



Oven Mountain Pumped Hydro Energy Storage Project

September 2023

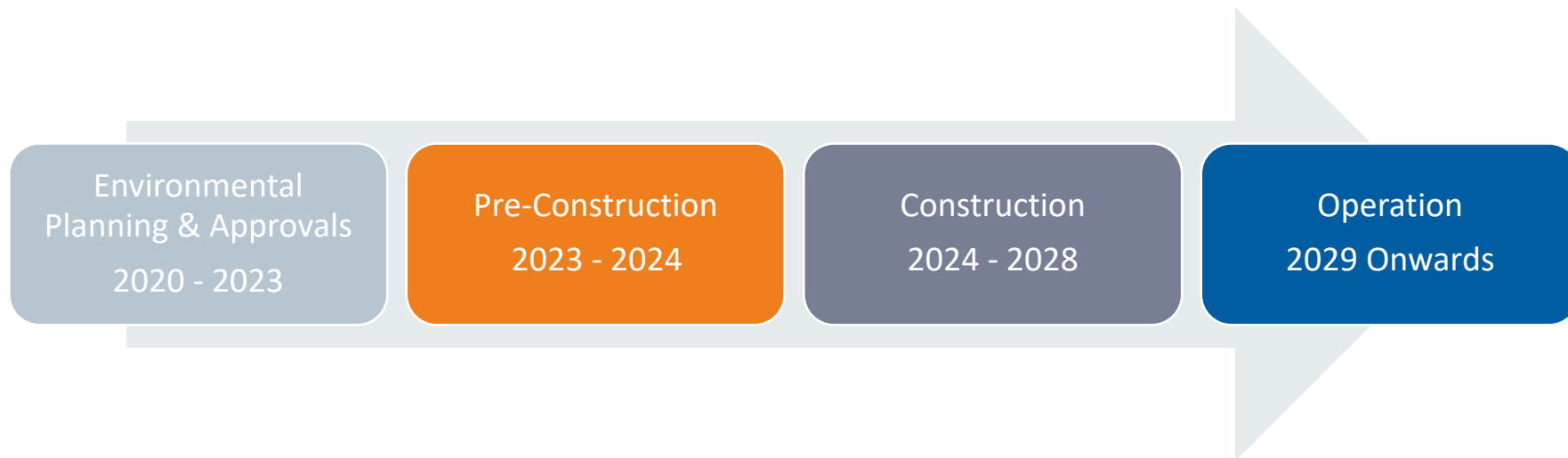


Connecting with Local and Regional Businesses

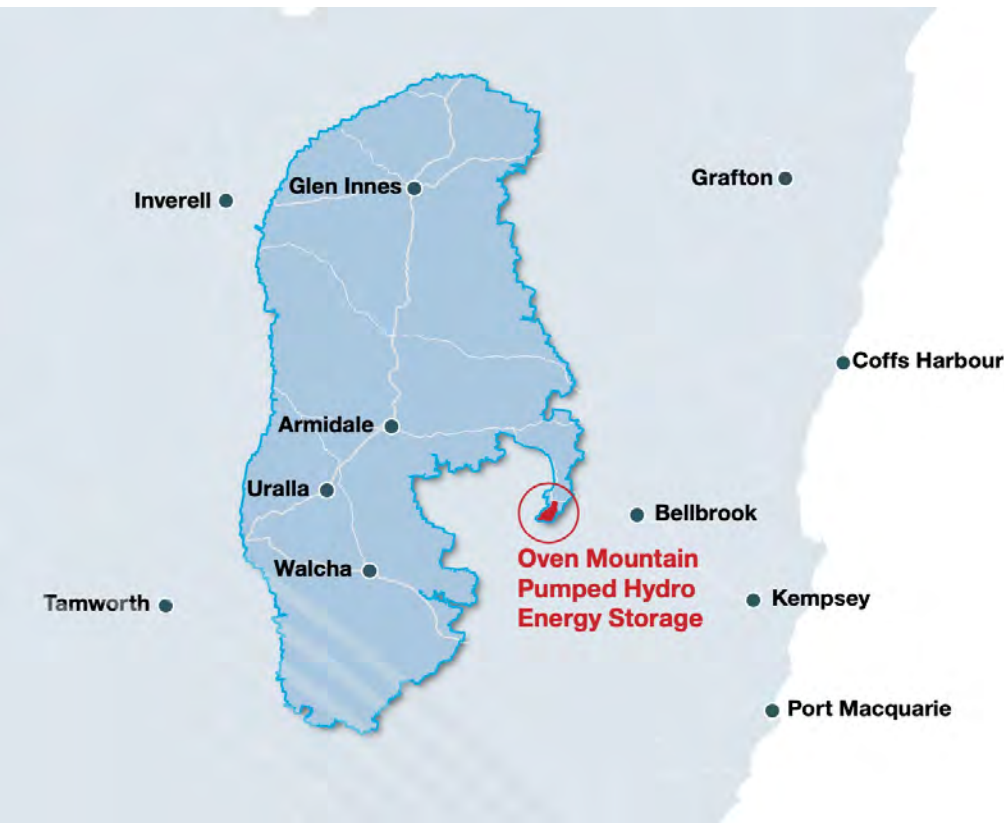
- Projects begin as an idea, are developed on paper and via consultation, and are delivered in dynamic and diverse communities.
- Today is about giving local / regional businesses the opportunity to understand the project scope and for us to describe the project opportunities.
- The project is committed to:
 - providing 'full, fair, and reasonable' opportunities for local and regional companies
 - establishing initiatives that promote innovation, remove barriers to access, and promote meaningful economic pathways
 - genuine engagement that leads to skills, education, training, and employment opportunities for both Aboriginal and underrepresented communities
 - implementing environmentally sustainable practices that incorporate broader NSW Government aims.
- Environmental and planning process: What is the proposal and how can I have my say?

The Oven Mountain Project

- The Oven Mountain Pumped Hydro Energy Storage project is an "off river" development located adjacent to the Macleay River between Armidale and Kempsey.
- Situated within the New England Renewable Energy Zone, the project will provide clean energy generation and storage capabilities, ensuring a reliable, resilient, and renewable future energy supply for NSW.
- The project is currently undergoing the NSW planning and environment process.
- Pending approval, construction is expected to last 4 to 5 years and generate over 600 direct and indirect jobs within the regional economy, increasing to over 1,600 such jobs across NSW.
- It is projected that construction of the Project will contribute approximately \$248 million in annual regional direct and indirect output, increasing to \$535 million annually overall within the NSW economy.



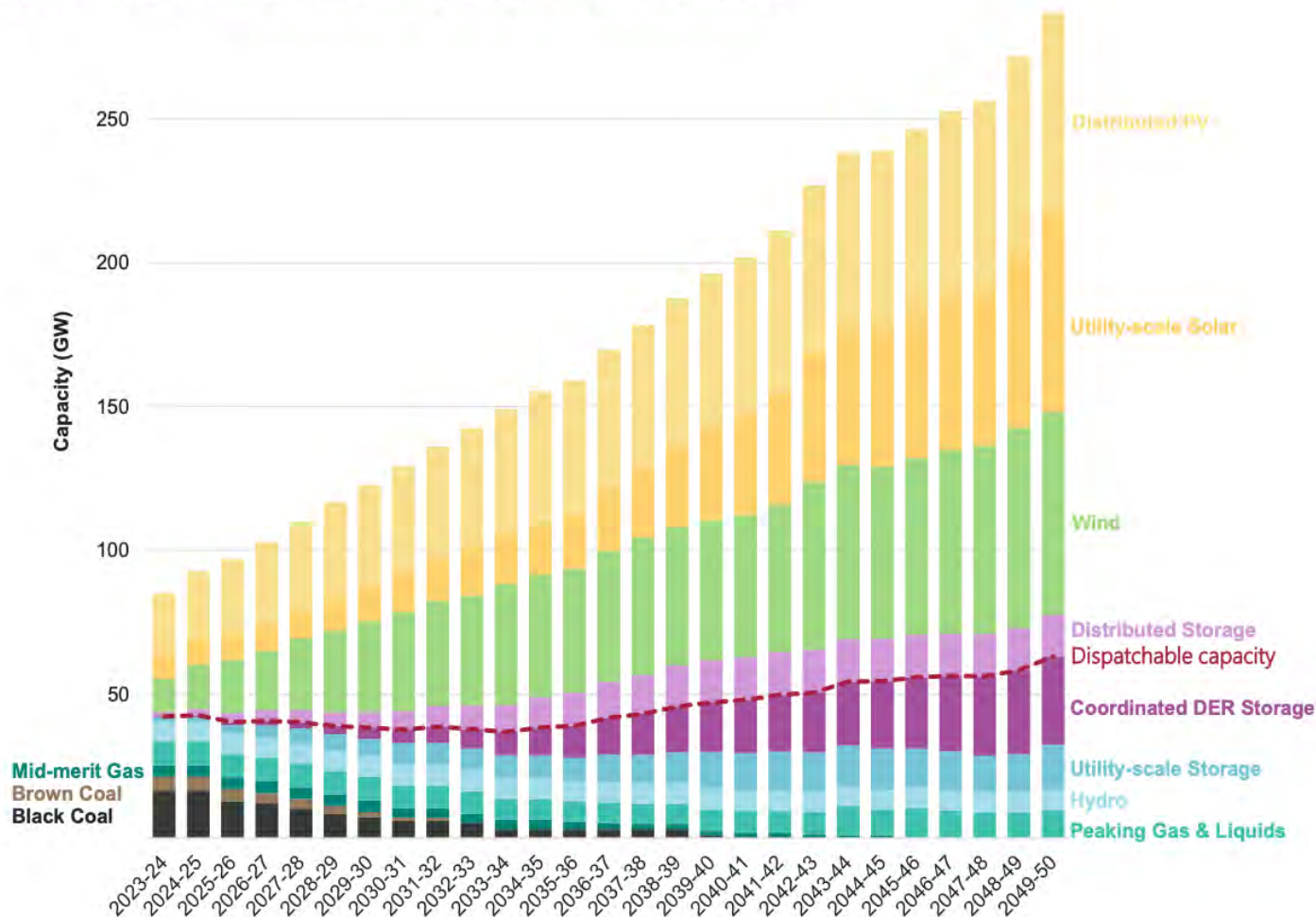
The New England Renewable Energy Zone



- Australia is undergoing a 'once-in-a-century' transformation in the way society considers and consumes energy.
- As we step towards varied renewable energy sources, we need to ensure the ongoing resilience of our energy system.
- Five Renewable Energy Zones across NSW.
- NSW has a target to build at least 2GW of new long-duration storage by 2030.
- Long-duration storage – 8 hours or more – will play a critical role in firming up the network and supporting the growth of renewable energy – such as solar and wind

A Changing Energy Environment

Figure 1 Forecast NEM capacity to 2050, Step Change scenario



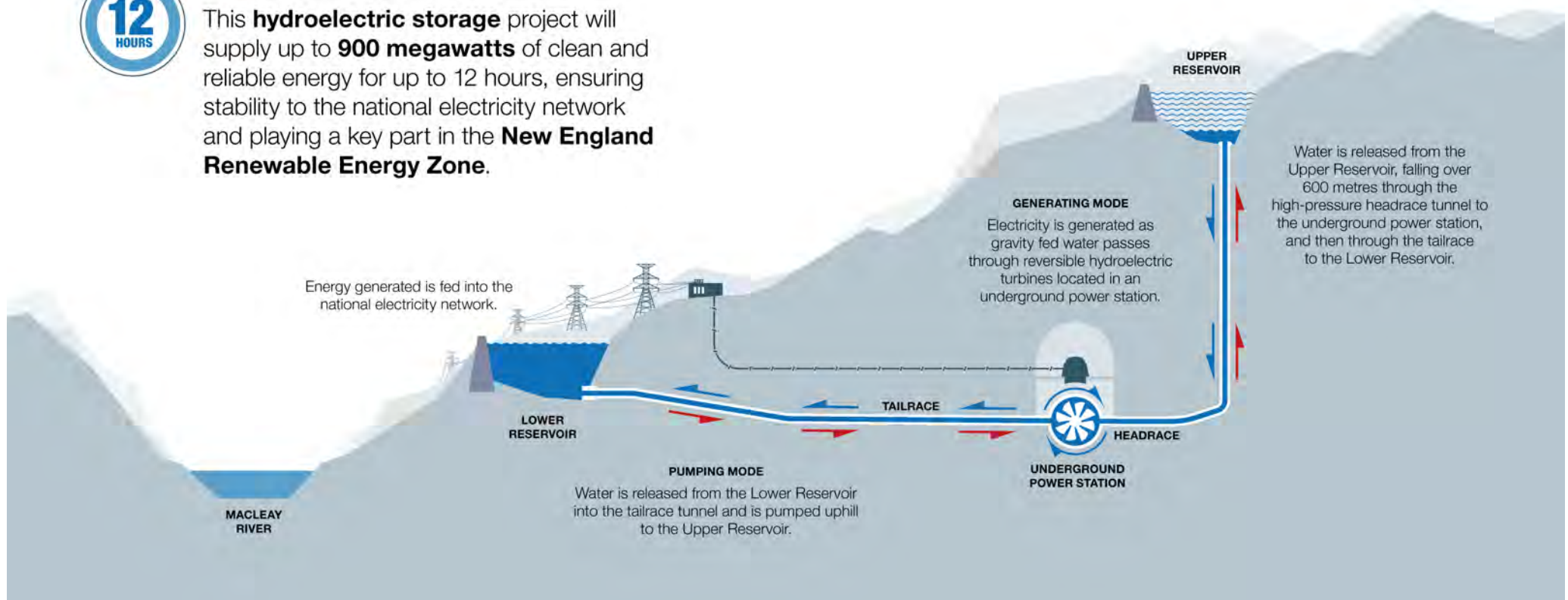
“Technical innovation, ageing generation plants, economics, government policies, energy security and consumer choice are all driving this transformation and driving it faster than many anticipated. Some of them form part of the global push for net zero emissions by 2050, while others are independent. All the while, the NEM must continue to meet its objective – to provide reliable, secure, and affordable electricity to consumers.”

2022 Integrated System Plan (AEMO, 2022, p.7).

How does pumped hydro energy storage work?



This **hydroelectric storage** project will supply up to **900 megawatts** of clean and reliable energy for up to 12 hours, ensuring stability to the national electricity network and playing a key part in the **New England Renewable Energy Zone**.



STYX RIVER
STATE FOREST

ARMIDALE TO GEORGE'S
JUNCTION - 85KM

OVEN MOUNTAIN
PUMPED HYDRO STORAGE

PROJECT LOCATION

- Project Area
- Pumped hydro generation component
- Access options under investigation
- Proposed storage dam
- Indicative access road

EXISTING ENVIRONMENT

- Existing 132kV transmission line
- Main unsealed road
- Local unsealed road
- 4WD vehicle track
- National Trail
- Watercourse
- National park, reserve and state forest

CUNNAWARRA
NATIONAL PARK

NEW ENGLAND
NATIONAL PARK

THUMB CREEK
STATE FOREST

MISTAKE
STATE FOREST

FLYING FOX MOUNTAIN

Lower
Creek

DYKE STATE
FOREST

JOBS MOUNTAIN
NATURE RESERVE

PEE DEE
STATE FOREST

Thungutti
LALC

ANDERSONS SUGARLOAF

The OVEN Mountain
project will not be visible
from George's Junction.

CARRAI STATE
CONSERVATION AREA

COCHRANE
STATE FOREST

KUNDERANG
EAST
HOMESTEAD

OVEN
MOUNTAIN

CARRAI STATE
CONSERVATION AREA

Mines Road

Cochrane Firetrail

Warrick Road

MARYS
VIEW

The OVEN Mountain
project will not be visible
from Marys View lookout.

OXLEY WILD RIVERS
NATIONAL PARK

THE CASTLES
NATURE RESERVE

CARRAI
STATE FOREST

WILLI WILLI
NATIONAL PARK

Willi Willi

WILLI WILLI CAVES
NATURE RESERVE

Toorooka

Willi Willi Road

Moparrabah

BOONANGHI
STATE FOREST

BOONANGHI
NATURE RESERVE

Temagog

Temagog Road

Willi Willi Road

Willi Willi Road

Willi Willi Road

Willi Willi Road

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NGAMBAA NATURE
RESERVE

COLLOMBATTI
STATE FOREST

TAMBAN
STATE FOREST

i Community
Information Hub

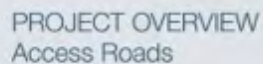
KEMPSEY TO GEORGE'S
JUNCTION - 99KM







Kempsey










Local project access routes





-  Eastern access road
-  Northern transmission access road
-  Generation component access road
-  Pumped hydro generation component
-  Disturbance footprint
-  Construction envelope
-  Proposed HV transmission line route
-  Proposed HV transmission tower location
-  Proposed storage dam
-  Dam wall
-  Indicative underground waterway
-  Indicative underground access tunnel
-  Indicative works surface works

EXISTING ENVIRONMENT

-  Existing 132kV transmission line
-  Main unsealed road
-  Local unsealed road
-  4WD vehicle track
-  National Trail
-  Watercourse
-  National park, reserve and state forest

A new electricity transmission network will be constructed from the generation site to the existing Armidale-Kempsey 132 kV line 965.

A new road south of the Macleay River will provide reliable access to the site. The new road will connect with the Kempsey Road close to Smiths Bluff. Site investigations and consultation are underway.

Access to the upper reservoir will be via a new road from the lower reservoir site, removing the need to use the Carrai Road.

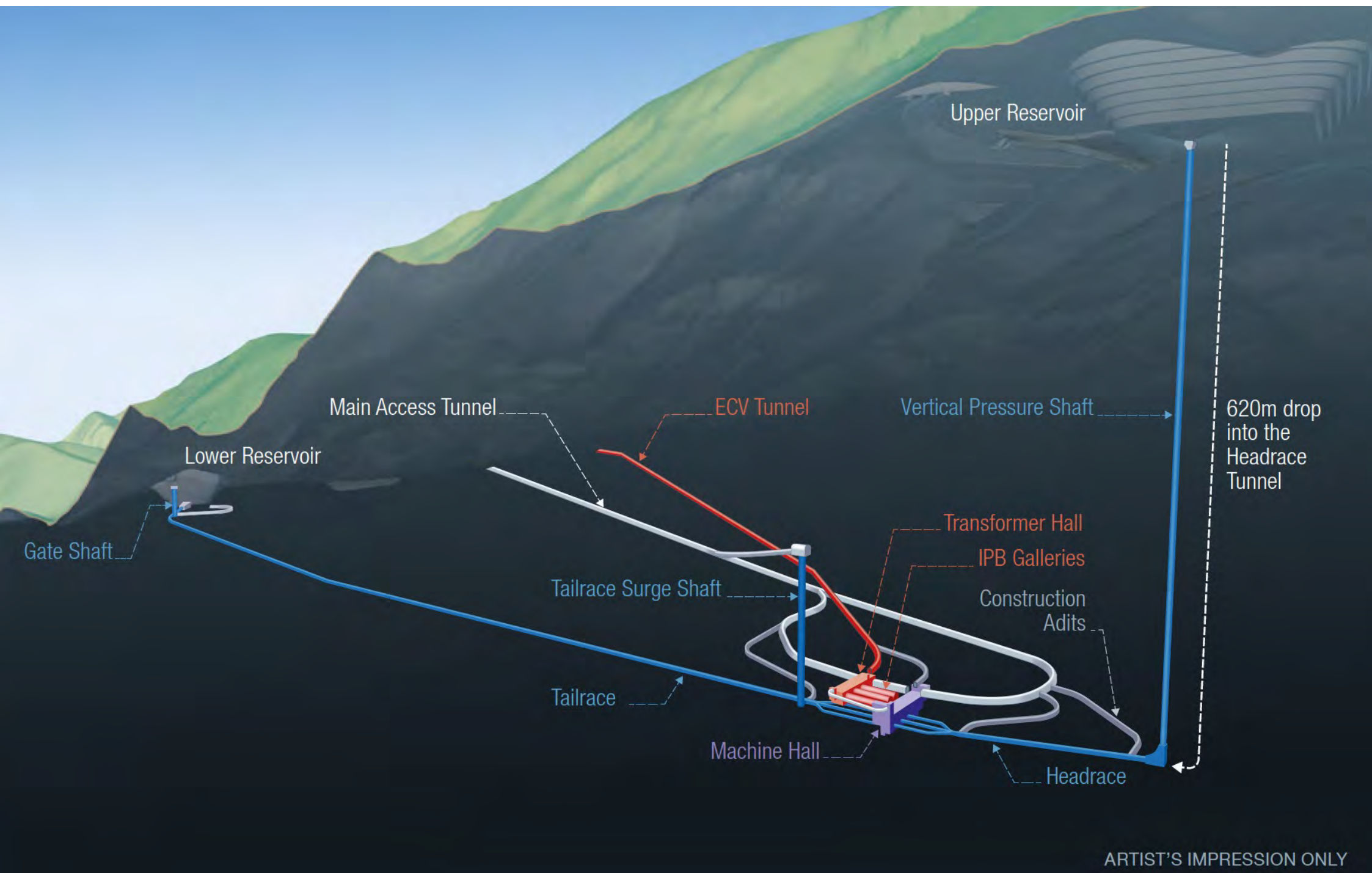
Upper Reservoir
12 Hectares.

Waterway, access tunnels, and an underground pumped hydro-electric power station.

Lower Reservoir
16.8 Hectares.







Key Features

Generation Infrastructure

- Underground power station complex (consisting of two main caverns and several interconnecting tunnels)
- Dams and reservoirs (two concrete faced rockfill dams and reservoirs)
- Power waterway (consisting of high-pressure shaft and tailrace)
- Water intake structures (two intake structures, one at each reservoir)
- Spillway (two concrete lined spillway chutes, one for each dam and reservoir)
- Pump facility (for the initial fill and ongoing reservoir top-ups)

Ancillary Development (Construction and Operation)

- Access roads, access tracks and bridge
- Approx. 40km of permanent roads with approx. 25km being newly constructed roads
- Surface works pads and construction (temporary) Accommodation camp
- Concrete batching plants, mechanical and electrical workshops, laboratory, and various water treatment areas

Transmission Infrastructure

- Connection works within approx. 15km long transmission alignment (connecting to the existing Armidale-Kempsey 132 kV Line 965)
- 330 kV and 132kV electricity infrastructure, including towers.
- Substation (substation and associated connection infrastructure of up to 330 kV rating)

Project Update

- The Oven Mountain project has been declared **Critical State Significant Infrastructure** and is presently undergoing the NSW planning and environmental process.
- The **EIS** provides “information on the economic, environmental, and social impacts of the project. It helps the community; government agencies and the approval authority make informed submissions or decisions on the project” (NSW Government).
- **Community engagement:**
 - Information sessions in Armidale, Hillgrove, Ebor, Lower Creek, Bellbrook, Willawarrin, Kempsey, Frederickton and South West Rocks.
 - Engaged with First Nations communities, landowners, service providers, and local businesses.
 - Provided eNewsletters (+1,000 people); printed newsletters and factsheets; SMS service; project website, and 1800 number.
 - Supported Armidale, Walcha, and Kempsey shows and local initiatives.
 - Established of a Community Information Hub in Kempsey.
 - Developed videos and animations to explain the project – clear and accessible communication.

Next Steps

- **Development of an Industry Participation Plan and industry activities.**
 - ensure full, fair and reasonable opportunity for Australian industry to compete for work in major projects.
 - Engaging the Industry Capability Network and holding industry briefing sessions.
- **Community Benefit Sharing initiatives.**
 - Benefit sharing involves working collaboratively with communities to establish positive and productive long-term relationships that foster current and future vitality and success in the region.
 - Based on local needs, co-designed with the community, and embody genuine collaboration.
- **Ongoing Community Engagement.**
 - Ensuring the businesses and community groups understand the project scope and timelines.
 - Fostering genuine and meaningful long-term opportunities for all peoples, communities, and businesses.

Stay Connected

- Accessing business and employment opportunities.
 - Register with the Industry Capability Network NSW (ICN NSW).
 - Visit the ICN Gateway Project Portal and view over 80 work packages.
- Having your say on the planning and environmental process.
 - Visit the NSW Government's Major Projects Portal - www.planningportal.nsw.gov.au/major-projects/projects/oven-mountain-pumped-hydro-energy-storage
 - All planning approval documents – including the Environmental Impact Statement – is available on the NSW Government's Major Projects Portal.
 - The Environmental Impact Statement is on public exhibition from 19th September to 16th October.
- Learning more about the project.
 - Visit our Community Information Hub at 2/28 Clyde Street, Kempsey (Tuesday to Thursday, 10:00am to 3:00pm).
 - Call us toll-free on 1800 518 194 or email info@ompshydro.com.



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Industry Capability Network (ICN)

Presented to:

MACLEAY VALLEY BUSINESS CHAMBER

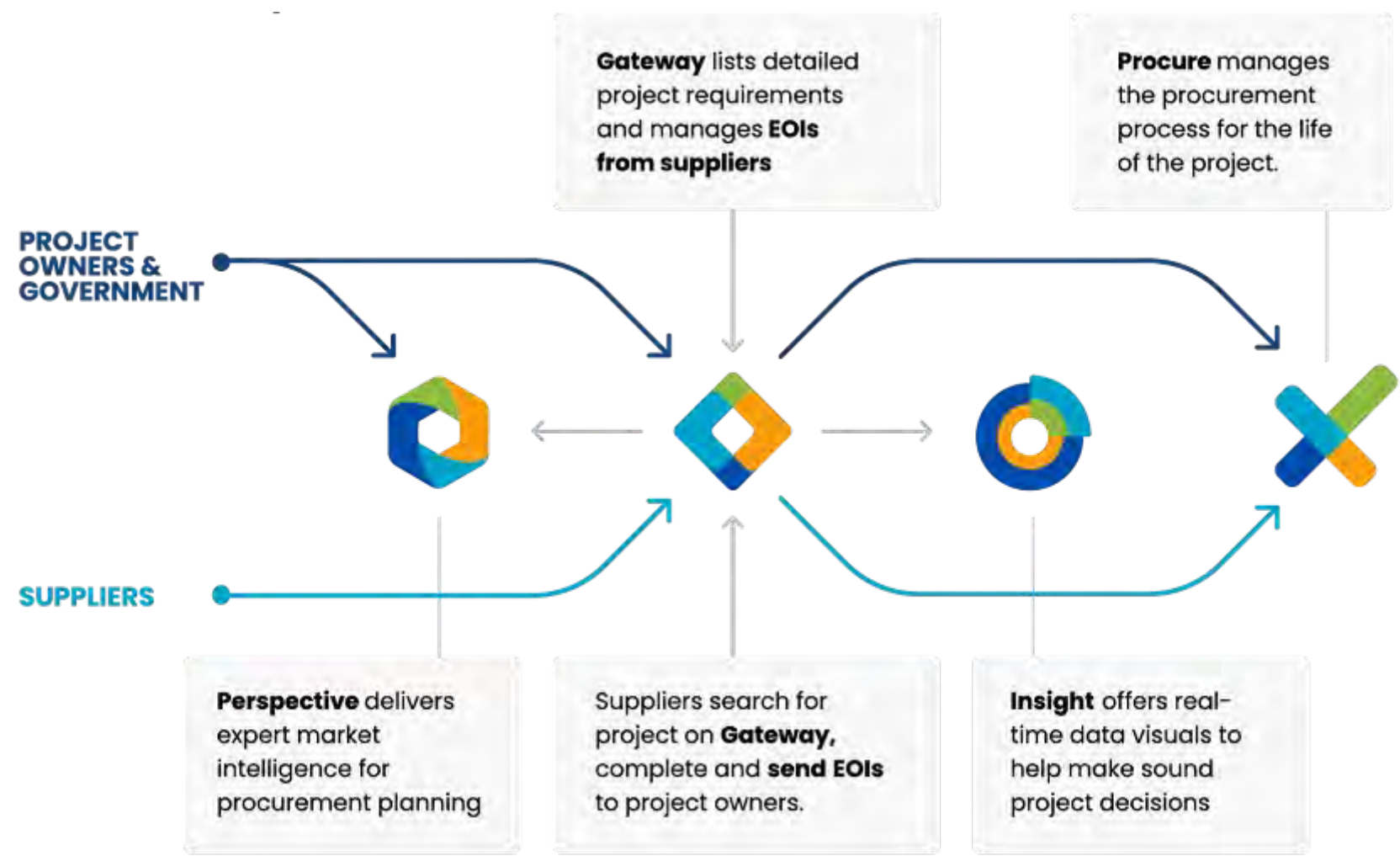
Oven Mountain Pumped Hydro Storage Project

KEMPSEY – 27 September 2023

Prepared by Dusko Bajic



The ICN Ecosystem



Our integrated service offering means you can choose to use some or all our products in your procurement journey

We offer various additional services from Industry Briefings and Meet the bidder/buyer sessions to supplier identification services

ICN Gateway



gateway.icn.org.au

- “LIMITED – FREE” subscription to be selected
- Create a comprehensive capability profile on ICN Gateway
- Receive new project alert notifications and newsletter
- Express interest in works
- Receive assistance from NSW consultants on new opportunities
- Be invited to project briefing or networking



icn.org.au



Standard information on supplier resumes includes:

- Contact details
- Product and services
- Number of employees and turnover
- Client and project history
- Third party certification
- Licences and insurances
- Indigenous ownership and indigenous employment

About ICN NSW



Established in 1985

NSW government
funded not-for-profit
organisation



Free Business match-
making service for
buyers and suppliers

Enable major projects to
maximise local and
Indigenous industry
participation



Head office in
North Sydney

Regional offices in,
Parkes, Newcastle,
Nowra and Wagga
Wagga



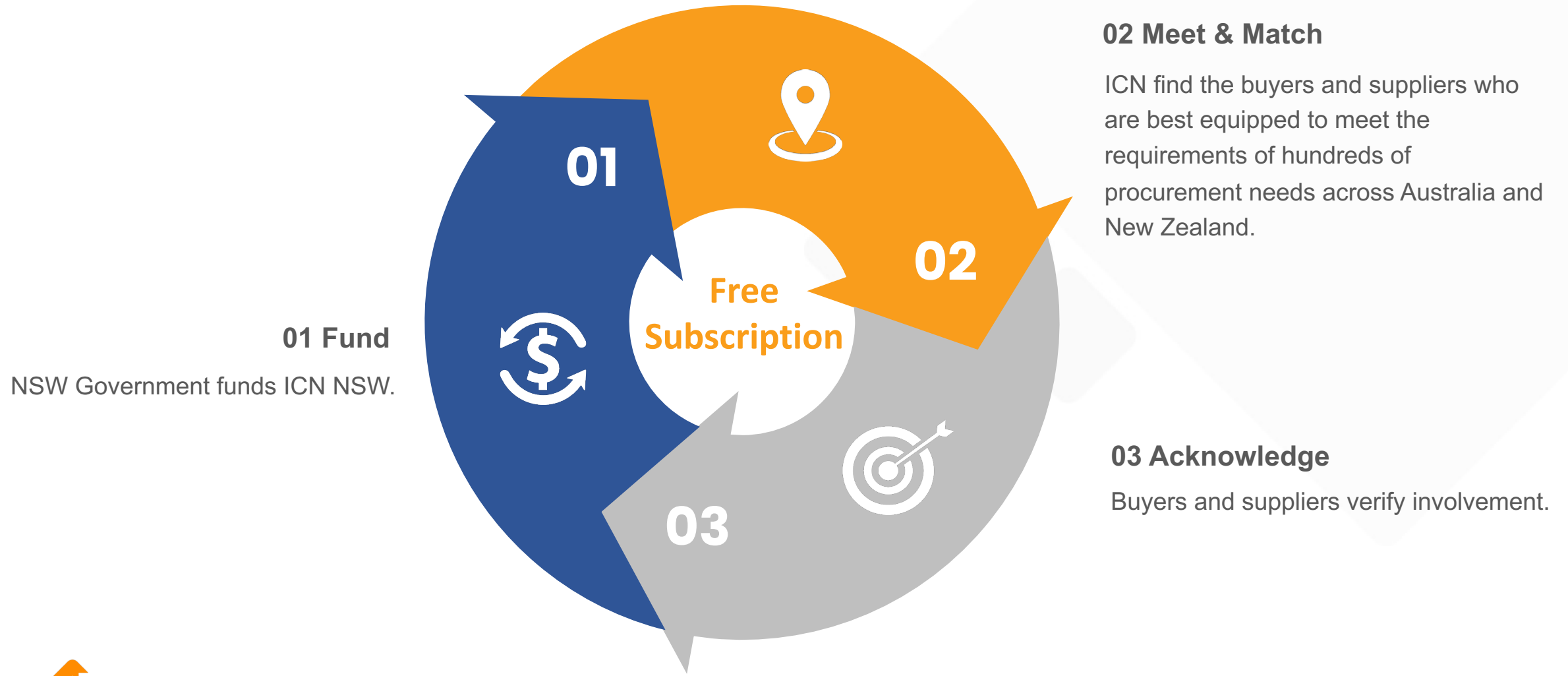
Comprehensive online tool
ICN Gateway



Applies experiences and
contacts of individual
team members to assist
industry



How does it work?





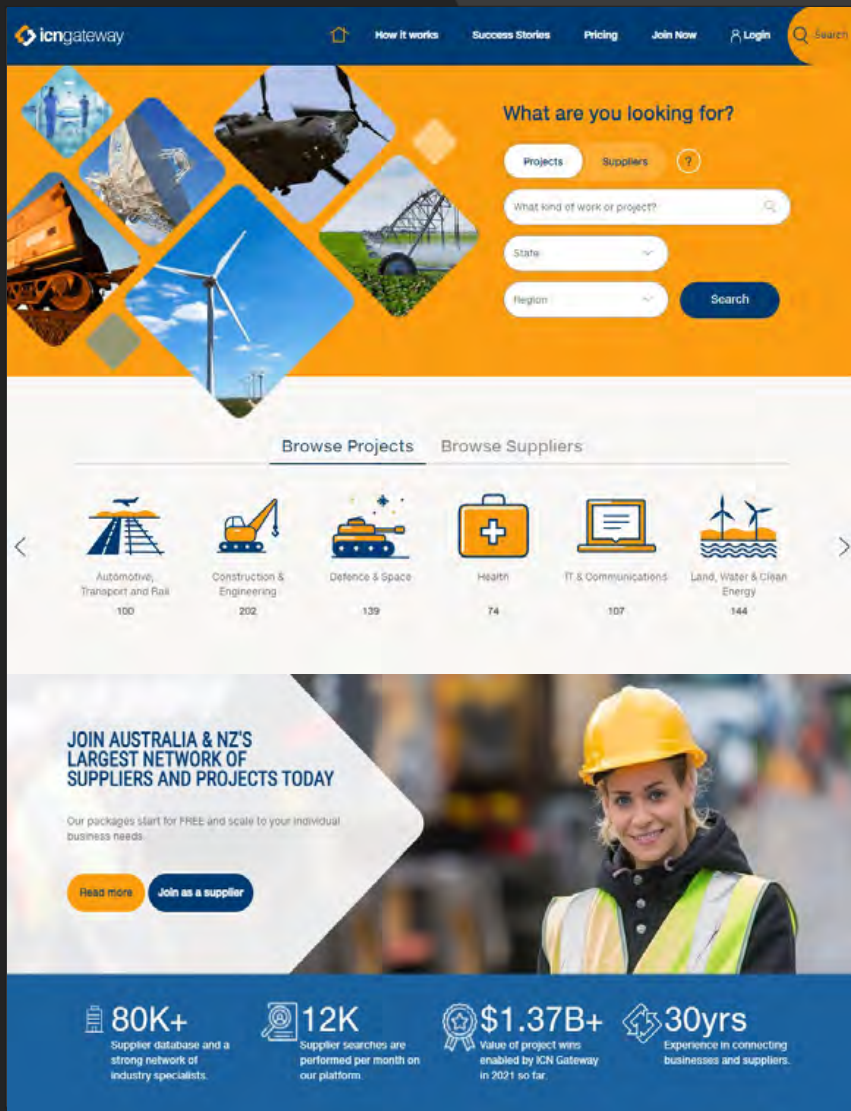
BUYER

- Discuss project requirements and time frames
- Promote project on ICN Gateway
- Facilitate industry briefing and events
- Communicate project via social channel, email, newsletter and industry associations
- Identify and map local suppliers and indigenous businesses
- Provide transparent EOIs report
- Introducing the successful contractors once awarded



SUPPLIER

- Visit suppliers to understand their capabilities, capacities and interests
- Inform and discuss projects
- Assist to create and optimise company profile on ICN Gateway
- Invite to industry briefing or workshop
- Assist to submit EOIs
- Promote supplier on social channel



About ICN Gateway

ICN Gateway is a public project portal, offering industry full, fair and transparent opportunities for involvement.

gateway.icn.org.au

Buyer

- Promote project in a robust project information page
- Receive periodic EOI report with company information and answers to questions during EOI process

Supplier

- Free subscription perfectly sufficient
- Create a comprehensive company profile on ICN Gateway
- Receive new project alert notifications and newsletter
- Express interest in works
- Receive assistance from NSW consultants on new opportunities



icn.org.au

Current Feature Projects



TRANSPORT

- M6 Stage 1
- Sydney Gateway, Stage 1 & 3
- Newcastle Inner City Bypass
- Great Western Highway Upgrade
- Coffs Harbour Bypass



RAIL

- Inland Rail
- Botany Rail Duplication
- Sydney Metro



CLEAN ENERGY

- Walla Walla Solar Farm
- Wellington North Solar Farm
- Rye Park Wind Farm
- New England Solar



RESOURCE

- Snowy 2.0
- EnergyConnect
- Maragle Switching Station and Transmission Line



DEFENCE

- Defence Estates – Riverina Redevelopment Program
- BAE Systems Hunter Class Frigate Program
- Land 125 Phase 4 Integrated Soldier Systems

Oven Mountain Pumped Hydro Energy Storage Project

Project Overview

Work Packages

The Project

OMPS Pty Ltd is developing the Oven Mountain Pumped Hydro Energy Storage Project – an 'off river' development located adjacent to the Macleay River between Armidale and Kempsey in the New England Renewable Energy Zone.

The Project involves the construction and operation of a hydro-electric scheme, which includes two 'off river' water containment structures to create an upper and a lower reservoir on an ephemeral tributary of the Macleay River.

The Project will play a key role in the required decarbonisation of the National Electricity Market. It will aid in the transition of the power grid towards cleaner, more reliable and affordable electricity by supporting up to 1,600 MW of new renewable energy projects.

An underground power station complex will be connected to the reservoirs by tunnels and other infrastructure. The Project will produce up to 900 MW of electricity and will store enough water for up to between 8 and 12 hours of dispatchable, reliable energy at full generation.

The Project intends to transmit and receive power by connecting to an existing Transgrid transmission line that runs between Kempsey and Armidale, known as Line 965. The Project includes the establishment of a transmission connection to Line 965, including the construction of a substation and connection infrastructure, access roads and transmission lines rated up to 330 kV.

The transportation access route to the Project area is via the Kempsey-Armidale Road. The Project will require a new two-lane unsealed access road and a minimum of one new single lane low-level bridge crossing of the Macleay River, to connect the Project area to Kempsey Armidale Road.

It is proposed that water used for construction purposes and the initial one-off filling of the reservoirs



Project at a glance



NSW Australia



Market Sounding


















OMPS PTY LTD



1.8B

Contact Details

Work Package	Documents	Full Scope EOI	Partial Scope EOI	Status
+ Biodiversity Offsets	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Cultural Heritage	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Dilapidation Survey	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Geotechnical and Geology Services	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Owners Engineering Services	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Pre-Construction Works Package including Management Plans	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Survey Services	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)		 Open
+ Environmental, Flora and Fauna Management		→ Create EOI		 Open

Work Package	Documents	Full Scope EOI	Partial Scope EOI	Status
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— 04 Construction

+ Access Road - Bridge Construction	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Cement and Aggregate Supply	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Civil Works Products and Supplies	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Concrete Formwork	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Concrete Supply and Batching Plant	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Contract Management	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open
+ Crushing and Screening	 Scope Doc	→ Create EOI Closes: 31 Mar 2023 (AEDT)	 Open

OVEN MOUNTAIN PUMPED HYD

icntoolbox.icn.org.au - Copyright

Reminder: Travel to Coff

Oven Mountain Pumped Hydro

Any Document Template (Colour

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Any Document Template (Colour)

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1

2

3

PUMPED HYDRO STORAGE

EXPRESSION OF INTEREST	
Project Title.	Oven Mountain Pumped Hydro Energy Storage project (OMPS)
Project Description.	<p>OMPS Pty Ltd is developing the Oven Mountain Pumped Hydro Energy Storage Project - an ‘off river’ development located adjacent to the Macleay River between Armidale and Kempsey in the New England Renewable Energy Zone.</p> <p>Declared Critical State Significant Infrastructure, the Project will provide clean energy generation and storage capabilities, ensuring a reliable, resilient, and renewable future energy supply for NSW.</p> <p>The Project will include the construction of upper and lower reservoirs, underground pumped hydro-electric power station, as well as a new electricity transmission network from the generation site to the Lower Creek area. The Project will also involve upgrades to existing local and regional roads</p>
Work Package Title.	Cement and Aggregate Supply
Work Package Description.	<p>OMPS is undertaking a marketing evaluation to procure suitably capable, qualified local and regional businesses who have the ability to provide the following Cement and Aggregate Supply for the OMPS project.</p> <p>OMPS has selected specific expression of interest categories for businesses to ensure the best chance of evaluating the marketplace, and recognising where local and regional business can assist into the project.</p> <p>This expression of interest is for all suppliers who have an Australian Business Number (ABN), and are suitably capable for the following items (below):</p> <ul style="list-style-type: none">• Providing concrete aggregates, cement, gravel, sand (etc..) and other requirements for the project• Procedure of the construction of: setting out, mixing, placing, curing, finishing of cement and aggregate supply
Supplier Requirements.	<p>Procurement for the OMPS project will be undertaken by a main works construction contractor. When appointed, that contractor’s pre-qualification requirements will include the following requirements:</p> <ul style="list-style-type: none">- Australian Standards- Key prequalification standards for construction (e.g., workers compensation, liability and workers insurances, licences, qualifications, right-to-work, etc.)- Commonwealth Government requirements

31°C Sunny

5:03 PM 21/02/2023

OMPS - Available Opportunities

80 Workpackages in 13 Categories

1. Design, Survey & Environment – 8 WP
2. Local Engagement– 3 WP
3. Health & Safety– 5 WP
4. Construction – 21 WP
5. Electrical & Instrumentation – 9 WP
6. Employment – 2 WP
7. Logistics– 4 WP
8. Transport – 2 WP
9. Camp & Accommodation Services – 15 WP
10. Structural & Mechanical– 9 WP
11. Utilities – 2 WP
12. Civil (Roads & Rehabilitation) – 5 WP
13. Underground Construction – 4 WP



Your Profile Creation



- Facts in plain language (no photos)
- Include all company and business names
- Pithy, direct and compelling summary (1,000 words)
- Include differentiators (Accreditations, Licenses, Patents, IP, management systems, etc.)
- Resources – additional locations, facilities, equipment, staff
- List products and services in detail, including sidelines
- Track record – clients, projects
- Contact details
- Include all keywords (anywhere in the profile)



Suppliers vs Buyers

Suppliers

- Have strong technical skills
- Writing capability statements is not their day job
- May not know what decision makers want to know
 - If the value they can deliver is not clear, they can be 'invisible' to decision makers

Buyers

- Time poor - need to quickly understand supplier value and capabilities
- Use capability statements, ICN Gateway EOI registrations, websites, supplier registration – hundreds of listings
- Judge professionalism and 'project readiness' on the quality of capability statements
- Poor capability statement = a barrier to opportunities
- If required info is hard to find/understand – ditch it and go to next supplier





- Collaborate with others, someone in the room may be the link to a project opportunity
- Look for opportunities to build your experience and capabilities – a springboard for the future
- Put your hand up – let the projects know you are interested
- Be persistent, but not pest
- Be strategic – Innovation led to solve a problem
- Ask
- The buyers are ready to pay reasonable price for products and services delivered on time and at agreed quality



Some tips given to suppliers



Do these

- Demonstrate the value you offer immediately
- Reassure on risk management
- Show you fit with project requirements
- Show you are constantly improving
- Show you have a well managed business/use of technology/work management
- Skills and depth of expertise



Avoid

- Assuming people know what you do
- Being modest – you must explain your strengths & values
- Long introduction
- Family history/personal journeys (best in brochures or your website)
- Elevator pitch on 3rd page

Best Practice



Consider to answer the following:

- What does the customer need that I supply?
- Why I am better than my competitors? (there are always competitors)
- How I can say it powerfully and briefly?
- Are you able to answer “Why me”?
- E.g. “we offer a 30% reduction in manufacturing (operating) costs due to our technology “XYZ3” which gives time improvement as demonstrated by our delivery history.



ICN Presence in Mid-North Coast

ICN has substantial presence in Mid-North Coast region, including **Bellingen Shire Council, Clarence Valley Council, Coffs Harbour City Council, Greater Taree City Council, Kempsey Shire Council, Midcoast Country Council, Nambucca Shire Council, Port Macquarie-Hastings Council**. However, further communications activity around a project, which includes directions on how a company can be involved, will further increase access to local businesses and leave a legacy for future projects, whatever they may be.





Thank you.

Dusko Bajic

Hunter and North East NSW



Driving economic growth through our trusted network.

We build powerful procurement and supply chain tools, offer expert advice and support and everything you need to get work and get work done.

Phone: 0417 323 636

Email

dbajic@icnnsw.org.au



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