

CLIMATE & SUSTAINABILITY SOLUTIONS



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



Leading in end-to-end asset solutions

UGL is a market leader in end-to-end asset solutions. What sets us apart is our diverse sector experience combined with our focus on operational value. Our whole-of-life offer maximises delivery and performance.

As a member of the CIMIC Group, we offer clients complementary capabilities, scale, and scope – in a cost-effective, high-quality collaboration model.

As a group of companies, our principles are a common bond.



Sustainability is integral to how we operate

Sustainable design capacity

>400

Process, Civil, Structural, Mechanical,
Piping, LV/HV Electrical, Instrumentation,
Controls & Digital Systems Engineers

Employees

8,000

(Aug 2022)

Internal workforce self performing

85%

(Aug 2022)

Contractors

2,000

(Aug 2022)

Credentials

Member of ISC since 2017



Authorised Engineering Organisation & National Engineers Register



Transport for NSW
Authorised Engineering
Organisation



ENGINEERS
AUSTRALIA

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



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



RECONCILIATION
AUSTRALIA

Building the world of tomorrow

Net zero operational emissions (Scope 1,2,3) by 2045

Zero operational Scope 1 and 2 emissions by 2038 (2019 base)

Reduce operational Scope 1 emissions **20%** by 2025 (2019 base)

Reduce operational Scope 2 emissions **35%** by 2025 (2019 base)

Establish and implement long term initiatives to preserve ecosystems and **increase biodiversity**

Develop a market leadership position via business development in the delivery of 'green rated' and **sustainable technology project offers**

Increase the budget for donation and sponsorships by **3%** annually until 2025 (2022 base)

Increase Aboriginal & Torres Strait Islander procurement spend to a minimum of **4%** by June 2023, **4.5%** by 2024 with the goal of reaching **5%** by June 2025

Increase Aboriginal & Torres Strait Islander employment to a minimum of **3%** in March 2023, **3.5%** in 2024 and **4%** in July 2025

Safety Leadership Score **>85%**

17% representation of women in the UGL workforce in 2025

20% representation of women in UGL management and senior positions in 2025

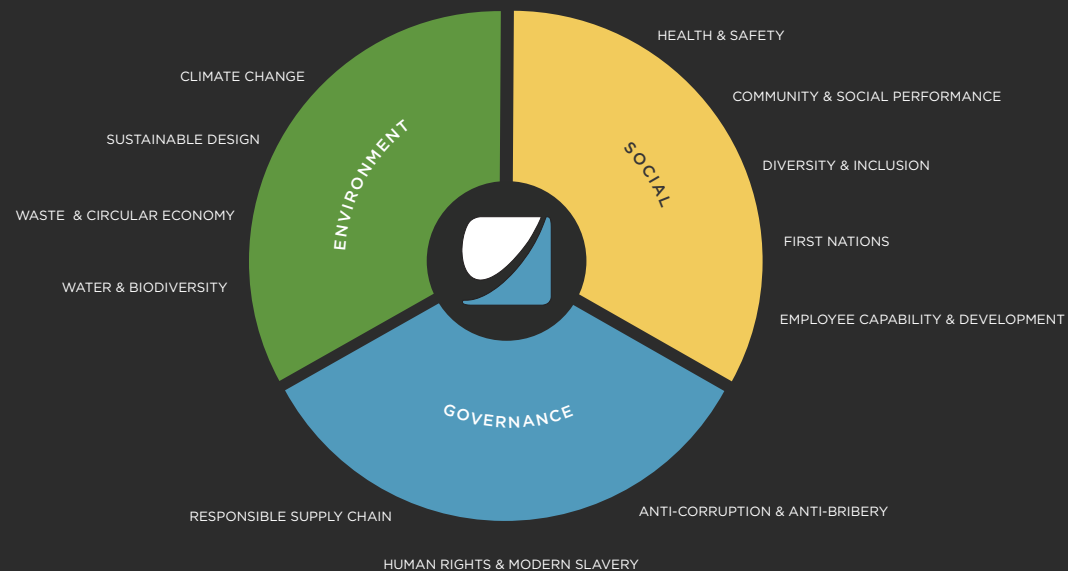
Include **ESG criteria** in 50% of significant suppliers selection process by 2025

Zero breaches of anti-corruption & competition laws each year

Sustainability at UGL

UGL's Principles guide us to do the right thing. Being a trusted sustainability solutions partner for our clients starts with demonstrating sustainability capability when running our own operations.

UGL's Sustainability Plan 2025 exists to maximise the value created from our efforts, by focusing on what matters most. The material focus areas for UGL and our stakeholders are:



decarbonise with UGL



”

UGL complements and enhances our clients' sustainability objectives through our leading engineering capability

Doug Moss | UGL Managing Director

UGL is ready to create the future with you. Energy systems and infrastructure sectors, at home and abroad, are experiencing rapid change driven by social, environmental, and economic forces.

Scale and leading engineering capabilities make UGL an ideal partner for business growth in new and existing markets, such as:

Ammonia

UGL's long history in oil & gas is a natural complement to the development of ammonia production, storage and consumption systems.

Pumped Hydro Energy

Utilising CIMIC Group's end-to-end service model to solve civil, mechanical, electrical, and financing challenges of pumped hydro energy.

Hydrogen

Translating UGL's power systems expertise to hydrogen production and consumption projects.

Low Emissions Freight Rail

UGL is Australia's only manufacturer of Australian-made locomotives. We are striving towards a new generation of Zero Emissions Vehicles.

Telecommunications

UGL stands at the forefront of the digital revolution, bringing technological innovations to our clients.

Electrification

From design, construction and throughout operation, UGL's deep engineering skill optimises every stage of the electricity infrastructure lifecycle.

Asset Efficiency and Transition

UGL's engineering expertise and Technowrap™ product provides high emitting sectors confidence that fugitive emissions can be minimised for the remainder of asset life.

sustainability principles at any point of the asset life-cycle

Design

Feedback from maintenance teams influences design to deliver better whole-of-life outcomes



Considered construction methodology



Continuous improvement



Operations

Considered, structured approach cost effective and outcomes to services and operations



Maintenance

Optimising operational performance



Integrated approach drives innovation and challenges norms



Construction

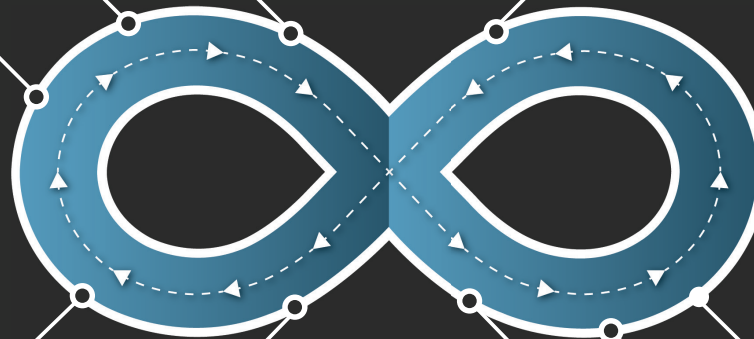
Integrating the design teams



Improving and informing decision making during delivery



Knowledge / risk transfer throughout the project life-cycle



POWER SUPPLY SOLUTIONS

Electrifying the nation

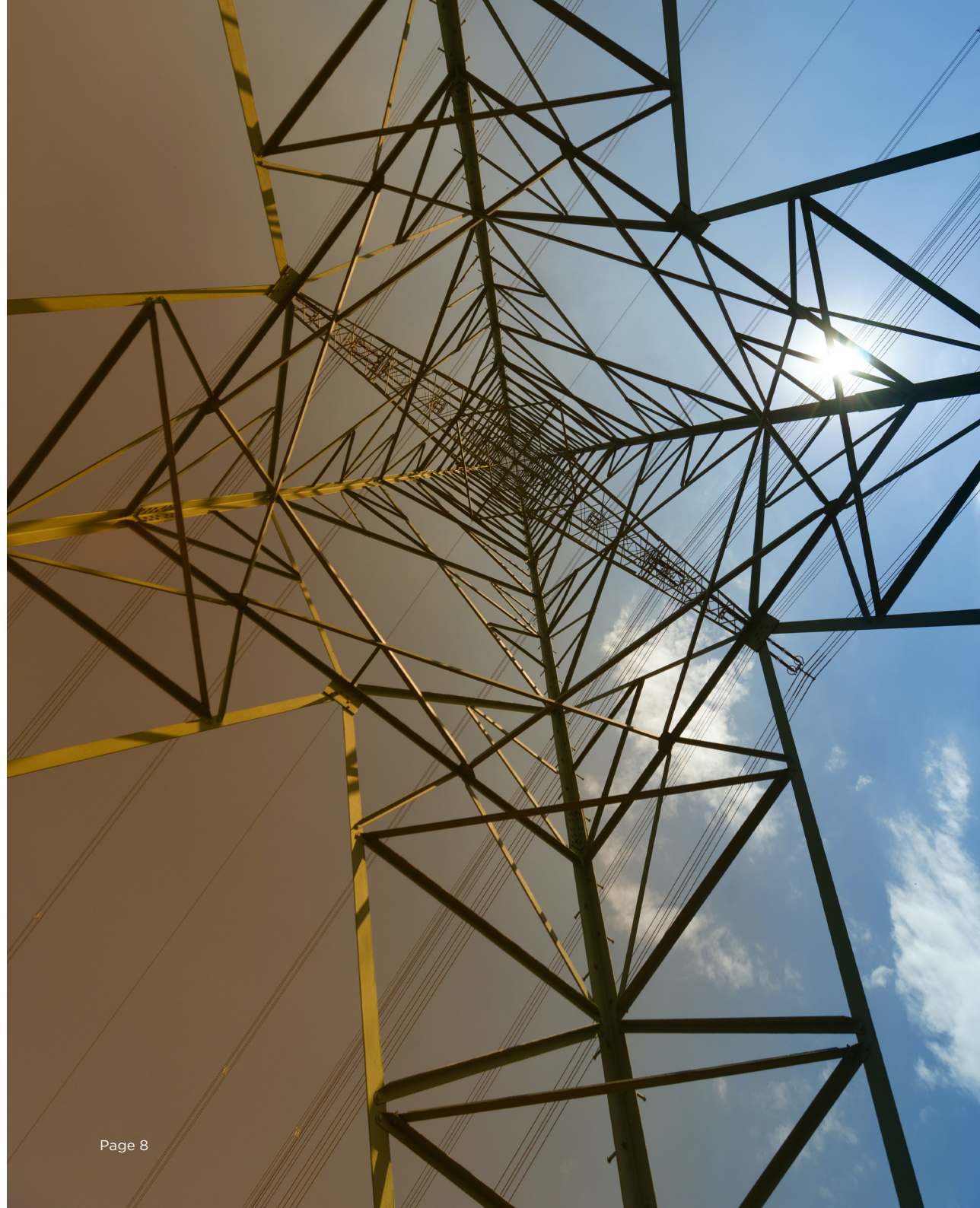
UGL's power sector expertise covers generation, storage, transmission, substations, distribution, networks and integration. From design, construction and throughout operation, UGL's deep engineering skills optimises every stage by striving for the right mix of contract, planning, people, systems and process smarts of your assets.

Case Study: Kidston Clean Energy Hub

In 2021, UGL secured a \$150 million contract for the design, construction and installation of a high voltage transmission line from Kidston to Mt Fox in Queensland, and a new 275kV switching station located at Mt Fox.

This project will deliver a transmission line and switching station to connect the Kidston Clean Energy Hub to the national electricity grid – a vital step in the provision of power to Queenslanders and businesses.

This project is currently underway, and is part of an exciting pipeline of work at UGL, delivering high voltage power projects around Australia, providing communities with a safe and reliable power supply in some of our most remote regions.



NEW ENERGY GENERATION

Solar Power

Renewable energy generation is essential to keep our communities and industries going.

UGL is already one of Australia's leading providers of renewable energy infrastructure, having installed over 450MW of capacity across 11 solar farms in Australia, including the Emu Downs Solar Farm, Badginarra Solar Farm, Kidston Solar Farm, Collinsville Solar Farm, White Rock Solar Farm, Bannerton Solar Farm and Mugga Lane Solar Farm.

UGL's in-house capability allows us to provide grid integrated or standalone power generation assets. For instance, UGL delivered the engineering, procurement and construction, testing and commissioning of the Kidston Solar Project, located on the historical site of the Kidston Gold Mine in Northern Queensland, consists of 540,000 solar panels, offsetting over 120,000t CO₂e of equivalent traditional generation capacity.



ENERGY STORAGE SOLUTIONS

The Victorian Big Battery

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.

The battery unlocks 250MW of additional peak capacity on the existing Victoria to New South Wales Interconnector over the next decade of Australian summers.



EMISSION REDUCTIONS

Low emission locomotives

UGL is Australia's only manufacturer and maintainer of Australian-made locomotives. Our 7 year, \$297m contract to design, manufacture and supply new fuel-efficient diesel electric C44 Evolution locomotives for our longstanding client, Pacific National, is being delivered in New South Wales, contributing to building a strong home-grown supply chain and ongoing local employment.

The new C44ESACi Evolution Locomotive uses the Wabtec Eco friendly Evolution engine to achieve world class heavy haul fuel efficiency and in turn exceed the current RISSB emission standard of 0.27 g/kWh for particulate matter.

Once the fleet is fully rolled out, Pacific National's emissions reduction will equate to 15,000 tonnes each year with a CO2 reduction of 300 tonnes per locomotive each year.



Our capability

CONSTRUCTION EMISSIONS

Onsite Renewable Power

UGL was a member of the Northwest Rapid Transit Consortium (NRT) delivering the Sydney Metro Northwest project.

The Sydney Metro Northwest project is Australia's first driverless metro-style rail line including 8 new stations and a rail maintenance facility.

An Infrastructure Sustainability Council of Australia (ISCA) rating of 'Excellent' was achieved.

As part of this project, a large solar array was installed on the rooftops of maintenance buildings at the depot in order to ensure local solar power was used to power the facility for the remainder of its operating life.



FUGITIVE EMISSIONS

Optimising high emitting sectors

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 Groups 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.



SUSTAINABLE DESIGN

“Excellent” water services

UGL-WSP Adapt JV is Sydney Water’s delivery partner in delivering the \$500M Lower South Creek Treatment Program (LSCTP).

Leveraging UGL’s engineering capabilities, the project has delivered significant sustainability outcomes and is helping pave the way to a more sustainable water services industry, recognised by Sydney Water’s first ‘As Built’ rating of ‘Excellent’.

The project is estimated to achieve a 43% reduction in greenhouse gas emissions over the construction and operational life of the project. With on-site thermal energy recovery and electricity generation, the project is estimated to self-supply 67% of its electricity demand.

The Project has introduced a regional biosolids hub, with the transfer of biosolids from Quakers Hill to St Marys treatment plant. This has created the scale and feasibility for a new anaerobic digestion facility with cogeneration at St Marys, to provide significant energy recovery from biogas, with the flexibility to implement co-digestion.





Our capability

SUSTAINABLE DATA

Data governance for sustainable outcomes

Technology, in the form of SMART Systems and Intelligent Transportation Systems, has been at the heart of UGL's technology offering for over 25 years across road, rail and smart cities markets.

INTEGRA® is UGL's state-of-the-art Operations Management and Asset Optimisation Platform. This key service offering is an important tool to further support clients in meeting their ESG goals and net-zero emissions targets.

With access to real-time data through INTEGRA® our clients are able to optimise their control room management, reporting and analytics – ultimately allowing them to make decisions that will achieve their sustainability objectives in operations.





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