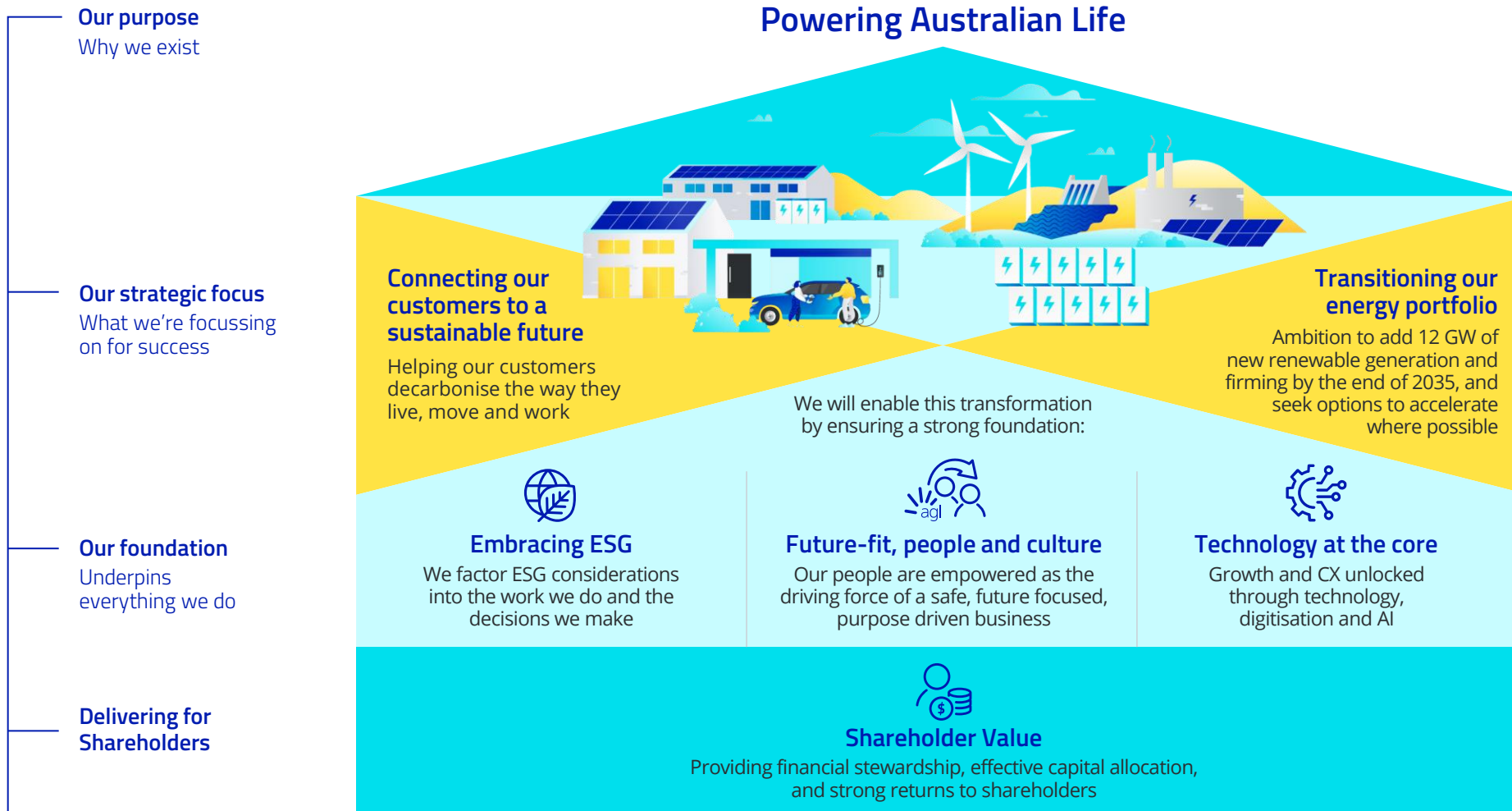
Join the change



We are driving Australia's decarbonisation journey by connecting our customers to a sustainable future and transitioning our energy portfolio



Join the change



New firming capacity options under assessment and development

AGL is expanding its flexible asset options across asset classes – Pumped hydro, gas generation, next generation solar storage, coupled with an ambition to build and operate a leading battery portfolio in the NEM

- AGL is the largest private owner of hydro power stations and is developing further pumped hydro power stations (blue-field)
- AGL has an ambition to build and operate a leading battery portfolio in the NEM
- AGL is well positioned for incremental development of gas peaker options with access to flexible gas underpinned by sizeable storage and haulage portfolios



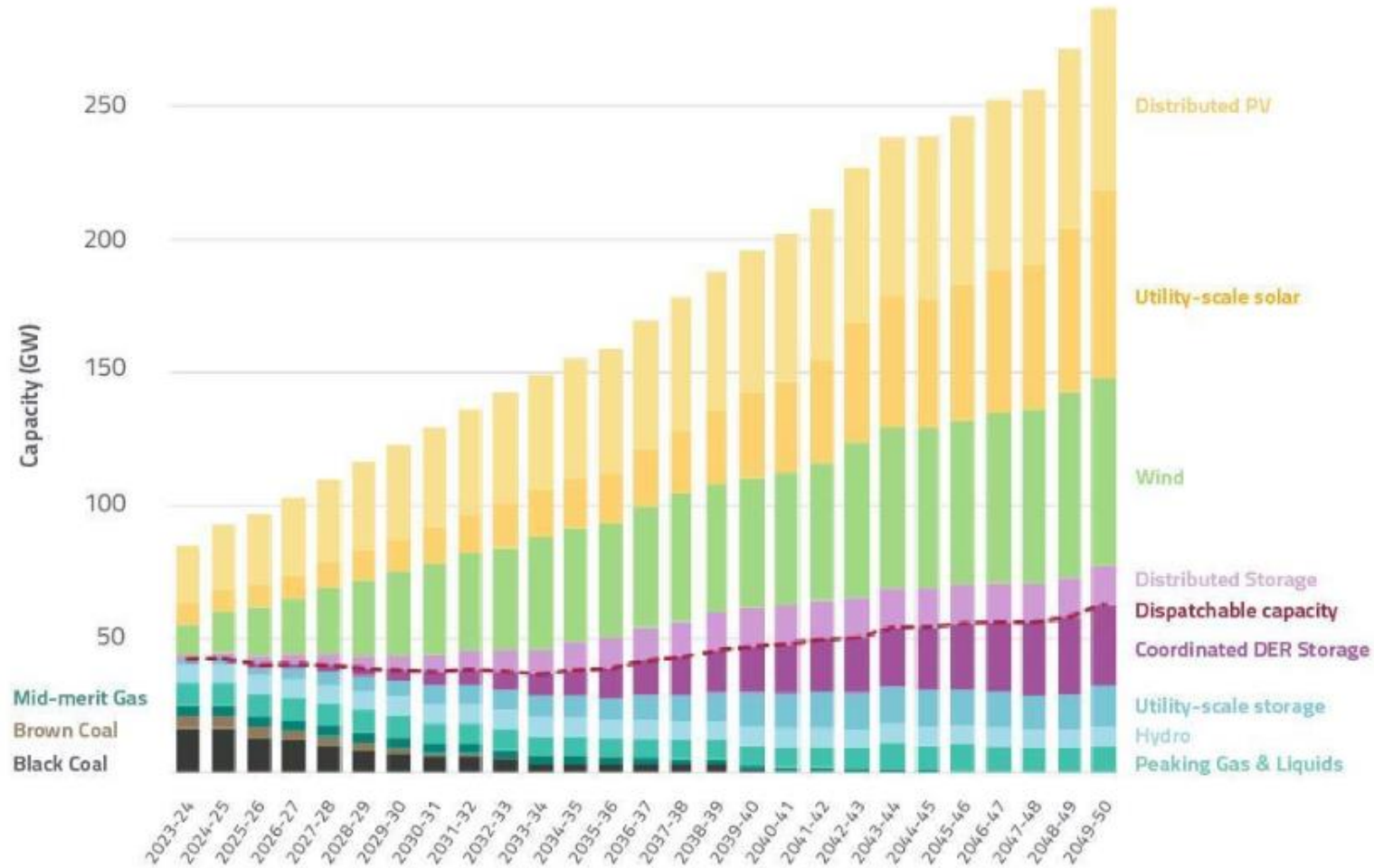
Transitioning our energy portfolio

to meet changing
energy demands.



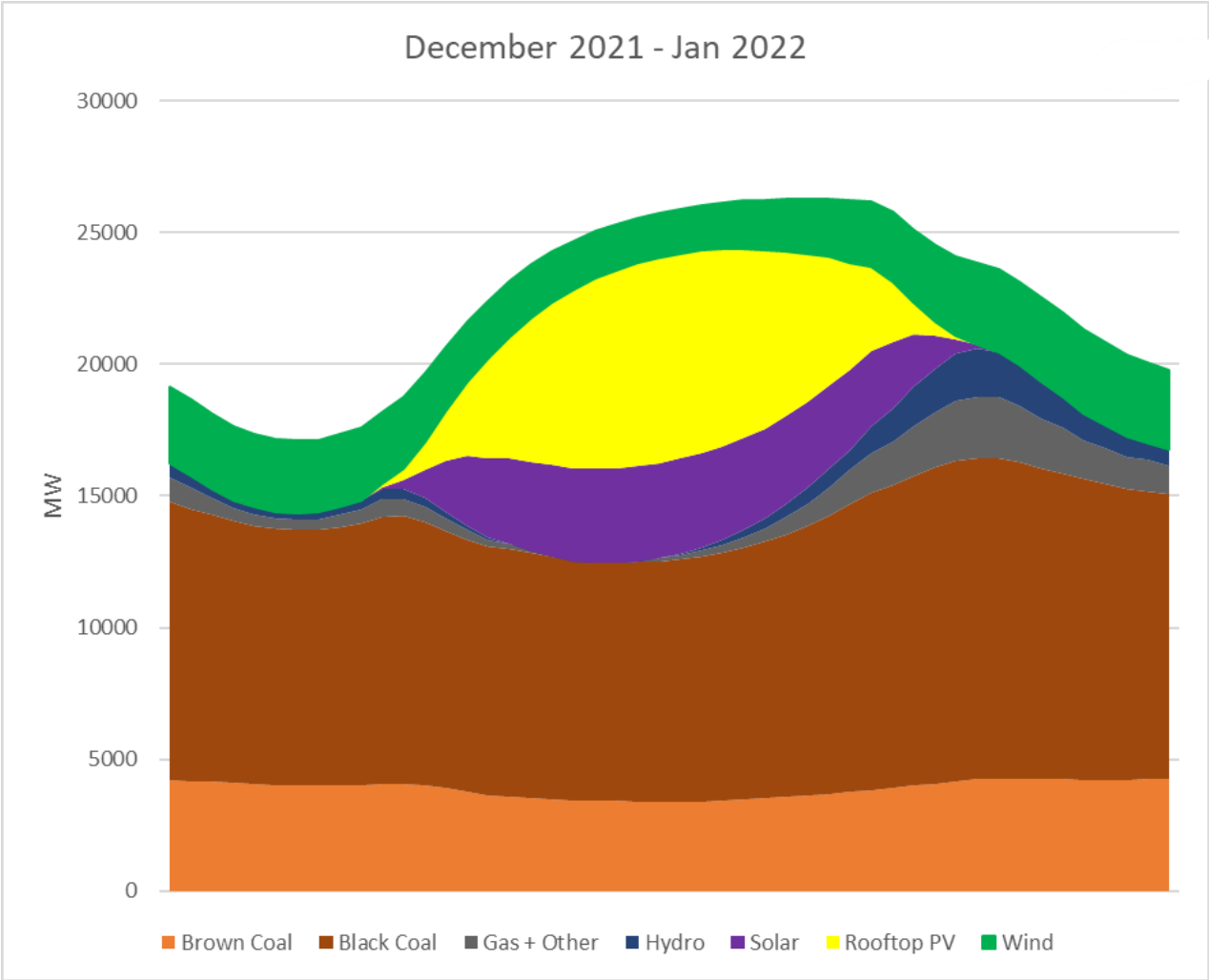
National Electricity Market 2023-2050

FORECAST NEM CAPACITY TO 2050 UNDER THE STEP CHANGE SCENARIO



How is this affecting the electricity market?

Mainland NEM Typical Day



What is Flexible Operations at Bayswater?

- Bayswater has been utilised for most of its life as a 'base load' power station, with the generating units operating as designed to a maximum of 660MW per unit.
- The changing electricity market requires a more flexible approach to generation.
- When renewables are supplying the market, Bayswater is now capable of lowering the minimum operating output.
- When renewables are not supplying the market, Bayswater can increase supply to meet demand.

Generation Capacity	Before	After Phase One (complete)	After Phase Two (90% complete)
Minimum	330MW	200MW	170MW
Maximum	660MW	685MW	685MW*

*This can be increased to 700MW on demand and means AGL can now offer 1945MW of flexibility to the market.

Tomago Battery Project



Approval Announcement

State Significant Development

Determination

Tomago Battery Energy Storage System



Paul Scully
Minister for Planning and Public Spaces

Yasmin Catley
Minister for Police and Counter-terrorism,
Minister for the Hunter

Media Release
Approved \$1 billion battery one NSW's biggest

Saturday, 23 November 2024

[Image available here](#)

The Minns Government has approved a \$1 billion Battery Energy Storage System (BESS) near Newcastle which will play a key role in keeping the city's lights on during peak demands.

At 500 megawatt (MW) / 2,000 MW-hour (MWh) capacity this will be one of the biggest batteries in NSW with the capacity to power about 200,000 homes during peak demand periods.

Located near Raymond Terrace, the Tomago project will store energy from the electricity grid during low-peak periods and then quickly ramp up or down depending on electricity demands.

The Tomago BESS will enhance the reliability of energy supply within the Hunter-Central Coast Renewable Energy Zone (REZ) by providing a stable and consistent power source.

During construction the BESS will generate 200 jobs to build the new structure along with six ongoing operational jobs to boost the local economy. Tomago's developer, AGL, will also provide approximately \$2.2 million to Port Stephens Council for community improvement projects through its Voluntary Planning Agreement.

Tomago's battery adds to the State's growing network of 57 large-scale batteries that have already been approved to support the energy transition as coal-fired power retires.

These batteries are playing an increasingly important role by providing firming capacity to support renewable generation, while improving the strength and reliability of the network.

Under the Minns Government, there have been 30 renewable projects approved, including 14 large scale batteries.

For more information see link [here](#)

Minister for Planning and Public Spaces Paul Scully said:

"With a \$1 billion price tag, this battery is one of the biggest in NSW and injects a major capital investment within the Port Stephens and Lower Hunter areas.

"Large-scale batteries are crucial for our energy future. They help store renewable energy, making sure we have a reliable power supply even when the sun isn't shining, or the wind isn't blowing.

"This not only supports our transition to cleaner energy but also strengthens our energy security and resilience. Investing in these batteries means a more sustainable and dependable energy system for everyone."

Minister for Hunter Yasmin Catley said:

"The \$1 billion project injects a major capital investment within the Upper Hunter region, bringing a major boost to local jobs.

Tomago battery to feed 'powerhouse'

|| FROM P1

"Today's announcement further shores up our region as a renewable energy powerhouse, that will power communities for decades to come."

The Tomago battery adds to the state's growing network of 57 large-scale batteries that have already been approved to support the state's continued transition away from coal-fired power generation.

They include AGL's 500 megawatt Liddell battery, the 850 megawatt Waratah battery at Munmorah and Origin Energy's 700 megawatt Eraring battery.

The batteries are playing an increasingly important role by providing firming capacity to support renewable generation, while improving the strength and reliability of the network.

The Minns government has approved 30 renewable projects, including 14 large scale batteries, to date.

"Port Stephens is a manufacturing powerhouse, and this big battery project will



Minister for the Hunter Yasmin Catley.

help power good skilled local jobs into the future," Port Stephens MP Kate Washington said.

"It's exciting that Port Stephens will be home to a billion-dollar battery, one of the biggest in the state, helping deliver sustainable and reliable energy."

AGL general manager of power development and energy hubs Travis Hughes said the battery would provide additional firming capacity for NSW customers and help AGL hit its goal to add 12 gigawatts of renewables and firming by 2035.

POWER-UP AGL's 500 megawatt Tomago battery wins planning approval

Final charge for Tomago

Matthew Kelly

AGL's \$1 billion 500 megawatt battery energy storage system at Tomago has received final planning approval. The battery will be one of the biggest batteries in NSW

with the capacity to power about 200,000 homes during peak demand periods. A final investment decision is expected to be made next year with construction to begin soon after. Construction will employ

200 people, with six ongoing operational jobs. "Large-scale batteries are crucial for our energy future. They help store renewable energy, making sure we have a reliable power supply even when the sun isn't shining, or

the wind isn't blowing," Planning Minister Paul Scully said. "This not only supports our transition to cleaner energy but also strengthens our energy security and resilience. Investing in these batteries means a more

sustainable and dependable energy system for everyone." AGL will provide about \$2.2 million to Port Stephens Council for community improvement projects through its Voluntary Planning Agreement.

"The \$1 billion project injects a major capital investment within the Upper Hunter region, bringing a major boost to local jobs," Minister for Hunter Yasmin Catley said. || CONTINUED P7

"Today's announcement further shores up our region as a renewable energy powerhouse, that will power communities for decades to come."

Member for Port Stephens Kate Washington said:

"I welcome this major investment in our community that will bring more than 200 jobs to Port Stephens.

"We want Port Stephens to play a role in the renewable energy transition and this announcement is welcomed by the community."



NSW Government has announced that we've received planning approval for a grid-scale battery at Tomago in NSW.

Our General Manager of Power Development and Energy Hubs, **Travis Hughes**, said this exciting announcement marks another important step in the development process of the battery.

"We welcome planning approval from the NSW Minister for Planning for AGL's Tomago battery. The 500 MW 4-hour grid-scale battery has the potential to provide additional firming capacity for AGL's NSW customers.

It will also contribute towards AGL's ambition to add 12 GW of renewables and firming to our portfolio by 2035. Planning approval is an important milestone as we progress our development plans ahead of a final investment decision in 2025."

Read more -> <https://lnkd.in/gDGVV9AV>

#EnergyTransition #GridScaleBattery

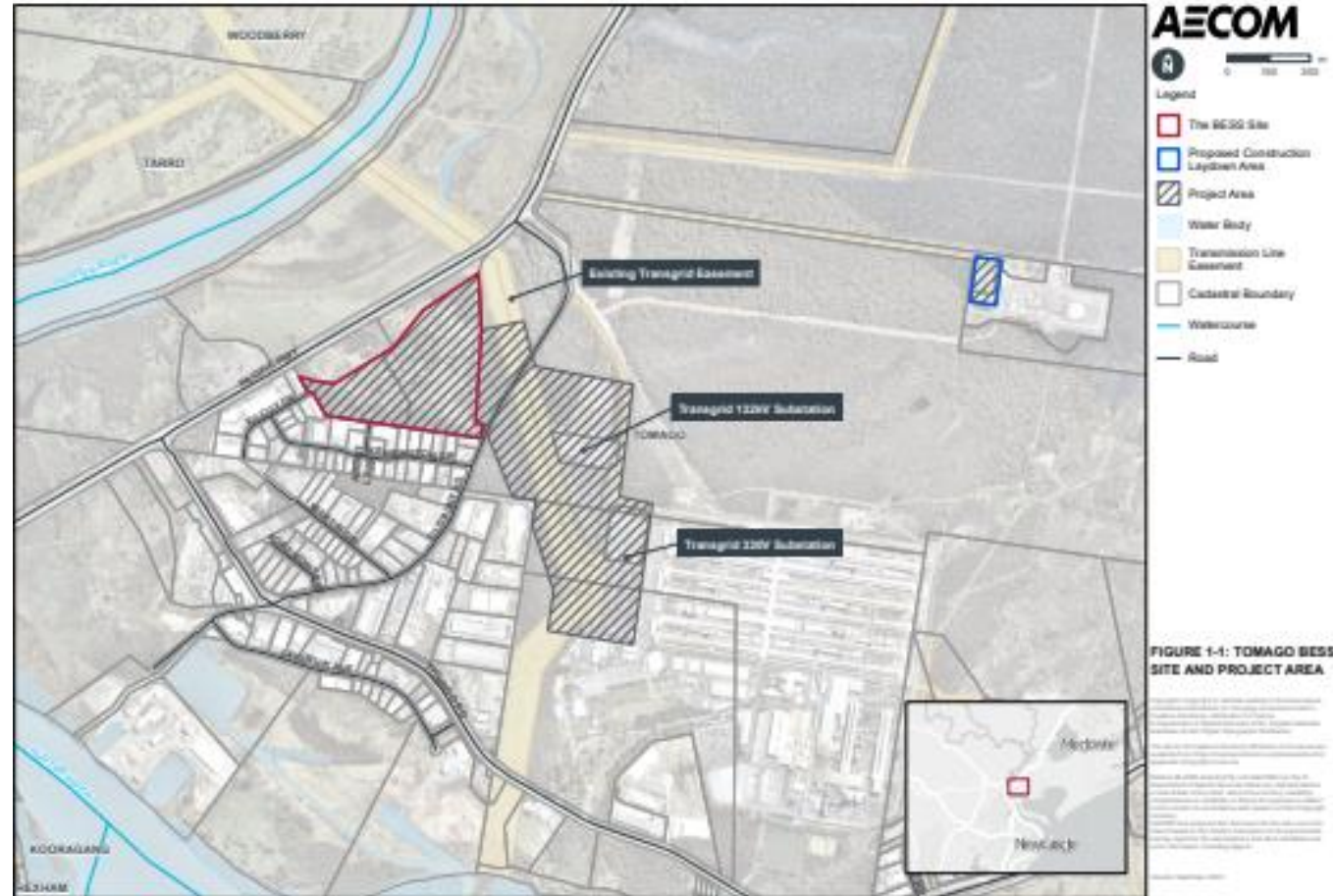


You and 431 others

7 comments · 4 reposts

Key Project Details

- Project Capacity – 500MW / 2000 MWh (4 hours).
- Providing grid stabilising generation and electricity storage.
- Transmission line from the battery project site to either the 132kV Transgrid substation (north) or the 330kV Transgrid substation (south).
- Connection to an existing switchyard, including minor works to connect the Battery to the preferred neighbouring substation.
- AGL Community Grants Program to be initiated by project operation date in 2028.
- Procurement process ongoing - targeting local suppliers.



Tomago Battery Site Weed Management

- Council notified AGL of an outbreak of a high priority weed (Groundsel Bush) - email on 30 Sept 2024
- Site inspection with Council, AGL and AGL engaged ecologist (Coolburn) undertaken on 8 Oct 2024
- Worimi Green Team engaged for weed control works:
 - slash at ground level after the flowering period and prior to seeding (Dec/Jan).
 - spot spraying plants within areas of vegetation that will not be cleared (exclusion zone)
 - Pampas Grass and Mother of Millions identified during site visit to be treated
- Ongoing monitoring and management to be included in Biodiversity Management Plan (condition of consent):
 - identify and treat any new plants in spring 2025.
 - plants will be destroyed once clearing for battery construction.



Plate 4: GB along the western boundary



Plate 6: Pampas Grass should also be treated while young.



Join the change

Schedule



Post Approvals Requirements



Join the change

Conditions of Consent includes the following requirements to:

- Complete:
 - a new access point off Old Punt Road
 - an independent dilapidation survey
 - detailed plans of final layout and notify of dates of commencement in Portal
- Preparation of
 - Traffic management plan in consultation with TfNSW
 - Biodiversity Management Plan in consultation with BCS
 - Heritage Management Plan in consultation with Heritage NSW and Aboriginal stakeholders
 - Fire Safety Study in consultation with FRNSW and DPHI
 - Environmental Management Strategy to the satisfaction of the Planning Secretary
 - VPA agreements with PSC

Questions

Thankyou!