





At UGL, we recognise sustainability is a long term, dynamic and strategic imperative for our clients, our business and the communities in which we work.

Sustainability at UGL is guided by our Vision to be recognised as the "best of the best" by our clients, shareholders and our people.

We complement and enhance our clients' sustainability objectives through our leading engineering capability to decarbonise asset life cycles end to end.

We look forward to partnering with our customers, employees and stakeholders, towards a better future.

**Doug Moss Managing Director** 



# **Sustainability** is a core principle of innovation at UGL

Sustainability is a core component of innovation, one of our guiding principles. We are guided by our sustainability policy, considering sustainability as the integration of environmental, social, and governance factors into decision-making at UGL and for our clients.





# **Highlights include:**

# **Building our fleet of solar hybrid power systems**

Providing remote power whilst achieving up to 75% reductions in fuel consumption, compared with traditional diesel generator equivalent.

# Infrastructure that enables the energy transition

In 2023, 22% of UGL revenue came from sustainability rated scopes of work or cleantech infrastructure projects.

CLEANTECH: SOLAR GENERATION, BATTERY STORAGE AND/OR ELECTRICITY TRANSMISSION PROJECTS

### Large scale solar energy generation fleet

UGL has delivered 800MWp of Australia's large scale solar generation fleet as of 2023.

# **Grid scale battery storage**

UGL has delivered approximately 23% of Australia's grid scale battery storage capacity projected to December 2025 (2843MWh constructed).

### **Carbon neutral GreenPower**

from 2025, 20% of UGL's energy will be purchased from GreenPower.

# **Indigenous procurement**

We have procured over \$112 million of products and services from Indigenous businesses since 2021.

# **UGL's capacity**

**Employees** 

>9,000

External workforce

>20,000

Professional design engineers

>800

Safety conversations per year

>32,000

Corporate partners with

Credentials





Member of ISC since 2017



**Authorised Engineering Organisation & National Engineers Register** 





ISO Certified 45001; 9001; 14001; AS/NZS 4801



**UGL's 4th Reconciliation Action Plan** (Stretch RAP 2022-2025)



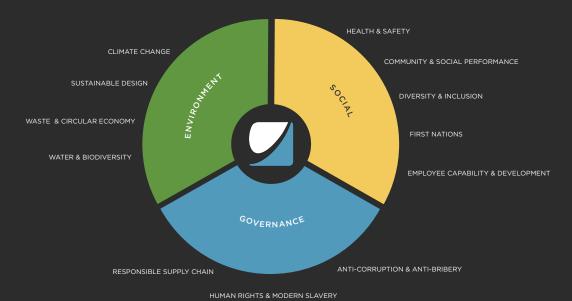


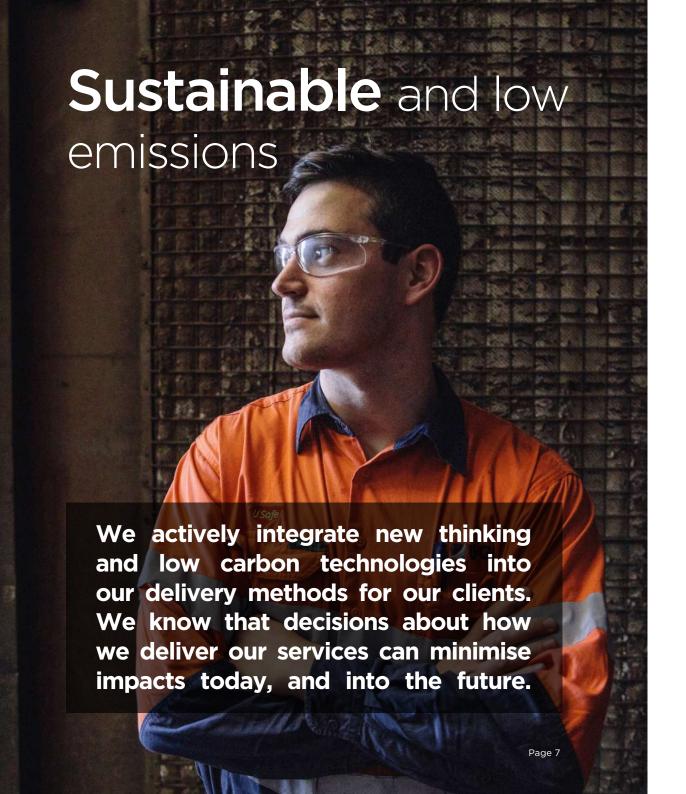
# How we think about sustainability

At UGL we think about how sustainability applies today and tomorrow in:

- Our delivery of key sustainable infrastructure that supports the energy transition
- The technology and methods we use when delivering infrastructure to minimise impacts
- The positive legacies our work can have in the communities around us

UGL's Sustainability Plan sets our internal ambition. We want to increase sustainable outcomes from our work and partner with our customers on shared sustainability aspirations.





# Low and no emissions fuel and energy use

A primary offering to our clients is the reduction of delivery phase greenhouse gas emissions. Increasingly, hybrid or electric drive plant, equipment, and vehicles have become standard options, allowing us to reduce Scope 1 and 2 emissions.

Through our supply chain partners, we provide access to a wide range of low or no emissions plant and equipment, such as electric and hybrid light utility vehicles, electric materials handlers and hybrid energy generation solutions.





It's not just what we deliver, it's how we do it. Our sustainability plan and net zero ambition guides our adoption of low emissions technologies for clients

- SEAN HELBIG | GROUP SUSTAINABILITY MANAGER

# Solar hybrid power systems

Operating in the remote Kosciuszko National Park, the UGL team invested in a 45kVA solar hybrid generator, to supply power for project offices.

This new technology is forecast to achieve a 78.4% reduction in fuel consumption, and a 22,243kgCO2e emissions reduction when consumption is compared to a traditional diesel generator.

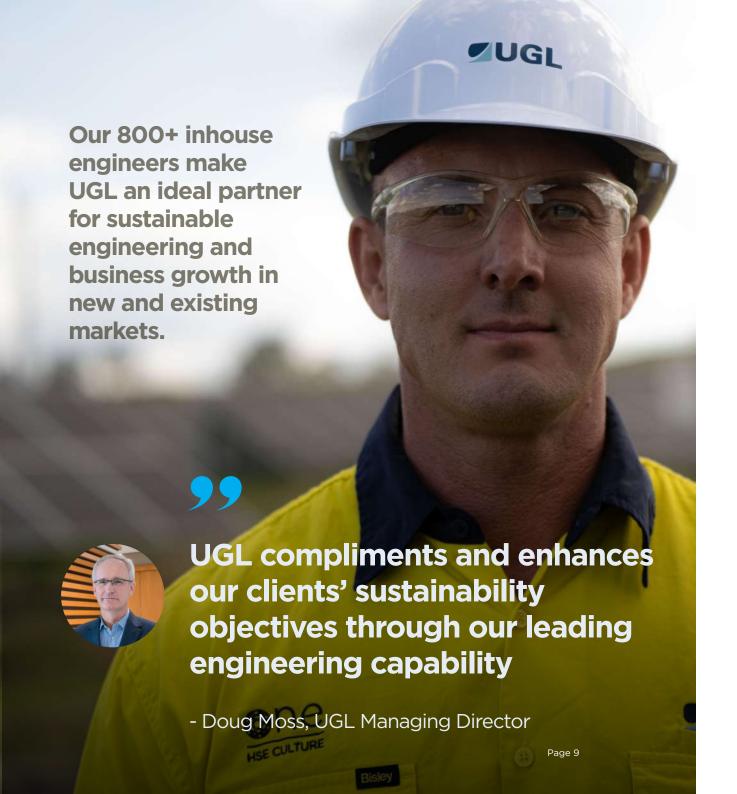


UGL's rail and technology systems team at the Auburn workshop replaced their liquefied petroleum gas (LPG) powered forklifts with battery electric equivalents.

Unlike LPG forklifts, the electric forklifts produce zero tailpipe emissions, reducing our Scope 1 emissions footprint and our clients potential Scope 3 emissions.







# Engineering & sustainable design

At UGL, we approach sustainable design in two fundamental ways:

### **FORM**

How do we minimise the impact of infrastructure materials and their physical presence in the world?

This involves solutions such as using low carbon steel and concrete, as well as smarter design strategies to reduce the overall physical footprint.

# **FUNCTION**

How do we minimise the impact of infrastructure use over the long term?

This entails considering long-term operational efficiency, such as low energy requirements, resilience to drought or flood conditions, and visually blending into existing urban environments.

# Aluminium composite reinforced conductor type

UGL's electricity transmission projects are building the backbone of Australia's energy sector transition.

UGL's design engineers are utilising aluminium conductor composite reinforced (ACCR) conductor types to help unlock maximised electrical generation for the design life of this infrastructure.

Improved conductivity means more clean electrons making into Australian homes, for longer.

Sustainable design, through form and function, allows UGL to deliver infrastructure that reduces resource needs, and integrates into communities for the long term

- CAMERON MATTHEWS | ENGINEERING GROUP MANAGER

# procurement

# Giving you access to a world of sustainable supply chain partners

Number of UGL suppliers

>8,500

Global footprint: number of supplier countries >35

% of local suppliers

95% (Aus)

# of product categories we procure

>40



Leveraging strategic procurement with our supply chain partners, UGL has adopted a systems-thinking approach, delivering sustainable solutions to our customers

- ALEKS LAZAREVSKI | SUPPLY CHAIN & PROCUREMENT MANAGER







Verified Aboriginal and Torres Strait Islander businesses registered with UGL (2024)

115

Total spent with Aboriginal and Torres Strait Islander peoples or businesses (2021-2024)

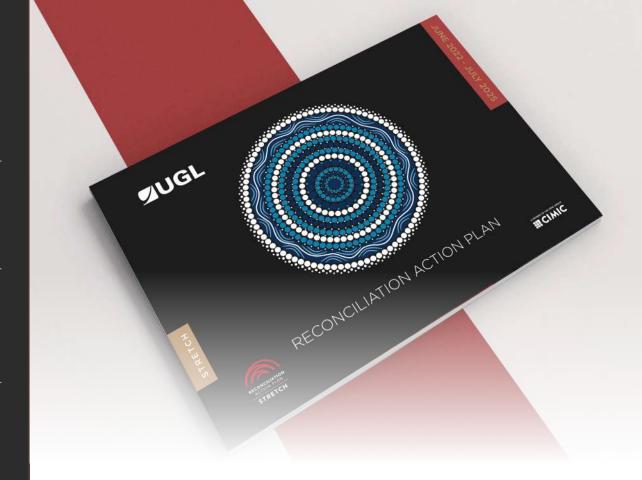
112M

Number of Aboriginal and Torres Strait Islander businesses spent with (2021-2024)

133

UGL maintains an expansive and growing Aboriginal and Torres Strait Islander supplier base.

We are also supported by our supplier partners:

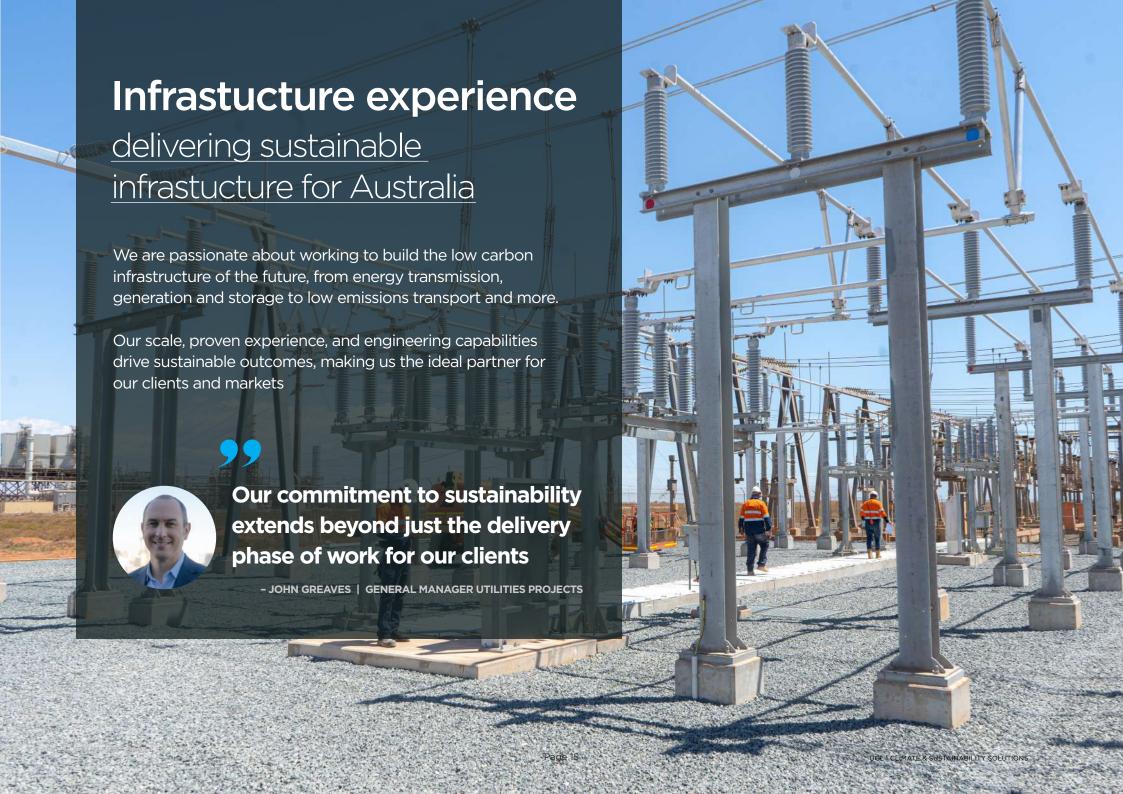








Partnering with Aboriginal & Torres Strait Islander suppliers



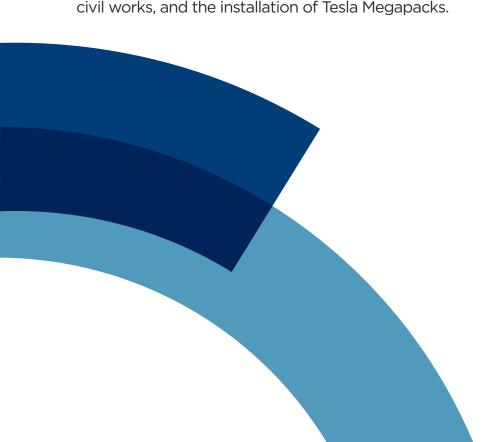


# **Victorian Big Battery**

**VICTORIA** 

In ensuring grid stability, the Victorian Big Battery will be instrumental in helping Victoria reach its target of 50% renewable energy generation by 2030. UGL was proud to have been part of the ground-breaking 300MW/450MWh Victorian Big Battery, improving the reliability of energy supply for many Australians.

UGL, as subcontractor to Tesla, played a key role in the design, construction and procurement of the plant and civil works, and the installation of Tesla Megapacks.







# **Port Headland BESS**

**WESTERN AUSTRAILA** 

This 35MW/35MWh BESS and 66kV bay expansion at the Port Hedland Power Station supplies renewable energy for large mining customers in the Pilbara region of Western Australia.

UGL is responsible for the engineering, procurement, construction, and commissioning of the facility for our client APA Group.



# Renewable energy generation

UGL is a major player in the engineering, design, construction and operation of solar in Australia. UGL's in-house capability allows us to provide grid integrated or standalone power generation assets.

As of 2023, we have delivered 800MWp of Australia's large scale solar generation fleet across 13 solar farms.

# Glenrowan Solar Farm

**VICTORIA** 

UGL provided comprehensive design, procurement, installation and commissioning the 130MW facility. The farm comprises of over 220,000 bifacial modules, 30 inverters and 2,150 trackers.

MANAGAM



# **Power supply**

### TRANSMISSION LINES AND SUBSTATIONS

UGL has constructed more than 6,300 kilometres of high voltage transmission lines. Our power experience exceeds 280 substations since 1991 and 10 gas turbine power stations since 1994.





Electricity transmission infrastructure is the backbone of the energy transition. Our power infrastructure expertise supports clients to increase renewables penetration and improve grid stability

- ANDREW VAUGHAN, NATIONAL POWER OPERATIONS

# Kaban Green Power Hub QUEENSLAND

UGL works are supporting the Hub's connection to the national electricity grid. The hybrid wind, solar and pumped hydro hub is located 280 kilometres west of Townsville in Queensland.

UGL is responsible for the design, construction and installation of a 186 kilometre, high voltage transmission line from Kidston to Mount Fox, and a new 275 kV switching station located at Mount Fox.



UGL is the lead contractor selected by Transgrid to deliver the western section of the HumeLink high voltage electricity transmission project. The UGL and CPB Contractors joint venture is responsible for the engineering, procurement, construction and commissioning of the western portion of HumeLink, including 148kms of 500kV transmission lines, from the Snowy 2.0 connection at Maragle to Wagga Wagga. The joint venture will also construct two new 500kV substations at Gugaa and Maragle and an augmentation at Transgrid's existing Wagga Wagga 330kV substation.

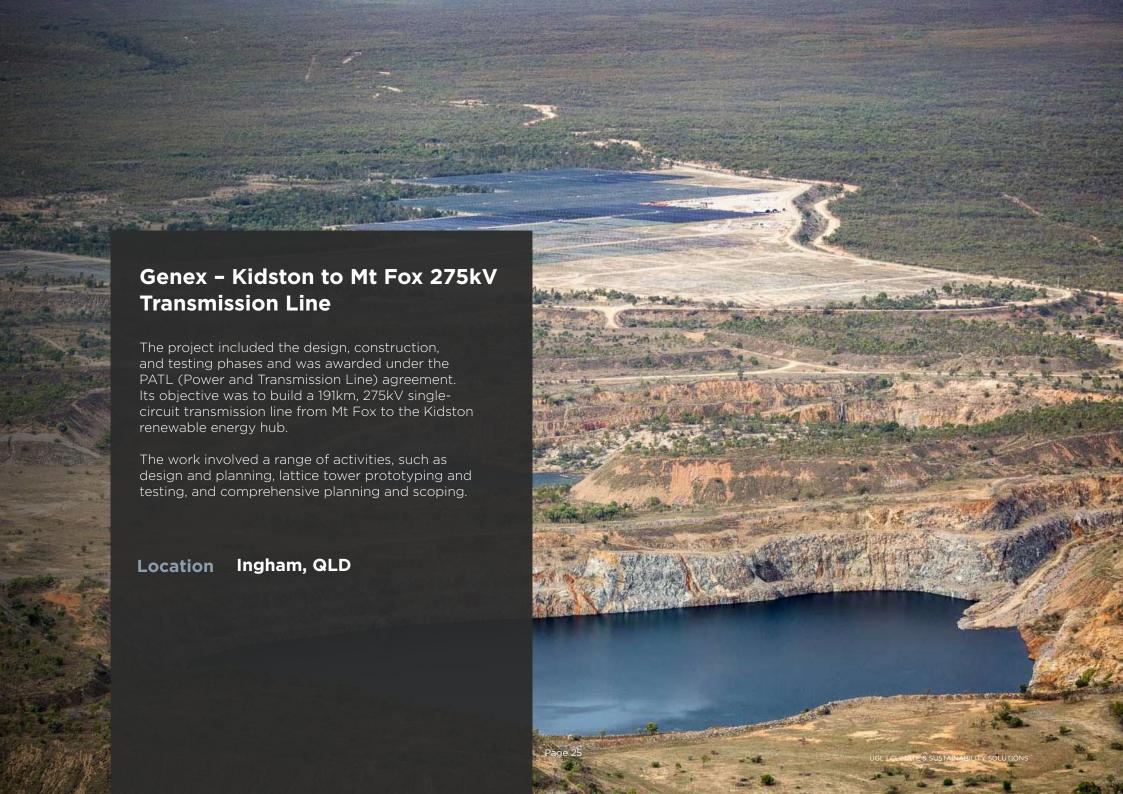
# **MacIntyre Wind Precinct Connection Project**

**QUEENSLAND** 

UGL successfully completed the stringing phase at Powerlink Queensland's MacIntyre Wind Precinct Connection Project in 2024. This involved the construction of 63km of 330kv steel lattice structures (comprising 157 towers) and eight steel poles, marking a crucial step towards powering the MacIntyre Wind Farm.

The stringing process encompassed a blend of double circuit (48km) and single circuit (15km) 330kv lines. The UGL team used both helicopter-assisted and conventional methods, demonstrating UGL's commitment to cutting edge techniques.

















# **Sydney Metro Line-wide** works

### **NEW SOUTH WALES**

The Sydney Metro Line-wide works piloted the use of geopolymer sleepers in tracklaying at the Sydney Metro Trains Facility South.

Geopolymer concrete sleepers are made from minimally processed natural materials or industrial by-products, reducing the carbon footprint of cement production.

# **Hybrid train fleets**

# **NEW SOUTH WALES**

Australia's first bi-mode diesel-electric hybrid fleet, for the \$2.8 billion Regional Rail Project in New South Wales will reduce carbon emissions and diesel pollution.

The project is being delivered on behalf of Transport for NSW by the country's first regional rolling stock Public Private Partnership (PPP). The Momentum Trains consortium includes CIMIC Group companies Pacific Partnerships, UGL and CPB Contractors.

The new hybrid rail fleet comprises 29 trains for passengers travelling from regional NSW to Sydney, Canberra, Melbourne and Brisbane.

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# Kooragang Island Tertiary Abatement Project

**NEW SOUTH WALES** 

**UGL | CLIMATE & SUSTAINABILITY SOLUTIONS** 

In 2023, UGL successfully completed the Kooragang Island Tertiary Abatement Project in Newcastle for Orica a major step in the journey to decarbonise their operations.

The team implemented cutting edge technology by installing systems that will result in the reduction of greenhouse gas emissions from Orica's three nitric acid plants, reaching a minimum reduction of 98%.





# IAS Technowrap™ optimising high emitting sector

IAS Group is UGL's specialised asset integrity, preservation and decommissioning solutions business. Our composite repair system, Technowrap™ is an innovative product helping to minimise fugitive emissions and releases from oil and gas assets during the energy transition.

The application of IAS Group's Technowrap™ to wall thinning defects on a 12" gas riser on an offshore platform provided an extension to the design lifetime of this section of riser, whilst the improved asset integrity is providing confidence that fugitive emissions will be minimised for the remainder of asset life.



For more information please contact UGL

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