Endeavour Energy

ASP Seminar

August 2025

POWER together

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Acknowledgment of Country

Endeavour Energy acknowledges the Traditional Custodians of Country where we work — the people of the Dharug, Wiradjuri, Dharawal, Gundungurra and Yuin nations.

We recognise their continuing connection to the land, waters, and community and pay our respect to Elders, past and present.

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Housekeeping

- Participant's microphones will be turned off for the seminar
- The seminar and slides will be recorded, available to download at a later date
- Each presenter will present with time for questions at the end of each segment
- Sessions will commence at their scheduled time, regardless of the previous session's end time (we won't start any sessions early)
- Feel free to ask questions in the Q&A chat, as it will be monitored by staff members. If we aren't able to get to it today, we will endeavour to provide an answer over the next couple of weeks
- Participants are free to come and go as they please, to whichever sessions they wish to attend

Agenda

Time	Audience	Item	Speaker(s)
10:00am	ASP 1, 2, 3	Customer Network Solutions update Voice of Customer Process transformation	**Ashwin Prasad** Customer Connections Experience Manager **Marilizza Vasquez-Chan** Customer Systems Lead
10:30am	ASP 1, 2, 3	Flexible exports & emergency backstop	**Barton Hellyer** CER Innovation Manager
11:00am	ASP 1, 2, 3	ASP Scheme Review update	**Markus Meier-Lindner** Manager, ASP Scheme
11:30pm	ASP 1, 2, 3	Standards update	**Amali Wickramasinghe** Lead Engineer - Mains
12:00pm		**Lunch break**	
12:30pm	ASP 1, 2, 3	Safety	**Riley Bryn** Public Safety Manager **Tony Vellio** Customer Delivery Manager
1:00pm	ASP 3	ASP submission validation app	**Jonathan Lei** Customer Connections Manager
1:30pm	ASP 3	GIS & systems update	**Matthew Morgan** GIS Operations Manager
2:00pm	ASP 3	EIA - from paper to PEGA	**Gina Pavlovic** Head of Sustainability
2:30pm	ASP 1, 2, 3	General Q&A	**Ashwin Prasad** Customer Connections Experience Manager

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Overview

Ashwin Prasad
Customer Connections Experience Manager

Marilizza Vasquez-Chan
Customer Systems Lead

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Intended audience: ASP 1, 2, 3
10am – 10:30am

Preparing for the future

20,000 **New connections**

Estimated each upcoming year

$1B **New network assets**

Over the next 5 years

40% **Solar PV**

Customer installations by 2029

250K **Electric Vehicles**

Expected in our network by 2030

105K **Batteries**

Expected in our network by 2035

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The Customer Network Solutions Team

Stephen Sammut
Head of Customer Network Solutions

Ashwin Prasad
Customer Connections Experience Manager

Jonathan Lei
Customer Connections Manager

Jude Perera
Customer Connections Manager

Sunny Mehfooz
Customer Connections Manager

Gabby Petrovski
Business Support Manager

Marilizza Vasquez-Chan
Customer Systems Lead

Ravi Lal
Customer Delivery Manager

Tony Vellio
Customer Delivery Manager

Mitch Heath
Operations Manager Metering

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Jonathan Lei
Customer Connections Manager

Ravi Lal
Customer Delivery Manager

Construction Coordinators
- Adam McCrone
- Chris Bailey
- Dan Jolly
- Jason D'Angelo
- Matthew Innes
- Rafael Invernon
- Stuart Lomax
- Zoe Ross

Customer Network Engineers
- Ali Siddiqui
- Bhoomi Shah
- Parisa Sadeghi
- Romeo Cedino
- Saroun Ly
- Vishal Chavan

LGAs covered
- Camden Council
- Campbelltown City Council
- Liverpool City Council
- Shellharbour City Council
- Shoalhaven City Council
- The Council of the Municipality of Kiama
- Wingecarribee Shire Council
- Wollondilly Shire Council
- Wollongong City Council

Jude Perera
Customer Connections Manager

Tony Vellio
Customer Delivery Manager

Construction Coordinators
- Chris Jarrett
- Ben Vitucci
- Daniel McMullan
- Gav Nixon
- Greg Mitchell
- Greg Stuart
- Mark Hill
- Nathan Ward
- Tim Wrightson

Customer Network Engineers
- Albert Lo
- Darwesh Swamy
- David Ho
- Eugene Lorenzo
- Mala Jayasekara
- Raj Kumar Adhikari
- Vasan Naidoo

LGAs covered
- Bathurst Regional Council
- Blacktown City Council
- Blue Mountains City Council
- City Of Parramatta Council
- Cumberland Council
- Fairfield City Council
- Hawkesbury City Council
- Lithgow City Council
- Mid-Western Regional Council
- Penrith City Council
- The Council Of The Shire Of Hornsby
- The Hills Shire Council

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More than just an improvement on E2E timelines

Digital transformation of our Connections process

- Launched the Connections Portal in 2022, digitising 8000+ paper-based applications per year
- We are seeing a continuous increase in complexity of projects on our network. We are committed to ensuring we deliver these projects, safely and reliably, with a great customer experience

Collaborating with our customers to provide valued support throughout the connections process

Western Sydney Airport - Powering the first international airport built since the 1970s.

Sydney Metro are building 2 new metro lines and exploring the idea of becoming a generator to regenerate energy from their Metro trains to Endeavour Energy's 132kV network

In the last 2 years, we've worked on 5 large scale generators

We'll be delivering 6 Battery Energy Storage Systems (BESS) in the next 3 years

Powering Sydney's new CBD, a once-in-a-generation development. By 2036, half of greater Sydney's population will reside within the city's west. The new city will comprise 750,000 new dwellings and support 200,000 jobs.

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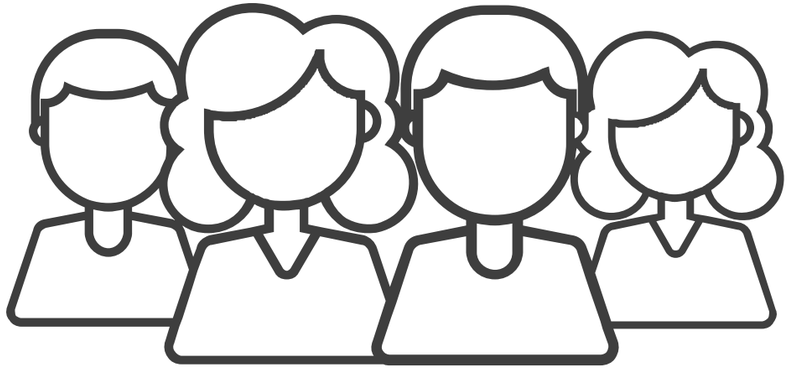
Fast Track connections - a game changer

"The new fast-tracked process … has been excellent and one of the best improvements I've seen in the Level 3 process in my 20 years"

"This has been, by far, the simplest process and is refreshing for myself as a contractor as it gave my developer confidence in our ability"

"The fast-tracked process is really great. I work with Ausgrid, Essential Energy and Endeavour Energy and this is the best process of all the authorities by a mile"



14%
Issued within 24-48h

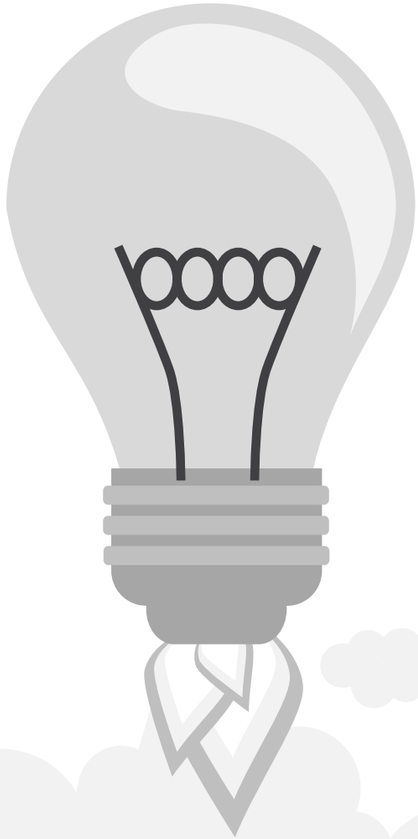
5.9
days
Average handling time

22%
Issued within 24h

140
days decreased
in the average end to end timeframe from application to design certification

2000+
Fast track offers issued

82%
satisfaction
From our customers and ASPs



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Voice of Customer Surveys

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Voice of Customer dashboard FY24/25

Surveys are sent out at Design Certification (ASP3) and Commissioning Complete (ASP1 & Developer) milestones in the project

How would you rate your overall satisfaction?

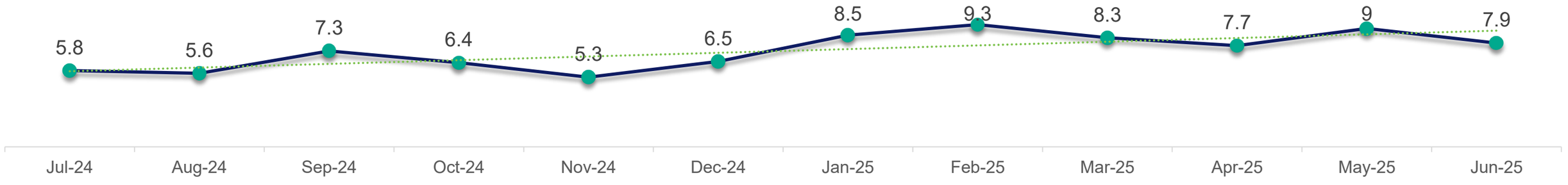
0 5 7.1 10

278 responses

52%
are **promoters**
(9-10)

20%
are **passive**
(7-8)

27%
are **detractors**
(1-6)



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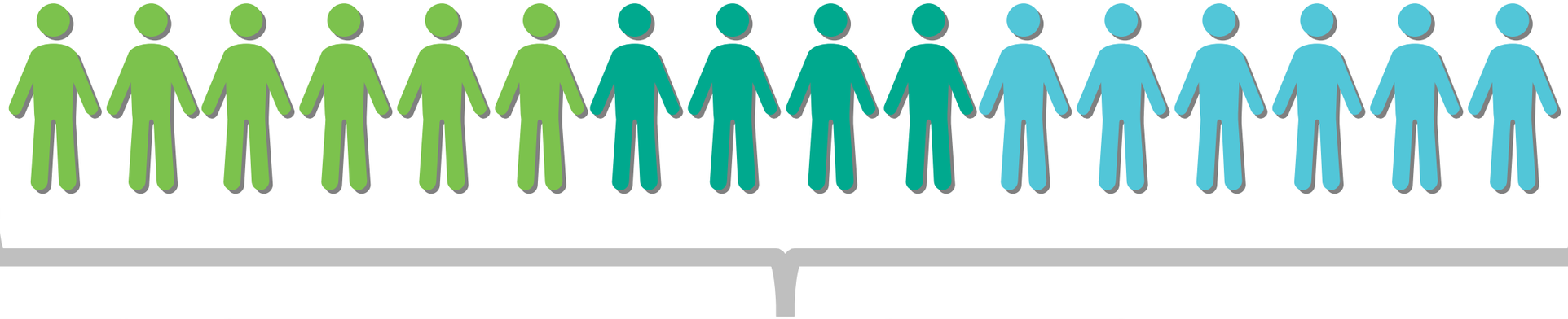
What are ASPs saying?



"[CNE] was very helpful to get the design certified in a quick manner while we where under a critical timeline even while coming back from leave."

"The Endeavour side of things was fine, The challenge was working with the Client and it would be nice if there were more guidelines that could be provided to applicants/clients regarding the connection process as they don't understand it"

"[CNE] very accommodating as usual. The process was hassle free with a quick turnaround"

"Thanks to [CNE], who worked in with us to provide a good solution for a technically challenging Design. It's always difficult integrating with 30+ year old networks and we had to make some practical decisions on the best way to do this."

"Payments going to a single person and no PDF invoice is painful for clients. Designs need to be sent via email as the GoAnywhere portal does not work and CNE's do not get notifications delaying projects"

"[CNE] is a fantastic certifier with great communication. [They were] always approachable to discuss staging strategy, timing and the overall design."

"The CNE was very helpful, however we did have a problem with Endeavour Energy's GIS Records in the area being very outdated and incomplete, and there was no mechanism to have this fixed, which is a big problem."

"Thanks to [CNE] for the quick Certification, however this project did highlight a major discrepancy with how different CNE's and different L3 ASP's interpret the entry of Cable Lengths into the AVS, and needs to be clarified by Endeavour Energy as this altered the reimbursement amount."

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Our digital transformation

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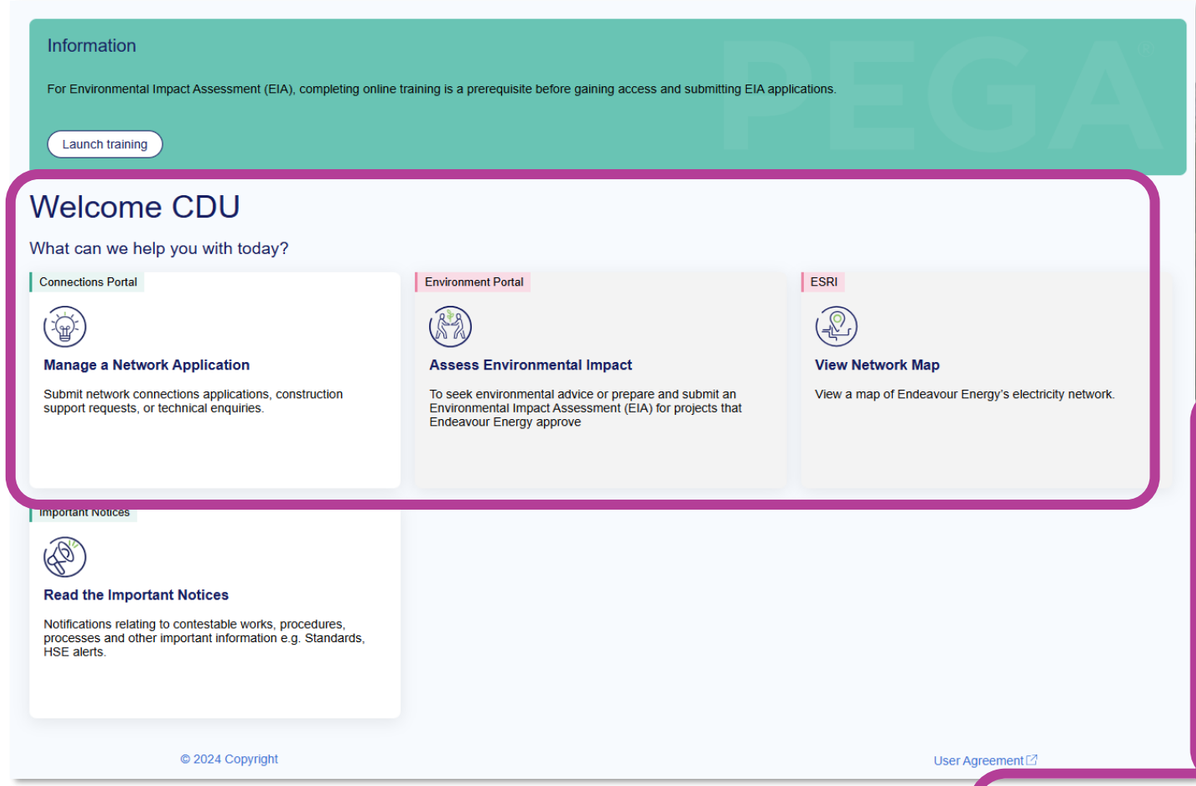
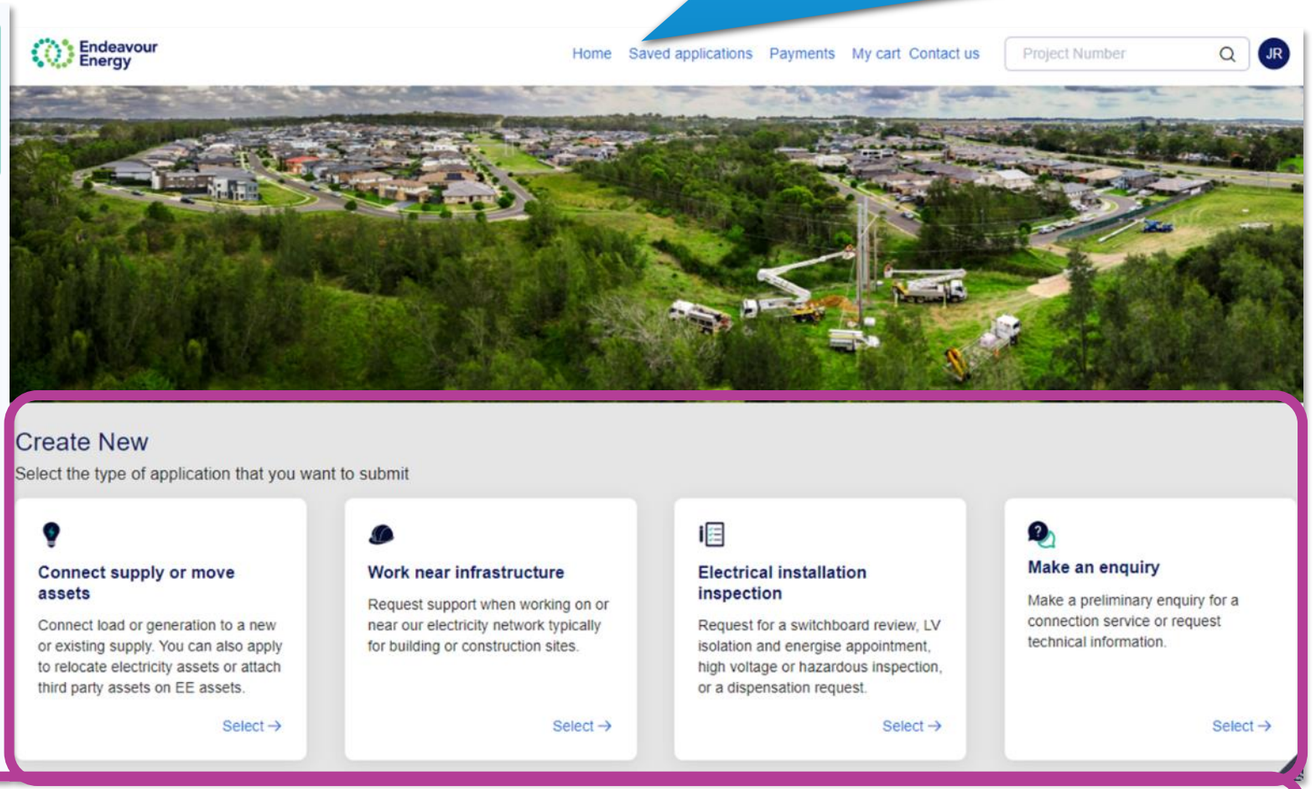
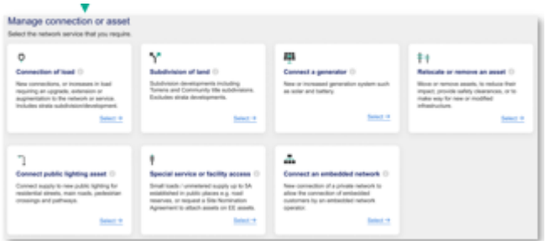
Driving Our Digital Transformation Forward

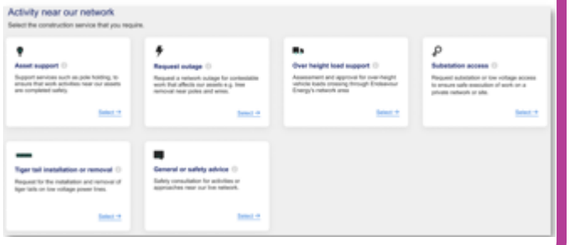
"Your connection portal was great, and with the new update it is amazing!
It takes me 5min to register a system when it takes me 10 days (at best) when it's on the other side of the fence with [other DNSP]..."







Range of Application
Sub-tiles



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Stakeholder Engagement

Qualitative research with key customer groups captured their experiences, pain points and needs

"Prefer to leave design and construction to the ASPs, only getting involved for escalations or fees."

"I need visibility of all projects that the ASPs in my business are working on."

"We'd like flexibility in the future portal, for example, the ability to add or edit project teams throughout a project."

"We value reliability. We're open to change if it's a better way of supporting a familiar process, but not when it just adds complications like we've seen recently."

"We value simplicity, like having the portal as the one place to directly submit designs and forms."

"We see value in having an accurate outage calendar, it reduces the number of communications, improves forecasting, and increases transparency with our clients."

"We need the portal to be mobile-friendly."

"We're used to filling in lots of forms, but we'd like them to be as clear and straightforward as possible. We prefer digital forms in the portal to reduce double handling and have a single place to store and submit them."

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Key features in digitising the end-to-end (E2E) connections process

Payments

- Work is underway with the Finance team to **streamline payment processes**. We're considering an approach where **a 'quote' is accepted**, and we **process the application**, onus on **Finance to chase payments**.
- We're considering a **new payment method**: **PayTo**

Actions

- The new system and its **workflow is driven by actions**. Actions help **provide visibility**, tell us who is responsible for the **next step**, and encourage a **faster progression**.
- They can be **assigned to 'anyone' in the team** e.g. Pay construction fee, **or to a specific role** e.g. Submit design documents.
- Some **actions can be done in parallel** to further expediate the process.

Document collaboration

- To **reduce paper-work**, we will **digitize forms**, allow **uploading of certain documents**, and include **digital approvals** with a click of a button.
- Document **collaboration** will be enabled allowing us to **comment, draw on / mark-up, annotate, highlight** etc documents; **reducing the back-and-forth emails** with our partners.

Messages & Communication

We will be able to **send private or public messages** within the application team. For example, we can chat internally before we're ready to post something publically to Developers and ASP's.

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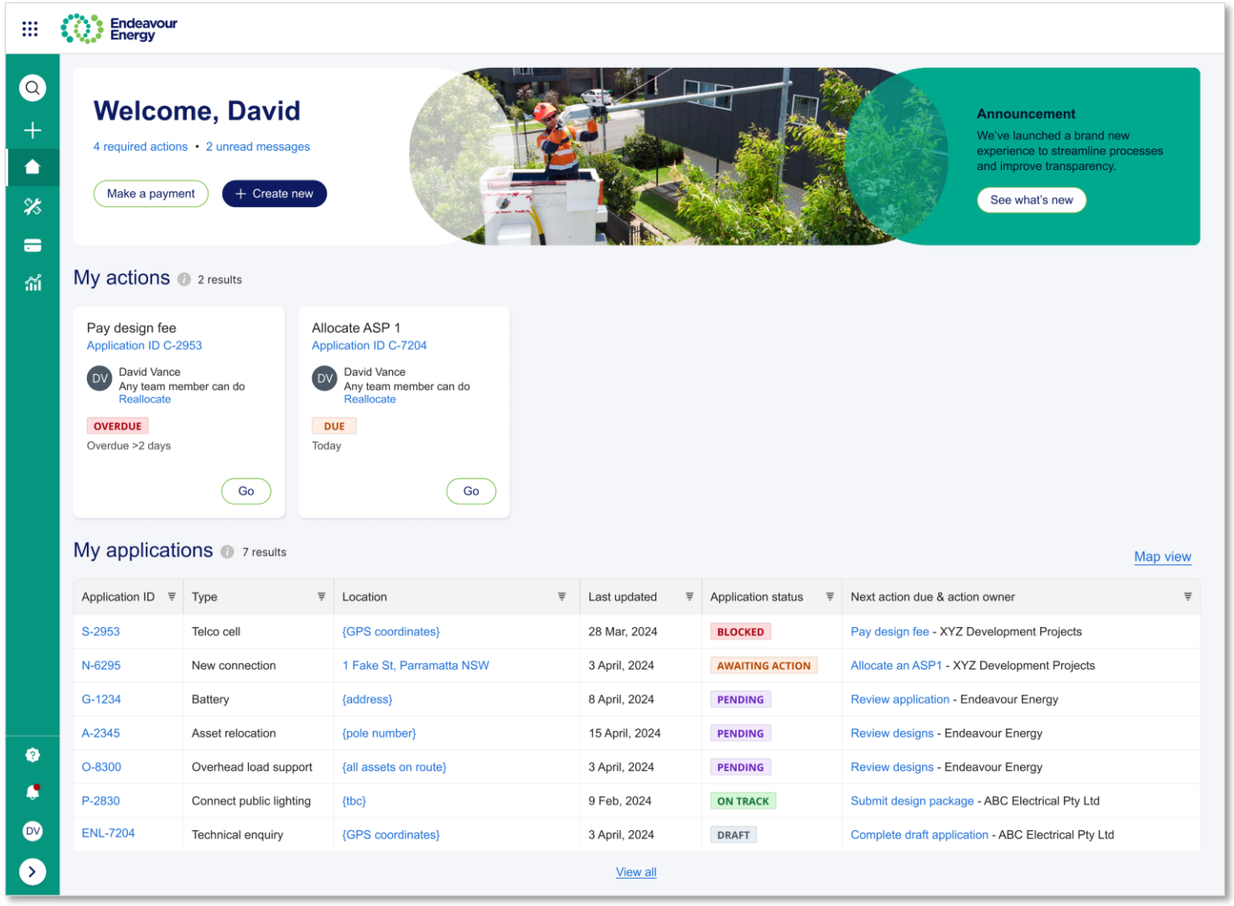
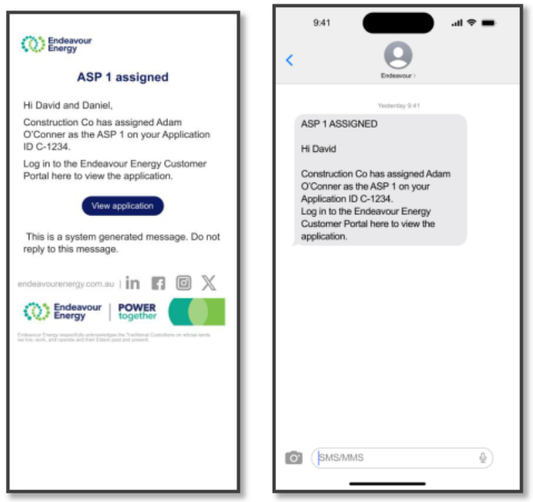
Conceptual designs - an idea of what the solution could look like

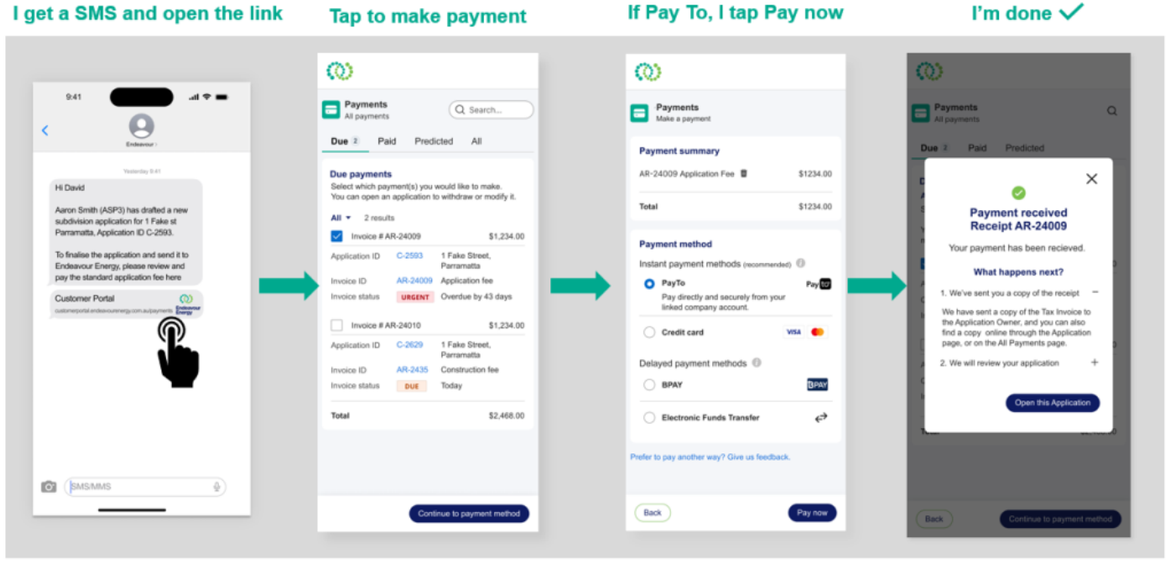
Homepage concept



Email and SMS notifications



Payments concept



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Questions

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Flexible Exports & Emergency Backstop

A foundation of flexibility

Barton Hellyer
CER Innovation Manager

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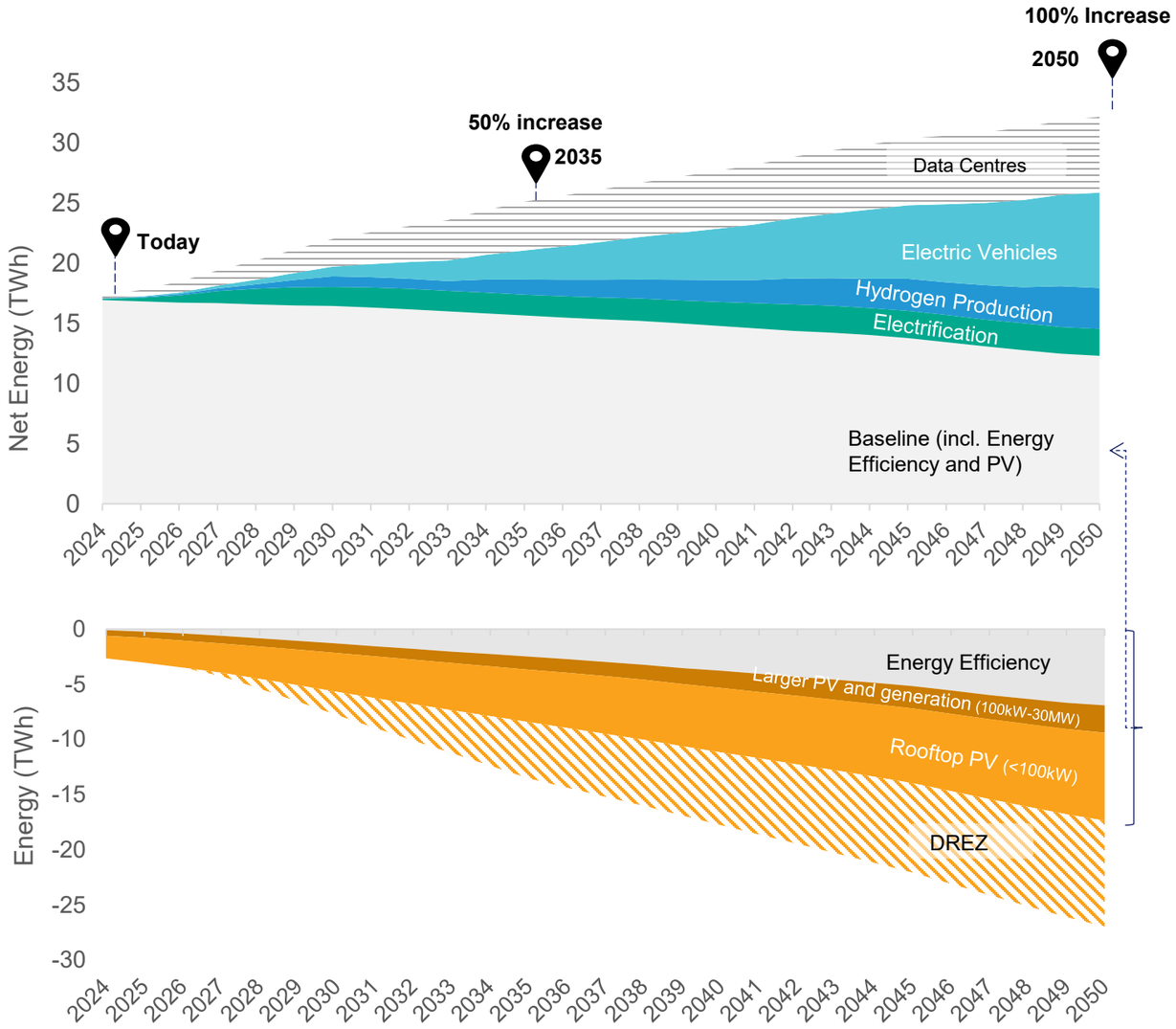
Intended audience: ASP 1, 2, 3
10:30am - 11am

Smart integration of the grid is required to meet a doubling of demand and a fivefold increase in renewable generation over 25 years

Without flexibility, this growth in energy consumption and generation would require unprecedented and costly network augmentation



EVs are the **#1** contributor to demand growth

Rooftop solar will support 25% of all energy consumption. More than 2.5GW rooftop solar is already installed on Endeavour Energy's network, increasing at 300MW annually

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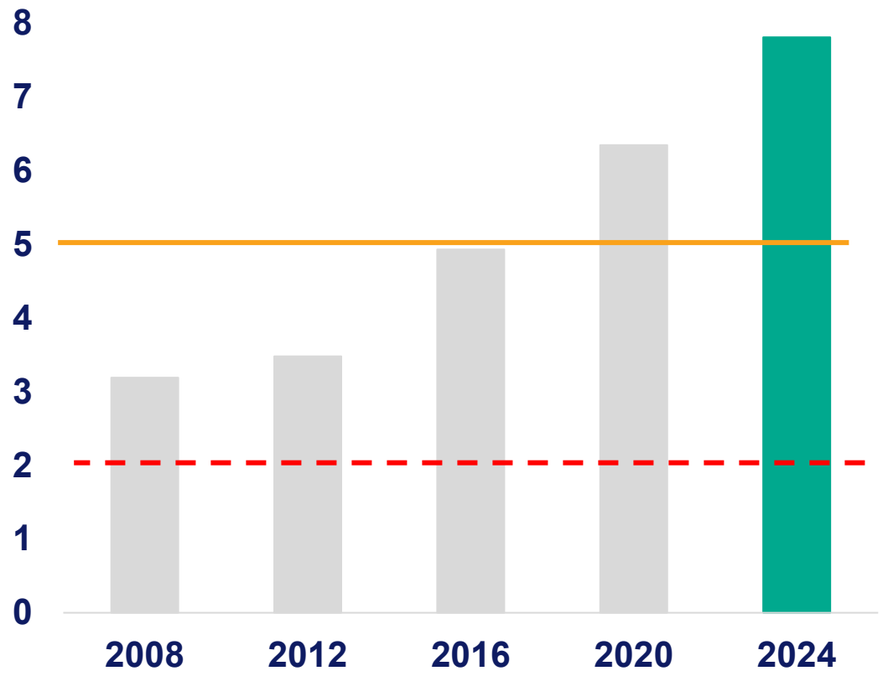
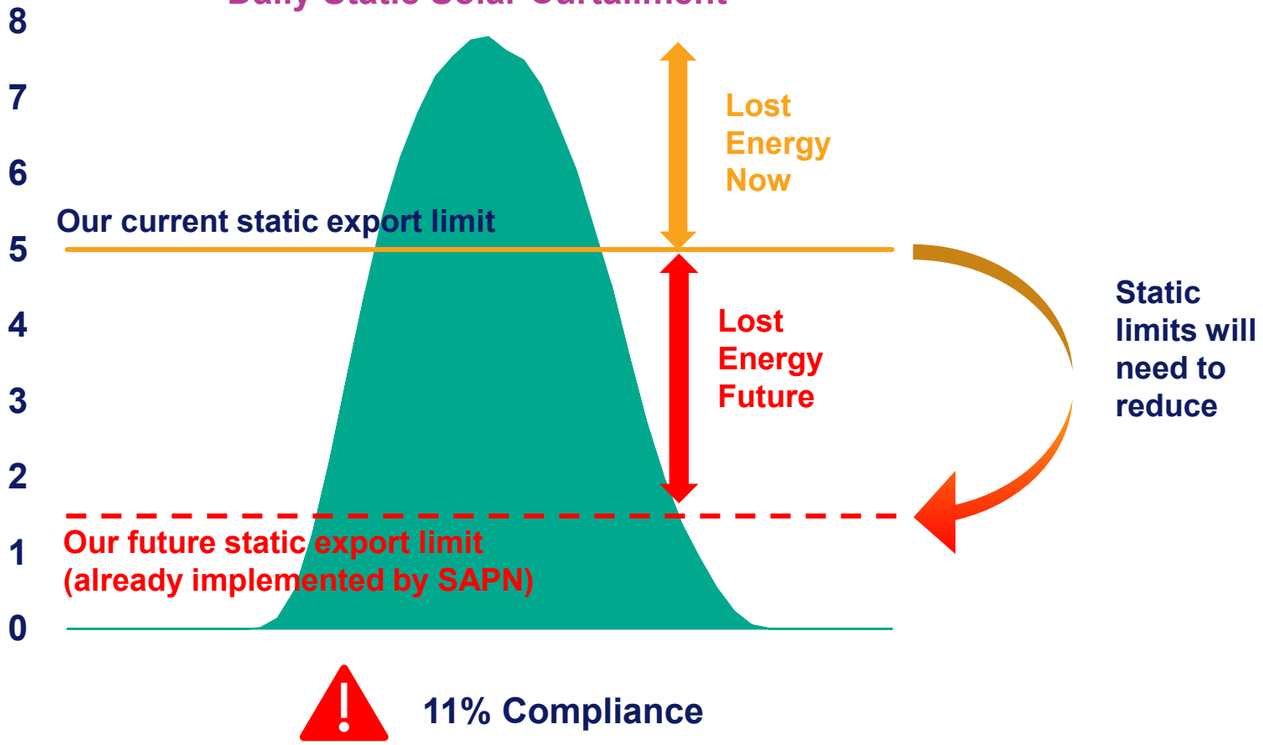
Flexibility is crucial to customer equity and customer value

As solar customers rapidly increase in number and customers install larger rooftop systems, distribution networks are lowering static export limits to equitably allocate hosting capacity. Flexibility significantly increases our network's safe hosting capacity, unlocking greater value for customers from their investments in CER.

Average Residential PV System Size (kW)



Daily Static Solar Curtailment



11% Compliance

Our analysis from smart metering data shows 11% of Solar Installations >5kW Rating Comply to Static Limits

Increasing grid issues → **Voltage Management** → **Reverse Flow Asset Limits** → **NEM System Stability**

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Residential figures and scenario above only

The key is FLEXIBILITY

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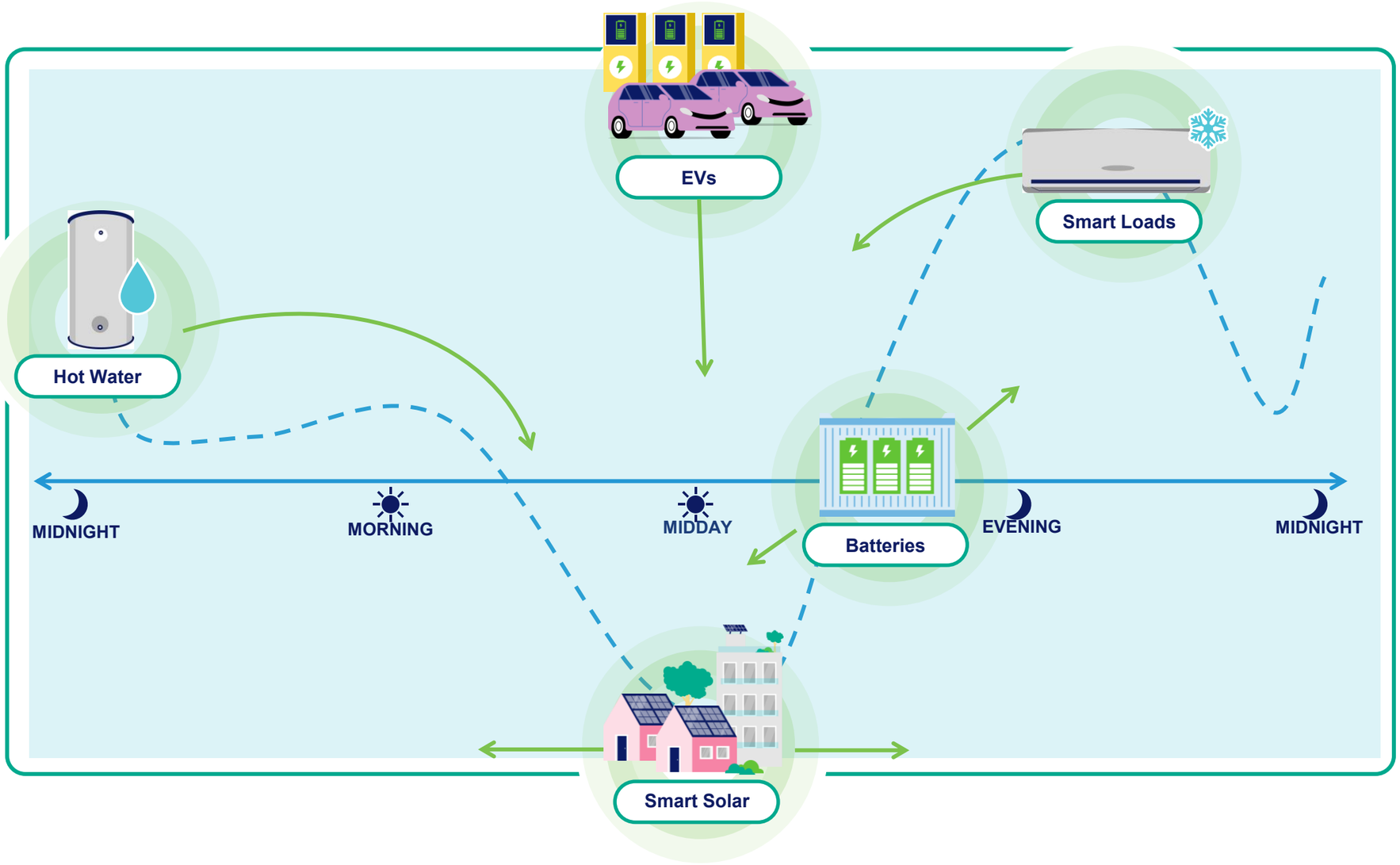
Energy Transition: We need greater flexibility to ensure this growth in energy consumption and generation doesn't require double the network…

50+ years ago we introduced controlled load hot water…



…now we need to connect solar in a smarter way…. "Flexible Exports"

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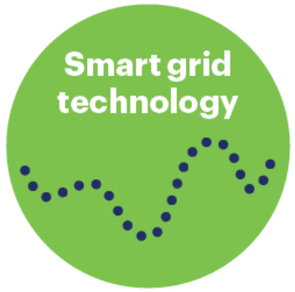
Flexible Exports allows our customers to double the exports from their solar without destabilising the grid or causing local power quality or reliability issues.

Your solar system's smart inverter

...communicates with the local grid via the internet, via secure servers...



...increasing and decreasing exporting capacity in real time, based on local grid demand.

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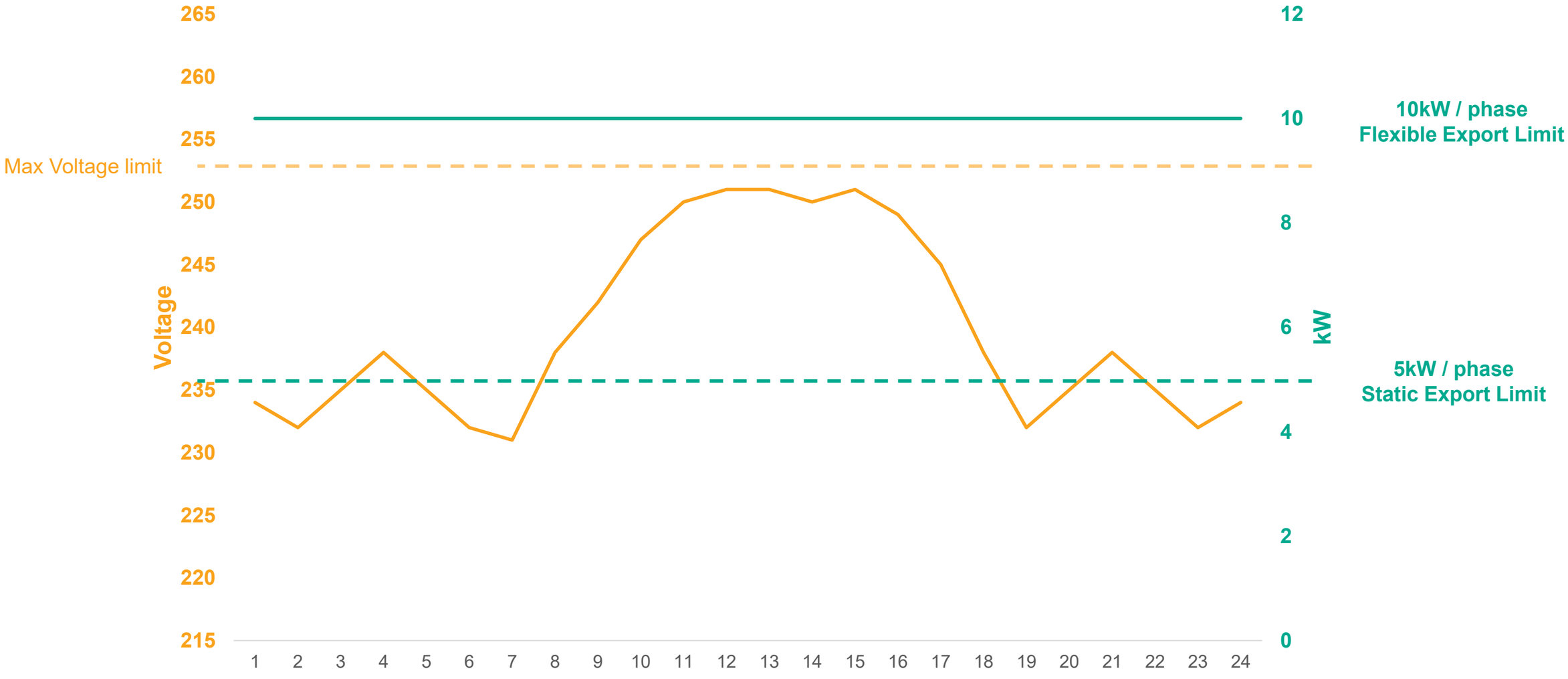
What does it look like when a flexible export limit is applied?



The scenario above shows <u>stable voltage conditions</u>. When the local grid is stable, solar customers with Flexible Exports can export up to the flexible limit of 10kW almost all the time (95%).

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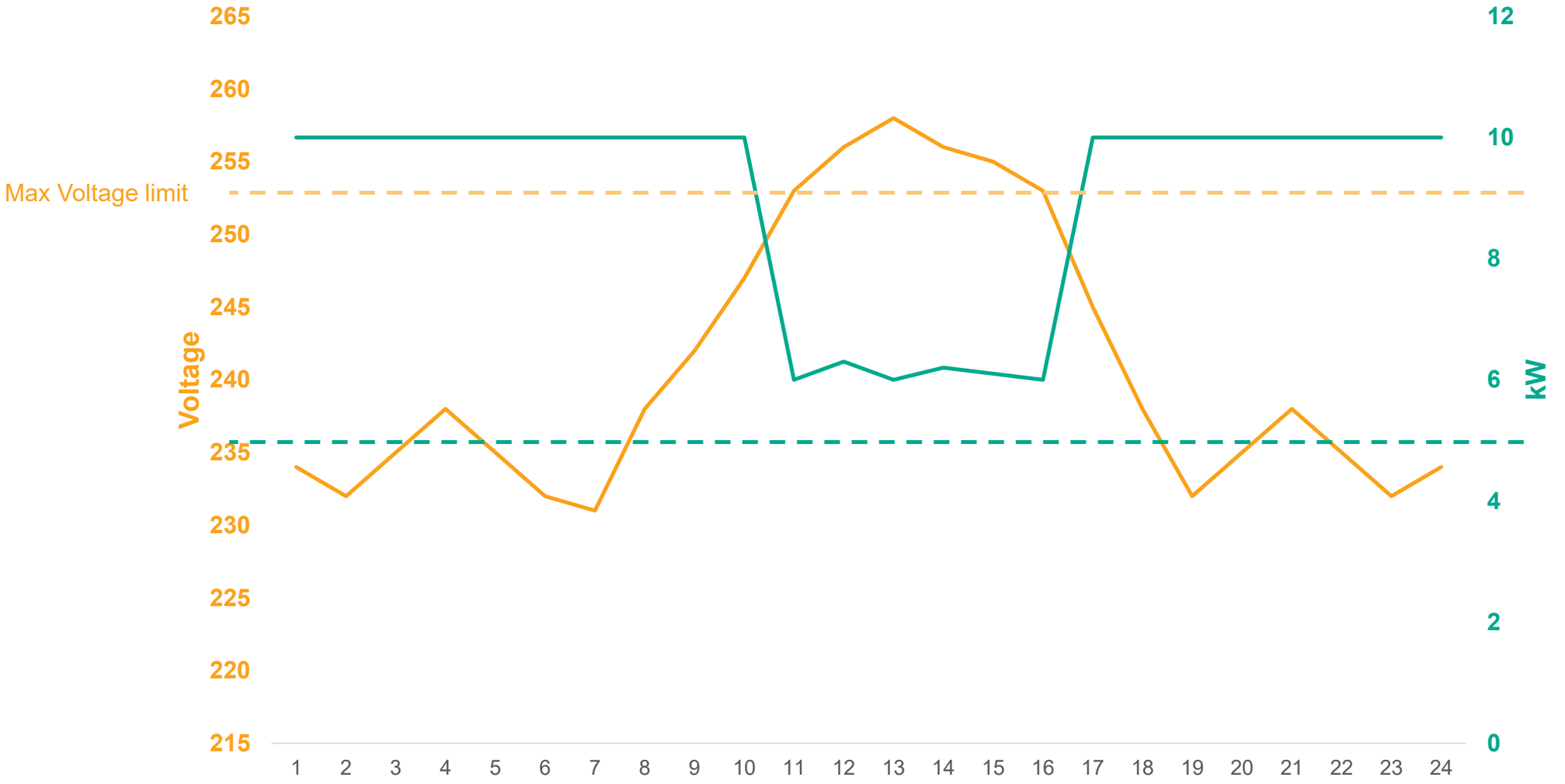
What does it look like when a flexible export limit is applied?



10kW / phase Flexible Export Limit

Solar exports will never be adjusted below our static limit to manage local grid conditions.

5kW / phase Static Export Limit

The scenario above shows <u>destabilised local voltage</u>. Endeavour Energy remotely adjusts solar exports down only when these conditions arise to maintain a stable and reliable local supply.

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We need to rethink the way we connect customers

We need to transform the way we manage solar

This is bigger than just Endeavour, it’s a NSW and National problem

This will require large scale coordination to make it happen

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What we have achieved so far

Utility Server
& DOE engine

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Flexible Exports – a closer look at how it works

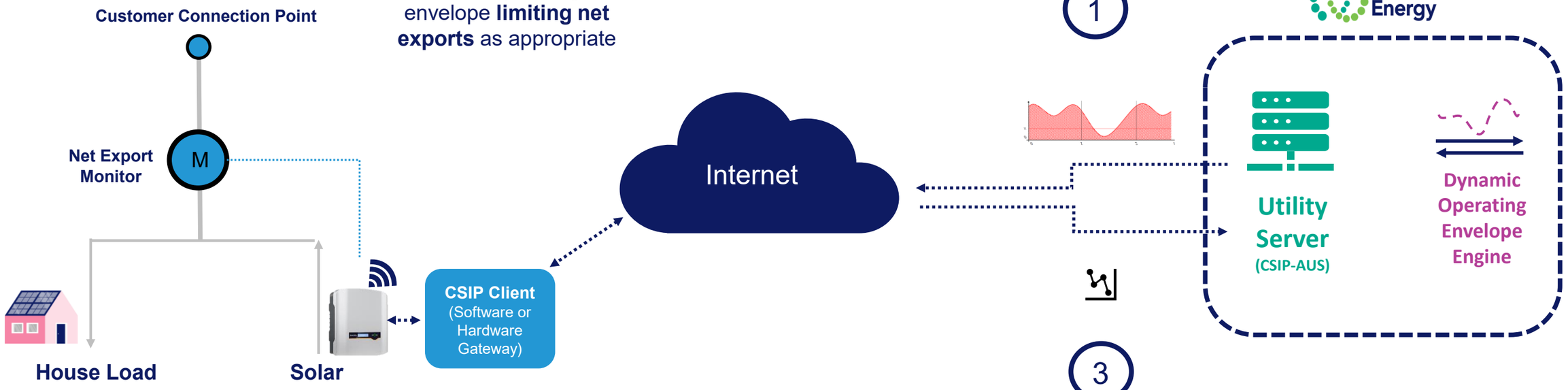
Choosing Flexible Exports does not affect how, when, or how much solar energy a customer can consume to power their home or business. **It only impacts exports to the grid at the point of connection.**

Endeavour Energy's system calculates **dynamic operating envelopes** and communicates this to the customer's inverter via a **Utility Server**

1

2

The customer's system receives and responds to the operating envelope **limiting net exports** as appropriate



3

Endeavour Energy's Utility Server receives the **latest telemetry** from the customers site/inverter.

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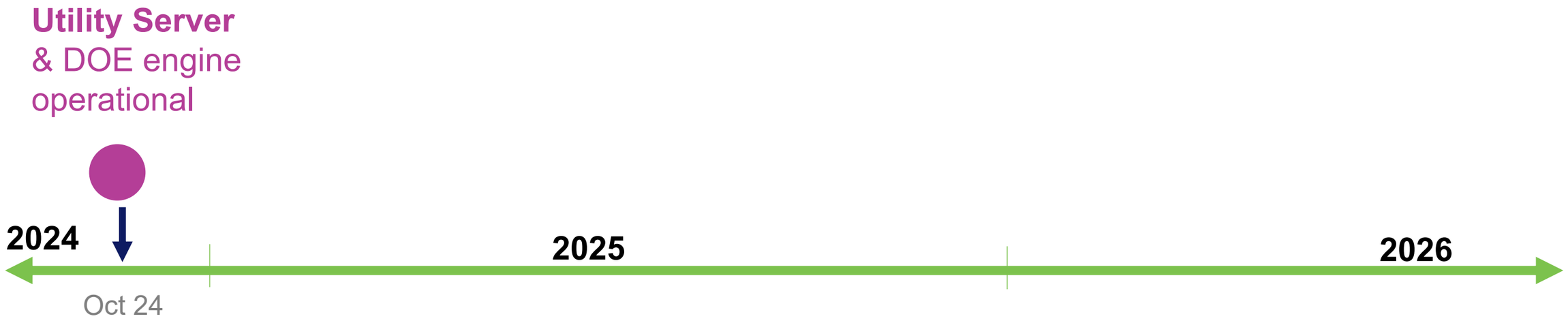
What we have achieved so far



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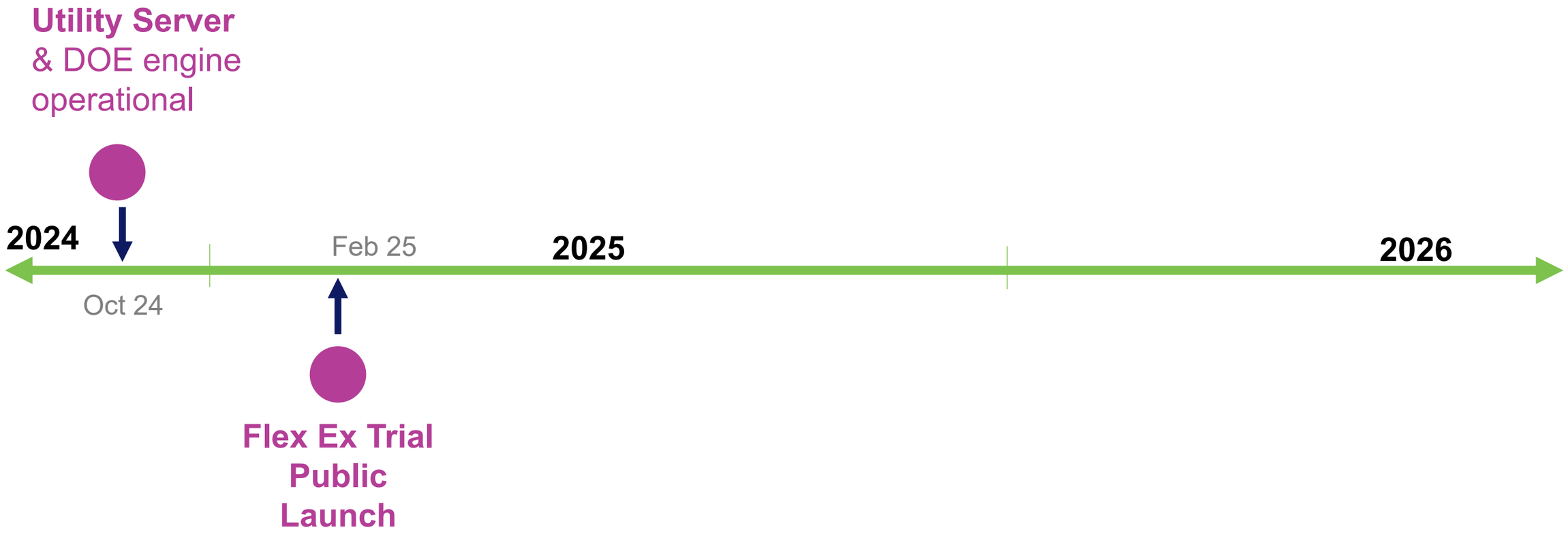
What we have achieved so far



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Flexible Exports Trial

one step off the grid

SOLAR BATTERY/STORAGE OFF-GRID EFFICIENCY SOFTWARE PODCASTS TARIFFS ELEC

Network launches flexible rooftop solar exports as an antidote to sun tax

March 3, 2025 by Amaiyah Hart — Leave a Comment

Image: Q Cells

Endeavour Energy has launched a new, AI-powered flexible export system t

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News Features Electricity Gas

AI energy export tech to reduce NSW power bills

by Sarah MacNamara — February 25, 2025

In Billing and CRM, Company news, Digital Utilities, Distributed Generation, Electricity Networks, News, Projects, Renewable Energy, Retail, Smart Energy, Solar

Reading Time: 4 mins read

ENERGY SOURCE & DISTRIBUTION

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31 March - 3 Sheraton G Hyde Park |

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Home › Latest News › Endeavour Energy launches AI-driven Flexible Exports service

Endeavour Energy launches AI-driven Flexible Exports service

February 24, 2025

Image: Endeavour Energy

Endeavour Energy has announced a groundbreaking flexible exports service in New South Wales that allows households to export more solar power to the grid. This innovative service leverages world-first AI technology developed by Gridsight.

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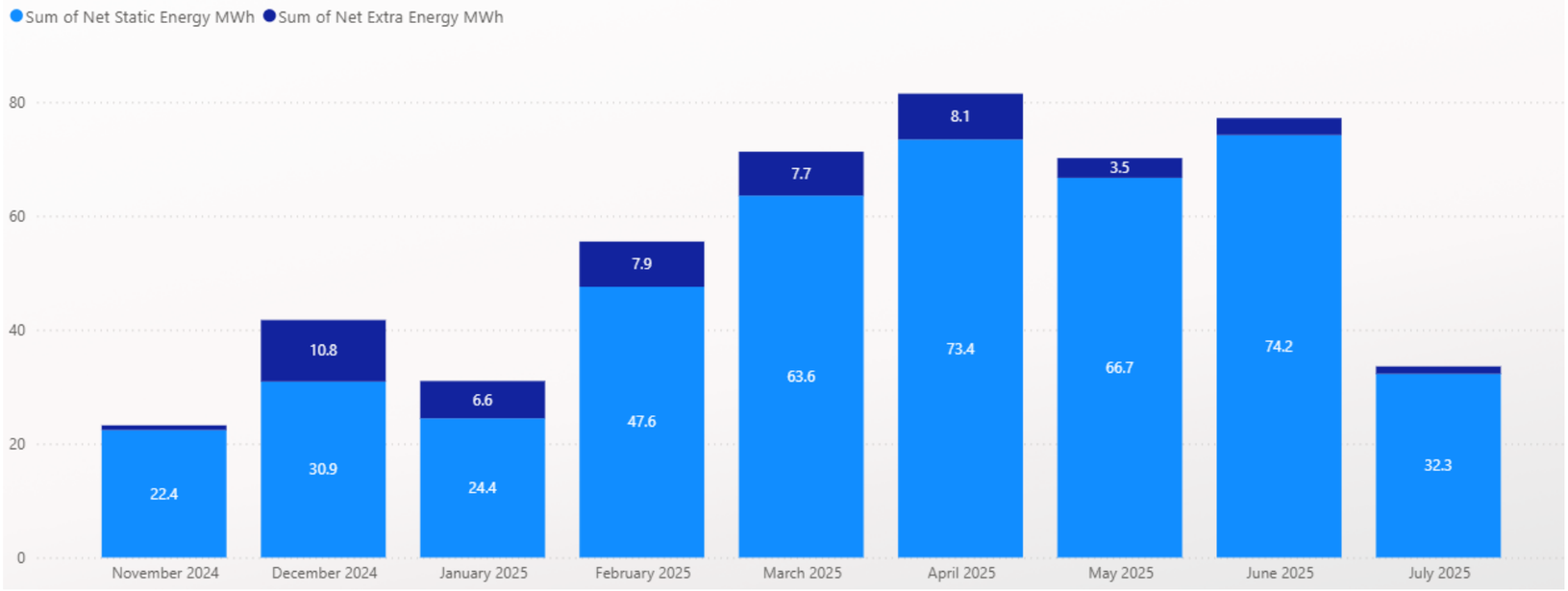
Our Flexible Exports Trial is delivering on our promise to participating customers

Total Static Power kWh	Total Extra Energy kWh	Total Estimated Revenue	DOE Availability	DOE Avg Export Limit	Days Live
415.65K	49.01K	$2,450	99.29%	9.98	232

Daily Export Breakdown



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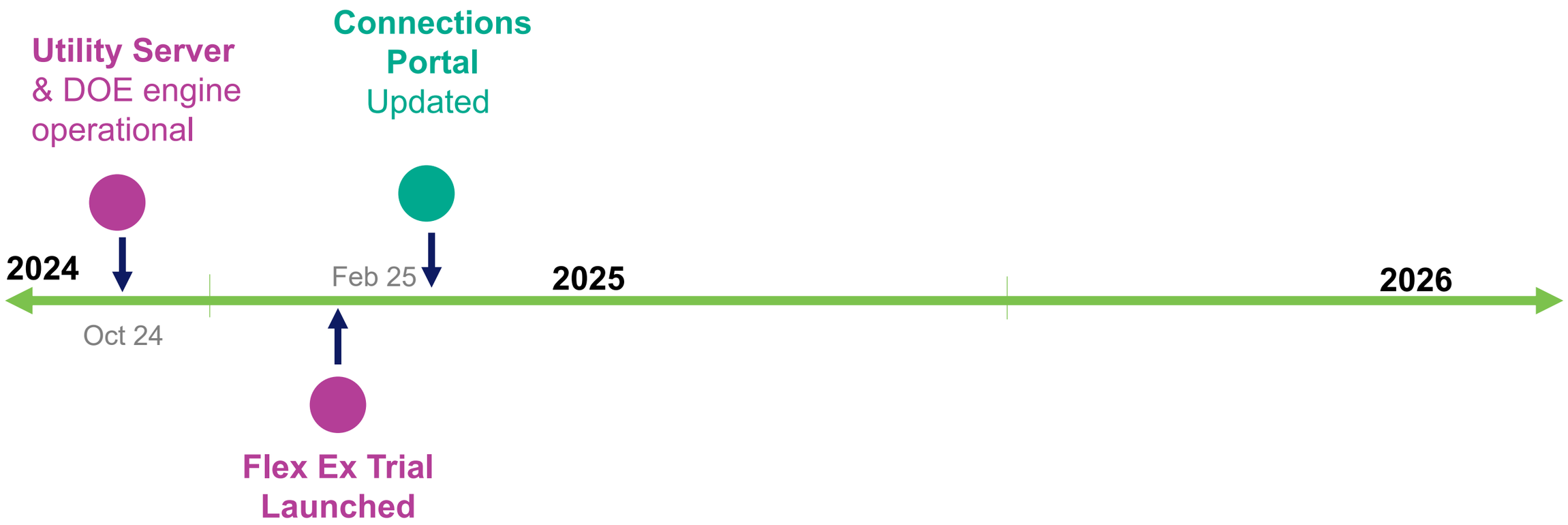
What we have achieved so far



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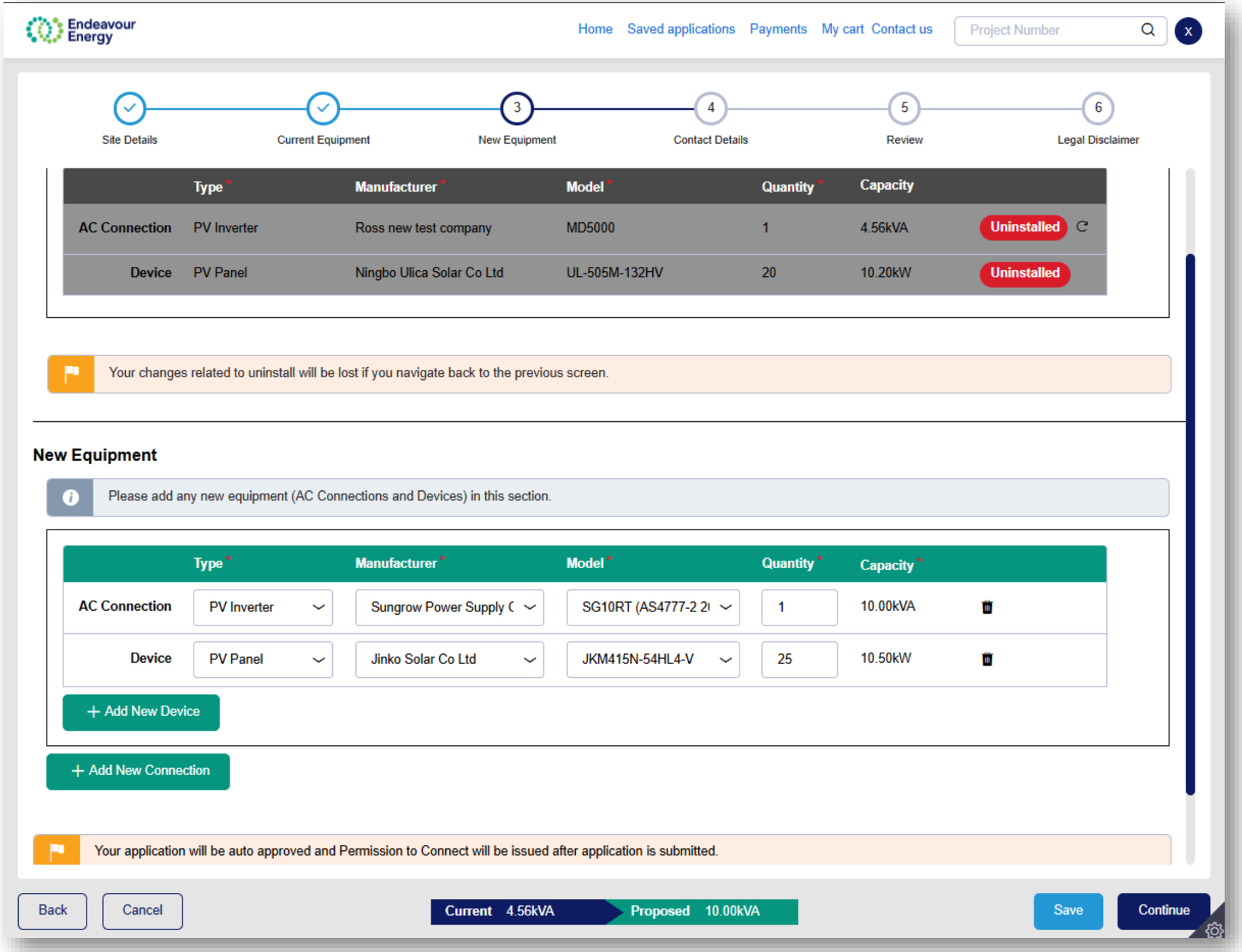

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What is coming

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Procedure summary

0700-0900 (forecast demand<MSL2): BESS to discharge
0900-1300: BESS held in reserve at minimum state of charge

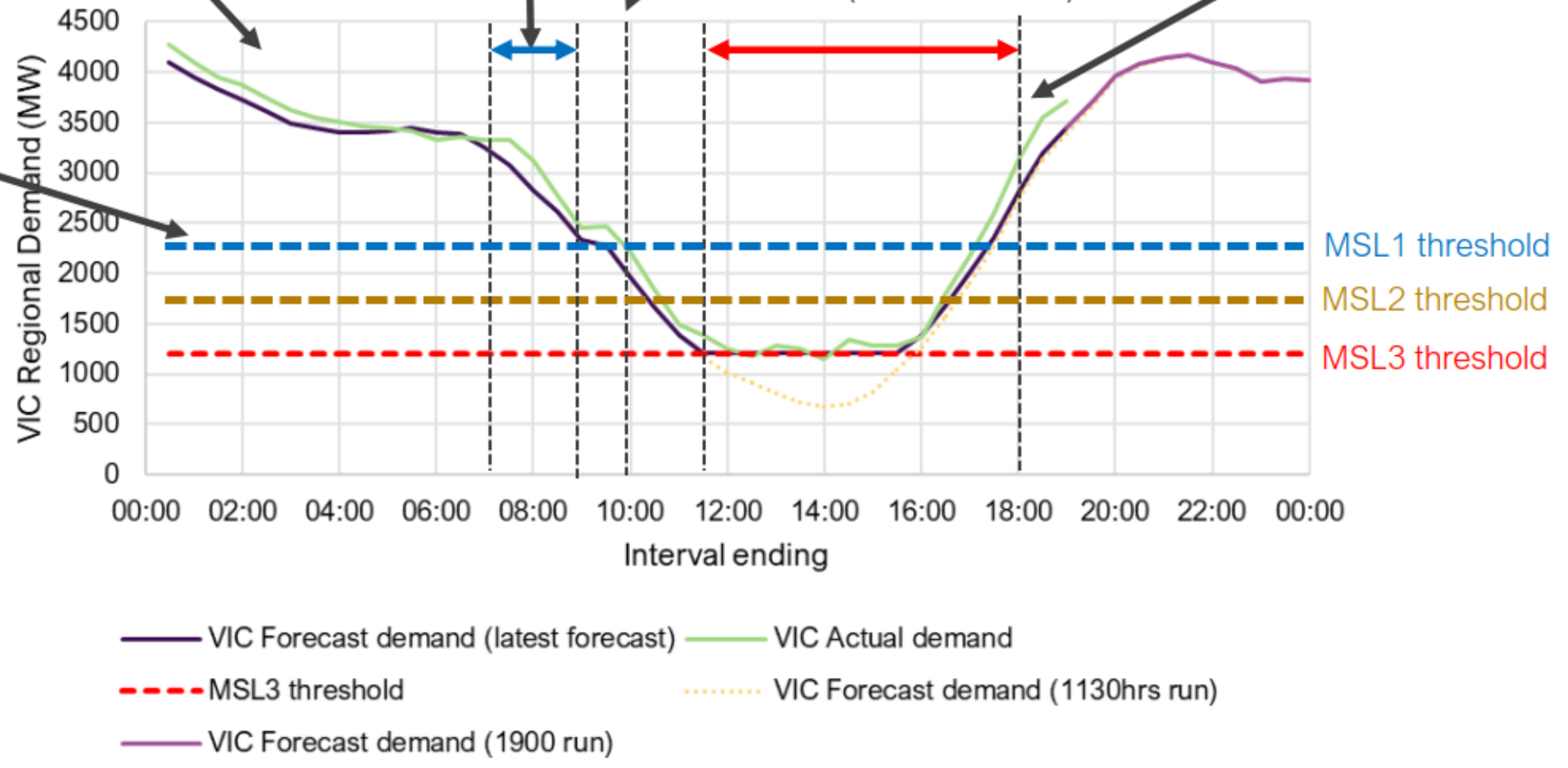
90 mins before MSL3 condition forecast: Instruction to NSPs to maintain demand above MSL3 threshold. Market Notice.

MSL condition cancelled

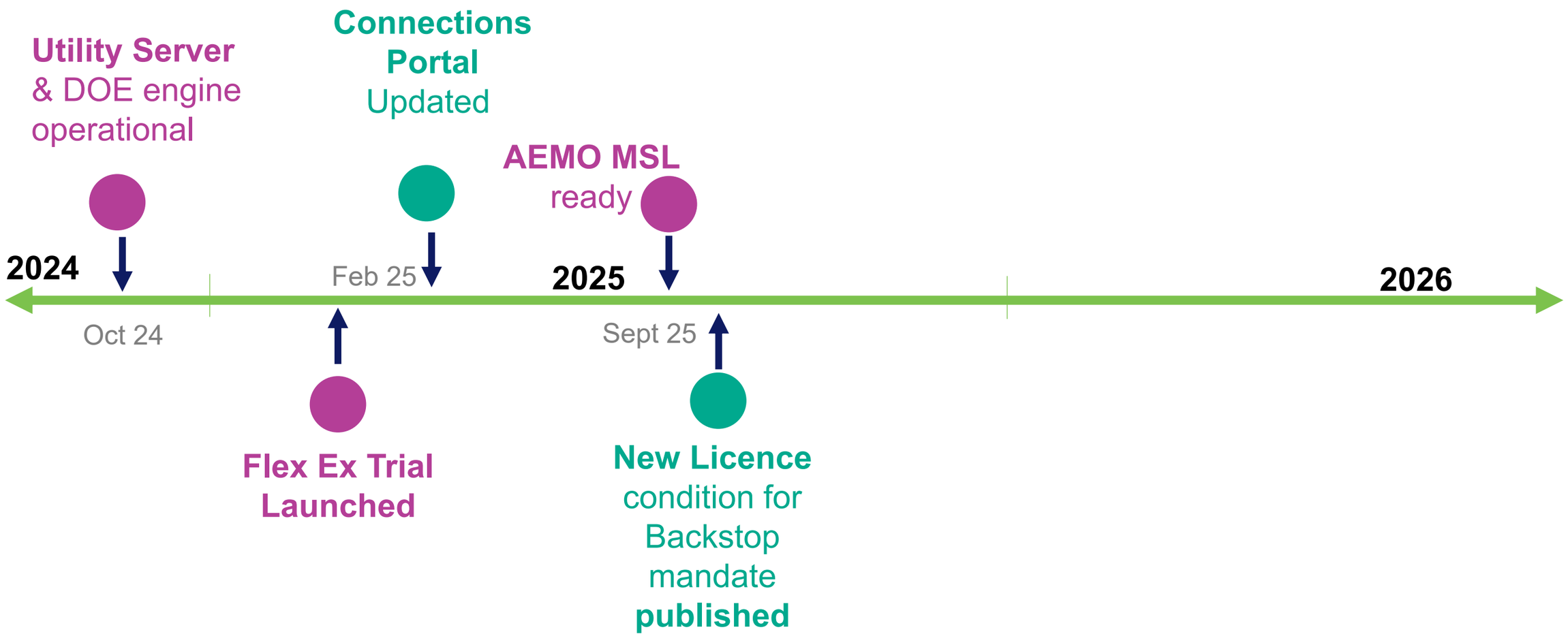
Demand forecast < MSL2: Actions to clear MSL2 condition:
- Market notice if actions are taken
- Recall planned outages that reduce VIC export capability
- Constrain significant non-scheduled generation 0 MW
- Constrain scheduled/semi-scheduled units to 0 MW if not required
- Move to smaller unit combination in SA

Demand < MSL3: NSP actions to maintain demand above MSL3 threshold (best endeavours)

Demand forecast < MSL1:
- Market notice
- Liaise with AusNet and ElectraNet



What is coming



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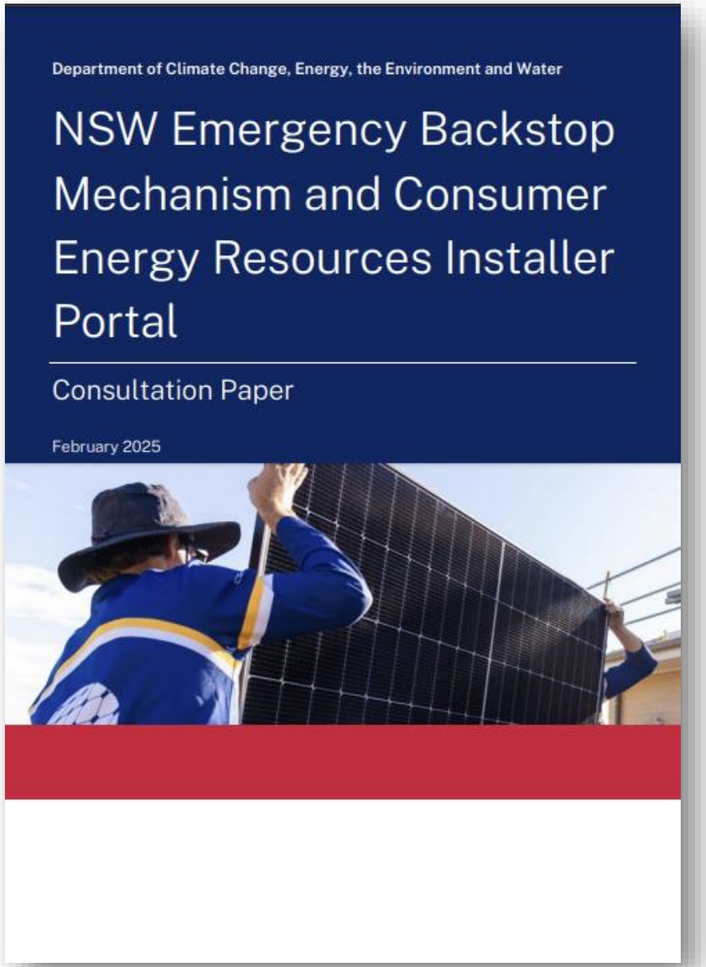
New License Condition Coming Soon



Solar curtailment for backstop

Mandates capability to remotely interrupt or curtail exports and generation for all new or replacement solar inverter systems from 30 June 2026.

Common NSW Installer portal

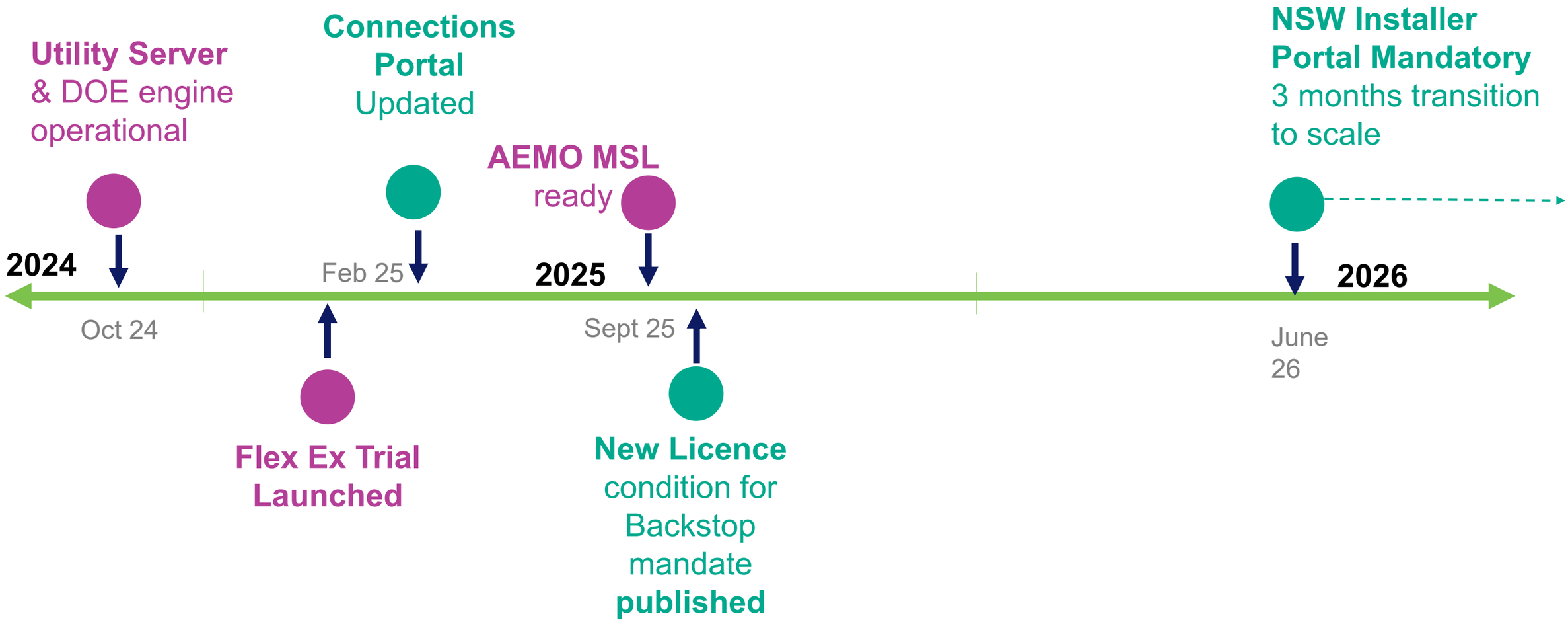
Requirement to integrate the NSW government installer portal into our processes

Customer protections and compliance

Updates will be required to our agreements and notification procedures to customers

Endeavour Energy

What is coming



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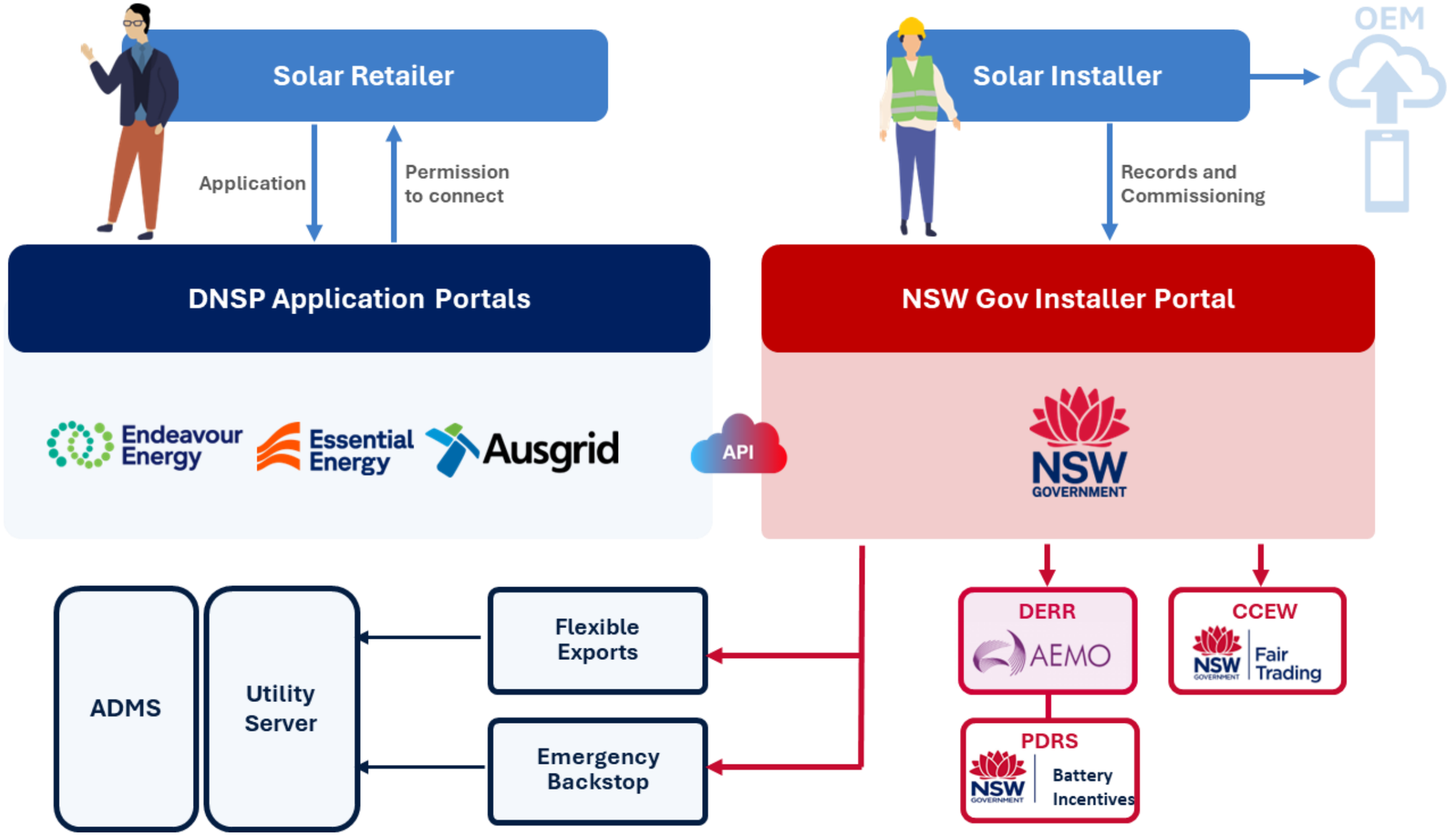
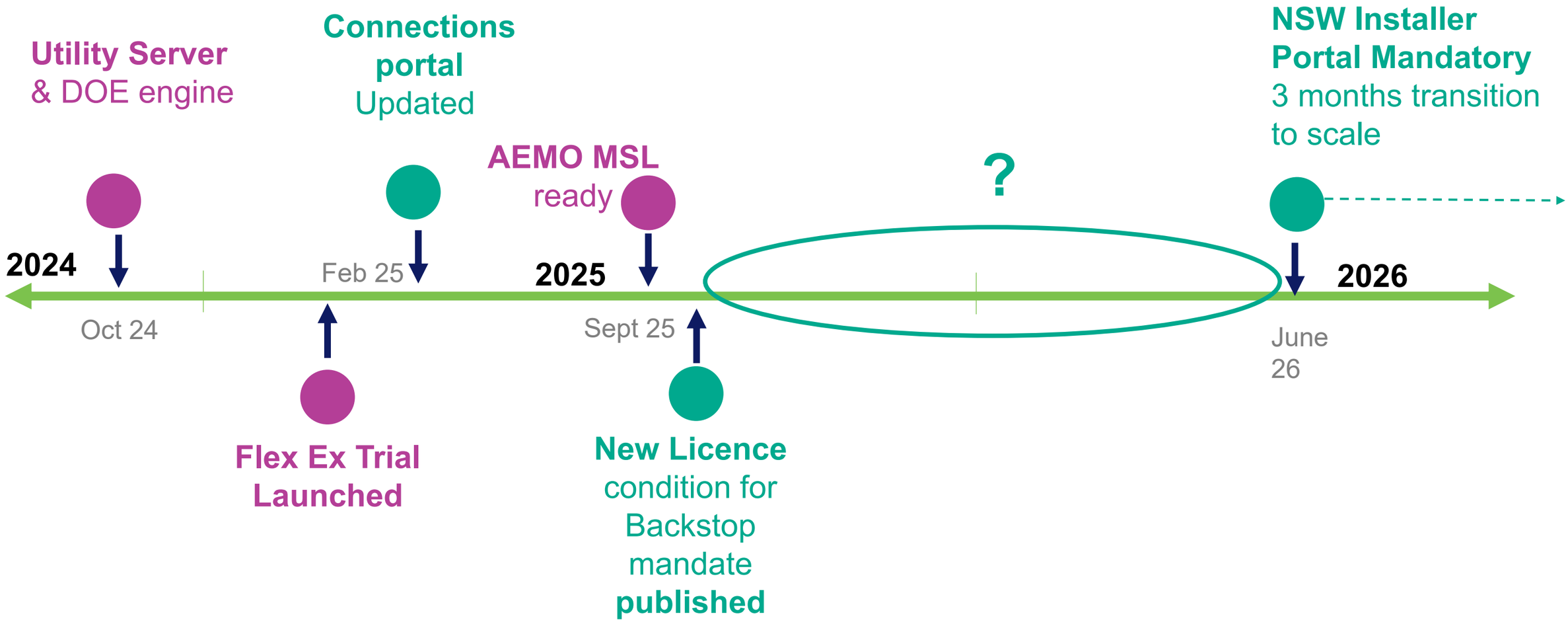

Solar Retailer
Application
Permission to connect
Solar Installer
OEM
Records and Commissioning
DNSP Application Portals
NSW Gov Installer Portal
Endeavour Energy
Essential Energy
Ausgrid
API
NSW GOVERNMENT
ADMS
Utility Server
Flexible Exports
Emergency Backstop
DERR
AEMO
CCEW
NSW GOVERNMENT
Fair Trading
PDRS
NSW GOVERNMENT
Battery Incentives

What is coming



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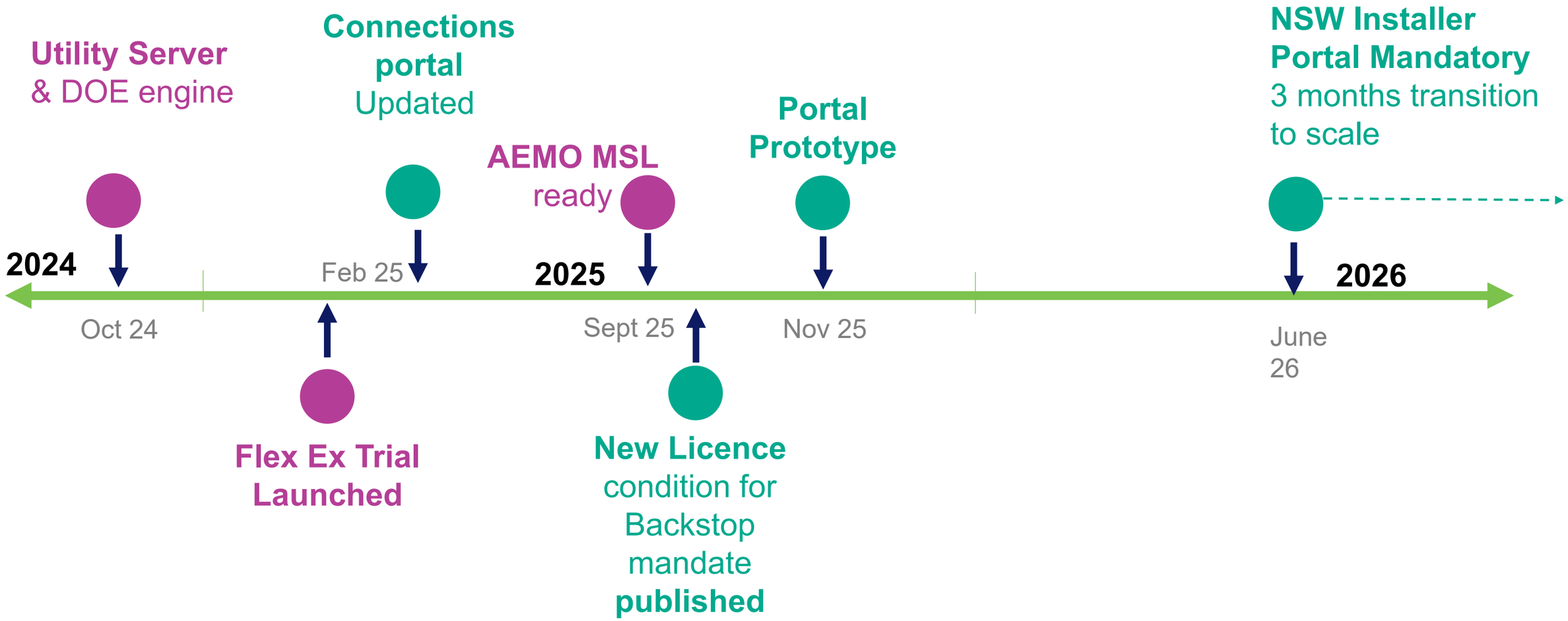

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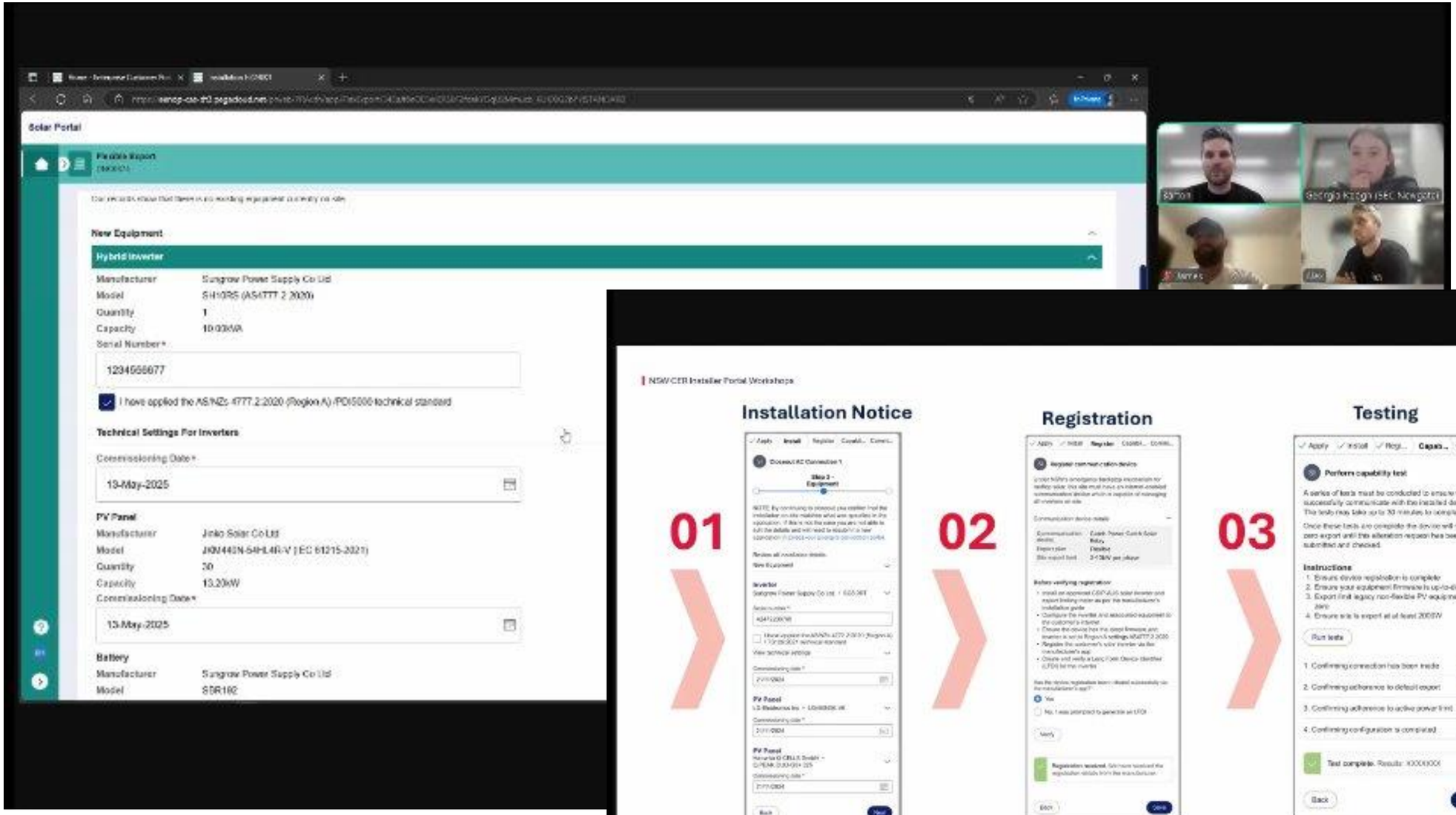

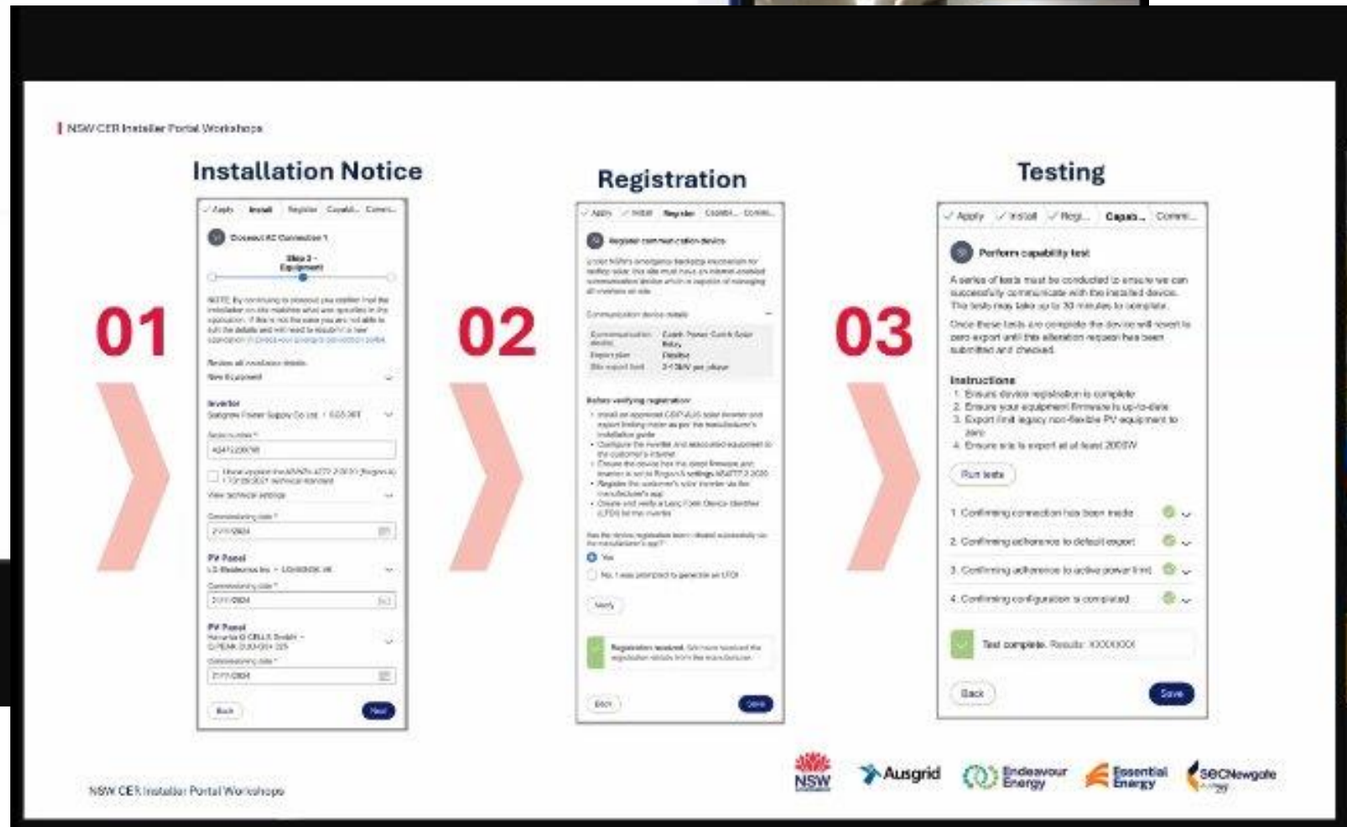

Endeavour Energy

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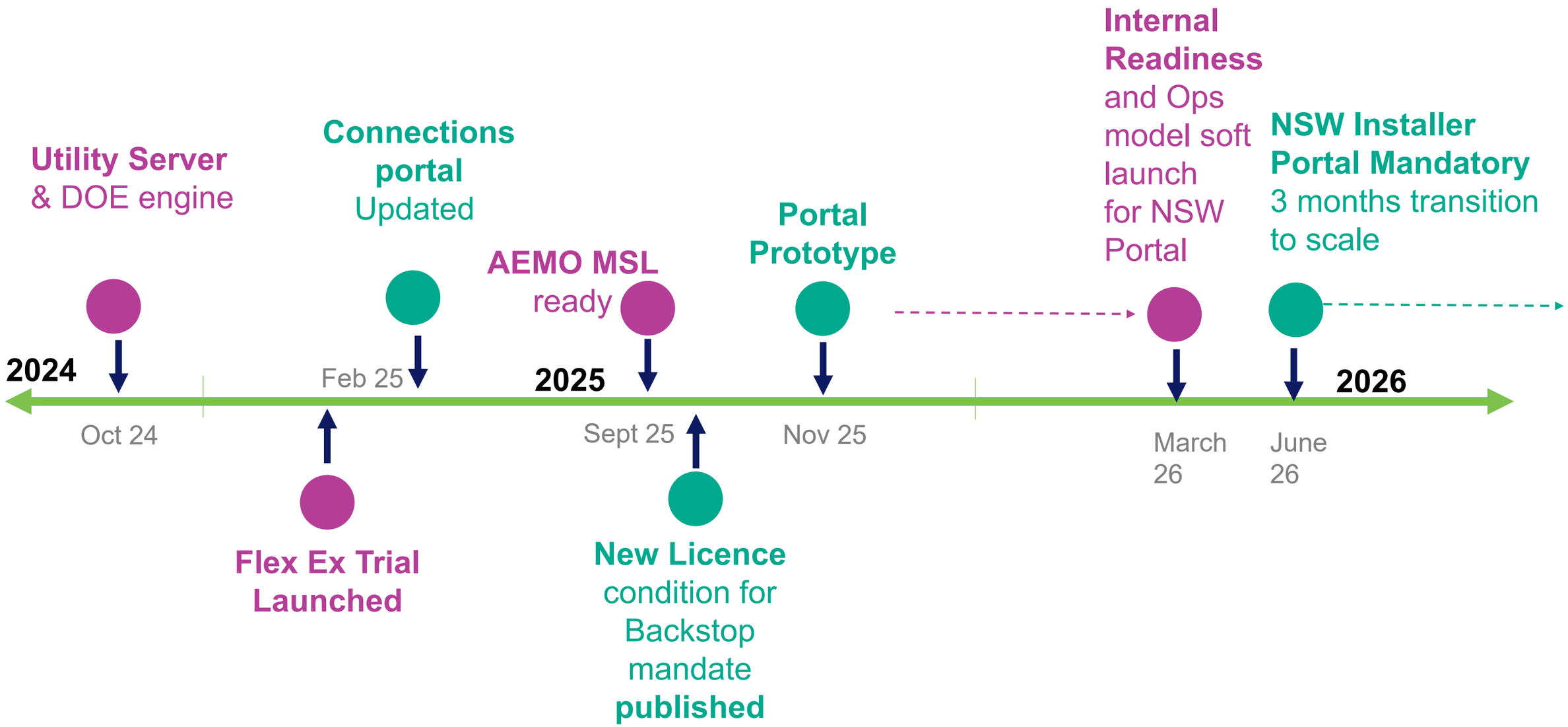

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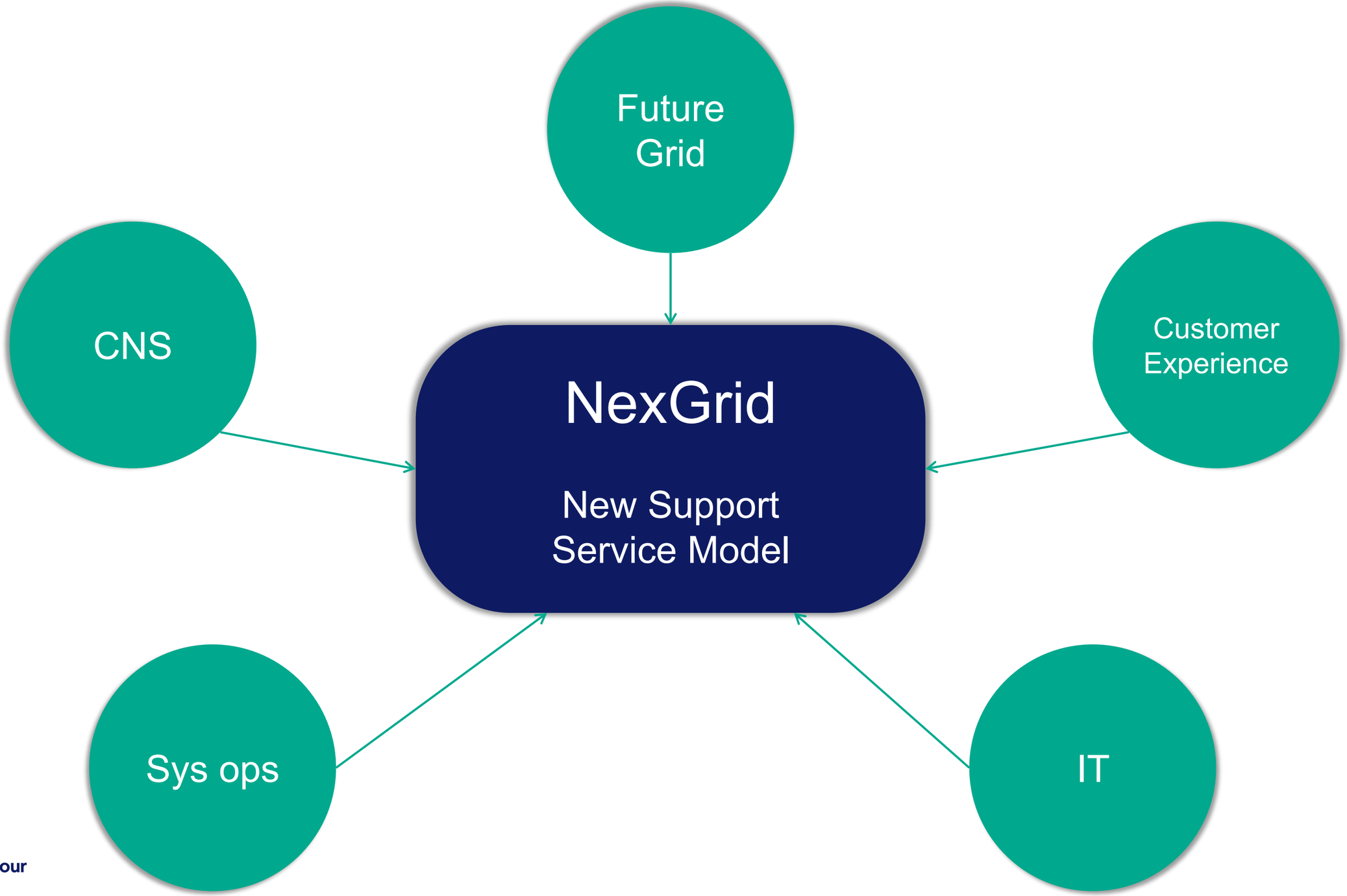
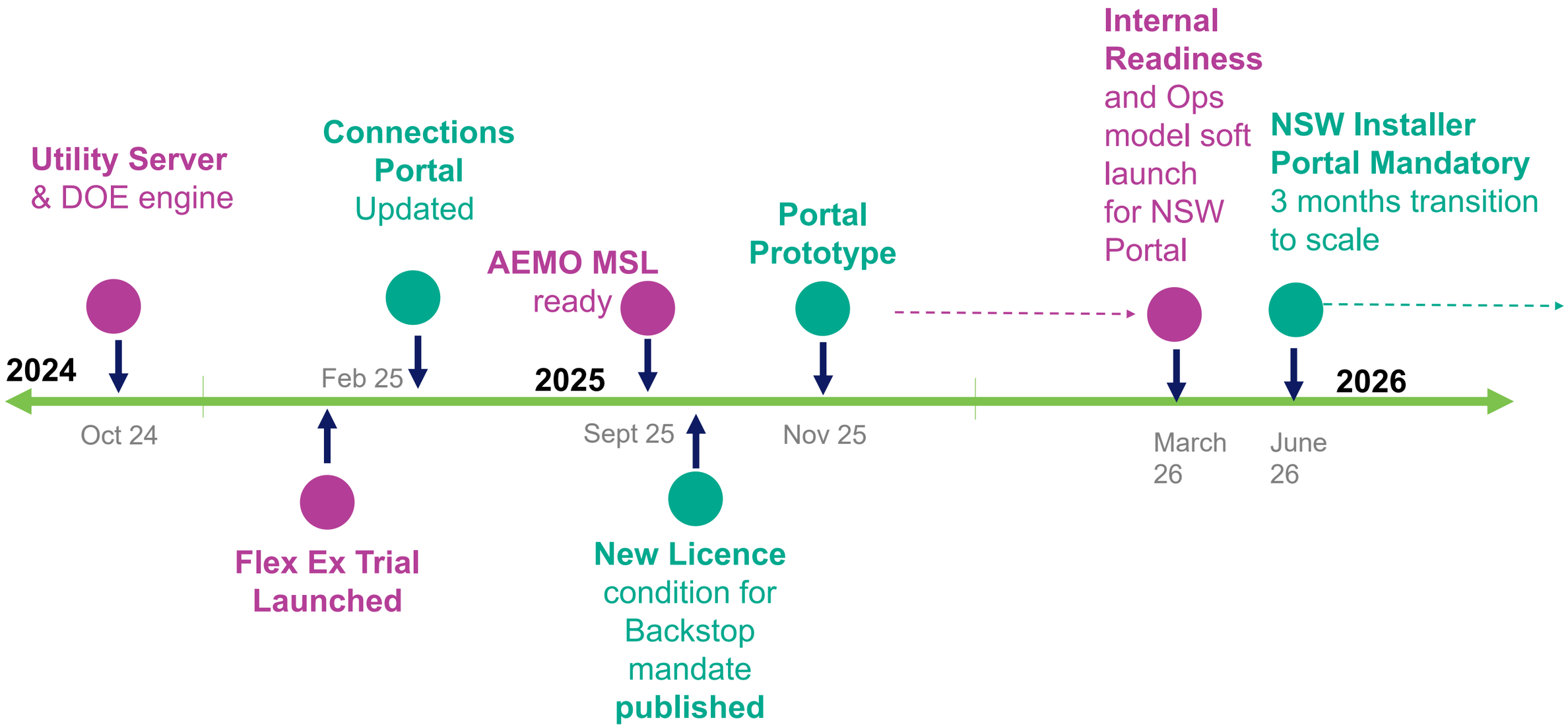


Endeavour Energy

What is coming



Endeavour Energy

Endeavour Energy

Questions

POWER together

ASP Scheme Review

Markus Meier-Linder
Manager, ASP Scheme

POWER together

Intended audience: ASP 1, 2, 3
11am – 11:30am

The ASP Assessment Team

- Vanessa Frazer, Team Leader
- Michelle Wheatley, Assessment Officer
- Rochelle Ziino, Assessment Officer
- Roisin O'Leary, Assessment Officer
- Rabeya Sharna, Assessment Officer

The ASP Review Project Team

- Markus Meier-Lindner, Manager
- Mario Sousa, Senior Technical Advisor
- Michael Brull, Senior Policy Officer
- Laura Chung, Senior Project Officer
- Wazhma O’Nassiry, Assistant Project Officer

- Both teams merged into one since 1 July 2025

34 recommendations - what do they cover?

- Regulatory changes, e.g., to the Scheme Rules
- Training & safety requirements
- Updating of classes within accreditation levels
- Implementation of an online platform
- Improved information sharing across key stakeholders
- Improved communications across the sector
- Improved processes utilising current and contemporary technology and practices

What are we up to?

Completed

- Rec 1 - Energy Scheme Administration at DCCEEW/ECCS
- Rec 3 - NSW Government Funding for Modernising the Scheme Administration Platform
- Rec 4 - Share a unique identifier to speed up employee registrations
- Rec 32 - Establishment of an Advisory Body
- Rec 24 - Enhancing Coordination of Regulatory Activities with the NSW Building Commission and SafeWork

What are we up to?

Completed continued

- Rec 30 - Establishing a 4-Year Review Cycle & Rec 31 - schedule reviews of training requirements (NB: These items will be addressed through a transition into a cycle of continuous improvement rather than longer periodical reviews)
- Rec 34 - Introduce regular reporting (NB: regular reporting is already conducted internally, this item is more about finetuning and better communication/sharing with external stakeholders)

What are we up to?

In Progress

- Rec 2 - Enhancing Administration Platform
- Rec 6 - Regular Communications for Scheme Participants
- Rec 10 - Implementing Continued Access to Competent Principals for ASPs
- Rec 11 - Efficient Procedure for Associating Registered Employees (RAs) with a Company
- Rec 18 - Enhancing Database for DNSPs to Access Employee Information
- Various Recommendations to address regulatory changes including updating the Scheme Rules

The ASP Scheme Advisory Committee

- Set up permanently for the ASP Scheme
- Has 12 members representing all key stakeholder groups
- Plays a pivotal role through providing expert industry advice and guidance
- Supports a transition into a cycle of continuous improvement once the Review Project is completed
- Has met 3 times

Working Groups

Working Groups under the ASP Scheme Advisory Committee:

- Sub-Transmission & L3 Qualifications
- Tiger Tails
- Metering
- Vegetation Management
- Asset Relocation

Future ASP Online Platform

Platform is now under development

- Development and testing is planned to be completed before Christmas
- We will be seeking volunteers of all levels and areas of the sector to help with testing
- “Soft” go-live and onboarding planned from early 2026

Endeavour Energy

Questions

POWER together

Standards updates

Amali Wickramasinghe
Lead Engineer - Mains

POWER together

Intended audience: ASP 1, 2, 3
11:30am – 12pm

Agenda

Standards update/Process of issuing a change management pack for major standard updates

- MCI0010
- MDI0028
- MDI0051
- MCI0006
- MCI0003
- MCI0004
- SDI182
- SDI223
- ETS0052
- ETS 00103

New Equipment Introduction

- Community Batteries/ LVSTAT com/EV charges/EFDs- Awareness
- Multifunction Poles/New cable types/conductors/ Non SF6 switchgear/XGuard Conduits – New Trials

Opportunities for Improvement

- Clarifications and Question Time

Key Highlights – MCI0010 Underground Transmission Mains Construction

New Construction Standard for Sub-Transmission U/G Works (33kV, 66kV, and 132kV)

A new construction standard has been developed to cover all underground (U/G) sub-transmission works at 33kV, 66kV, and 132kV voltage levels. This standard is MCI0010, which consolidates key content from the following sources:

- Transmission Specification – commonly used by EE PMO
- TB 0345 – Spare sub-transmission duct design
    - Detailed transmission U/G construction requirements including Joint bays/ Trenching/Pits(coms and earthing)/Cable jointing/sheath bonding etc.
    - Approved Materials List – including cables, joints, and Link Boxes
    - Detailed Drawings – covering trench cross-sections and joint bay layouts

All transmission mains construction works must be inspected in accordance with the following Inspection and Test Plans (ITPs): Appendix –Inspection and Test Plans

1. ITP 1 – Trenching, Conduit Installation and Backfilling
2. ITP 2 – Cable Installation
3. ITP 3 – Cable Jointing
4. ITP 4 – Joint Bay Filling and Restoration

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Key changes – MDI0028 Underground Distribution Network Design

New clause 3.6.1 Stratum Subdivisions

New clause 3.17 Ground batteries

New clause 3.18 Electric Vehicle Charging Provisioning

New clause 3.19 Innovation

Revision to clause 4.6 Supplies to multi-dwelling strata developments relating to utilisation of existing under-utilised padmount/indoor substations in close proximity

Revision to Clause 4.10In residential subdivisions where streetlight columns are located adjacent to residential lots the use of enlarged base streetlight columns (in lieu of slimline columns) should be applied to allow provision for future service connections provided the streetlight columns are interspersed between pillars and not cascaded.

New clause 6.14 Distribution Substation Monitoring

Inclusion of requirement for switching stations where HV interconnections are required to address footprint limitations with our 3-feeder design which has been impacted by switchgear availability due to the future transition to non SF6 (TB0354).

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Key changes – MDI0051 Transmission Underground Design

New Clause 4.1/4.2 detailing requirements for project Design Brief , specifying minimum design documentation to be submitted for projects

New Clause 4.7.3 outlining requirement for inclusion of distributed temperature sensing (DTS) conduits for all future 132kV conduit installations.

New Clauses 4.7.4 and 4.7.5 providing additional requirements for spare conduits, conduit bends, and consideration of feeder ratings.

New Clause 4.8.1/4.9/4.10 providing additional requirements for trench alignments and associated drawing, along with notifications, detail for cable trench profiles and site access requirements.

Clause 4.11 expanded detail for separation between adjacent cable circuits /Table 4 - clearances to assets of other utilities, revised to align with current requirements.

Clause 4.16 numerous minor changes to requirements for joint bay and pit design and earthing requirements including updates to dimensions and other criteria in Tables 5 thru 7 and fully revised joint bay design drawing.

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Key changes – MCI0006 Underground Distribution Construction

Clause 2.6 updated to require for all contestable works projects ASPs to provide evidence that supporting structures such as fire walls and retaining walls that are required to allow the electricity works to be located at a site are included in the council submission (as part of the Development Application under part 4 of the Environmental Planning and Assessment Act).

Clause 3.2.4 added to provide instructions on abandoned paper insulated cables left in the ground.

Clause 3.2.9 Introduced the requirement that underground LV, service and street light cables shall be mechanically protected for the first 3 metres up the pole.

Clause 4.4.2.1 ‘Mechanical Protection of Road Crossing Conduits’ has been added to provide clear guidance on this scenario.

Clause 5.2.1 ‘Location of Pillars’ revised to provide greater clarification of requirements near driveways.

Clause 5.4 ‘Service Connections’ revised to clarify detailed connection requirements for new and existing service pillars.

Clause 5.7.4 additional wording to clarify that ‘new’ service mains must be continuous (no joins or connections in between) in line with NSW Wiring Rules.

Additional or amended stock code information has been included.

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New equipment introduction

Community Batteries/ LVSTAT com/EV charges/EFDs/Fire mesh on timber poles/Dsub monitors

(Not required to be in new designs, just for awareness)

POWER together

New Equipment/Apparatus

LV Statcoms – a type of LV voltage regulator, improving quality of supply for customers especially in the presence of solar PV.

For a loss of network supply the LV Statcom will automatically disconnect from the network via an internal contactor in accordance with AS4777.

Early Fault Detectors (EFDs) are a network monitoring technology designed to detect primary equipment defects prior to them resulting in functional equipment failure, now be installed in Distribution and transmission poles.

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New Equipment/Apparatus

Pole Mounted Batteries

Ground Mounted Batteries

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New Equipment/Apparatus

Padmount Based EV Charger – Compliant with AS/NZS 3000 wiring rules and access to padmount doors maintained.

Pole Mounted EV Chargers – Compliant with AS/NZS 3000 wiring rules and clearances to OH maintained.

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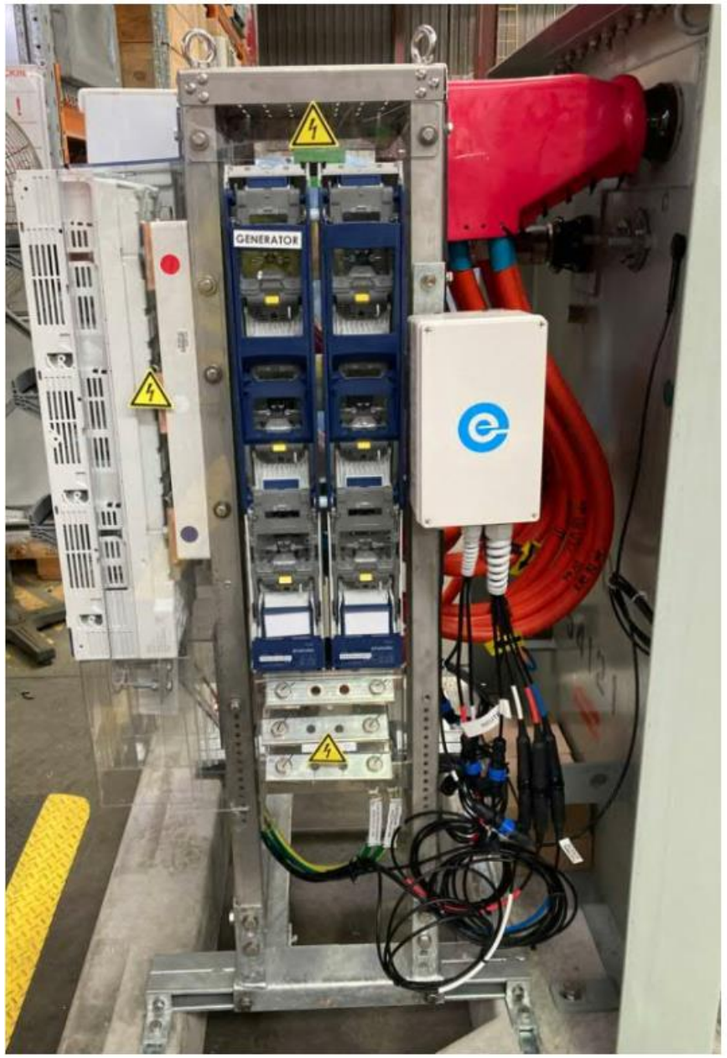
New Equipment/Apparatus



Dsub Monitors

Will soon come fitted in all new padmount substations.

No change in process for ASPs installing these padmounts.

Construction Coordinators will commission the monitor after padmount is electrically commissioned.

Fire Mesh

Fire mesh wraps around timber poles in bush fire vulnerable areas will be common as there is a program to install these.

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New equipment introduction

Multifunction poles,
Non SF6 switchgear(LBSs/RMUs)
High-capacity conductors and cables

(Products in Trial stage – Communications will be issued in due course)

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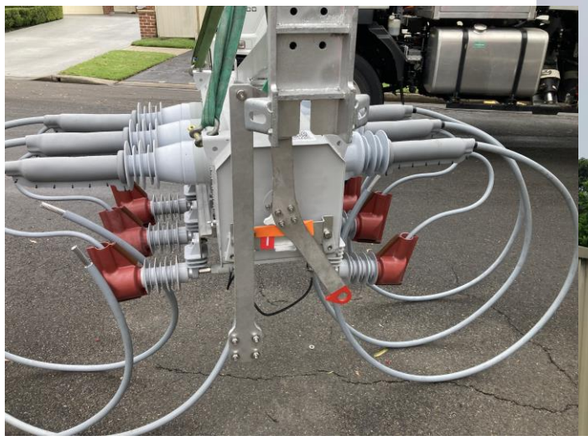
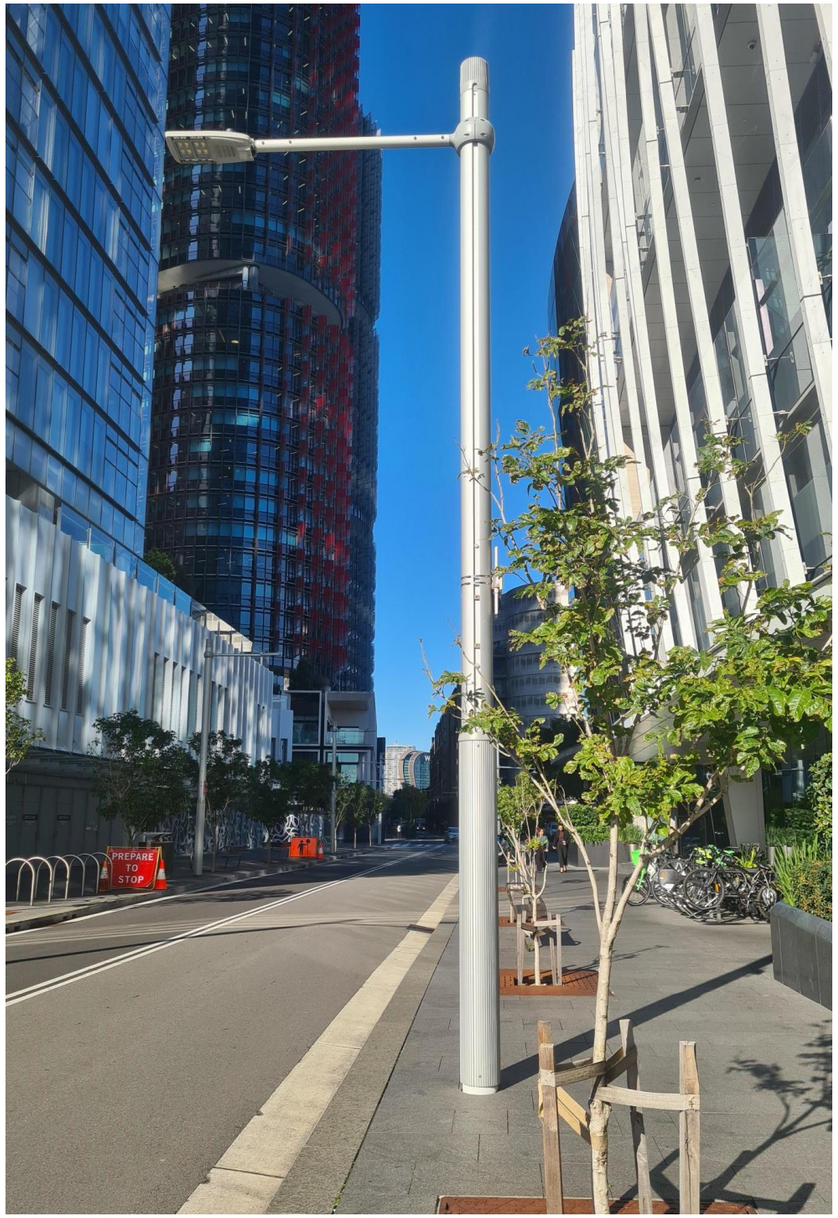


Non SF6 LBSs



Multi Function Poles/Columns

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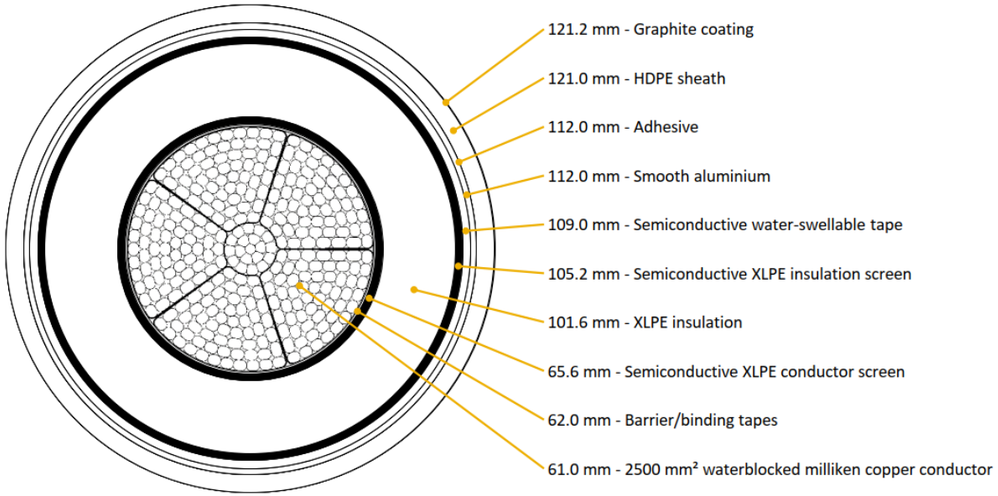
Energy

High-Capacity Cables(2500mm2 and SAS) and Conductors(HTLS) for transmission feeders

2500 mm² WBCu 76/132 kV XLPE/SAS/HDPE/GC



Nominal cable diameter:	121.2 mm
Approximate cable mass:	32 kg/m

The ACCC® SOLUTION

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Opportunities for Improvement

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Opportunities for Improvement / Clarifications / Questions?

The requirement of a steel plinth for padmount substations with Siemens automated RMU?

The requirement for a steel plinth for padmount substations with Siemens automated RMUs is outlined in TB0314, which generally explains that a galvanised steel plinth is required when automated Siemens RMUs are used. However, SDI210, the Substation Design Instruction for Siemens RMUs, will be updated this year to clear up any ambiguities

On new version of MCI0006, the thickness of concrete protection layer for cables and conduits installed in easements have been reduced from 75mm to 50mm compared to previous version of MCI0006? Drawing 060862 has been updated to align with the 50mm concrete protection layer.

Clarification on EE requirements relating to under-bore construction will be confirmed by a Technical Bulletin (TB) or by amending ETS 0081 soon.

Opportunities for Improvement / Clarifications / Questions?

Technical Bulletins (TBs):We appreciate the feedback regarding the issue of technical bulletins as interim updates to standards and the impact this has on readability of some of our standards where multiple TBs have been issued.

We are introducing ‘minor amendments’ as a way of reducing the number of technical bulletins issued. Minor amendments will be issued when a standard requires update and it has undergone a full revision/amendment in recent years. For minor amendments the relevant clause change will be in the document itself and flagged in grey within the document and it will be listed in a minor amendments table at the front of the document - and the document amendment number will increase as a decimal point ie. go from 4.0 to 4.1 for example.

We may still need to publish technical bulletins for older standards where a change is necessary but there is insufficient time to do a full revision of the document. We appreciate this is not ideal but need to balance priorities of assessing and introducing new equipment as the industry continues to evolve at a rapid pace.

Opportunities for Improvement / Clarifications / Questions?

AS/NZ Draft Standards for Comment" where proposed network standards have been available for comment and input by ASPs.S 1158.4:2024 - Updated Pedestrian Crossing Lighting Standard ? The lower wattage is currently under review for the AEMO load table, with results expected in 8 weeks. Endeavour Energy is working on approving these standards for the AML before tariffs are raised, to provide ASPs with something to use in their designs. (ETA for complete approval: January 2026)

“Draft Standards for Comment" where proposed network standards have been available for comment and input by ASPs. There have been updated / new standards placed in the Standards portal that have not been available for input comment by ASPs. Is the "Draft Standards for Comment" section redundant; or has Endeavour Energy stopped this process?

When amending standards that significantly impact ASPs, these changes are generally communicated through CNS and other channels. For example, during the ASP seminar in 2023, major changes to MDI0031 were presented. For such impactful standards, we often allow a transition window. All other standards and specifications are shared with CNS as part of the consultation process, and ASPs are welcome to provide any comments via the CNS team for our consideration.

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Questions

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Lunch break

Please re-join us at 12:30pm

POWER together

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Safety

Riley Bryn
Public Safety Manager

Tony Vellio
Customer Delivery Manager

POWER together

Intended audience: ASP 3
12:30pm – 1pm

Introduction

Since 2001 there have been over 150 fatalities in Australia and New Zealand involving contact with powerlines or underground cables.

90% of electrical fatalities are a result of contact with overhead powerlines.

On average across Australia there are 6 powerline related deaths per year.

Endeavour Energy

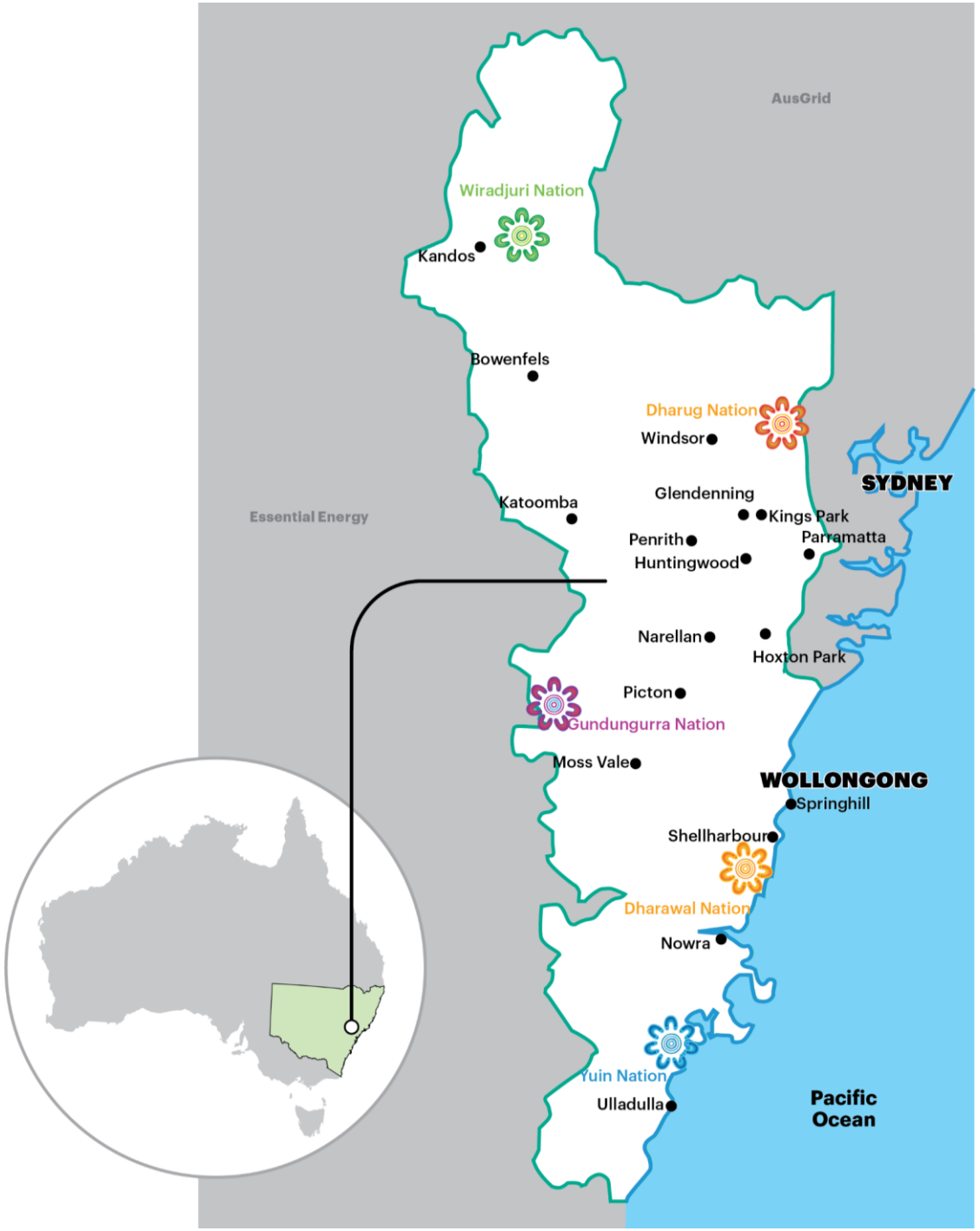
Endeavour Energy Network Coverage

Our network spans 24,800 square kms and is made up of more than 185 major substations, 416,000 power poles and 32,000 smaller substations connected by 47,000 kms (more than the distance from Sydney to London and back) of underground and overhead cables.

Endeavour Energy services the high growth regions of NSW, with the population of Greater Western Sydney forecast to grow approximately by almost one million people by 2031.

Our franchise area includes the Northwest and Southwest priority growth areas of Sydney which will see 500,000 new residents over 30 years.

These priority growth areas are the result of the biggest coordinated land release in NSW's history.



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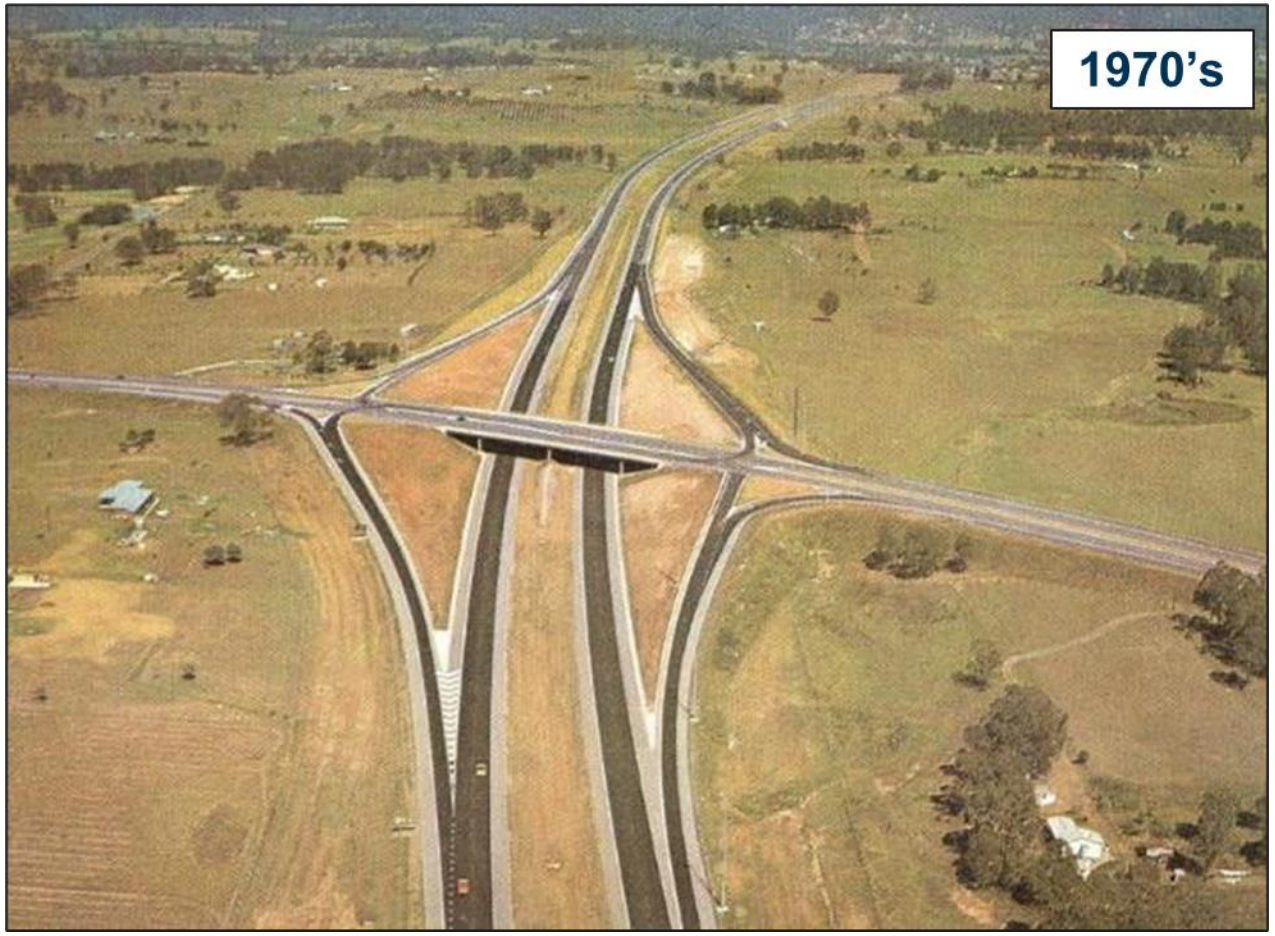
Urban Expansion

Western Sydney and other surrounding areas within Endeavour Energy's franchise area are undergoing major infrastructure development, asset relocation and urban expansion as a result of increased government funding and the establishment of the new Western Sydney Airport.

Despite ongoing public safety initiatives and awareness campaigns, there is an increased trend that can be observed in overhead and underground asset strikes.

Endeavour Energy's statistics are directly related to the higher volume of worker activity within our franchise area.



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Underground Cable Strikes

~50 – 60

Underground cable strikes reported per year on average

- Backhoes
- Excavators
- Piling rigs
- Power saws
- Star Stakes
- Fence Posts

This literally equates to an event every week that had the potential to cause death and/or serious injury.

In FY24 excavation incidents cost almost customers ~$2.5M in outage related impact.

Endeavour Energy

Overhead Conductor Strikes

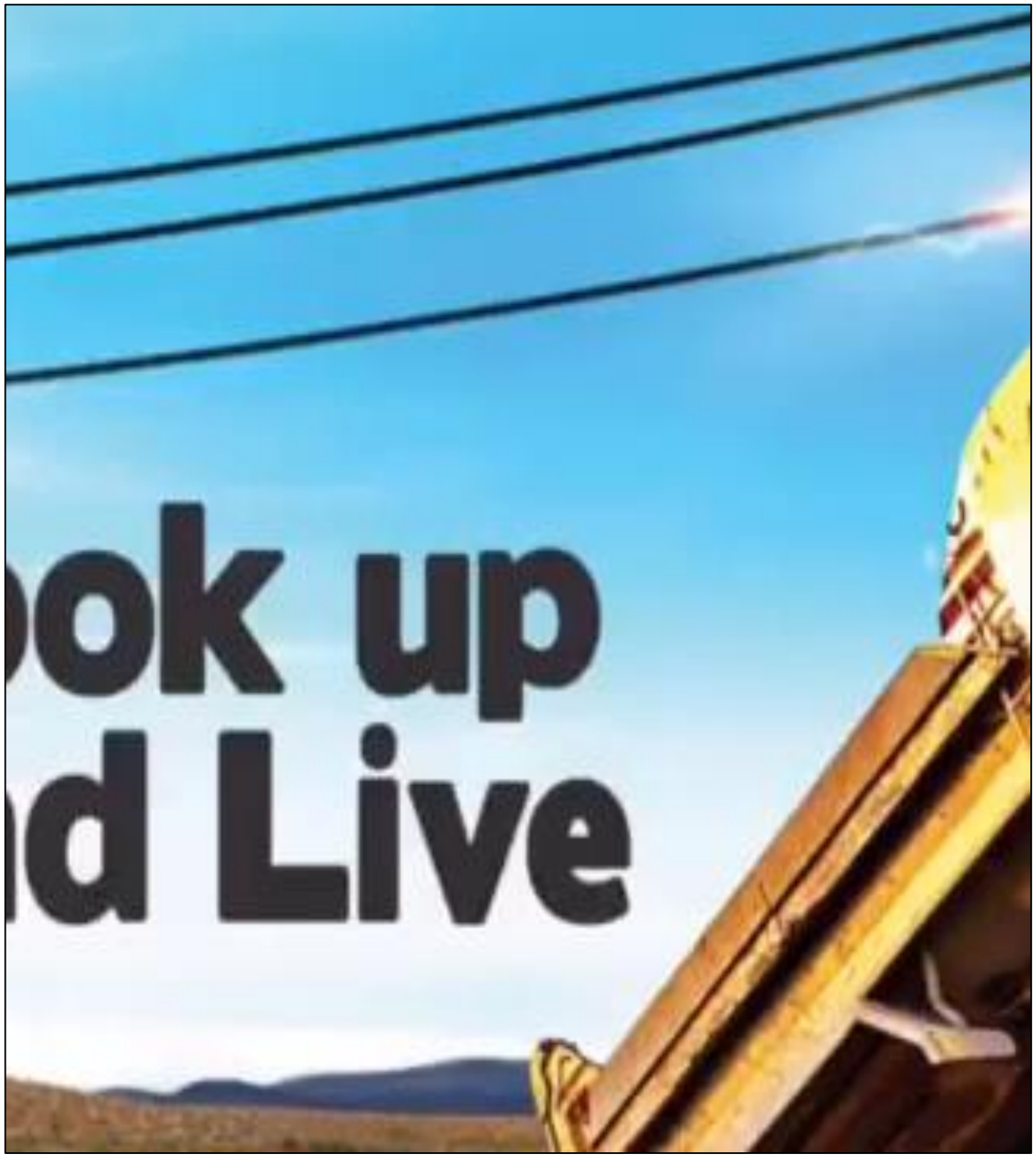
~200 - 250

Overhead conductor strikes reported per year on average

- Over-height transport and logistics
- Cranes and hiabs
- Tippers
- Garbage trucks
- Farming and agricultural equipment

This almost equates to an event every weekday that had the potential to cause death and/or serious injury.

In FY24 powerline incidents cost customers over $10M in outage related impact.



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Civil Industries

In NSW, civil constriction is increasing year on year.

Plant contact is a frequent event due to inadequate vehicle movement plans and height limitations on work sites.

Waste Management

Public Interaction

~300 - 350

General public interactions reported per year on average

- Fallen conductors
- Vehicle impacts
- Vandalism and deliberate damage
- Unauthorised access
- Construction activity

This almost equates to an event every day that had the potential to cause death and/or serious injury.

Endeavour Energy

Vehicle impacts

Power poles and pillars continue to be impacted across our network ranging in severity and consequence.

Often when poles are impacted there can be fallen powerlines, reduced clearances and hazards that may be not immediately visible.

It is critical to assess the situation before rushing in to assist and provide help.

Endeavour Energy

Asset Strikes

Endeavour Energy

Fallen Trees

One of the biggest activities on our network is the management of overgrown trees and fallen vegetation on our powerlines.

Often this will cause significant power outages, result in fallen powerlines and potentially cause bushfires in heavily dense vegetation areas.

Endeavour Energy

Fallen Powerlines

Fallen powerlines can be deadly.

They can be damaged by fallen trees, lightning strikes, car accidents, vandalism, fires, birds or other animals and flying debris during high winds.

Never approach fallen powerlines. Keep at least 8 metres away from them and anything they may be touching such as trees and fences as there may be a risk of touch or step potential voltage.

Stay, Call and Wait

Endeavour Energy

Touch Potential

Touch potential refers to how you touch an object that has been electrified by a downed power line or any conductor of electricity.

The electrical current flowing through the object enters your body through your hand and leaves through your feet, causing damage to your internal organs.

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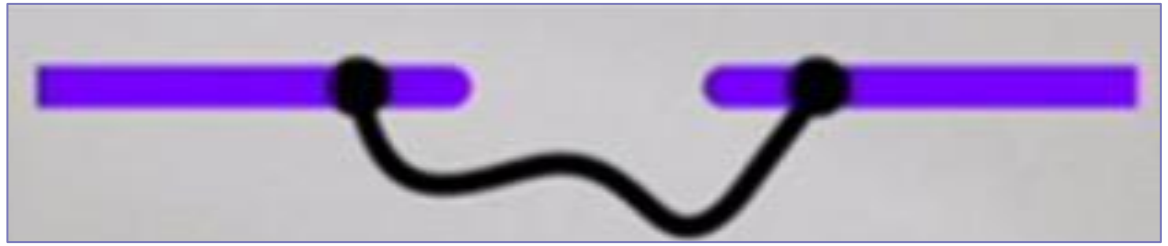
Transfer Potential

A transferred potential (or voltage) is defined as a touch voltage scenario where a voltage is transferred through a conductive medium making a return path to the source.

Examples may include copper water pipes, metallic services, etc.

It is critical to ensure that when making or breaking conductive materials in the ground or metallic pipework, to ‘bridge the gap’ and avoid the current flowing through your body.



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What can we do about it?

Aerial Markers

There are alternative visual markers available which have been adapted from the aviation industry that provide effective warning to workers onsite with a wind powered rotating aerial device.

A mix of tiger tails, bunting, signage and rota-markers can be used and effectively draws attention to the overhead powerlines.

Energy QLD have reported a large uptake in the installation of these markers and a significant reduction in overhead powerline strikes (~75%).

These markers are available in NSW and will become more commonly used on construction and agricultural sites.

Endeavour Energy


AZKEEN

How can we plan and prepare for underground assets?

Before You Dig Australia

The most effective way to prevent an incident is to be prepared for the site conditions and have the relevant site drawings.

Before penetrating the ground, understand what may be underneath you.

Just because you can't see anything, doesn’t mean it isn’t there!

Across Endeavour Energy’s network there are over **16,000kms** of underground cables.

We partner with BYDA and share their core vision to prevent injury and reduce damage to our members’ infrastructure assets.

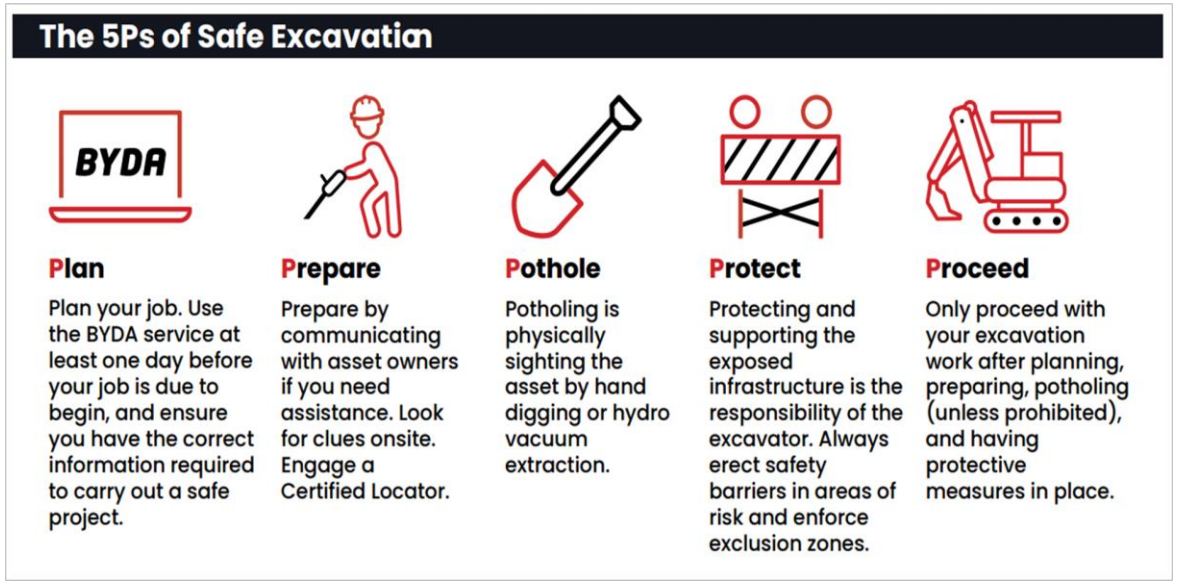
BEFORE YOU DIG
www.byda.com.au
Zero Damage - Zero Harm

Endeavour Energy

Planning/Preparation is critical!

Never attempt to touch or access electrical assets and equipment, please contact Endeavour Energy for advice and further support onsite.

Following the Five Ps of Safe Excavation guidelines can ensure the right steps are taken:



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Planning/Preparation is critical!

Ensure you are familiar with the site and comprehensively inspect the areas.

Understand any plant/equipment limitations, movements and mobilisation across the site.

Obtain contact details for asset owners and follow all safe work practices and guidance.

Look UP and check for powerlines, Look DOWN and search for markings, assets, evidence of trenching, pits, covers, etc.

Maintain 600mm from underground power cables when using powered excavation.

Refer to Safe Work NSW – Work Near Underground Assets Guide

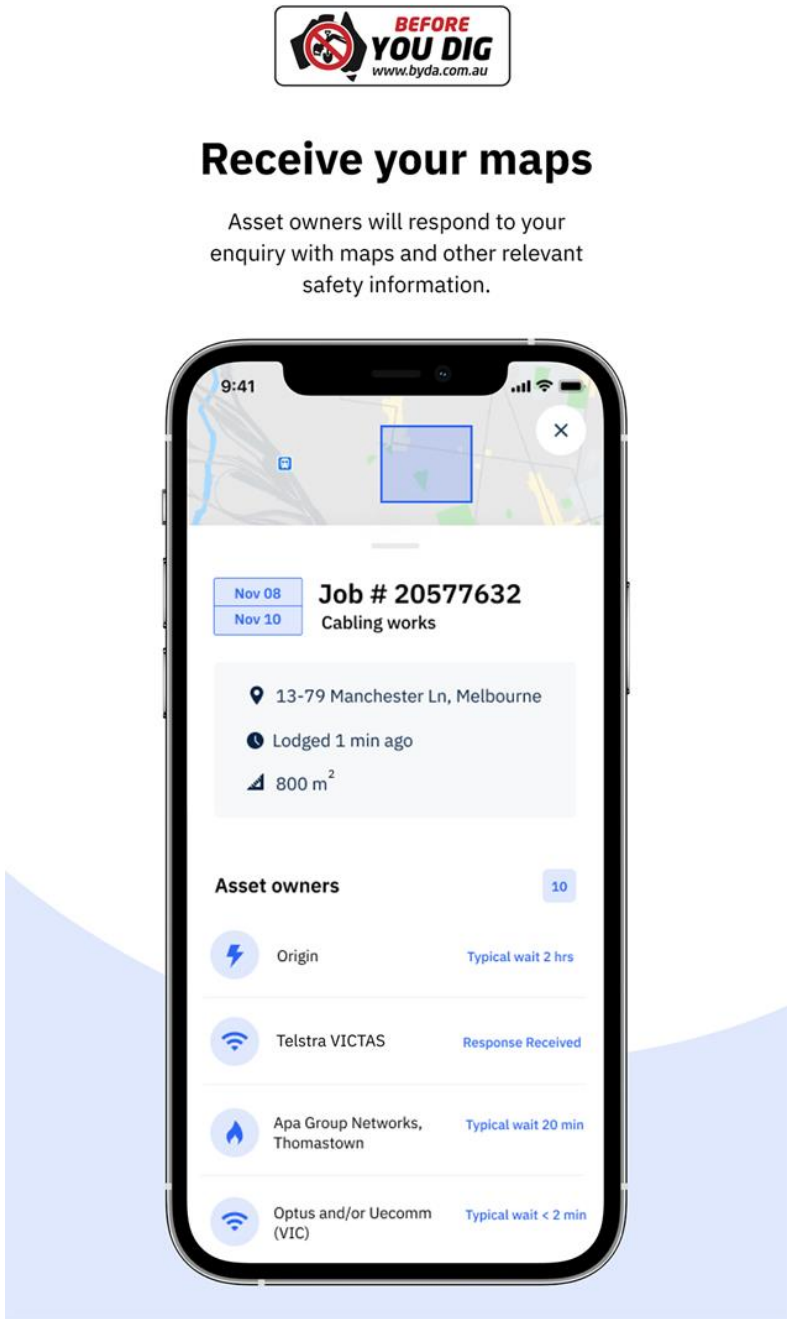
Endeavour Energy

Planning/Preparation is critical!

In NSW, the penalty for interference with electricity or gas works has been doubled to $22,000 for individuals and $440,000 for corporations.

In addition, you might receive a jail sentence of up to 5 years for causing interference with gas or electrical services.

Obtaining a BYDA referral is legislated for all critical infrastructure.



Endeavour Energy

How can we plan and prepare for powerlines?

Look Up and Live

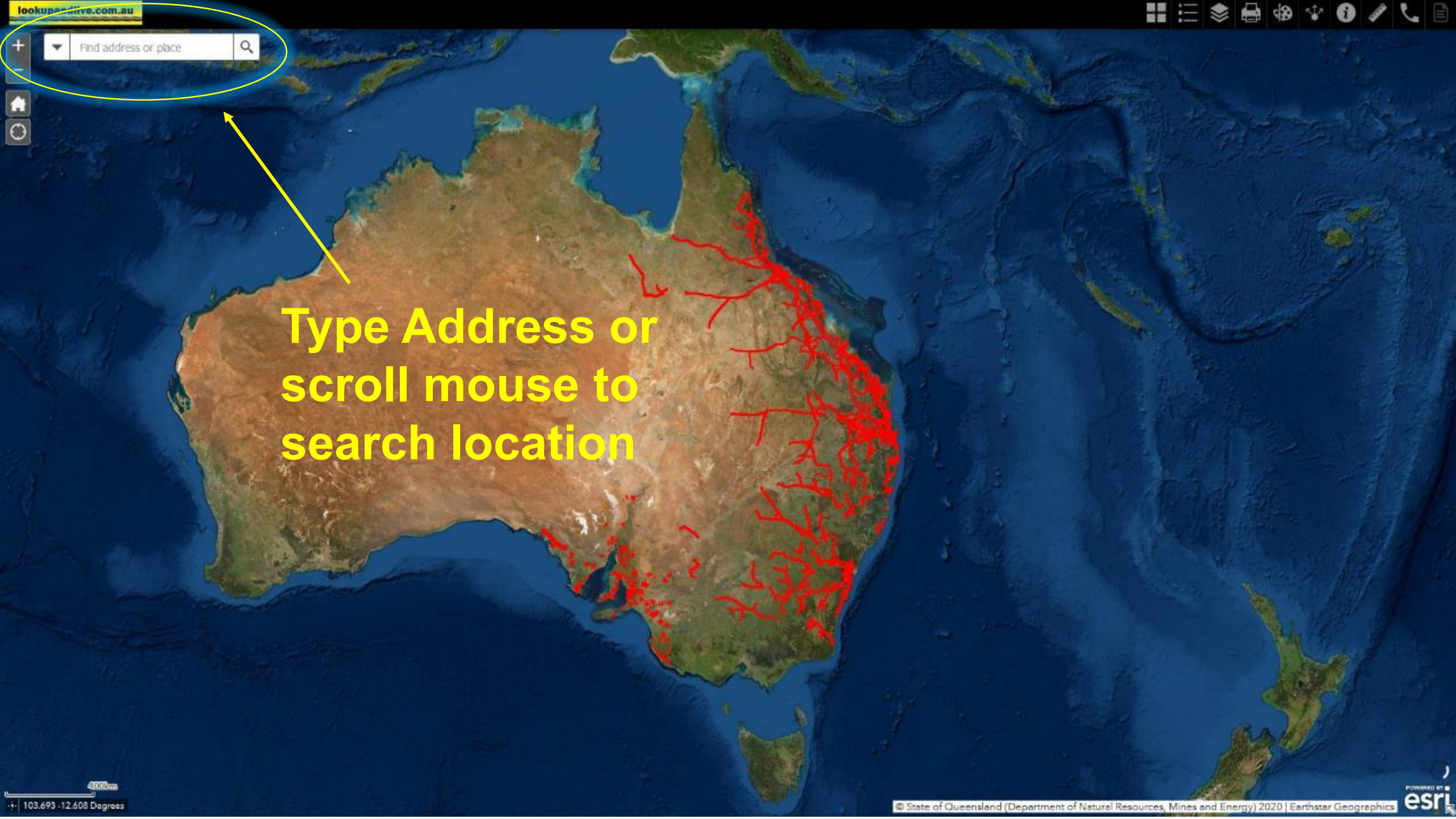
The most effective way to prevent an incident is to be prepared for the site conditions.

Before mobilising to site and operating plant or equipment, take the time to look up and inspect for powerlines and other overhead services.

Ensure you are familiar with the operating heights of your machinery, assess travel routes and know the safe approach distance to powerlines.

We have partnered with the creators of ‘Look Up And Live’ (Energy QLD) and other Electricity Utilities by providing access to our Powerline network data for customers to be able to utilise the Powerline safety planning tool.


Look up and Live
Powerline Safety at your fingertips
Download on the App Store
GET IT ON Google Play
9:30
Powerline Review
Look up and Live Map
Exclusion Zone
Safety Advice
Your Industry
Contact with Powerlines
Structures
Powerline Markers
Transporting High Load
Trees and Powerlines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Type Address or scroll mouse to search location
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103.693 -12.608 Degrees
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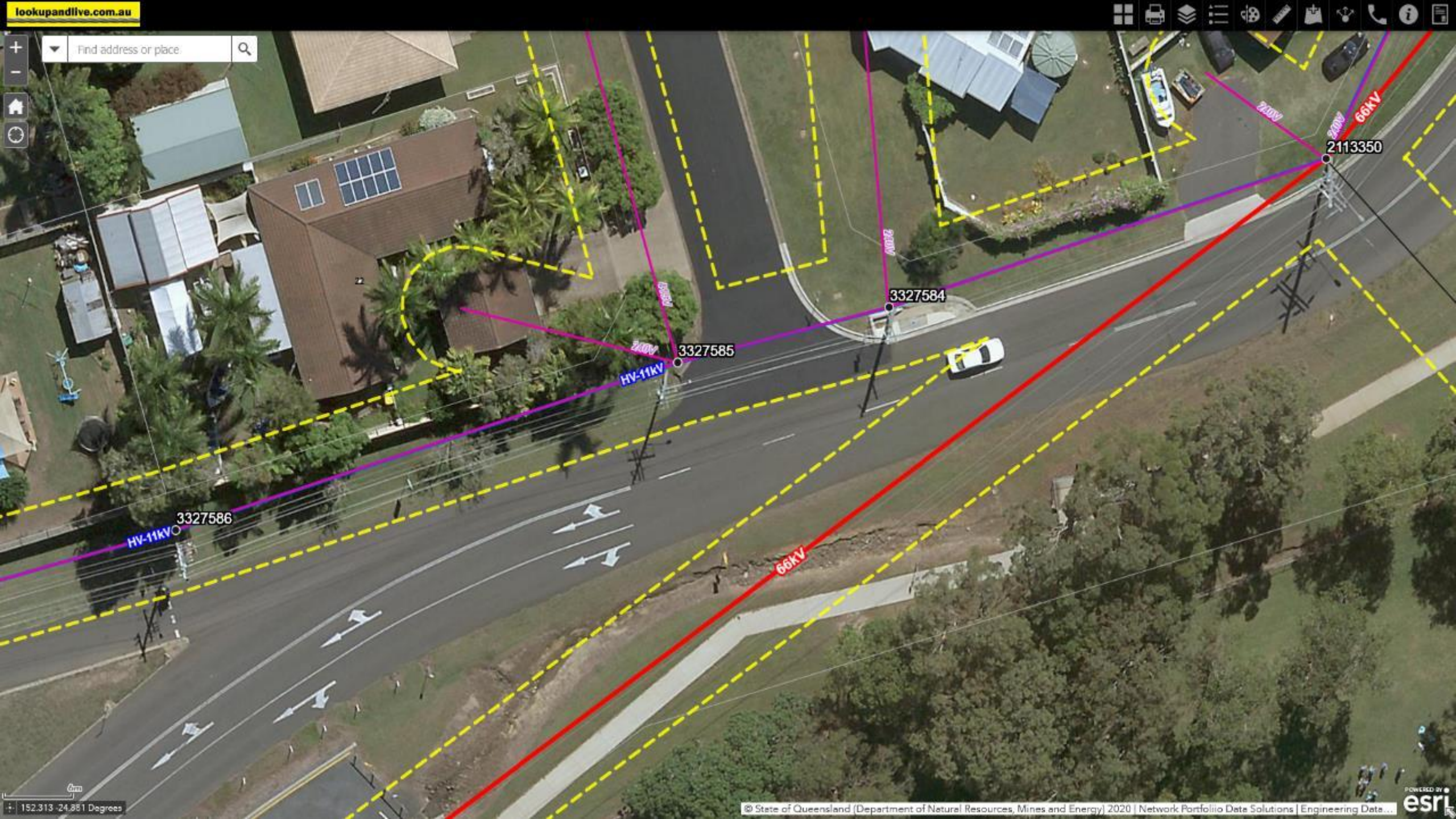
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Show search results for mackay...
Click on powerline to see more information
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HV-11KV
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50644
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Conductors HV: 7979
Span Type: 33kV
Endeavoury Energy Links
Request Safety Advice Form
NSW Work Near Overhead Powerlines Code of Practice
High Load Information Sheet
DBYD Enquiry
Endeavour Energy
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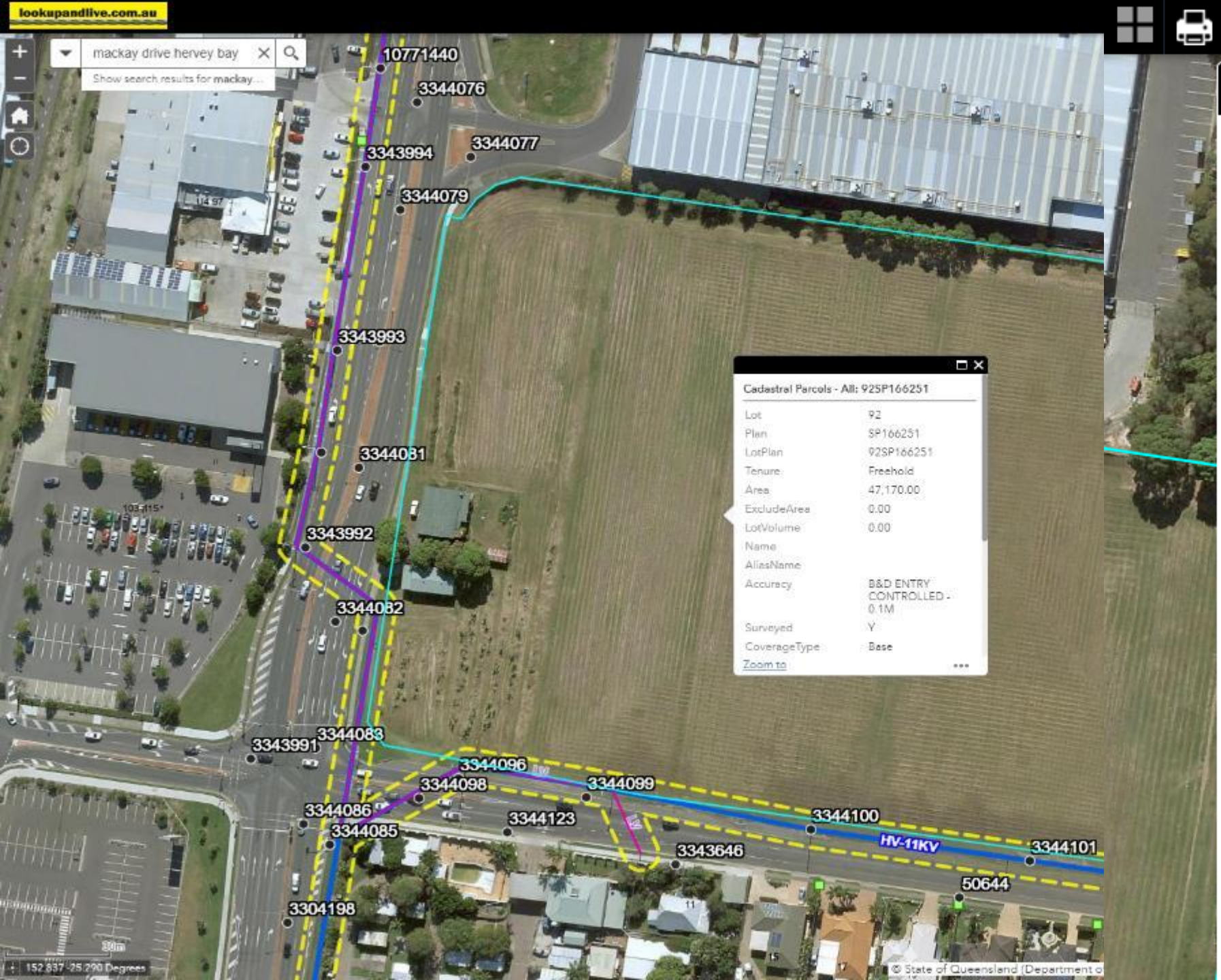


Print

Map title: Look Up and Live Map

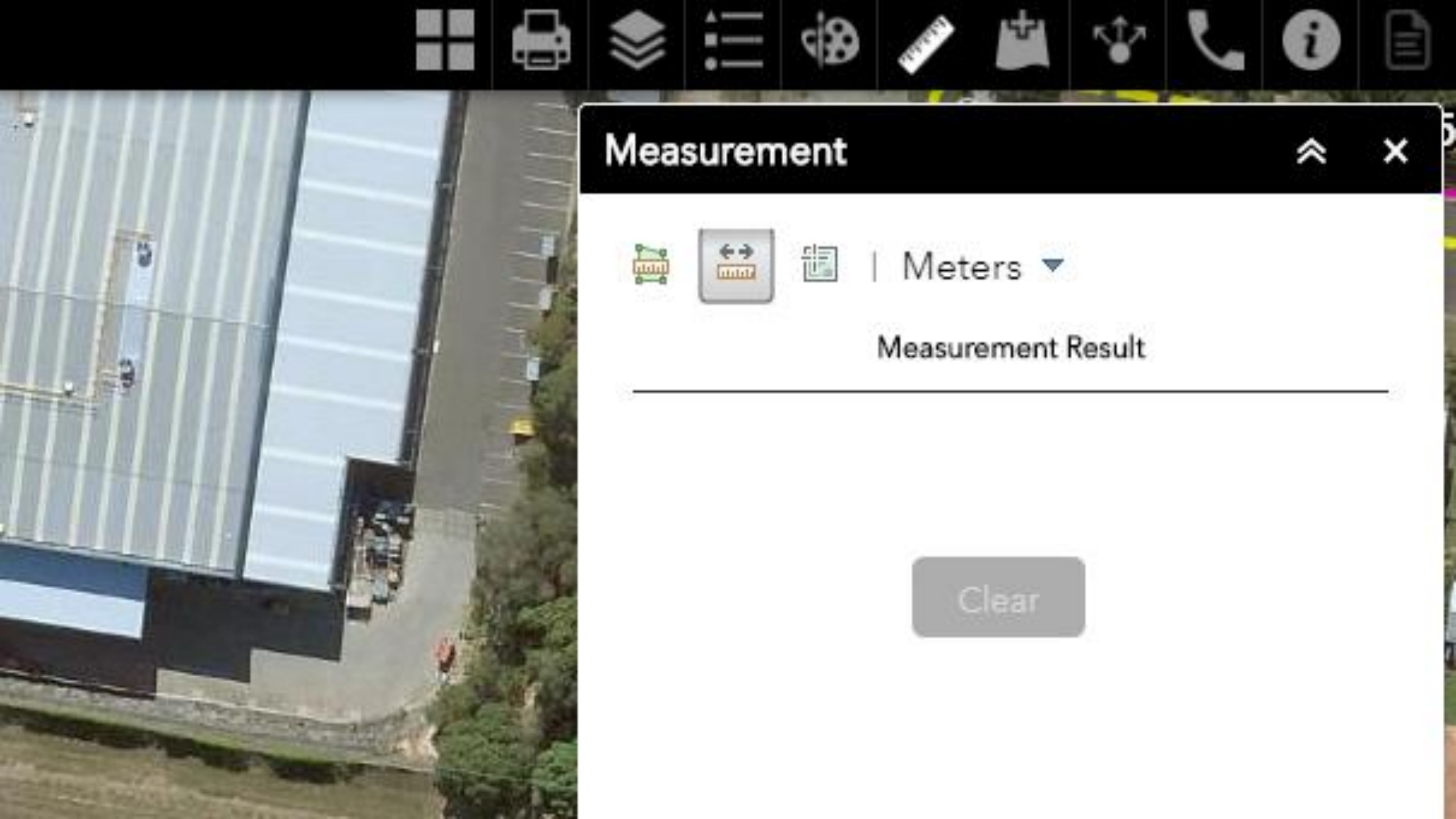
Layout: A4 Landscape

Format: PDF

Advanced | Print

1. Look Up and Live Map

Clear prints


Measurement
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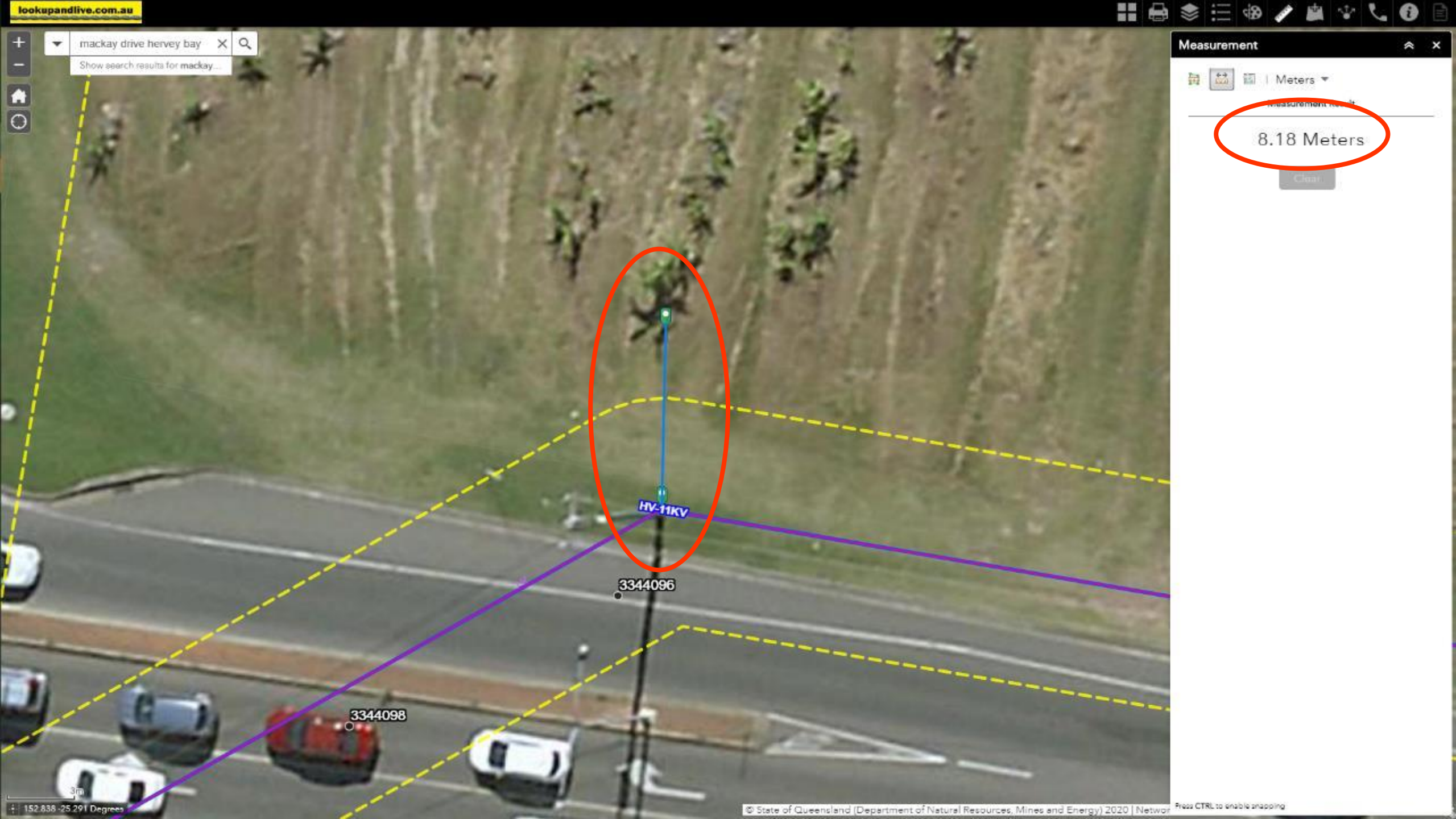
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Press CTRL to enable snapping

Disclaimer

lookupandlive.com.au

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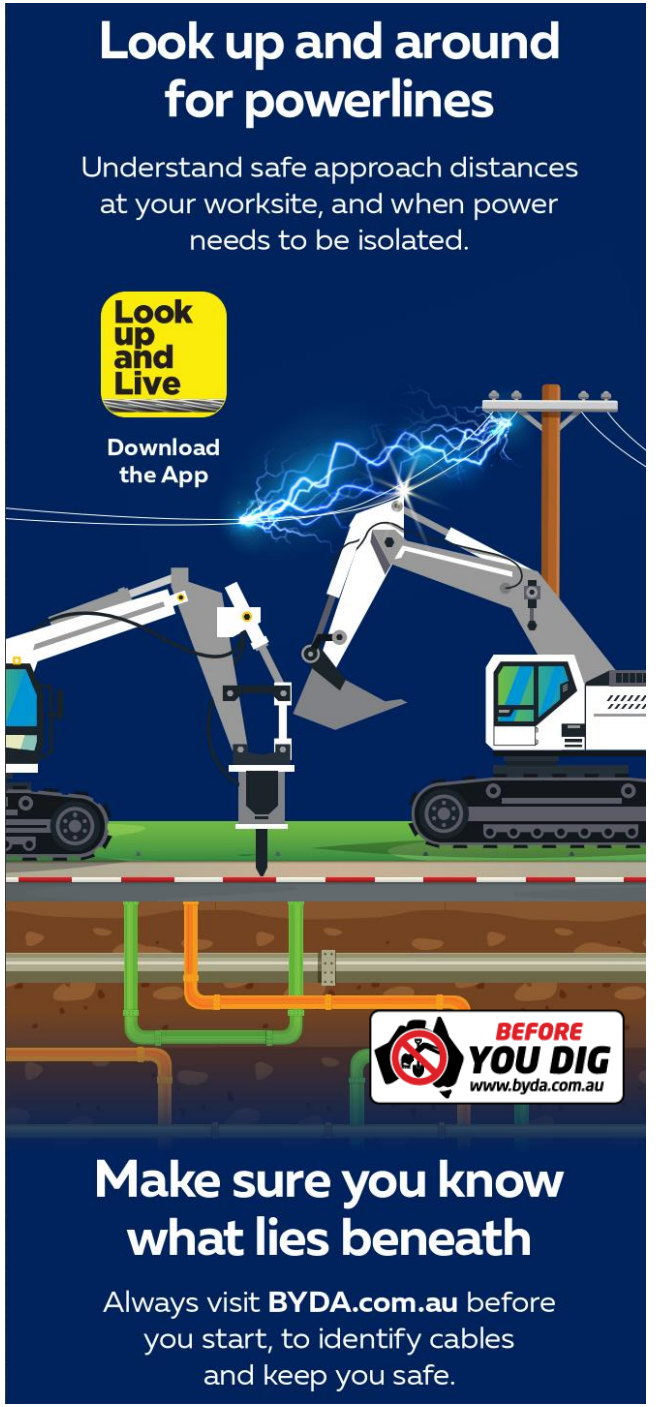
GET IT ON Google Play

Disclaimer

The Look up and Live map is an interactive geospatial map that has been developed to display the Energex, Ergon Energy, Endeavour Energy, Essential Energy, SA Power Networks and Powerlink electricity networks, including sourced third party information.

Key Messages

- Planning and preparation are fundamental steps – *Have a plan*
- Use a Safety Observer and Maintain Safe Approach Distances at all times
- Have the courage to speak and the character to listen. *If you see something that doesn't look quite right, speak up – it may just save a life!*



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Edmondson Park (July 2023)

An ASP was completing a HV STJ in an excavation at Edmonson Park that had ignited a consumer gas main, resulting in burns to one of their workers as well as damage to tools, private property, and parts of the network. Endeavour Energy staff were near the work site and responded; rescuing the worker, providing first aid and calling for additional assistance.

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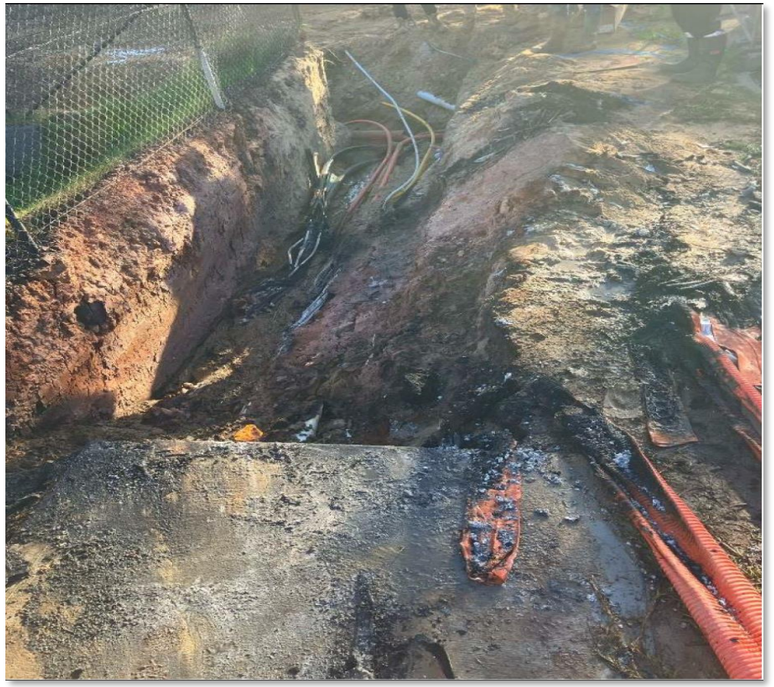
Austral (May 2025)

A Level 1 ASP was conducting jointing works under Access Authority (AA) conditions when an adjacent gas main leaked further along the joint bay. During hot works, the gas ignited and caused an explosion.



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ASP1’s working on our network

ASP’s responsibility

Ensure current BYDA relevant to the works being undertaken is submitted to Construction Coordinator as part of Project commencement notification.

Identify Gas detection measures to have in place whilst working around Gas assets via risk assessment & SWMS .

CC’s responsibility

Review L1ASP project commencement paperwork to ensure current copy of BYDA is valid for the proposed worksite & review site risks with ASP at initial site meeting.

Recommend the use of appropriate Gas detection while working in open trenching as “best practice”

Ensure Gas detection & mitigation measures are in use for any jointing works around Gas assets under outage conditions. This could be a combination of isolation, safety observer, mechanical protection and gas detection.

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What is a confined space?

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Confined Spaces

If you suspect a worksite may be deemed a confined space, do not enter the area and contact your manager / WHS Business Partner.

A confined space may be an enclosed or partially enclosed space that is not designed or intended primarily for human occupancy, with a risk of one or more of the following:

- an oxygen concentration outside the safe range,
- airborne contaminants that may cause injury or death,
- flammable airborne contaminant that may cause injury from fire or explosion,
- engulfment in a stored free-flowing solid or a rising level of liquid that may cause suffocation or drowning.

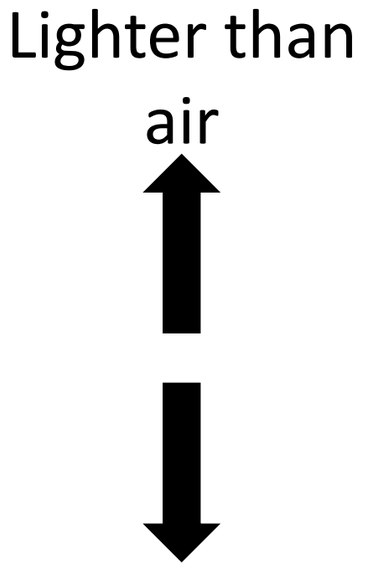
Evacuation Exemption

From the NSW Confined Spaces Code of Practice: ‘Trenches are not considered confined spaces based on the risk of structural collapse alone, but will be confined spaces if they potentially contain concentrations of airborne contaminants that may cause impairment, loss of consciousness or asphyxiation’. Therefore, continuous monitoring is best practice.

Further guidance on excavation safety is available in the NSW Excavation Work Code of Practice July 2015.

Weights of various gases

Gas	Specific Gravity - *SG* -
Hydrogen	0.0696
Helium - He	0.138
Methane - CH4	0.5537
Natural Gas (typical)	0.60 - 0.70
Carbon monoxide - CO	0.9667
Air	1.000
Hydrogen sulphide - H2S	1.1763
Carbon dioxide - CO2	1.5189
Propane - C3H8	1.5219
Ozone	1.660
Butane - C4H10	2.0061
Pentane	2.487
Sulphur Hexafluoride` (SF6)	5.114



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Managing site conditions

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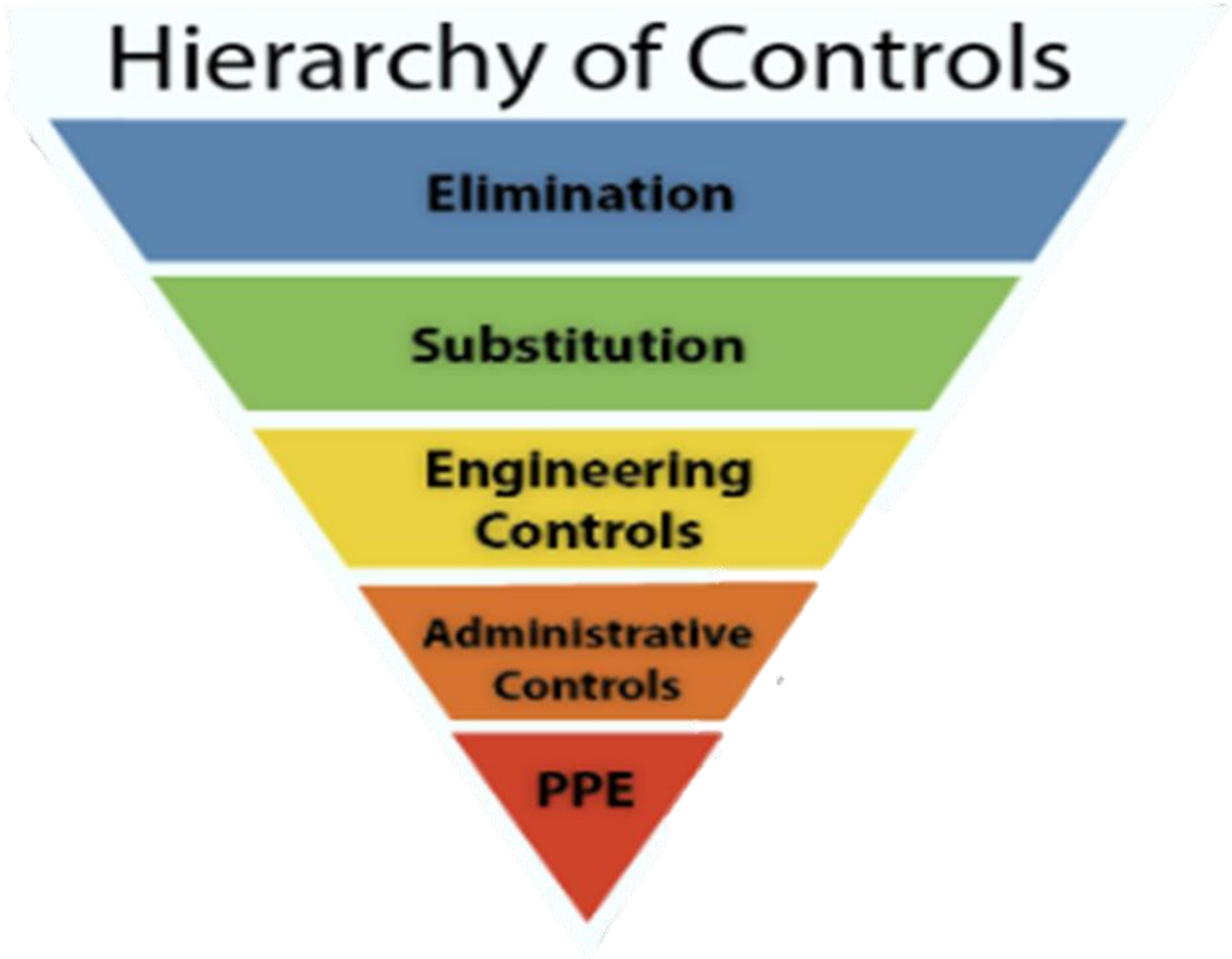
L1ASP & CC Responsibility



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Examples of mechanical protection

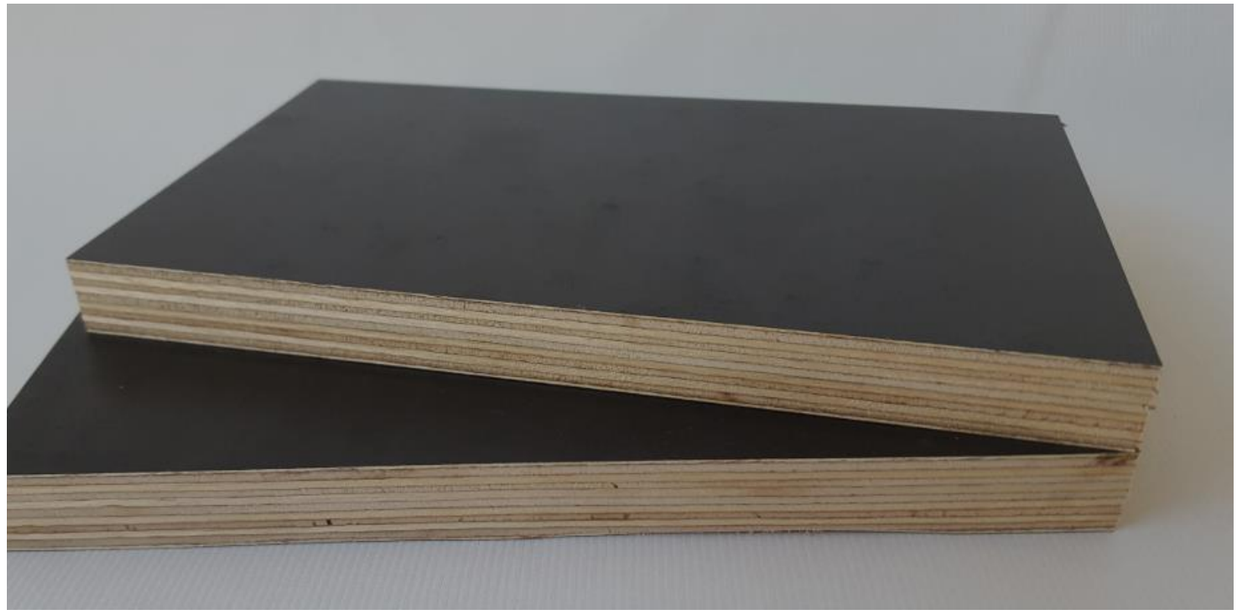
Fireproof mats

Welding, Cutting, Grinding, Brazing & Other 'Hot' Work'

Annexure A: Suggested uses for 1 metre square welding cloth in trench

Use this method when mains is against the trench wall near bottom

Physical barrier to separate assets - avoiding damage or inadvertent contact



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Moving Forward

SafeWork NSW has engaged with Endeavour Energy and Jemena to form a working group to further understand the risks and control moving forward when hot works are performed in trenches that contain shared assets.

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Questions

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ASP Submission Validation App

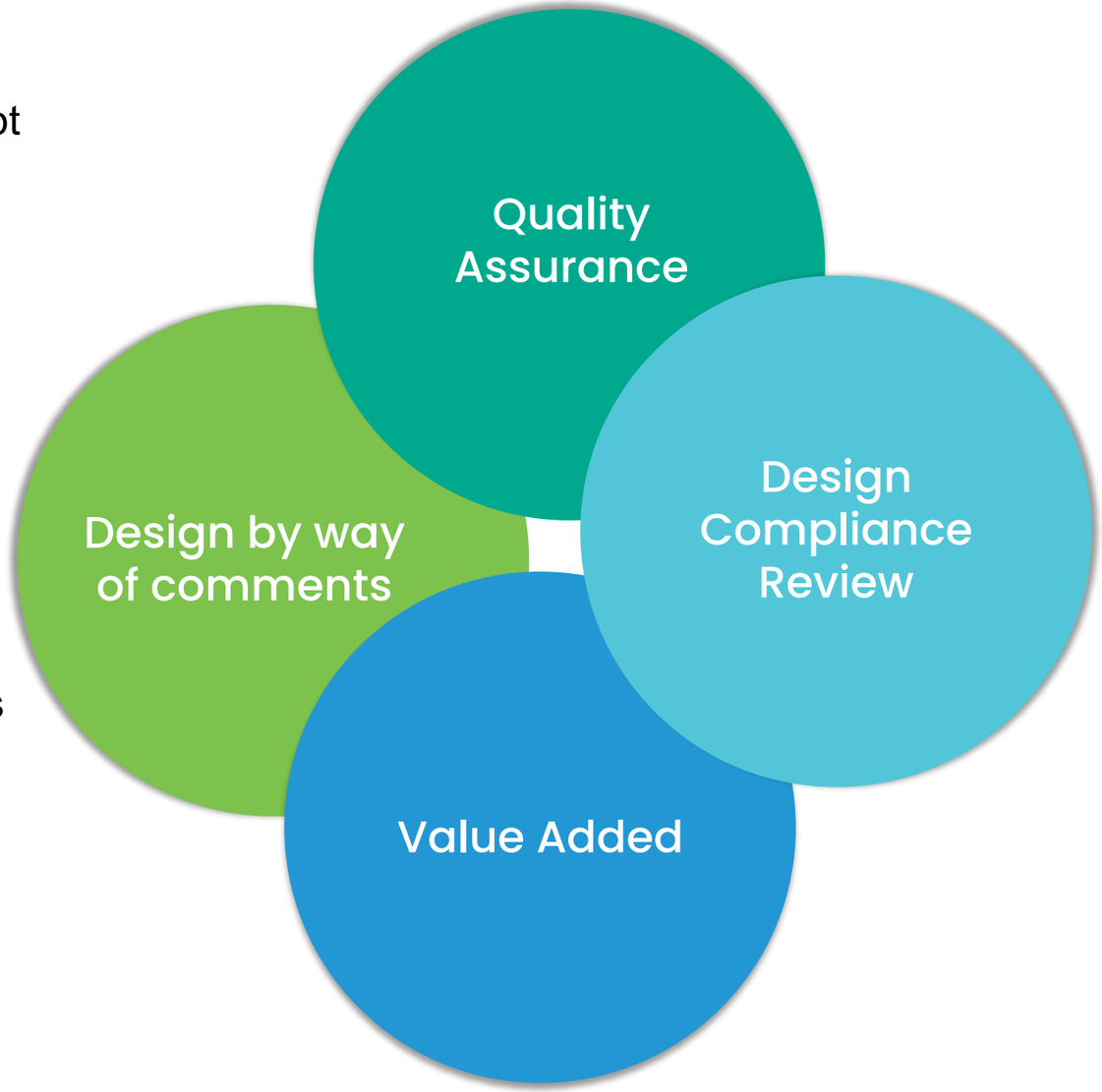
Jonathan Lei
Customer Connections Manager

POWER together

Intended audience: ASP 3
1pm – 1:30pm

Why we built the App

- Continuation of the journey of minimum design requirements concept
- Opportunity to embrace technology and AI in our design review process
- Start small – automate TAL submission checks as proof of concept
- TAL chosen because:
  - Known pain point
  - Accuracy of Asset Data plays an important role in critical business process
  - Incorrect data can cause ADMS model discrepancies and outage risks - project delivery risk
  - Our vision to reduce admin tasks, create capacity for engineers to perform high-value work, and improve customer service



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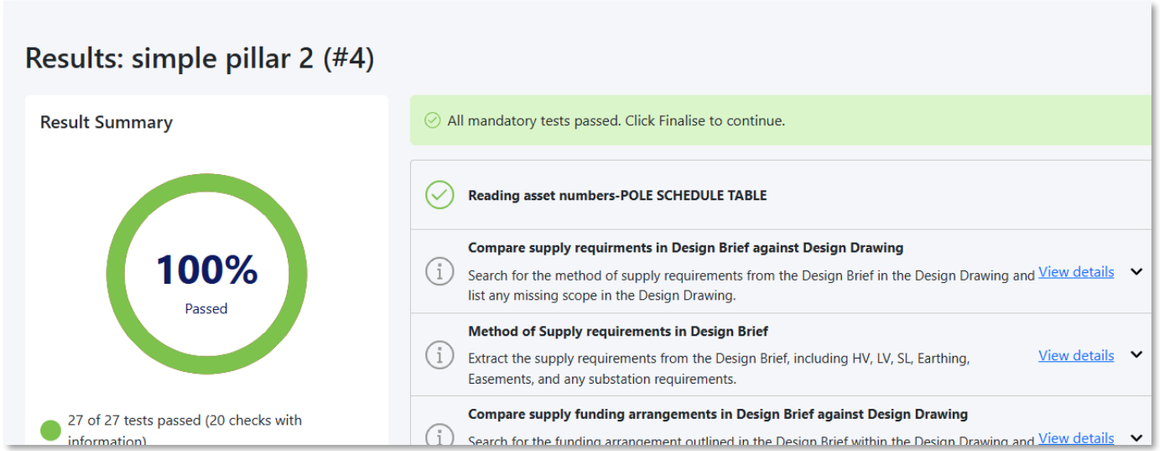
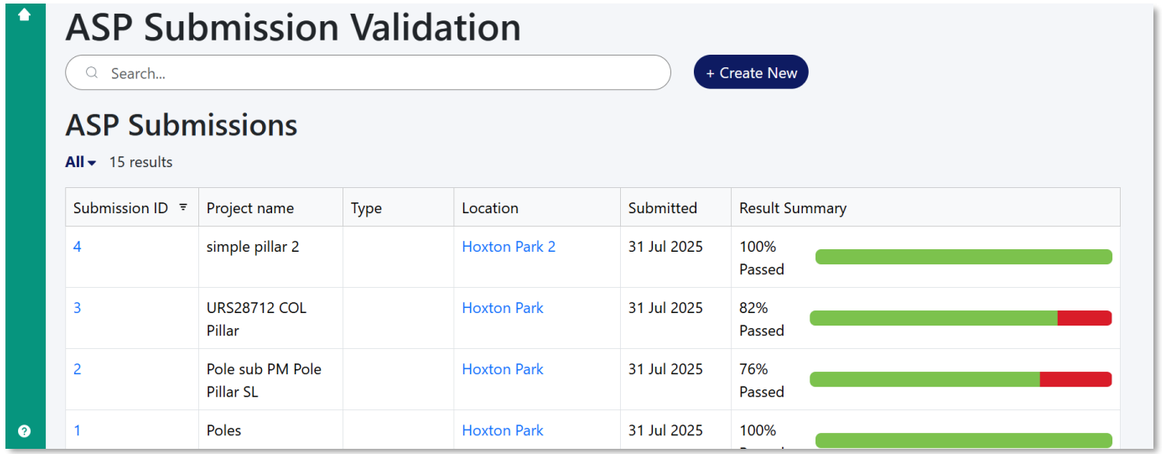
What the App is & what does it do

- AI assistant for Customer Network Engineers (CNEs) Create design submission and upload design documents
- Runs automated checks to support ASP design and TAL submission review
- Key features: extract information from design submission documents and perform across check and mandatory fields checks.
- Highlights issues and critical errors, provide indications of quality of TAL submission.
- Help our engineers to work more efficiently and smarter.





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Cross check example

Submission #2

Reading asset numbers-POLE SCHEDULE TABLE

AI to read the asset numbers for new poles in the POLE SCHEDULE TABLE is consistent with TAL [View details] and the rest of design drawing.

1 entries failed. 1 missing in Pole Schedule Table: 1000757.

Pole number 1000757 exist in TAL but is missing in pole schedule table. This asset number may not be used in the design.

J	K	L	M	
Poles				
Functional Location	POLE01000756	POLE01000757	POLE01000758	P
Reference Functional Location	POLEPOLE0001	POLEPOLE0001	POLEPOLE0001	P
Flag for Deletion (Mark as 'X')				
Proposed Removed Equipment Number				
Assembly				
Functional Location	ASSM00711654	ASSM00711655	ASSM00711656	A
Reference Functional Location	ASSMPOLE0001	ASSMPOLE0001	ASSMPOLE0001	A
Flag for Deletion (Mark as 'X')				
ASSM Plate Number (Sort Field)				
Superior Functional Location	POLE01000756	POLE01000756	POLE01000757	P
FLOC Construction Type	HV OH Assembly - Crossarm Type - Bare	LV OH Assembly - Xarm Type - ABC	HV OH Assembly - Crossarm Type - Bare	L
FLOC Technical Object Type				
Location	Nowra Field Service Centre	Nowra Field Service Centre	Nowra Field Service Centre	N

FIELD POLE NUMBER		LANTERNS						CONSTRUCTION			HOLE		POLE							
NEW	EXISTING	NEW	REMOVE	EXISTING	REPLACE	BRACKET	MOUNTING HEIGHT (m)	SPAN LENGTH	LINE DEV DEGREES	HV	LV	DIA mm	DEPTH m	TYPE	STAY	FOOTING	RELOCATE	REPLACE	NEW	EXISTING	REMOVE	NUMBER
1000778	3011163				X			-	-		A05	600	1.85	M8C-12.5-16/8		C		X				48
1000758	3011162				X			64	29		A03 + A03	600	1.85	M9C-12.5-24/12		C		X				47
	EBT058							24	52		A03	EX	EX	12.5/8kN						X		46
	3991738			X				53	-	B21 (EX)	A01 + A05	EX	EX	M8C-12.5-16/8						X		45
1011504	3002355							48	-		LUGOH + B05	600	1.85	M6C-11-24-12				X				44
	3999768																				X	43
	3111119																				X	42
	EBT119																				X	41
	3991740			X				44	2	B21 (EX)	A03	EX	EX	M8C-12.5-16/8						X		40
1000777	EBT074							42	-	HUGOH + B25	LUGOH + A05	900	2.00	14/12kN		C		X				39
	EBT067																				X	38
	3987327																				X	37A
	EBT072																				X	37
	3930019																				X	36
	3911869																				X	35
	3911868																				X	34
	EBV137																				X	33
	3996729																				X	32
1001490								-	-	HREC-BB (DRW 332022) (11kV AUTO RECLOSER NORJA TYPE OSM 15)		600	1.85	12.5/8kN		C		X				31
1000772								-	-	HUGOH + B25	LUGOH + A05	900	2.00	14/12kN		C		X				30
1000771								30	4	B24	A03	900	1.85	M9C-12.5-24/12		C		X				29
1000770								64	10	B24	A03	900	2.00	M12C-12.5-40/20		C		X				28
1000769								28	3	B24 + LSUB-BB (DRW 240931)	B05 + A05 + LSUB-AB (DRW 240933)	900	1.85	M9C-12.5-24/12		C		X				27
1000768		X				B4	10.5	20	10	B23 + B25	A03 + A05	900	1.85	M9C-12.5-24/12		C		X				26
	EBV138																				X	25
1000767								18	-	HUGOH + B25	A01 + LUGOH	900	2.00	14/12kN		C		X				24
1000766								79	10		A01	900	1.70	M6C-11-24-12		C		X				23
1000765								76	-		A01	900	1.70	M6C-11-24-12		C		X				22
1000764								71	-		A05	900	1.70	M6C-11-24-12		C		X				21
	3953321																				X	20
	EBV133																				X	19
	3902682																				X	18
	3902929																				X	17
	EBV129	X																			X	16
	3911198																				X	15
	EBV128																				X	14
	EBV093																				X	13
	3911197																				X	12
	EBV094																				X	11
1000763								60	-		A05			M8C-12.5-16/8		C		X				10
1000762								60	-	HUGOH + B25	LUGOH + A03	900	2.00	14/12kN		C		X				9
	3942529																				X	8
1000761								59	1	B23 + HSUB (DRW 240931)	A03 + LSUB (DRW 240933)	900	1.85	M9C-12.5-24/12		C		X				7
	3907573																				X	6
1000760	3942530							71	24	B23 B25	A03	900	1.85	M9C-12.5-24/12		C		X				5
	3766252																				X	4
1000759								36	11	B24	A03	900	2.00	M12C-12.5-40/20		C		X				3
1000756								52	30	B24	A03	900	1.70	M6C-11-24-12		C		X				2
	EBV094							30	-	B24	A03	EX	EX	EX						X		1

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Format check example

Validation of "POLE" - Assembly Number detail

Ensure that the Superior Function Location matches the Functional Location in the top tab

View details

1 entries failed. Assemblies without corresponding data: {'Assembly - Functional Location': 'ASSM00746983', 'Assembly - Superior Functional Location': 'POLE1011504'}

Poles			
Functional Location			
Reference Functional Location			
Flag for Deletion (Mark as 'X')			
Assembly			
Functional Location	ASSM00718097	ASSM00720925	ASSM00746983
Reference Functional Location	ASSMPOLE0001	ASSMPOLE0001	ASSMPOLE0001
Flag for Deletion (Mark as 'X')	X		
ASSM Plate Number (Sort Field)			
Superior Functional Location	POLE01001237	POLE01001490	POLE1011504
FLOC Construction Type	LV OH Assembly - Xarm Type - ABC		
FLOC Technical Object Type			
Location	Nowra Field Service Centre	Nowra Field Service Centre	Nowra Field Service Centre
Network General Characteristics			
Urban	No		

This superior functional location does not correspond to the Functional Location on the top

Poles	
Functional Location	POLE01011504
Reference Functional Location	POLEP E0001
Flag for Deletion (Mark as 'X')	
Pole Plate Number (Sort Field)	PL1011504
Superior Functional Location	
FLOC Construction Type	
FLOC Technical Object Type	Structure Pole
Location	Nowra Field Service Centre

"0" infront of "1" is missing

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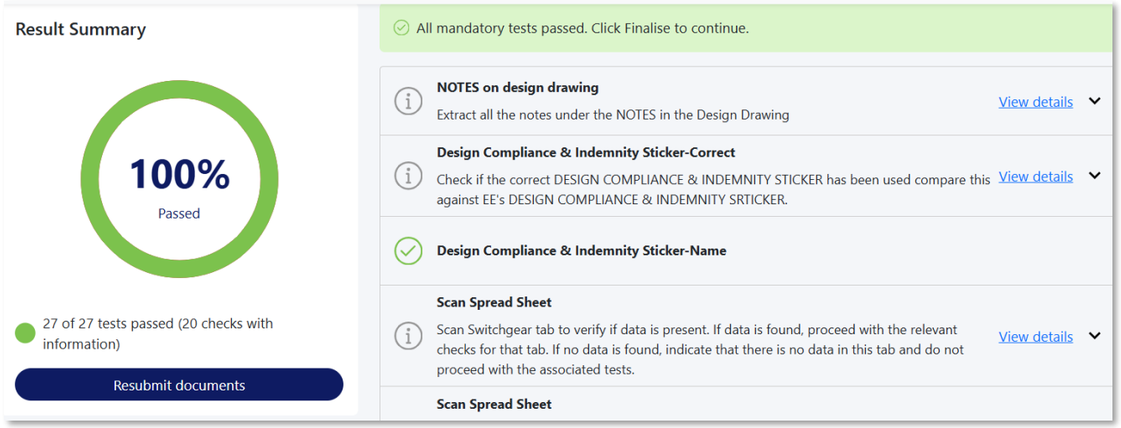
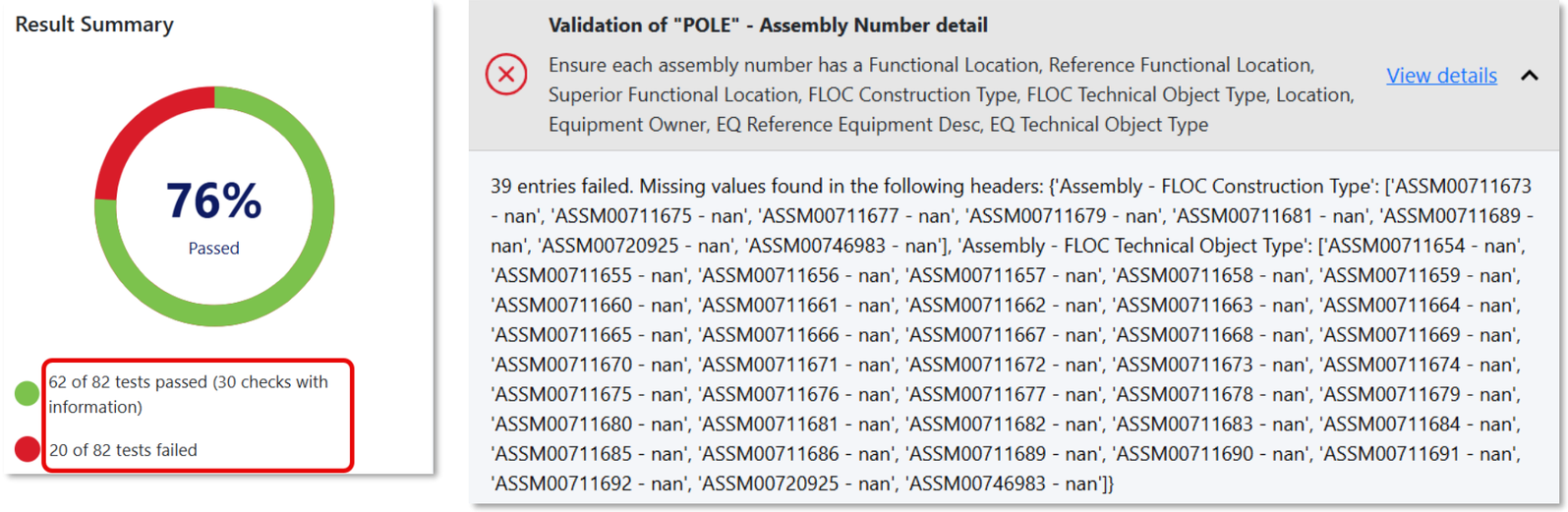
Use case and best practices

Case 1 -100%



Case 2 – 76% pass, 62 of 82 tests passed, 20 of 62 failed, repeating errors and multiple incomplete or incorrect data.



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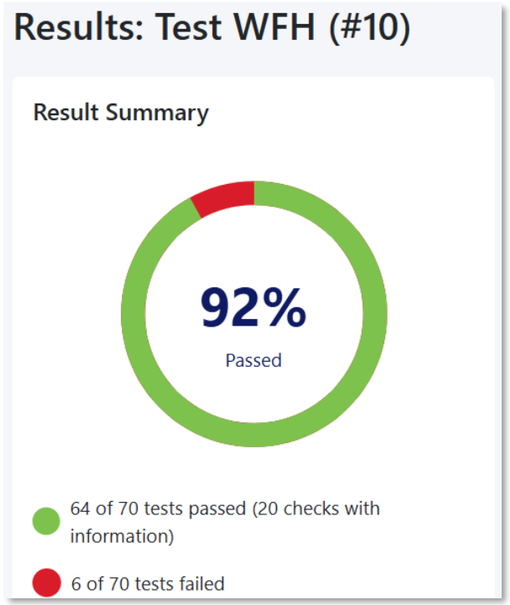
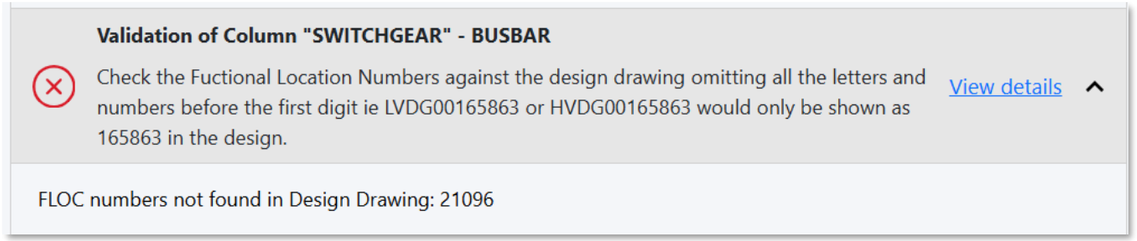
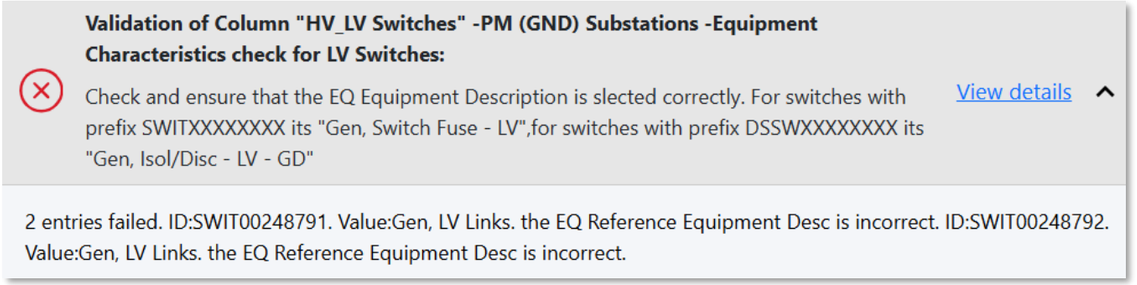
Use case and best practices

Case 3 – 92% pass, 64 of 70 tests passed, 6 of 62 failed, No repeating errors or multiple incomplete data, minor individual errors







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What ASP3s can expect

- ASPs shall continue quality assurance before submission
- No detailed review of TAL will be performed by CNEs for poor quality TALs submitted for design certification.
- We'll provide guidance via TAS & TAL guidelines & technical bulletins relevant to the requirements and examples to support your quality assurance.
- For minor but critical issues in TAL, it is easier for us to detect now, we may notify you of details, send it back or fix it ourself whichever is practical and efficient.

Future vision

- Expand scope beyond TAL review into other administrative checks on design submission
- Long-term: tool may face ASPs directly for pre-submission checking
- Continuous improvement & learning
- Continue with other initiatives that will eliminate the admin burden on ASPs

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Questions

POWER together

GIS & systems update

Matthew Morgan
GIS Operations Manager

POWER together

Intended audience: ASP 3
1:30pm – 2pm

GIS Upgrade Project Journey Map

Release 1: June 2024

- Core GIS system Upgrade (G/Technology) and supported
- GNetViewer upgrade
- Outage of GIS system

Release 2: August 2024

- Reprojection of GIS to GDA2020
- Outage of GIS system

Release 3: Nov24 – April 25

- Land and Property Information (LPI) Load
- Improving land base data and NMI placement accuracy
- Before You Dig (BYD) upgrade (customer impact)
- ArcGIS enhancements (symbology, labels etc.)

Phase 2

Planning scope, resources for Phase 2 ongoing. Some key areas of interest:

- New underground design tool
- New web-based corporate GIS viewer

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Before You Dig (BYD) Changes – April 2025

BYD – Questions and Answers

What are we doing with BYD?
BYD is a third-party website that provides customers in our network (and across Australia), important information from all utilities about underground assets to ensure the safety of our customers. We are **simplifying underground asset information** provided to all customers who submit a request via the BYD website. We are also updating the BYD software so it is supported and secure.
Currently, we provide highly detailed information of our underground asset network to customers who submit a BYD request. In some areas we also provide field book attachments as our underground network is not captured in the GIS. The information they receive is complex and can be difficult to understand. We will be providing easy-to-read plans that contains the key information when digging around our underground assets and include a buffer zone, for safety purposes. This is consistent to what we do today for our 'Look Up and Live' service.

Will any internal process change?
1. If customers call the contact centre, the same processes regarding BYD enquiries remain unchanged (for example, via the internal BYD contact number)
2. Members of the capture support team will continue to support BYD enquiries and request exceptions
3. The connections team may receive requests for Field books (drawings) from ASPs as a result of the change, however, the process on how they are obtain this information has not changed. ASPs who have submitted a BYD request can also

I'm an internal staff member, can I get access to our Field Books?
Yes, you are able to access Field Books in content server, as is the case now. As part of this release, there will also be no changes to our GIS systems ArcGIS or GNetViewer, where you can view our network.

Why are we making changes?
- To improve the quality of responses to our customers and to simplify the look/feel of the information provided.
- To improve safety of our underground network and all customers in our network
- Back-end systems are outdated and unsupported, posing IT security risks. We will ensure our BYD internal back-end systems are up-to-date and supported moving forward.
- Improve the quality of the responses to our customers by simplifying the look and feel of the information provided (in turn, improving safety of our network and people).
- Reduce internal back-end teams manually managing many request exceptions due to the area size requested and missing Fieldbooks/WAEs.

If ASPs need detailed drawings (Field Books), what do they do?
If they have lodged a BYD enquiry, the process for ASPs to request Field books **has not changed**. They will need to complete the "Field Book Request Form for Accredited Service Providers" **FAD2015** that is on the ASP portal and return it to the email address on the form.

When did the BYD changes coming into effect?

April 2025

Key Messages

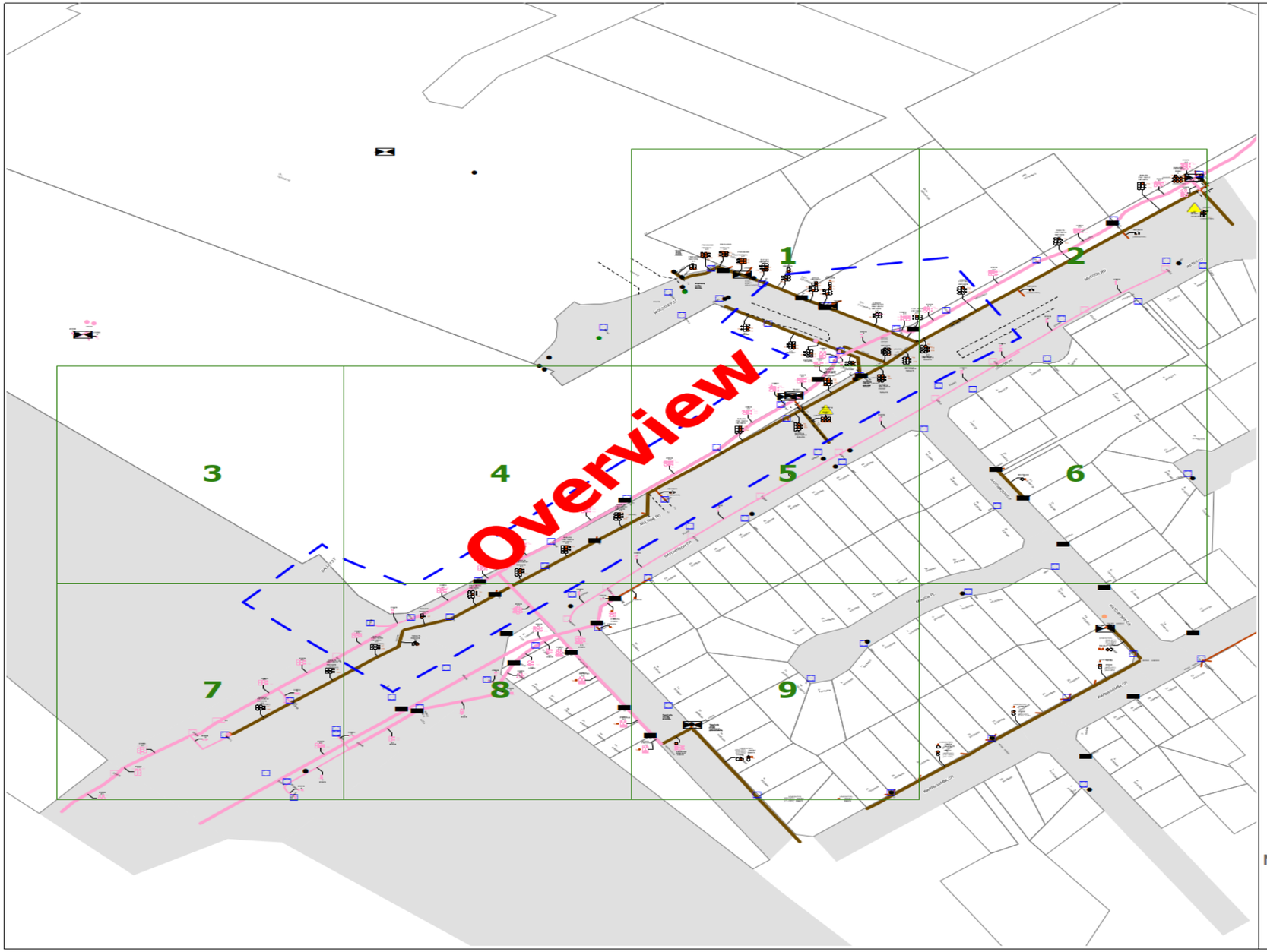
- Currently, the information we provide to customers via BYD about underground assets in our network is extensive and hard to read, which can compromise the safety of our customers
- We are simplifying the information, look and feel of the documentation we are providing customers in our network about our underground assets via Dial Before You Dig
- The simplification of information aims to improve the safety of our customers, people and asset network
- We are complying with legislative requirements under the SOCI Act

Key Contacts

Matthew Morgan
GIS Operations Manager

Endeavour Energy

Existing BYD Response



Endeavour Energy

WARNING

- **All electrical apparatus shall be regarded as live until proved de-energised.** Contact with live electrical apparatus will cause severe injury or death.
- Underground assets may be congested at the approach to bridges and other structures. Typical asset depths and alignment may vary substantially, rising and falling sharply and at much shallower depths than elsewhere as they are channelled into shared allocated spaces on bridges and other structures. Additional precautions and underground asset location methods will be required in proximity to bridges and other structures.
- In accordance with the *Electricity Supply Act 1995*, you are obliged to report any damage to Endeavour Energy Assets immediately by calling **131 003**.
- The customer must obtain a new set of plans from Endeavour Energy if work has not been started or completed within twenty **(20)** working days of the original plan issue date.
- The customer must contact Endeavour Energy if any of the plans provided have blank pages, as some underground asset information may be incomplete.
- Endeavour Energy underground earth grids may exist and their location **may not** be shown on plans. Persons excavating are expected to exercise all due care, especially in the vicinity of padmount substations, pole mounted substations, pole mounted switches, transmission poles and towers.
- Endeavour Energy plans **do not** show any underground customer service mains or information relating to service mains within private property.
- Asbestos or asbestos-containing material may be present on or near Endeavour Energy's underground assets.
- Organo-Chloride Pesticides (OCP) may be present in some sub-transmission trenches.
- All plans must be made available at the worksite where excavation is to be undertaken in either printed or electronic format. If the plans are in an electronic format, they must be in a format visible on a screen size 10 inches or greater. Plans must be reviewed and understood by the crew on site prior to commencing excavation.
- Non-destructive water excavation must be operated at or below 2000PSI. Any operation exceeding 2000PSI must be classed and treated as a destructive excavation practice.

INFORMATION PROVIDED BY ENDEAVOUR ENERGY

- Any plans provided pursuant to this service are intended to show the approximate location of underground assets relative to road boundaries, property fences and other structures at the time of installation.
- Depth of underground assets may vary significantly from information provided on plans as a result of changes to road, footpath or surface levels subsequent to installation.
- Such plans have been prepared solely for use by Endeavour Energy staff for design, construction and maintenance purposes.
- All enquiry details and results are kept in a register.

DISCLAIMER

Whilst Endeavour Energy has taken all reasonable steps to ensure that the information contained in any plan is as accurate as possible at the time of installation, the location of underground assets depicted on a plan is approximate and it will accept no liability for inaccuracies in the information shown on such plans.

WARNING
THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT, COMMUNICATION OR FIBRE OPTIC CABLES
PLEASE RING **9853 7121** or **MOB. 0407 468 626**
10 WORKING DAYS BEFORE COMMENCING WORK

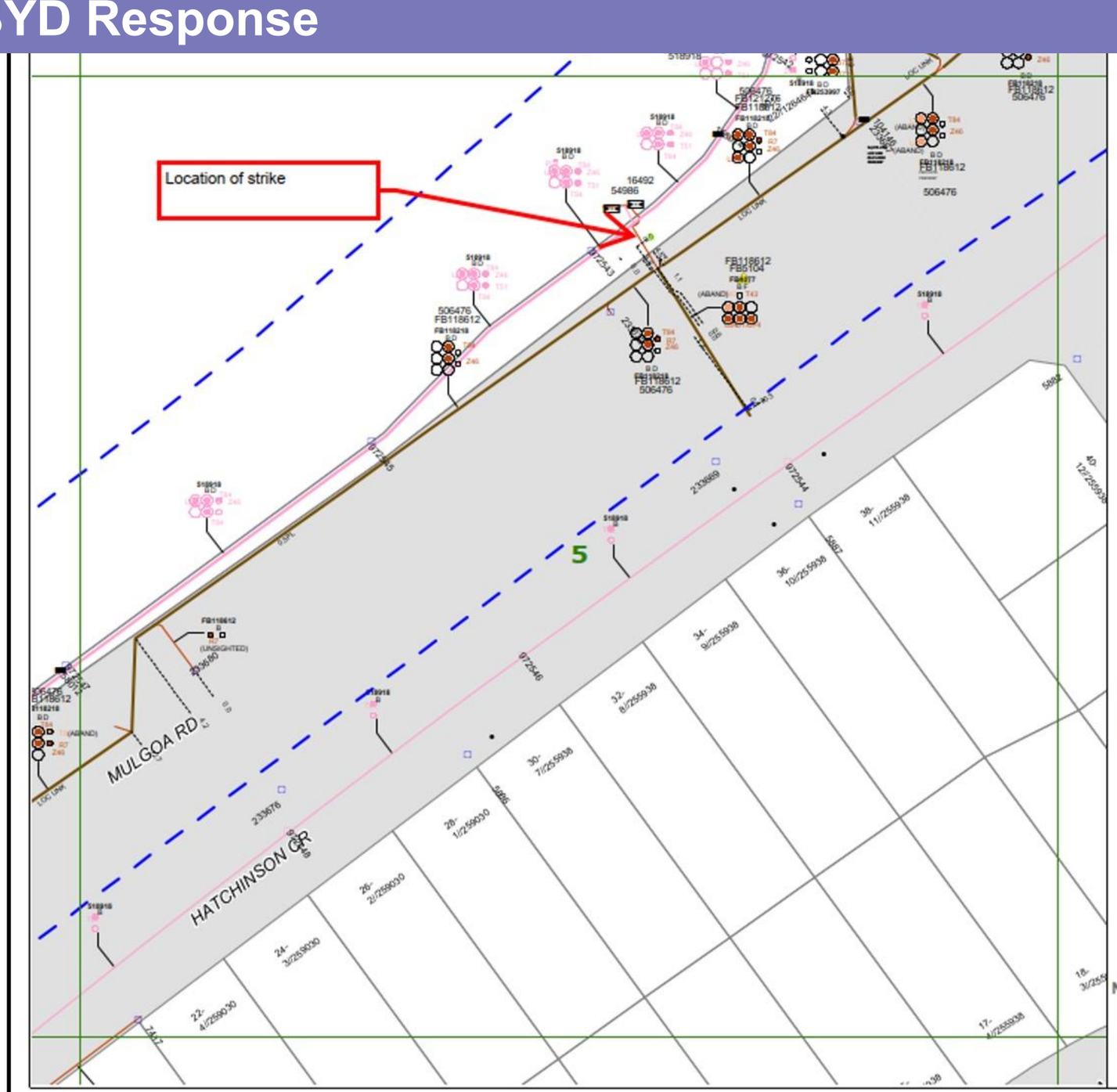
or — Street light column
Padmount substation
or — Overground pillar (O.G.Box`
Underground pit
Duct run
Cable run
Typical duct section
Asbestos warning

N

NOT TO SCALE

BYDA Sequence No.:	249614077
Issued Date:	15/01/2025

Existing BYD Response



Endeavour Energy

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10 WORKING DAYS BEFORE COMMENCING WORK

or — Street light column
Padmount substation
or — Overground pillar (O.G.Box)
Underground pit
Duct run
Cable run
Typical duct section
Asbestos warning

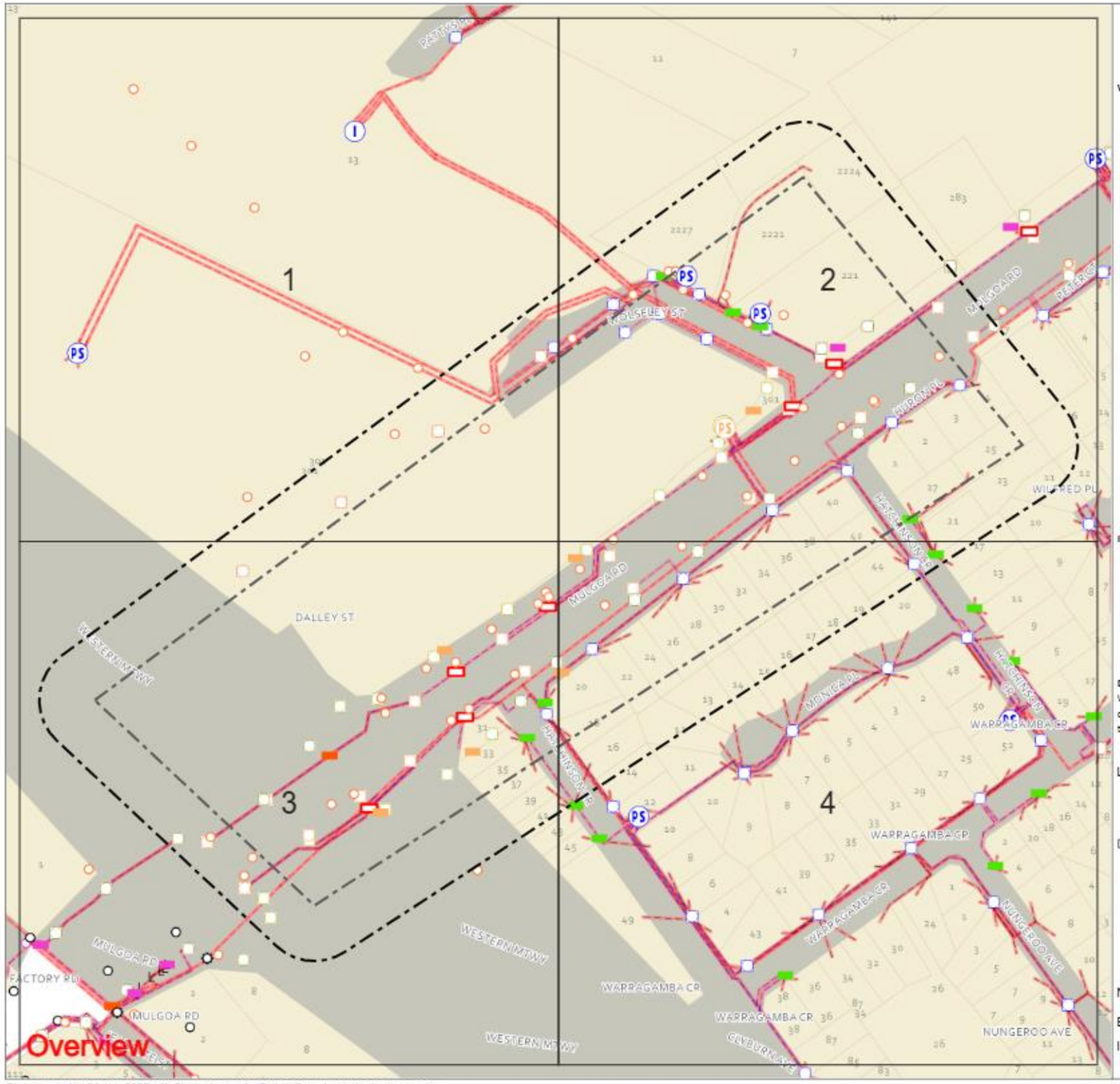
N

NOT TO SCALE

BYDA Sequence No.:	249614077
Issued Date:	15/01/2025

Endeavour Energy

New BYD Response



Endeavour Energy

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LEGEND

- or — Street light column
- Padmount substation
- or — Overground pillar (O.G.Box)
- Underground pit
- Duct run
- Cable run
- Typical duct section
- Asbestos warning

WARNING
THIS EXCAVATION IS IN THE VICINITY OF ENDEAVOUR ENERGY TRANSMISSION, PILOT, COMMUNICATION OR FIBRE OPTIC CABLES
PLEASE RING 9853 7121 OR 0407 468 626
4 WORKING DAYS BEFORE COMMENCING WORK

N

NOT TO SCALE

BYDA Sequence No.: 250072790

Issued Date: 24 Jan. 2025

Endeavour Energy

Endeavour Energy

ESRI Improvements

POWER together

ASPGIS Portal

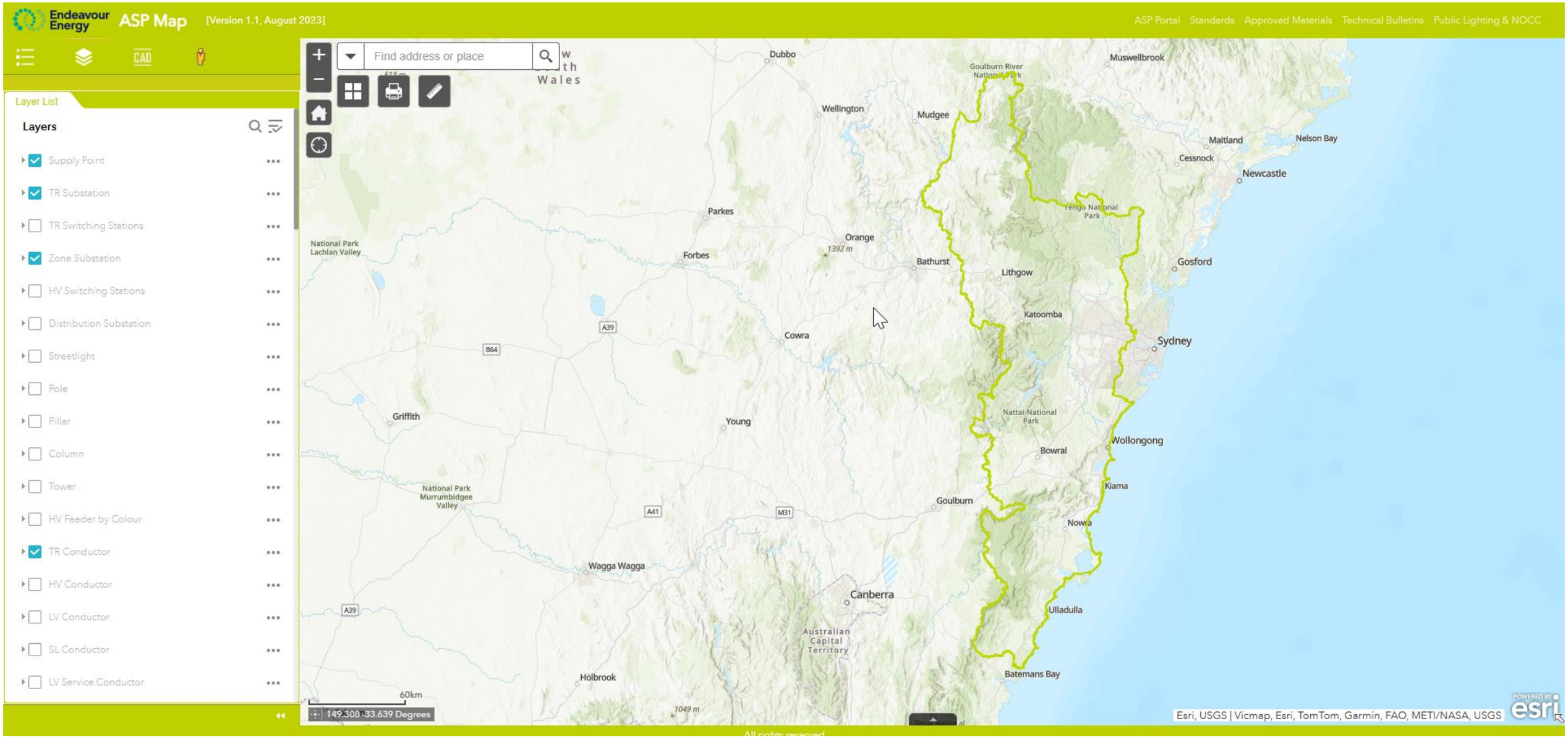
Home Page Featured

ASP ArcGIS Application 1.1

EnviroGIS

This is the home page of your ArcGIS Organization. You can easily change this page with your own logos, background image and many other things.

Additionally, you can populate this home page with a collection of featured items such as Web Maps and Web applications to highlight the most useful GIS resources in your organization.



Endeavour Energy

Endeavour Energy

Questions

POWER together

Endeavour Energy

EIA - from paper to PEGA

Gina Pavlovic
Head of Sustainability

POWER together

Intended audience: ASP 3
2pm – 2:30pm

Agenda

IMPORTANT ENVIRONMENTAL UPDATES

ENVIRONMENTAL IMPACT ASSESSMENTS (EIA)

NEW EIA TOOL

QUESTIONS & ANSWERS

Endeavour Energy

Waste Management

First NSW Waste and Circular Infrastructure Plan released

Construction company fined $200,000 for providing false information to the EPA

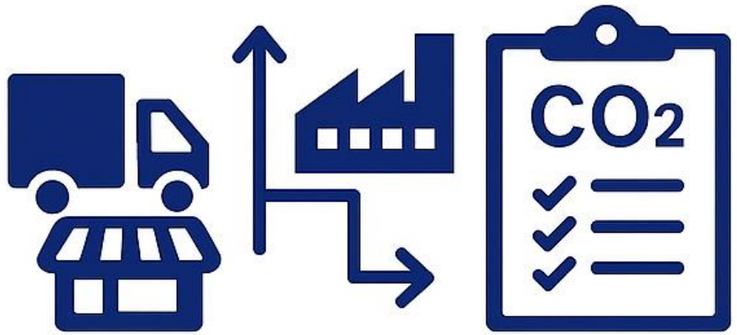
New environmental name and shame register

Endeavour Energy

Emissions

Key priorities are data collection and carbon abatement initiatives

Complete full scopes 1,2 3 emissions reporting



Expand identification and prioritisation of data management

Endeavour Energy

Pollution

Many common offences, such as committing water pollution or non-compliance with a clean-up notice, now have fines of:

Individuals

$15,000 for a first offence

$22,500 for a second offence

Corporations

$30,000 for a first offence

$45,000 for a second offence

Penalty notice amounts equal when issued by the EPA or a local council

Endeavour Energy

Environmental Approvals

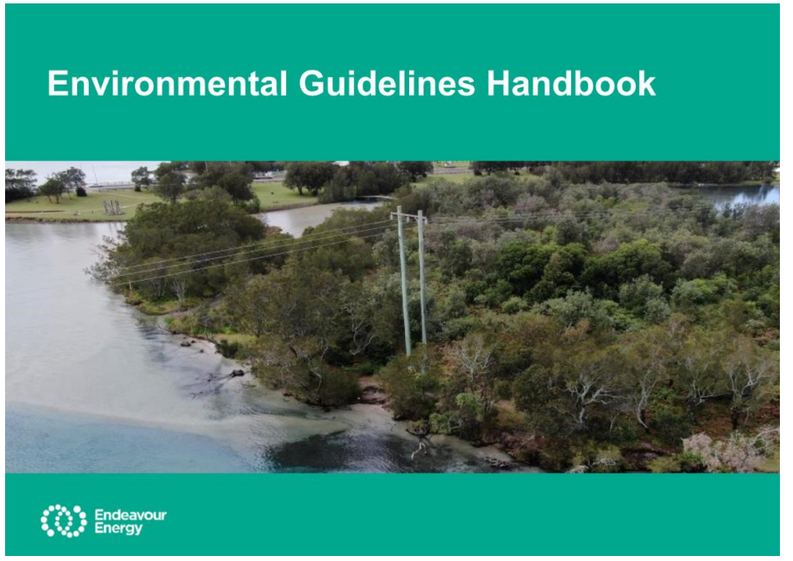
Environmental Planning and Assessment Act 1979

The Environmental Planning and Assessment Act 1979 details the system of environmental planning in NSW.

For best practice environmental management please refer to Endeavour Energy's Environmental Guidelines Handbook available on ASP Portal.

Key considerations include:

- Defines development as the use of land, construction, demolition and other activities
- Cumulative impacts that may be directly or indirectly related to the proposed activity must be assessed
- Analysis of potential impacts throughout the project lifecycle (including site preparation, construction, operations and decommissioning where appropriate)



EIA – why is this important?

- Defence to prosecution under various environmental legislation
- EPA regulatory action *Noise* complaints, unappproved tree removal, illegal development
- Harming or desecrating an Aborigignal object is an offence under the National Parks & Wildlife Act 1974.

Maximum penalties now include imprisonment (2 years), personalfines of up to $550,000. In the case of a corporation, the maximum fine i s up to $1.1M

Workers sliced through the rock (circled), causing irreparable damage.

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EIA Planning Process Table

(EMS0001 Figure 1, page 11)

Classification of proposed activities	CLASS 1 Not considered a development or activity e.g., demolition of temporary structure	CLASS 2 EXEMPT DEVELOPMENT Generally, includes routine repairs and maintenance of existing assets less than 66kV, or emergency works	CLASS 2 DEVELOPMENT APPLICATION (DA) Generally, includes new depots and office buildings, or electrical works carried out by a third-party DA submitted to Council.	CLASS 3 SER Generally, includes new minor works for distribution lines and powerlines. Design drawings are not complex	CLASS 4 REF Generally, includes. new transmission or feeder lines, substations, switching stations, large battery sites. Design drawings are more complex	CLASS 5 REF & Species Impact Statement (SIS) Involves significant impact to threatened species	CLASS 6 EIS Generally major projects and/or projects that are likely to significantly affect the environment. Declared to be State Significant Infrastructure
Level of Environmental Impact	N/A	*Negligible*	*Determined during DA Assessment*	*Minor and neither extensive or complex*	*Beyond minor, or extensive/complex but not likely to significantly affect the environment*	*Likely to significantly affect threatened species, where significant effect on threatened species is the only significant impact*	*Likely to significantly affect the environment*
Type of EIA required.	**None**	**None/EXEMPT**	**DA**	**SER**	**REF**	**REF & SIS**	**EIS**
Planning Pathway under EP&A Act	N/A	s1.6 of *EP&A Act*, *T&I SEPP* s2.46	Part 4	Part 5	Part 5	Part 5/BC Act	Part 5.2
Determining Authority	N/A	N/A	Local Council	Endeavour Energy	Endeavour Energy	Endeavour Energy with concurrence from Environment and Heritage Group (EHG) of DPE	Minister for Planning and Public Spaces
Project Requirements	N/A	• Environmental Guidelines Handbook • Emergency Works Procedure	• Environmental Guidelines Handbook • Permits and licences (as applicable) • SEE • DA Approval Conditions	• Environmental Guidelines Handbook • Permits and licences (as applicable) • SER Approval Conditions	• Environmental Guidelines Handbook • Permits and licences (as applicable) • REF Approval conditions • CEMP	• Environmental Guidelines Handbook • Permits and licences (as applicable) • REF & SIS Approval conditions • CEMP	• Permits and licences (as applicable) • EIS Approval conditions • CEMP

Endeavour Energy

The EIA Tool - Is a ‘One Stop Shop’ for all Enviro Activity

Environmental Impact Assessment (EIA)

Transparent workflow tracking
– end-to-end team visibility from submission to determination

Automated & streamlined process
– no more email submissions or manual PDF handling.
ASPs submits SER and REF through a guided digital platform.

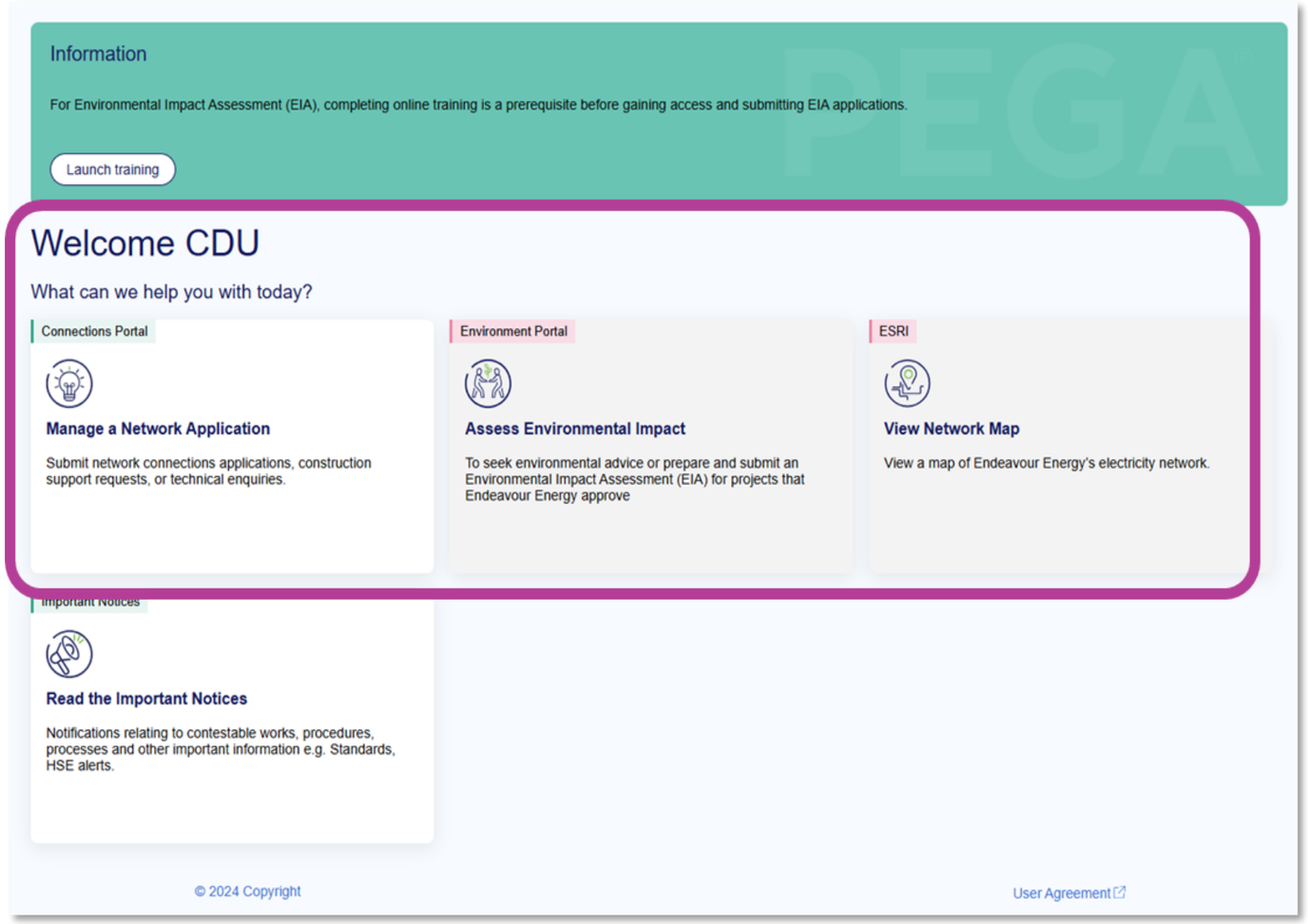
GIS mapping integration
– embed interactive mapping for site specific assessment

Built-in compliance check
– automated check to ensure compliance obligations are met

Platform familiarity
– built on Pega, same platform as the Connection Portal

Endeavour Energy

The EIA Tool - how do ASPs get access?



For ASPs with existing access to the Connections Portal

- You will be sent an email with details on how to register for aXcelerate
- You will complete compulsory EIA eLearning in aXcelerate
- From EXPECTED 30 August—any ASP who has completed the training will gain access to the new EIA tool.

If you have not received an email regarding aXcelerate access prior to 30th August, please contact **cwadmin@endeavourenergy.com.au**

For new ASPs without existing access to the Connections Portal:

- The EIA tool and aXcelerate access will be treated the same as other system access and be automatically applied for when you create a log in in the Connections Portal.

Support

- For questions about the EIA submission process, please contact the Customer Network Engineer (CNE) assigned to your project
- For technical issues with the platform, please log an incident via the Enterprise Customer Portal

Endeavour Energy

The EIA Tool - Training and User Guides

Endeavour Energy

User Guide – New User: Self-Registration & Logging In

About this guide

Self-service platforms such as the Connections Portal, Contractor Booking System and Environment Portal are accessed via the Endeavour Energy Enterprise Customer Portal

This guide covers the following topics:

- register as a new user on the Endeavour Energy **Enterprise Customer Portal**
- set up your profile to access the relevant platform / portal e.g. **Connections Portal**, **Contractor Booking System**, **Environment Portal**

How to use this guide

Each topic has a brief SUMMARY of the steps and then DETAILED INSTRUCTIONS with screenshots

Summary of the steps

Detailed instructions

Endeavour Energy

User Guide – New User: Self-Registration & Logging In

Topics in this guide

Click to jump to the relevant page

REGISTER AS NEW USER

Self-registration steps to register as a new user on the Enterprise Customer Portal

SUMMARY

DETAILED INSTRUCTIONS

SET UP PROFILE

For access to -> CONNECTIONS PORTAL

For ASP 3 to request access to -> ENVIRONMENT PORTAL

When you have registered and logged in to the Enterprise Customer Portal, the next step is to set up your profile to enable access to the Connections Portal

For an ASP 3 this will also trigger a request for access to the Environment Portal

SUMMARY

DETAILED INSTRUCTIONS

SET UP PROFILE

To request access to ->CONTRACTOR BOOKING SYSTEM

When you have registered and logged in to the Enterprise Customer Portal, the next step is **to set up your profile** to request access to the **Contractor Booking System**

SUMMARY

DETAILED INSTRUCTIONS

Click to jump to the relevant page

Endeavour Energy

Endeavour Energy

Questions

POWER together

General Q&A

Ashwin Prasad
Customer Connections Experience Manager

Jonathan Lei
Customer Connections Manager

If you have a question, please “raise your hand” through Teams and we will endeavour to get through as many questions as we can. Alternatively, please write your question in the Q&A chat and we will make sure we get to it at a later date

Intended audience: ASP 1, 2, 3

Q & A

Question	Answer
For the NSW government portal – is it just the installer needing to do extra paperwork or do they need to return to site for commissioning/testing?	The portal replaces the AEMO portal requirement. Most data is prefilled, so only an administrative step is needed. Commissioning has an onsite component, but it can be triggered remotely. If setup issues occur (such as CTs being installed incorrectly), the installer may need to return to site.
What are the actions needed from installers regarding flexible exports and emergency backstops?	Once the system is commissioned in the portal, nothing further is required from the installer. Signals are sent to the house. Flexible exports operate dynamically every half hour, while emergency backstops are event-based and occur only rarely.
Wanting to know more about the flexible exports for three-phase 14.5 kilowatt system, when will this likely come online?	Widespread rollout will begin in June 2026 when the NSW government portal and mandate go live. Trials are already onboarding limited customers.
Is there a transition period three months after June 2026?	Yes, all DNSPs have proposed a three-month transition period.
Regarding internet connected inverters. What's the expected connection type? 5G/4G or wi-fi? What will happen to the export setting when communication between the inverter and EE is interrupted (wi-fi/4G disconnection)? What export settings will apply then?	It is expected that Wi-Fi will be the primary connection method for homeowners. Where 4G is available, it could be used but this isn't something that will be provided by the utility. When connection is lost the exports of the inverter will slowly ramp down to a default fall back limit (1.5kW) until connection is restored.
How is EE going re analysing and augmenting the HV aspect of the grid to handle the ever increasing load (HV Amps) from expanding number of pad subs for Ultra Fast EV systems.	This is still an active area of study that we are developing capability to monitor and learn from.
What is the mechanism for ASPs to provide feedback to ASP representatives of the ASP advisor committee?	Concerns should be raised through your usual ASP scheme contacts. The team will then take issues to the committee on your behalf.
Is there an ASP scheme database that ASPs can view to check their current employees or subcontractors?	Yes, the new scheme will provide overviews of registered contractors. ASPs will need to keep records updated, for example when staff move between companies.
Could you add an option in the portal for application fees to be sent to someone else (like a client)?	That feature already exists in the Connections Portal. Invoices can be forwarded to other parties for payment. For more information, please contact CWAdmin@endeavourenergy.com.au
Can we generate asset numbers ourselves?	Not yet. The TAS/TAL spreadsheet is still required, but the intention is to move toward seamless asset numbering in the future Connections Portal.
How do EV loads impact maximum demand calculations for small developments?	Current AS3000 calculations differ from DNSP demand methods. There are some gaps, but Endeavour believes its current ADMD has headroom to accommodate residential EV loads in Western Sydney for now from total diversified demand perspective.
What happens when Council specifies slimline columns in DA consent?	All stakeholders have a preference for less street furniture/assets hence slimline columns not listed in 4.7.2. of LCI 0001. Please contact Mainsenquiry@endeavourenergy.com.au should you require more information
Is there any accessory recommended for installing cross arms on existing concrete poles?	No. Drilling concrete poles is restricted due to reinforcement risks, so the solution is to replace the pole.
Was there an important notice or TB released regarding the release of MCI-10?	No specific notice was issued, but all standards updates are published on the ASP Portal.

Q & A

Question	Answer
How close can a street light column be installed near a driveway?	LDI drawing 241056 is now updated to show min 300 clearance from driveway to edge of column base to match clearance with pillars
Discrepancies between MCI-6 and MDI-28 updates?	Minor amendments to both standards are currently in progress and will be issued upon approval.
In Wetherill Park projects, we've found gas trunk mains during works. Is there a tool in Endeavour to calculate safety compliance like the 3E tool?	Endeavour Energy doesn't have a tool as such; we would refer to the Safe Work Guidance material to work near UG assets: Work near underground assets – Guide Additionally, BYDA has some information relating to Jemena assets: Jemena maps update for BYDA users - BYDA
Can DNSPs start considering cold shrink kits (useful in total fire ban cases)?	We have not yet introduced these products, but we are aware of their availability in the market. We may consider them in the future.
When will ASPs have direct access to field books?	ASPs currently do not have access to Content Server where drawings are stored. The team is exploring a secure way to provide access, such as through a network location or restricted folder, without granting broad permissions.
Can you extend ArcGIS to include system diagrams?	SOPS is a legacy system and is not used for operations. The team is working with ADMS to resolve constraints and provide a replacement or accessible view in the ESRI environment.
It would be good if LB switches were included in GIS layers.	Work is ongoing to bring more layers across from GNet GIS into the ESRI portal. MDI readings may be accessible via GridSight, which will be discussed with that team.
Will ASPs be able to view SAP?	ASPs are unlikely to be given direct access to enterprise SAP. The strategy is to open up key information through more seamless channels. Some data is easier to expose than others due to legacy constraints.
Can ASPs access photos of PM substations?	An internal ESRI layer of asset photos is being consolidated, and once completed, it should be shareable via the portal.
Comment on the drawing standard I submitted: will standards be updated?	As part of the new design and CAD tool, drafting standards (including WAE) will be revisited. The aim is to enable direct GIS input from CAD, with updated symbology and data structures (SAP, ADMS, etc.).
Will there be scope to improve the current GIS CAD 2021 tool (e.g., line types/validation issues)?	Major changes will not be applied to the current tool as the supplier no longer supports it and a full replacement is underway. Minor tweaks may be handled in-house, so specifics should be logged.
Is there a forum/email to raise CAD/GIS issues affecting productivity (validation, etc.)?	Yes, you can email CWTech. The Connections team will forward items that require GIS attention.
Can the EIA tool produce a summary of all environmental impacts for a project/area so ASP3s don't have to check multiple sites?	The tool integrates many external mapping layers with a "View mapping" tab for applicant to take screenshots as evidence. Certain questions will still require applicants to navigate to external website to carry out relevant checks. The information icon (help icon) will provide relevant website links for applicants to navigate to the appropriate websites for the checks. Once application has been successfully submitted and approved, the applicant would receive a Summary Environmental Report (SER) in PDF format.

Q & A

Question	Answer
For plan approval, what's the actual deliverable — PDF, presentation, evidence pack?	Responses are populated in the digital tool. Once reviewed, approved, and submitted, a PDF SER will be auto-generated (similar to the old FAT0038).
Can internal company reviewers check the SER before it's submitted to Endeavour?	The EIA tool will include the following functions once it goes live: •Users within the same organisation can search, view, and review all applications, regardless of who submitted them. •Applications can be transferred to another user within the same organisation.
Will the tool cover AHIMS/other environmental databases so ASP3s don't need to check elsewhere?	The tool integrates many external mapping layers with a "View mapping" tab for applicant to take screenshots as evidence. Certain questions will still require applicants to navigate to external website to carry out relevant checks. The information icon (help icon) will provide relevant website links for applicants to navigate to the appropriate websites for the checks. However, the applicants are expected to carry out the appropriate level of assessment pending outcome of the due diligence check. For example, if the proposed work is within a mapped AHIMS buffered area, the ASP is still required to carry out further investigation (e.g. ordering site card, engaging Aboriginal heritage consultant) to accurately assess impacts of the proposed work.
Multi-stage developments keep getting allocated to multiple CNEs even when noted — can this be fixed?	The preferred approach is to allocate one engineer for multi-stage sites, but the process sometimes misallocates. The team will review and improve allocation, liaise with CDMs, and recommends using the CNS contact list on the ASP Portal for quick escalation.
Can we get full surveyed/LiDAR pole data (XYZ, pole height, properties) to verify overhead designs against GIS/utility data?	ASPs can access NEARA, which is a digital twin with LiDAR and a 3D model. It contains this data and is a platform Endeavour plans to invest in, and ASPs are encouraged to use it.
What are Endeavour's intentions regarding "ring-fencing" — competing vs supporting ASP3s?	Endeavour's strategy is to enable ASPs, remove barriers, and step aside where possible. Internal efforts will focus on complex areas, while administrative and routine processes will be automated.
Significant delays for works at zone substations (e.g., 12–18 months for cable terminations) — will you publish an important notice?	Internal works such as design, secondary systems, and double cable modifications create long lead times. The team is now communicating risks and typical timeframes earlier, aligning to realistic energisation dates, and including this in new design briefs. Specific projects should be escalated for review.


Endeavour
Energy
POWER
together