

Energy

CAPABILITY
BROCHURE



Our Capability

Fulton Hogan's civil infrastructure team plays a vital role in supporting the mechanical and electrical plants that generate power for our communities. We're skilled at bringing truly capable and influential people with wide project experience together to get the best results.

Our customers rely on us to build and operate their power infrastructure in a timely, economical and efficient way, generating power as early as possible, without compromising on quality.

We work collaboratively with our customers from the early design stage through to pricing and delivery so we reach a successful completion that is innovative, technologically advanced and economically viable.

Wind Farms

Balance of Plant

- Foundations to bear high loads over variable soils
- Civil works including roads, laydown areas, drainage
- Electrical reticulation, joins, substation and systems
- Mechanical 'know how'
- Asset management and maintenance
- Transport and logistics

We've performed Design and Construct Balance of Plant for a range of projects:

- White Rock Wind Farm, NSW | Electrical and Civil BOP
- Bulgana Green Power Hub, VIC | Electrical and Civil BOP
- Wambo Wind Farm, QLD | Civil BOP

WHITE ROCK WIND FARM, NSW



Fulton Hogan worked with Goldwind to deliver a 175MW project near Glen Innes in the Northern Tablelands, New South Wales – a first for the business in this expanding area of the energy market.

The project was the first stage of the White Rock Wind Farm that required the installation of 70 turbines along with the related civil and electrical infrastructure.

Fulton Hogan's BoP contract included construction of concrete foundations to support the giant 90 metre high turbines and rolling out the access roads to the vast turbine network. The scope also included all the electrical reticulation works to bring the power from the turbines to the substation.

The wind farm is now delivering clean renewable electricity to 75,000 homes.

Client: Goldwind Australia



BULGANA GREEN POWER HUB, VIC

Fulton Hogan has delivered the Bulgana Green Power Hub Project for client Siemens Gamesa & Developer Neoen, which combines the installation of a wind farm with 56 of the Siemens Gamesa's 34-132 turbines (for total capacity of 194 MW). The project also incorporates a 20 MW / 34 MWh lithium-ion (Li-ion) battery with a battery energy storage system (BESS) utilising Tesla's Powerpack 2.0 system.

Fulton Hogan's scope included Design & Construct of the full BoP package consisting of Civil components of Roads, WTG foundations, crane hardstands, WTG grouting, site compound, Operation and Maintenance Facility and associated support crane laydown areas.

Electrical works consisted of Design & construct of ingound MV reticulation system, 33kv switchyard, 20MW Tesla battery (BESS) and associated SCADA, earthing, lightning & protection systems.

External to the project Fulton Hogan was able to utilise its extensive experience in road construction to provide the services of bridge & road upgrades to facilitate oversize load deliveries of WTG components, along with road maintenance and rehabilitation works.

Client: Siemens Gamesa



Wind Farms

WAMBO WIND FARM STAGE 1, QLD



The first stage of this renewable energy generation project consists of 42 wind turbines and will add 252 megawatts (MW) of clean energy to Queensland's energy system.

Construction commenced in 2023 with Fulton Hogan's design and Construction Civil Balance of Plant (BoP) scope including the establishment of the construction compounds and batch plants, 48km of unsealed access tracks, 42 WTG concrete foundations and crane hardstands for tower erection, erosion and sediment control, O&M site office warehouse building and facilities, car parks, temporary laydowns and substation bench.

Client: Vestas

Transport and Logistics

We've used our own haulage equipment for a range of projects:

- Mahinerangi Wind Farm, Trustpower | 12x Vestas V90 turbines
- Horseshoe Bend Wind Farm, Pioneer Generation | 3x N.E.G Micon NM44/750 turbines
- Mt. Stuart Wind Farm, Pioneer Generation | 9x Gamesa G52 turbines
- Flat Hills Wind Farm, Pioneer Generation | 8x Gamesa G52 turbines

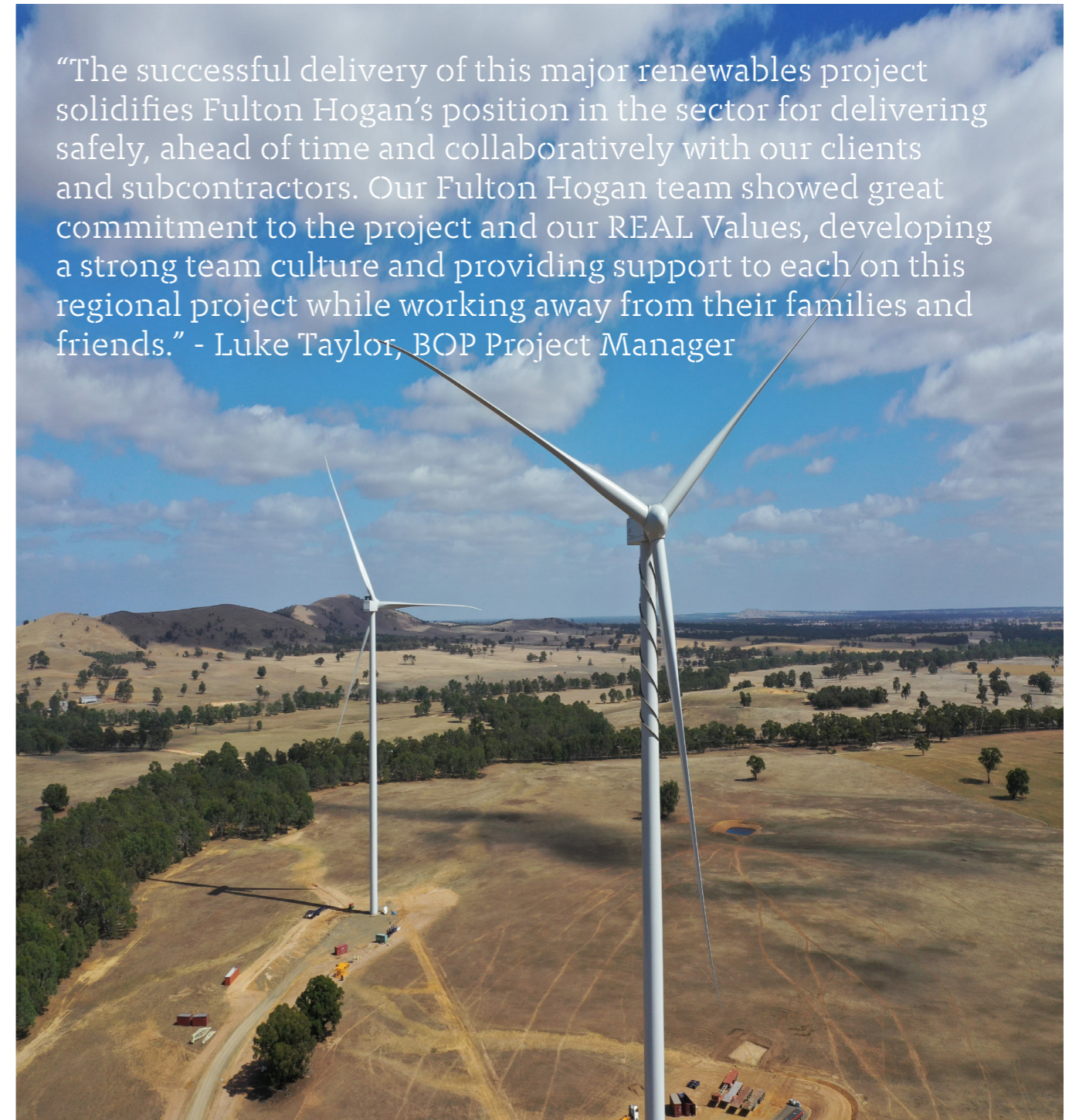
MAHINERANGI WIND FARM, NZ



Fulton Hogan's capable team of heavy haulage professionals use a diverse fleet of specialised equipment. Using this fleet they successfully transported 12 V90 Vestas Towers to the Mahinerangi Wind Farm for Trustpower.

Work included surveying and designing the route, a comprehensive transport management plan, obtaining all roading authority permits, transporting and oversize load piloting, bridge supervision and craneage.

Client: Trustpower



“The successful delivery of this major renewables project solidifies Fulton Hogan’s position in the sector for delivering safely, ahead of time and collaboratively with our clients and subcontractors. Our Fulton Hogan team showed great commitment to the project and our REAL Values, developing a strong team culture and providing support to each on this regional project while working away from their families and friends.” - Luke Taylor, BOP Project Manager

Asset Management

We've performed road infrastructure maintenance for projects:

- Bulgana Green Power Hub, VIC | 35km of Road Upgrades & Bridge Stiffening
- Yaloak South Wind Farm, VIC | Road Upgrades
- MacArthur Wind Farm, VIC | 125,000m² of reseal applied to 18km of road

MACARTHUR WIND FARM, VIC



Fulton Hogan repaired Moyne Shire Council roads using best value for money spray seal treatments after damage from wind farm construction.

Fulton Hogan remixed and compacted over 30,000 m² of land, as well as stabilising works, prior to applying a reseal of over 125,000m² to 18km of road around the turbines.

Client: Moyne Shire

BULGANA GREEN POWER HUB, VIC



Maintenance activities including both programmed and unplanned activities to approximately 35km of Northern Grampians Shire Council roads.

Works incorporated maintenance-grading activities, dust control and the use of dust suppressants, temporary traffic control activities, pothole and edge seal repairs, signage reinstatement and pavement re-sheeting works.

We have also delivered bridge strengthening and stiffening works to increase load capacities and allow the WTG tower and nacelle deliveries.

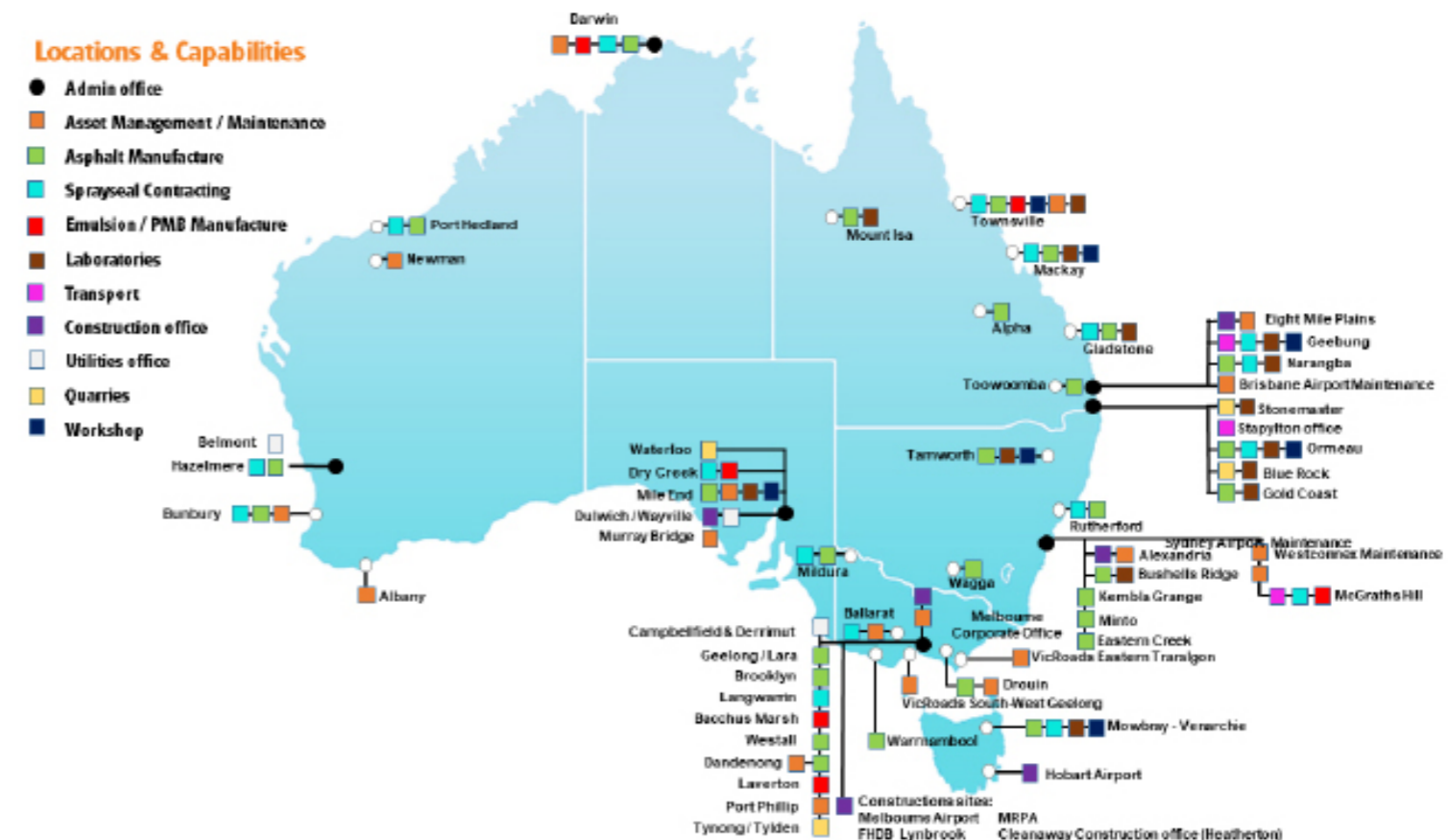
Client: Siemens Gamesa

Our National Asset Management and Maintenance Footprint

We've delivered 200+ Road Maintenance Contracts across Australia, and currently **maintain 25% of Australia's road network.**

With offices in every state and territory and 49 asset management and maintenance offices, Fulton Hogan has the geographical reach and ability to mobilise quickly to any location across Australia.

Using the latest AI road assessment technology, we are able to offer our clients delapidation reports, ongoing monitoring of road conditions as well as maintenance plans.



Power and Gas

We've got an energy focus.
From hydro power stations to onshore gas processing plants.

Electrical

We have a team of electricians self-performing low and high-voltage works.

We partner with electrical specialists who have designed and built electrical systems for wind farms, solar farms and energy plants.

Mechanical

We have the capability to self-perform mini-hydro power stations, water infrastructure like pump stations, and water and waste water treatment plants for clients such as SA Water, Melbourne Water, South East Water, QLD Urban Utilities and Sydney Water.

We partner with wind turbine generators, solar photovoltaic and other original equipment manufacturers for their specialist experience.

AUSTRALIA PACIFIC LNG, QLD



Fulton Hogan's experience in earthmoving and civil construction was pivotal in meeting the challenges of the earthworks associated with the Australia Pacific LNG project which included clearing 160 hectares of land, stripping of acid sulphate soils and cut and fill of over 3 million cubic metres of earthworks. Additionally, at the peak of this contract, up to 300 staff and materials were across to Curtis Island from the mainland every day.

Use of local content was key to the success of this project, including partnering with local earthmoving business, McCosker Contracting.

Client: Bechtel

KUPE GAS ONSHORE FACILITY, NZ



Work involved concrete, reinforcing and earthworks to build a fire main system, oily water system, providing HDPE Liners, electrical earthing installation, cathodic protection system, grouting and LPG bullet installation. The project also involved roads, paving, guard rail, dust control and landscape planting services.

Client: Kupe Gas Project Alliance (Origin Energy and Technip Oceania)

ARTHURS LAKE HYDRO, TAS



Fulton Hogan designed and constructed a six megawatt hydro power station, 15 kilometres of transmission lines and 34 kilometres of pipeline at Arthurs Lake in the midlands of Tasmania.

In the process of delivering one of the most technically challenging hydro projects in the world, Fulton Hogan made several significant innovations (including an anti-islanding system to shut down the power station immediately in the event of a fault).

Client: Tasmanian Irrigation

GATEWAY UPGRADE NORTH (GUN), HIGH VOLTAGE TRANSMISSION TOWERS, QLD

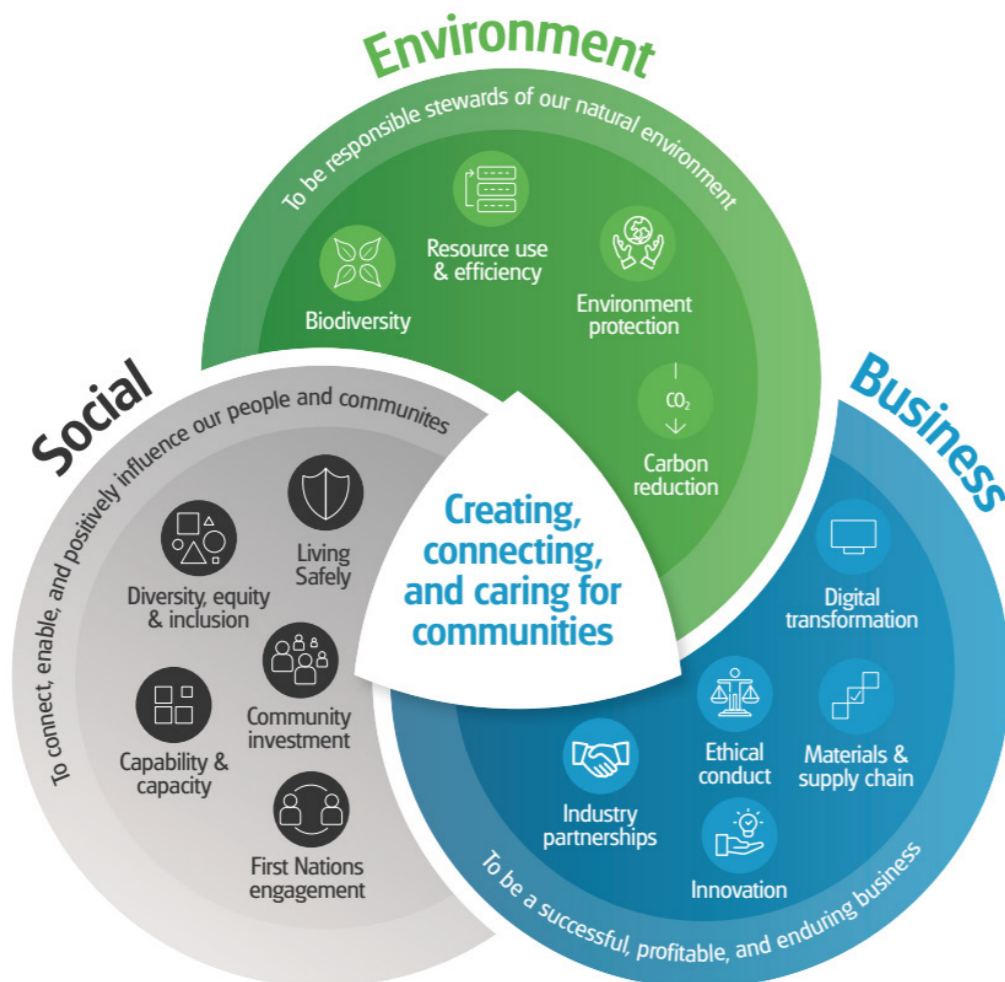


As part of the Gateway Upgrade North (GUN) project, Fulton Hogan constructed access roads, foundations and working platforms for five new high-voltage transmission towers. Working within sensitive wetlands and swampy conditions, Fulton Hogan completed the civil scope of the project works, enabling the easy installation of the towers.

Client: Department of Transport & Main Roads

Our Commitment to Sustainability

Our three sustainability pillars:
Social | Environment | Business



Social sustainability

Connect, enable and positively influence our people and communities

At Fulton Hogan, we recognise that our success hinges on our people. We believe all people should be given the opportunities; to be safe, to be encouraged, to grow, and to be the best they can be.

We strive for a diverse and inclusive workplace that values and promotes respect.

We believe that diversity of thought, background, and experience is essential for the work we do in the communities we serve.

We demonstrate the same respect across society, purposefully engaging First Nations people and being good neighbours in the places where we live and work.

We leverage our scale and influence to contribute to broader social outcomes where we can make a difference through the Good Work we do.

We will deliver on our commitment to social sustainability by focusing on:

- Capability and capacity
- Living Safely
- Diversity, equity and inclusion
- First Nations engagement
- Community investment

Environmental sustainability

Be responsible stewards of our natural environment

Creating a positive environmental legacy for our communities begins by recognising the challenges of our sector – building and maintaining infrastructure is resource and energy intensive and can have an impact on the environment.

At Fulton Hogan we're taking-on the challenge by finding ways across our operations to reduce the amount of energy from non-renewable resources we use, and by delivering environment protection that strives to look beyond compliance-only.

We're improving our operational efficiency and increasing the use of recycled materials in our supply chain along with limiting the amount of waste we send to landfill.

As we move towards a low-carbon future we will switch to alternative renewable energy options as these become available. This will require smart investing and being open to change in the way that we operate.

We will deliver on our commitment to environmental sustainability by focusing on:

- Biodiversity
- Resource use and efficiency
- Environment protection
- Carbon reduction

Business sustainability

Be a successful, profitable, and enduring business

Sustainable business for Fulton Hogan means continuous progress through embracing new ideas and technology, acting ethically, and using our buying power and partnerships to drive sustainability across the industry.

By increasing our technological capacity, we become more efficient at what we do, taking a more innovative approach that allows us to enhance the contribution we make to our communities.

We strive to deliver our contribution with accountability, integrity, and transparency, integrating sustainability into the way we do business.

As one of the largest companies in our industry, we aim to leverage our buying power to promote ethical and sustainable practises within our supply chain.

We will deliver on our commitment to business sustainability by focusing on:

- Digital transformation
- Ethical conduct
- Materials and supply chain
- Industry partnerships
- Innovation

National Leads

Fulton Hogan's corporate expertise is underpinned by the invaluable, first-hand knowledge and experience of key individuals within our established and experienced delivery teams.



TOM ROZENBILDS NATIONAL ENERGY MANAGER

As Fulton Hogan's National Manager of Energy Projects, Tom is responsible for the pursuit of opportunities within the renewable energy sector.

His key tasks include pre-contracts, strategy, bid and design preparation, developing collaborative relationships with clients, and engaging with the regional supply chain.

During Project delivery, Tom performs the role of Project Director assuming high-level responsibility to ensure the success of strategic project objectives.

Tom has delivered the following Wind Farm Projects:

- Wambo Wind Farm Stage 1, QLD
- Bulgana Green Power Hub, VIC
- White Rock Wind Farm, NSW
- Waterloo Wind Farm, SA
- Gunning Wind Farm, NSW
- Woodlawn Wind Farm, NSW
- Hornsdale Wind Farm Stage 1, 2 & 3, SA
- Snowtown II Wind Farm, SA
- Coonooer Bridge Wind Farm, VIC
- Currlerin Range WF, NSW



LUKE TAYLOR PROJECT DIRECTOR

Luke has been Involved in delivering in excess of 1GW installed capacity, on renewables projects across Australia.

He has a strong track record of delivering these projects safely, on time and meeting client's expectations.

He has delivered these Design & Construct projects under varying contractual frameworks, across both Civil and Electrical Balance of Plant disciplines.

Luke has delivered the following Wind Farm Projects:

- Wambo Wind Farm Stage 1, QLD
- Bulgana Green Power Hub, VIC
- Coopers Gap Wind Farm, QLD
- Badgingarra Wind Farm, WA
- Hornsdale Wind Farm Stage 1, 2 & 3, SA
- Snowtown II Wind Farm, SA
- Lake Bonney Wind Farm Stage II, SA



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