



NEW ENERGY

Capability & Experience



UGL is a tier 1 Australian EPC contractor and a world class provider of design, construction, operations and maintenance services to the new energy, transportation, resources, utilities, communications, and defence sectors.

UGL's principles of integrity, accountability, innovation and delivery – underpinned by safety – are integral to our approach to business and everything our people do. Ultimately, these values are instrumental to our growth, the development of our people and the success of our clients.

integrity
accountability
innovation
delivery

SAFETY





UGL is a wholly owned subsidiary of CIMIC Group Limited and is one of the world's leading international contractors.

CIMIC's Spanish parent, Madrid based construction group ACS, owns 72 per cent of Germany's Hochtief, which in turn owns Australia's CIMIC.

expertise

UGL creates, enhances and sustains our clients' critical assets.

Power infrastructure, networks and storage, and the new frontier of renewable energies such as wind and solar, are essential services that keep our communities and industries going.

Our deep engineering skill optimises every stage of an asset's lifecycle, ensuring certainty with the lowest risk and whole-of-life cost. Our inhouse engineers partner with global technology leaders to develop advanced solutions and position projects to transition as technology develops. This integration also drives better decision-making, fast-tracked problem-solving, optimised performance and seamless transitions from one phase to the next.

In operations and maintenance, we leverage planning, people, systems and process smarts to lower operational costs and increase service level performance. Our teams draw on our engineering experts to analyse and challenge our work and extend the lifetime value of infrastructure.

Our expertise covers the following areas of the new energy sector:

SOLAR

WIND

BATTERIES



experience

new energy

- Solar projects
- Battery projects



experience

UGL is a major player in the engineering, design, construction and operation of solar in Australia.

Tailem Bend Solar Farm Stage 2	Vena Energy	87 MWp	Tailem Bend, SA	Bi-facial solar PV modules and single axis tracker connecting into substation extension
Mica Creek Solar Farm	APA	88 MWp	Mount Isa, QLD	Single axis tracking system, transmission line and upgrade to the existing Diamantina Power Station
Badgingarra	APA	20 MWp	Badgingarra, WA	Single axis tracking system connecting into existing wind farm
Tailem Bend Solar Farm Stage 1	Vena Energy	127 MWp	Tailem Bend, SA	Fixed racking system and D&C of a 33/132kV substation
Bannerton Solar Farm	Foresight Solar Australia	110 MWp	Robinvale, VIC	Single axis tracking system located amongst an operating Almond farm and 22/66kV substation construction
Collinsville	RAC	59 MWp	Collinsville, QLD	Fixed racking system utilising the existing connection assets from the now decommissioned Collinsville Power Station
White Rock Solar Farm	Goldwind	25 MWp	Glen Innes, NSW	Fixed racking system connecting into the wind farm substation
Kidston Solar Farm	Genex Power	63 MWp	Kidston, QLD	Single axis tracking system on a disused tailings dam from the former gold mine
Emu Downs Solar Farm	APA	26 MWp	Cervantes, WA	Single axis tracking system connecting into the existing wind farm
Mugga Lane Solar Farm	Maoneng	15 MWp	Canberra, ACT	Fixed and single axis tracking system operating under the ACT solar feed-in tariff program
Coober Pedy Renewable Hybrid	EDL	1.5 MWp	Coober Pedy, SA	An innovative hybrid power project for upgrading the Coober Pedy Power Station
Mt Majura Solar Farm	SunEdition	2.3 MWp	Canberra, ACT	Single axis tracking system operating under the ACT solar feed-in tariff program
Darwin Airport Solar Farm	Darwin International Airport	5.5 MWp	Darwin, NT	“behind the meter” solar PV installation connected into the 11kV ring main feeder of the airport facility. Fixed racking with string inverters

BATTERY ENERGY STORAGE SYSTEMS - PROJECT EXPERIENCE

Newman BESS

Client Alinta
 Contract EPC
 Scope 35MW/11MWh BESS.
 Spinning reserve for the GT's on site. UGL EPC with Kokam batteries and ABB inverters
 Status Complete 2017



Sydney West BESS

Client Tesla (TransGrid)
 Contract D&C
 Scope 50MW/78MWh BESS. Network support
 BOP Design, Procure and Construction. BESS plant installation.
 Status Complete 2021



Victorian Big Battery

Client Neoen/Tesla
 Contract D&C
 Scope 300MW/450MWh BESS. Network Support and arbitrage. Long term offtake with Victoria Government
 Balance of Plant (BOP) Design, Procure and Construction. BESS plant installation.
 Status Complete 2021





Contracting models

EPC and O&M commercial models

ALLIANCES

LUMP SUM

EARLY TENDER

EARLY CONTRACTOR INVOLVEMENT

We welcome the opportunity to discuss the services, or any other contracting options, to determine which option will provide the most benefit to the project.

In-house teams

INTEGRATED TEAMS

The highly qualified and experienced people that UGL are able to draw upon reflect our corporate commitment to delivering successful and timely project outcomes. Our project teams comprise qualified professionals across all disciplines, all experienced in the delivery of new energy projects.

PROJECT TEAMS

Appointment of a project team of sufficient expertise and experience to cover project management, design management, commercial management (contracts and procurement), construction management, discipline supervision, safety and environment management, quality management and commissioning management.

Creating value



Outcomes

We ensure timely and innovative solutions are implemented on our projects, via the application of a practical, in-house design and commissioning group which readily relates to construction teams for optimised constructability and seamless interfacing.

This integrated team approach has repeatedly delivered opportunities for innovative and time saving ideas, substantially contributing to successful project outcomes.

All projects are undertaken in accordance with our fully documented and controlled management system.

This management system, consisting of interdependent procedures, forms and other documents, has proven to be instrumental in driving successful project outcomes. Application of our management system will not only address all of the required functional disciplines of respective projects but will promote project ownership where cooperation between disciplines is relatively seamless.

High quality, functional and timely projects are the inevitable outcome.





capability

AUSTRALIAN CONSTRUCTION

UGL brings a range of innovative construction techniques from both the Australian mining and utility power infrastructure industries to the renewables industry, with the primary aim of reducing time, cost and risk to our clients. Crucial to achieving utility scale project implementation is Australian construction experience. UGL has successfully built infrastructure across Australia for close to 70 years.

PROCUREMENT

UGL has developed skills in establishing overseas supply chains. This includes sourcing and procuring specialist plant and equipment, developing relationships with offshore fabrication partners and managing complex logistics around the globe.

TECHNOLOGY LEADERSHIP

UGL partners with some of the world's leading technology drivers to deliver the most advanced technology solutions. Our partnerships with General Electric, Mitsubishi, Siemens, Balfour Beatty and Jacobs Engineering, among others, allows us to take on the role of 'integrator' to deliver cutting edge technology solutions. UGL offers clients the benefit of these established and tested relationships.

capability

IN-HOUSE POWER DESIGN AND CONSTRUCT CAPABILITY

This includes process, hydraulic, civil/structural, mechanical and electrical/instrumentation design. With the ability to self-perform mechanical and electrical trades, develop control methodologies and undertake complex system integration work. UGL can also self-perform the majority of commissioning and process proving activities.


CONNECTIONS

Utilising our in-house network studies capability, and our strong relationships with Australia's NSP's, UGL can help design and negotiate a low-cost connection asset and facilitate a smooth grid connection process to the power network.

IMPLEMENTATION

Commitment to mobilisation of experienced and skilled local labour force to undertake the construction work.

our teams specialise in project and construction management coupled with experience working on remote sites and overseeing completions and commissioning.



The health and safety of our work environments – for our people, our clients, subcontractors, suppliers, visitors and wider communities – are paramount to everything we do.



one HSE CULTURE

Safety starts with equipping our people with the skills, systems and processes they need to uphold best practice in all areas of delivery.

It also means creating a culture where individuals are encouraged to take personal responsibility, empowered to speak up and supported by teams that understand and believe in the central importance of health and safety.

We also emphasise proactive, visible leadership committed to creating and maintaining healthy and safe workplaces.

At UGL, this includes the mental and emotional health and wellbeing of our people and those we engage with, as much as it includes safety in design and delivery.

A photograph of a male worker in profile, facing right. He is wearing a white hard hat, safety glasses, and a high-visibility yellow and navy blue work shirt. He is wearing black work gloves with 'CHEETAH' written on them. He is working on a rack of electrical equipment, with his hands on a terminal block. A white cable is plugged into the terminal block. The background is a blurred industrial setting with metal structures and a red wall.

What we offer

Low risk construction by an Australian tier 1 construction company

Experienced in-house design and construction results in elimination of double margins, reduction of project team interface points and risk.

consistent team delivery and use of relevant innovations from similar projects to benefit our clients

Established working relationships with relevant Network Service Provider (NSP)

High reliability and speed of install through tried and tested solar module, module mounting system and inverter design combinations


Value for money (\$/MWh) over the life of the asset

Full turn-key capability in utility scale BESS including all aspects of system design, integration, construction, commissioning and grid performance testing

UGL has established relationships with many NSP's throughout Australia

Importantly, UGL understands the “language” of NSP's, their requirements and intricacies. This knowledge is important for a smooth grid connection process, including all network modeling UGL offers as part of our service.

POWERLINK




Queensland's Transmission NSP and a major client of UGL. Over the years, UGL has built transmission lines, substations and switching stations for Powerlink.

ERGON ENERGY




UGL has a collaborative alliance with Ergon Energy delivering a program of substation works across remote Central and Northern Queensland. Often these connections are for industrial customers like coal and zinc mines.

ENERGEX




UGL is accredited by Energex's Work Category Quality Assurance Management System Evaluation and Capability Evaluation process. Through the design and construction of Powerlink Substations UGL has managed numerous interfaces with Energex.

TRANSGRID




UGL has had a positive relationship with TransGrid, the transmission NSP in NSW for over 50 years. UGL has designed and constructed some of TransGrid's largest transmission substations, and are on Transgrid's panel of three prequalified contractors.

AUSGRID




UGL has a collaborative alliance with Ausgrid, formerly Energy Australia, delivering a program of substation and underground HV cabling capital works in Sydney and Newcastle.

AUSNET SERVICES



UGL has had a positive relationship with AusNet Services, the transmission NSP in Victoria, for over 50 years. UGL have constructed numerous AusNet Services substations throughout Victoria including the 220/66kV and 500kV Terminal Stations for the Waubra and Mccarthur Wind Farms.

POWERWATER



UGL was successfully selected by PowerWater as a ECI partner on a single sourced basis for the development, design and construction of numerous substations in the Northern Territory.

WESTERN POWER



UGL is a preferred vendor with Western Power and has delivered transmission line and transformer refurbishment projects for several years.

HORIZON POWER



UGL has worked and interfaced with Horizon Power, the power utility operating across regional and remote Western Australia, during construction of the Karratha Power Station.

Management systems and accreditations

Safety

UGL holds Safety Management System accreditation to AS/NZS ISO 4801: 2001, and The Office of the Federal Safety Commissioner Accreditation (Australian Government Building and Construction OHS Accreditation Scheme).

The web-based Safety System is integrated with UGL's accredited Quality Management System (AS/NZS ISO 9001: 2015) and Environmental Management System (AS/ NZS ISO 14001: 2015.)

Environmental

UGL currently holds Environmental System (EMS) accreditation to AS/ NZS ISO 14001: 2015. The Environmental System is web based and integrated with our accredited Quality Management System (AS/ NZS ISO 9001: 2015) and Safety Management System (AS/ NZS ISO 4801: 2001).

Quality

UGL's Quality Management System (QMS) has been developed in accordance with ISO 9001 requirements. Currently, UGL holds AS/ NZS ISO 9001: 2015 accreditation.

The QMS is integrated with UGL's accredited Safety Management System (AS/ NZS ISO 4801: 2001) and Environmental Management System (AS/ NZS ISO 14001: 2015) forming one complete web-based system.

The UGL QMS is certified for use in multi-disciplinary project management, construction and commissioning management, engineering, design and procurement for market sectors including, power generation, power systems, and power distribution.

Certifications

UGL holds the following certification certificates:

- UGL OH&S Management System AS4801
- UGL Quality Management System ISO 9001
- UGL Environmental Management ISO 14001
- UGL Occupational Health & Safety OHSAS 45001
- The Office of the Federal Safety Commissioner Accreditation (OFSC)

Quality, Environment & Safety Management



Member of ISC since 2017



Authorised Engineering Organisation & National Engineers Register



Transport for NSW
Authorised Engineering
Organisation



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



Partnering with Aboriginal businesses

UGL's Aboriginal and Torres Strait Islander partner organisations are part of our journey towards reconciliation through opportunity.

We seek to encourage economic empowerment in our organisation and our clients' organisations by facilitating education, training, employment and subcontracting opportunities for Aboriginal and Torres Strait Islander people and businesses.

UGL maintains a range of key partnerships to achieve lasting outcomes by leveraging the strengths, resources and knowledge from both UGL employees and our partners to broaden our inclusive and diverse team culture.



Case Study: ARRA Group

ARRA Group and UGL forged a collaborative partnership in 2018. ARRA Group is a majority Indigenous owned company that is committed to the enhancement of employment opportunities for Aboriginal peoples, as well as non-Indigenous people.

Leveraging UGL's scale and the ARRA Group workforce network, UGL has facilitated opportunities for Aboriginal and Torres Strait Islander peoples to join the permanent and semi-permanent work forces on Chevron project sites in Western Australia. UGL's strong partnership network has increased workforce diversity on client sites, and opened up ongoing employment opportunities for Aboriginal and Torres Strait Islander people.



Supply Nation

Supply Nation is a key partner organisation of UGL. Supply Nation is Australia's largest national directory of Aboriginal and Torres Strait Islander businesses. We are proud to enable opportunities by creating a connection between the Supply Nation network and our client networks.

KEY PARTNERS





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