



Energise





Acknowledgment of Country

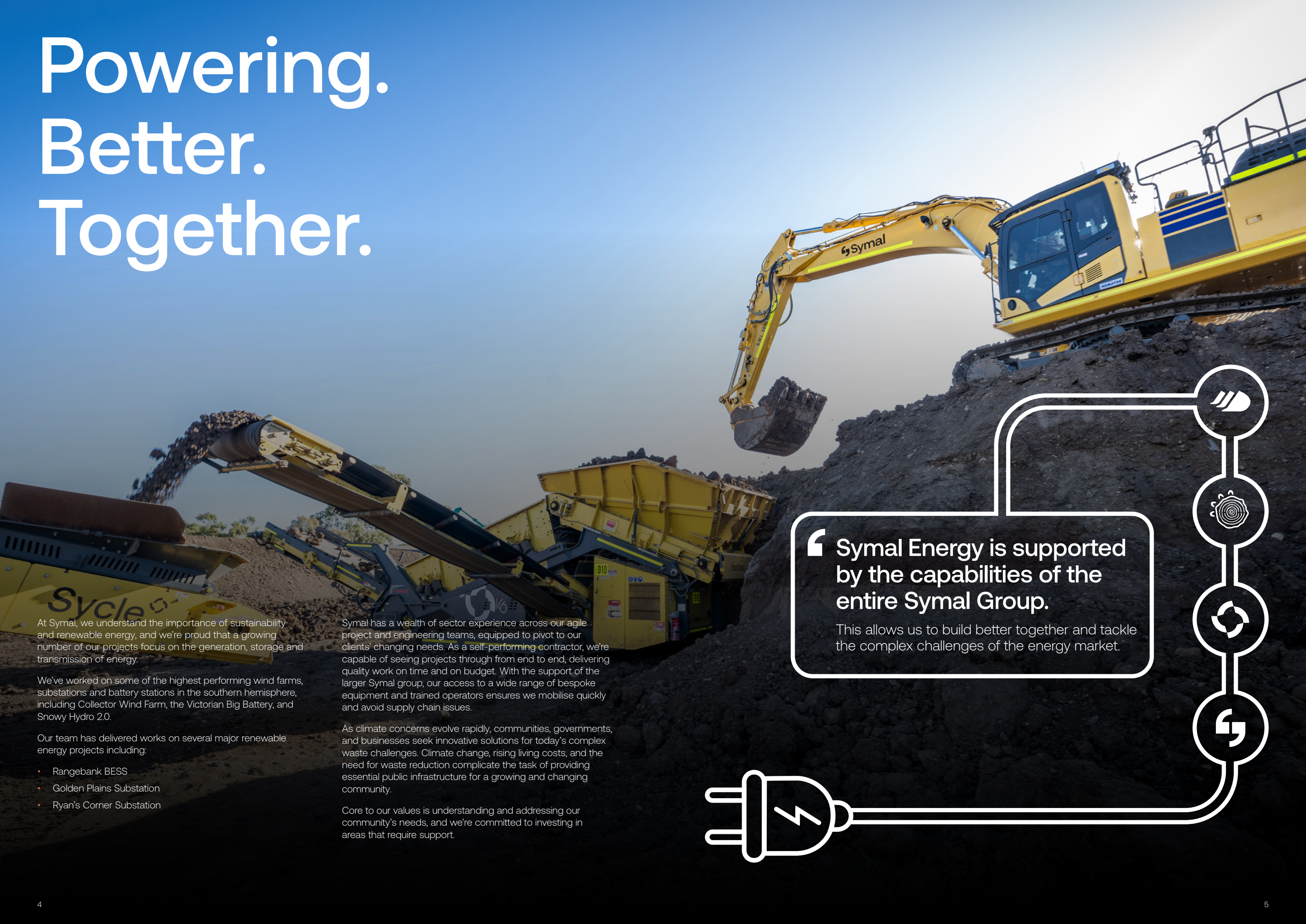
Symal acknowledges the Traditional Custodians of the land on which our offices are located, the Bunurong, Wadawurrung, Djab Wurrung, Yugambeh, Wonnarua, Awabakal and Worimi peoples and recognise their continuing connection to land, sea and water. We pay respect to their Elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples.

We acknowledge Aboriginal and Torres Strait Islander peoples as Australia's First Peoples whose cultural practices continue today.

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Powering. Better. Together.



At Symal, we understand the importance of sustainability and renewable energy, and we're proud that a growing number of our projects focus on the generation, storage and transmission of energy.

We've worked on some of the highest performing wind farms, substations and battery stations in the southern hemisphere, including Collector Wind Farm, the Victorian Big Battery, and Snowy Hydro 2.0.

Our team has delivered works on several major renewable energy projects including:

- Rangebank BESS
- Golden Plains Substation
- Ryan's Corner Substation

Symal has a wealth of sector experience across our agile project and engineering teams, equipped to pivot to our clients' changing needs. As a self-performing contractor, we're capable of seeing projects through from end to end, delivering quality work on time and on budget. With the support of the larger Symal group, our access to a wide range of bespoke equipment and trained operators ensures we mobilise quickly and avoid supply chain issues.

As climate concerns evolve rapidly, communities, governments, and businesses seek innovative solutions for today's complex waste challenges. Climate change, rising living costs, and the need for waste reduction complicate the task of providing essential public infrastructure for a growing and changing community.

Core to our values is understanding and addressing our community's needs, and we're committed to investing in areas that require support.

“Symal Energy is supported by the capabilities of the entire Symal Group.

This allows us to build better together and tackle the complex challenges of the energy market.



Dedicated delivery.



Energetic force

Our experienced renewables team can provide high level premium advice involving buildability, material and equipment selection, design development, staging of works, programming and budgets to minimise risks, maximise value and optimise project costs.

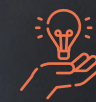
Symal's dedicated in-house design management team includes designers and engineers working with our network of industry expert consultants. Together with our construction team, we comprehensively analyse the design and tender documentation to develop our methodology and programming solutions.

We also have ability in modelling and considering alternate earthworks solutions, including quantifying rock risk.

Our innovative, solutions-based approach includes:



Earthworks analysis to determine the most economical solution.



Construction innovations.



Electrical reticulation analysis and options.



Effective material selection.



Structural foundation review and analysis with options.



Program analysis offering possible savings.



Overall constructability and buildability options.



Full constructability risk analysis.

Our energy specialists.

Expert knowledge

Our enthusiastic team have an impressive track record, with over a decade of experience in successfully delivering diverse projects for the energy and renewables sector.

Each team member brings a wealth of expertise across a variety of sectors, such as hydro, wind, solar and more. Their extensive knowledge and hands-on experience ensure that every project undertaken in the energy space is executed with unrivalled proficiency, making them a formidable force in the ever-evolving world of renewable energy construction.

Rob Mazniowski
Business Development Manager

Rob has worked on various wind farm projects over the past 10 years including Granville Harbour Wind Farm in Tasmania, and Moorabool Wind Farm in Victoria. His current role is to navigate through the market to identify projects in their development phase, and liaising with all stakeholders including asset owners, developers, head contractors, designers and consultants, government entities and landowners.

Alex Duncan
Senior Bid Manager (Renewables)

With onsite and bid management experience in the renewables sector, Alex is a knowledgeable civil construction engineer who has worked on a range of projects for both government and private sectors across Australia. His experience encompasses large infrastructure projects, including the construction of all civil works for the Mt Gellibrand Wind Farm project.

Tom Watterson
Construction Manager

Tom has successfully delivered complex infrastructure projects in the road, rail, building, energy and water sectors. In the energy sector, Tom has worked on a number of projects giving him a rounded understanding of clients' needs and what makes energy projects successful. Notable projects Tom has managed include the Victorian Big Battery, Ryan's Corner Substation, Golden Plains Wind Farm, Cressy Terminal Station, Rangebank BESS, Hunter Power Project and Melton Renewable Energy Hub.



Matthew Gurney
General Manager

A pragmatic, talented and influential leader, Matt has more than 15 years of construction industry experience. Matt oversees the entire Symal Infrastructure business in Victoria and NSW and will play a vital role in the further expansion into QLD as we expand operations across Australia.



Rian Calder
Engineering Manager

Rian has more than 20 years' experience in the construction industry, working on diverse and complex infrastructure projects. He has designed, design managed, and project managed many large scale, multi-discipline infrastructure projects. Rian has worked on several hydro projects in Tasmania, including dams and water channels, and the Scottsdale Pumped Hydro project.



Brent Lindeback
Construction Manager

With over 16 years' experience, Brent's expertise has seen him work on the \$1bn Macarthur Wind Farm and on the Stockyard Hill Wind Farm. He also worked on the Mt Gellibrand Wind Farm and Snowy Hydro 2.0. Brent specialises in wind farm design and delivery, buildability and technical review, earthworks and pavements and project management.



Matthew Martin
Senior Project Engineer

Matthew has worked on some of Symal's biggest projects, building an impressive portfolio of construction industry experience comprising bulk earthworks, road construction, drainage, and service relocations. Matthew has been involved in several of Symal's renewable energy projects including the Mt Gellibrand and Collector Wind Farms, Snowy Hydro 2.0, and the Ryan's Corner Substation.



Daniel Knights
Senior Project Engineer

Daniel has extensive experience working on a number of significant civil projects within the energy sector. His project experience includes windfarms, substations, defence and major concrete structures, roads, and earthworks.



Jaimes Russell
Project Manager

Jaimes has experience as both a labourer and engineer, delivering landmark projects for Symal. As Lead Project Engineer on the Murra Warra Wind Farm Bench Construction project, he provided support to the Project Manager to ensure early works were constructed on time. He was also involved in wind farm and substations works for the Golden Plains Wind Farm Project.



David Webster
Survey and Digital Lead

David's experience includes significant data collection and surveying work within the airport precinct. David has worked on a range of renewables projects, including: the Upper Burdekin Wind Farm, Golden Plains Wind Farm, Hawksdale Wind Farm substation, BESS projects at Cranbourne and La Trobe, Gunasyn Solar Farm and Coppabella Wind Farm.



Michael Adriaans
Area Manager

Michael has delivered numerous civil, bulk earthworks and major road projects. He has worked across the country and on some of Victoria's largest road projects. He has also worked on renewable energy projects, completing bulk earthworks for Ryan's Corner Substation, and a terminal station and substation at Golden Plains Wind Farm.



Steve McInerney
National Area Manager

With over 30 years' experience delivering complex infrastructure, Steve leads Symal's culture of safety and safe execution of works. Steve supervises site staff, organises project resourcing and programming, and has built an enviable reputation for completing projects ahead of schedule.



Ben Davie
Senior Project Engineer

Ben's project experience includes extensive work in the renewable energy field constructing wind farms, battery storage systems and substations. His role consists of the daily management of multiple subcontractors, suppliers, and consultants across multiple civil work projects throughout Victoria.

Local community engagement.



Working with the community

Symal understands the important part we play in the construction industry and our impact on the environment and communities in which we operate. As a company that aims to be “hands on” in improving quality, and flexible in the way we work, we are also very proud to work closely with local subcontractors and suppliers whenever possible.

Symal has several regional offices and engages local subcontractors and suppliers on regional projects whenever possible, boosting local businesses and employment opportunities.

We recognise and genuinely value working with smaller local suppliers and subcontractors in rural locations and, wherever possible, we draw upon local regional resources to supplement and fill any gaps in the skillset of our current internal workforce.

Our dedication to engaging with the local community also extends to our work in the energy sector.

On the Snowy Hydro project, Symal Superintendent Philip Caldwell had grown up in the local area and drew on past working relationships to attract and engage local subcontractors to assist in delivering on the generational project. More than 30 local employees were brought onto the project, with more than ten local businesses supplying plant or materials.

Similarly, on the Collector Wind Farm project, Symal directly employed six members of the local community, and engaged several local subcontractors, employing 170 people as a result.

The bulk of these employees were from Divall’s Earthmoving and Bulk Haulage, a family-owned business in Goulburn, NSW.

Divall’s carried out works on: access roads and hardstands, onsite crushing of rock for use within pavements, excavation and backfill of foundation footings, and concrete batch plant for foundation pours. They also assisted in securing water for dust control and material conditioning through relationships with local farmers, including dam upgrades post construction.

Snowy Hydro local plant hire and suppliers

Local plant hire	Material suppliers	Local suppliers
Woodbusters	Schmidt	Cooma H Hardware
A-One Earthmoving	Kraft Earthmoving	Mitre 10
Dry Plains Contracting	Cooma Sand and Concrete	Adaminaby Real Estate
Clarence Contractors	Brittons Landscape Supplies	Rainbow Pines Retreat
Maliyan Horizon		Numerous Coffee Shops
Cooma Plant Hire		One Agency Real Estate
Kraft Earthmoving		

Circular economy.



Waste reinvented

At Symal, we collaborate with our partners to develop circular economy solutions allowing projects to generate, repurpose and share materials across businesses and projects.

One of Symal's newest businesses, Cycle, was created with the genuine vision to build a better world by creating a circular economy that changes how the building industry operates.

Offering a wide range of services including onsite material processing and waste management, Cycle is playing its part in securing a greener future by diverting up to 98% of materials from ending up in landfill.

Our Avalon waste and resource recovery facility is spread over 100 acres and accepts numerous waste streams, repurposed into recycled materials and sent back to market.

Cycle Fyansford is a green star certified, EPA-licensed landfill that offers a full-service solution to manage end to end construction and demolition waste.

Together, we're committed to working with our clients to offer proven solutions that help reduce our carbon footprint, repurpose salvageable waste and protect the earth's natural resources to meet the sustainability demands of the 21st century.

Circular economy in action

The ground condition at our recently finished Ryan's Corner Substation posed a challenge with its shallow and tough basalt rock.

To tackle this, Symal, working alongside Uhyte and Cycle, employed a fleet of excavators to dig down to a meter below the Finished Floor Level (FSL). Afterwards, a mobile crusher was brought in to crush the extracted rock, and the resulting crushed material was repurposed as fill to bring the site back up to the FSL.

This approach eliminated the need for exporting rock spoil, shortened the timeline for conduit and foundation excavation, and minimised the requirement for bringing in quarried materials.

We make a conscious effort to promote and incorporate environmentally friendly construction materials, such as:

- Reusing recycled aggregates and stormwater pipes.
- Embracing the use of biodiesel, renewable energy, and sustainable fuels.
- Transforming waste rock from projects and processing waste materials into new resources for use on projects.

Building meaningful careers.



Indigenous involvement

As an Aboriginal-owned and operated business, with a strong connection to Country, our affiliated company Wamarra understands the importance of finding sustainable ways to reduce our carbon footprint.

Wamarra is a self-performing civil and landscaping contractor, providing meaningful long-term economic independence and career opportunities for Aboriginal and Torres Strait Islander peoples and their communities.

Wamarra's talented internal Aboriginal workforce delivers works across a range of sectors, including civil and compound packages in the renewables space – the team has already carried out vital works at solar farms in Glenrowan, VIC and Griffith, NSW.

So far, Wamarra has recorded 2,000 Indigenous hours across its projects in the energy sector and is committed to pursuing further opportunities for growth and innovation in this space.

Wamarra is committed to building genuine, long term and meaningful partnerships and exploring employment opportunities for Traditional Owners and Aboriginal communities. When working in regional areas, it takes a 'local first' approach: where employment openings exist, Wamarra seeks to fill local opportunities with a locally skilled Aboriginal workforce.

As the move towards renewable energy intensifies, Wamarra continues to evolve its expertise, playing its part in future-proofing the country's energy solutions.

Access to equipment.

Equipped to deliver

Symal owns and operates over 800 pieces of plant and equipment, and has multiple highly skilled operators working alongside our project and engineering teams.

With our large fleet of plant and equipment, Symal can better manage carbon emissions by using equipment no more than five years old and rated with tier four and tier four final emissions ratings.

Our dedicated and highly skilled assets team maintains and services the plant and equipment used on projects to ensure optimal utilisation.

Hunter Power Project.

The \$600m Hunter Power Project is located in Kurri Kurri, NSW and it is being developed to “fill the gap in electricity demand” and ensure that the supply of electricity is secured after the Liddell Power Station at Muswellbrook retires.

Construction of the gas power plant facility is expected to have a nominal capacity of approximately 660 megawatts (MW) (under ISO conditions) and will be generated via two heavy-duty ‘F Class’ open cycle gas turbines (OCGT).

Symal’s scope of works included:

- FRP of over 11,000m³ of complex concrete structural elements
- Installation of approximately 2km stormwater services
- Supply and installation of approximately 1.4km of oily water services
- Supply and installation of all electrical conduits

- Supply and installation of approximately 1.9km of potable water and sewer services
- Supply and installation of approximately 1.7km of fire water services
- Supply and installation of approximately 0.6km of trade waste services
- Construction of all access roads, crane pads and carparks.

By providing firm energy the Hunter Power Project will facilitate an estimated 1.5 to 2GW of renewables, or the equivalent of 160,000 household solar installations.

Due to the scale of the project, complex coordination of trades and services was required, particularly as mechanical works started at the same time as civil works. As part of those works, Symal constructed two monolithic 1200m³ structure, as well as installing over 150 x 900mm diameter CFA piles up to 25m in depth.

Collector Wind Farm.

Symal and RJE Smarter Engineering formed the Symal Infrastructure RJE Global Consortium to deliver the Collector Wind Farm balance of plant contract to sustainable energy solutions provider Vestas. The now complete wind farm is located just outside of Goulburn NSW and consists of 54 Vestas turbines that will generate 535GWh of energy each year - enough to power 80,000 homes.

Symal's scope of work included the construction of all civil works associated with the Wind Farm, including:

- 30km internal access roads designed to cater for the oversize/over mass component delivery vehicles
- 6km council road upgrade to Lerida Road South to Austroads Standards
- 400,000m³ cut to fill earthworks
- Crane hardstands and blade laydown pads

- Construction of 54 turbines, requiring 400m³ of concrete, 41T of structural steel and Vestas Anchor Cage System
- Power and communications conduits installed within each footing
- Onsite concrete batch plant supplying 70m³/ hour during operation.

The project had strict guidelines prescribed by the NSW Planning Department. The letter of consent ensured the protection of delicate endangered ecological communities (EEC) through minimising the construction corridor and avoiding habitat bearing vegetation, and heritage items through engagement of local aboriginal representatives.

In close consultation with an independent ecologist and client-managed auditors the project's onsite OHSEQ team adhered to all prescribed compliance requirements.

The constructed footings are approximately 25m in diameter and 3.5m in depth. The handover of the excavation prior to blinding placement required a stringent cleaning process where all loose rocks and material were removed, and dust blown out by compressed air.

The delivery of key milestones by Symal, ahead of schedule, allowed the client to accelerate component deliveries and tower erection.

The Civil Balance of Plant scope was delivered two and a half months ahead of the milestone date.

Victoria Big Battery.

The Victorian Big Battery is Australia's largest lithium-ion battery designed to modernise the state's electricity grid, support new renewable energy capacity, and improve the reliability of power supply in the face of increasingly hot summers.

The Victorian Big Battery will play two important roles in our electricity system, offering flexibility that no other technology can provide.

First, it will increase the power flow through the Victoria-New South Wales Interconnector. The Victorian Big Battery will allow Victoria to draw an additional 250 megawatts from New South Wales during the periods of peak demand between November and March each year. This additional capacity will increase the reliability of our electricity supply.

Second, the battery will provide crucial energy storage. The battery will be able to charge during the day when renewable energy is cheap and abundant, and then dispatch that energy when it is needed.

The Symal team delivered this project a month early, in what was a tight seven month program.

Symal's scope of works included:

- Stripping the topsoil across the 15,000m2 site
- Treating unsuitable material
- Bulk earthworks
- Roadways in and around the batter pads
- Concrete footings
- Large trenches
- Installation of wetlands
- Piling package for the Switchgear and Control Room buildings.

Upon completion of the project, Victorian households will see a reduction in their electricity bills. For every \$1.00 spent on construction, the project will deliver \$2.40 in benefits.

Cutting-edge battery technology will help Victoria achieve its 50% renewable energy target by 2030. Batteries are a perfect complement to renewables. They soak up electricity during the day when renewables are generating power cheaply, and then discharge when required.

Case study

Snowy Hydro 2.0.

Snowy Hydro 2.0 is the largest committed renewable energy project in Australia that, combined with the existing Snowy Scheme, will underpin Australia's transition to a renewable energy future.

It involves linking two existing dams, Tantangara and Talbingo, through 27km of tunnels and building a new underground power station.

Snowy 2.0 is bringing many benefits to the Snowy Mountains region communities, including local employment, opportunities for local businesses, supplier improvements in local infrastructure and increased economic activity.

The project is being delivered by Future Generation Joint Venture (FGJV). FGJV has been created specifically for Snowy 2.0 bringing together the combined engineering expertise of three companies: Australian-based Clough, Italy's Salini Impregilo and US based Lane Construction.

To date, Symal has been awarded six separate Snowy 2.0 packages, with varying scopes of work across each.

Local engagement

Some of the key team grew up in Cooma, and have drawn on past working relationships to attract and engage local subcontractors to assist in delivering on this generational project.

To date, more than local 30 employees have been brought onto the project, and more than 10 local businesses have supplied plant and or/materials.



We know energy.



Mt Gellibrand Wind Farm

Acciona Energy contracted Symal for the construction of all civil works associated with the wind farm including: 28km of internal access roads, crane and access pads to allow the erection of wind turbines, excavation and backfilling for 44 turbine footings as well as other ancillary works. Due to stringent environmental and cultural heritage restrictions, the works corridor was just 20m wide which presented significant logistical issues. The project was also subject to a very tight construction time frame, hence the large construction team, consisting of up to four sub-earthworks teams, four sub-concrete and steel fixing crews, and one local subcontractor crew completing the external roadworks.



Murra Warra Wind Farm

The Murra Warra Wind Farm project is located in northwestern Victoria, 25km north of Horsham between the Henty Highway and the Blue Ribbon Road. Upon completion, the Wind Farm will consist of 99 turbines, which will play a key role in Australia's renewable energy future. Broken into two phases, Symal was contracted by Downer Utilities for the construction of Stage 1. Works included: construction of the concrete foundations for 61 turbines (20m diameter), incorporating 600m³ of concrete and 70 tonnes of steel per foundation. Symal was also responsible for the excavation, steel placement, concreting, and backfill.



Golden Plains Wind Farm Substation

The Golden Plains Wind Farm is a state-significant project that will be Australia's largest wind farm to date. The project involves the establishment of a wind energy facility including wind turbines and associated electrical infrastructure on 16,739 ha to the west, south and southwest of Rokewood. To date, Symal has been awarded three distinct project packages at the site including earthmoving operations, execution of in-ground utilities and concrete structures, drainage installation, fencing and earth grid excavation and backfilling. Despite winter challenges that typically hinder construction, the team showcased adaptability by using effective subgrade treatments to counter winter's impact.



Ryan's Corner Substation

Symal was contracted by Consolidated Power Projects to undertake the construction of the Ryan's Corner 132Kv Substation on behalf of Ausnet. The scope of works encompassed comprehensive civil construction activities, including the establishment of the entire GPG and Ausnet bench, along with the installation of essential structural components and services such as drainage, electrical systems, and earthing. Challenges included significant risk associated with rock removal during the excavation process. This involved bulk excavation and processing approximately 20,000 metric tons of rock located approximately 1m below the Full Supply Level (FSL). The approach taken by Symal streamlined the process of trenching and footings excavation.



We know energy.



Eastern Treatment Plant Solar Farm

Contracted by BEON Energy Solutions, Symal's early works scope included the construction of the crushed rock access roads and preparation of hardstands that were used for the duration of the project. In addition to this, Symal was responsible for the trenching for AC cables, DC cables, communications cables and earthing cables. This included trench excavation, trench benching and battering, installation of conduits and electrical infrastructure, backfill, and compaction. Challenges included working in a low lying flood plain area where steps had to be taken to limit the effects of inclement weather. The ETP Solar Farm consisted of 39,000 PV modules, as well as six Power Conversion Units and weather stations.



APAM Solar Farm

Symal was engaged by NextGen and Beon Energy as the civil contractor for the development of a 19,000m² solar farm located at Melbourne Airport (APAM). The new solar farm was designed to provide power to the four passenger terminals at Tullamarine's Melbourne Airport, with a 10MW PV generator producing approximately 15% of the airport's annual electricity consumption. Symal completed all of the in-ground electrical and communications scope of works including regrading existing access roads and construction of box culverts, PFAS management (1,000m³), construction of a crushed rock access track within the solar farm (7,000m²), and trenching and backfilling of electrical and communication conduits within the solar farm (1,700m).



Queanbeyan Battery Energy Storage System

The Queanbeyan Battery Storage System was designed to provide reliable energy storage to the local community. Works carried out by Symal included: demolition of the existing earth grid system; bulk earthworks; piling for lighting, CCTV and lighting towers, and a new access road to the facility, as well as service trenching and facilitation of the installation of electrical services. The construction of the facility involved a series of complex construction activities that required careful planning and execution to ensure the successful delivery of the project. Challenges included ensuring safety precautions and permits for working in the electrical substation environment and liaising with Canberra Airport for the setup of cranes and pumps.



Rangebank Battery Energy Storage System

The Rangebank BESS (Battery Energy Storage System) is an industrial scale BESS located in Cranbourne West, Victoria. It will provide 200MW / 400MWh capacity of reliable and flexible energy solutions. Once fully operational, the Rangebank BESS will have the storage capacity to power the equivalent of 80,000 Victorian homes for an hour during peak periods. Symal's scope of works included, among other things, the installation of almost 11,000m² of combi slabs, the concrete ground slabs that are designed to accommodate the battery units that will make up the BESS, and will consist of a combination of traditional reinforcing mesh and steel fibre concrete.

Where you'll find us.

Starting as a Victorian business, the bulk of our operations are currently in South Eastern Australia, but we work across the country, with ambitious interstate plans that will see us help make life better for even more communities. Our growth goal is to have a Symal presence across Australia, putting us within reach of any project that needs our expertise.

Spotswood (Head Office)

208-210 Hall St
Spotswood VIC 3015
Open 8:00am - 5:00pm.

Spotswood (Yard)

Gate 1A Lot 2-38 Hudson Rd
Spotswood VIC 3015
Open 6:00am - 5:00pm.

Spotswood (Wamarra)

204B Hall St
Spotswood VIC 3015
Open 8:00am - 5:00pm.

Avalon

45 Beach Rd
Avalon VIC 3212
Open 7:00am - 5:00pm.

North Geelong

East 8 33 Mackey St
North Geelong VIC 3215
Open 8:00am - 5:00pm.

Stawell

41 Horsham Rd
Stawell VIC 3380
Open 8:00am - 5:00pm.

Newcastle

Level 4 50 Hunter St
Newcastle NSW 2300
Open 8:00am - 5:00pm.

Tomago

499 Tomago Road
Tomago NSW 2322
Open 8:00am - 5:00pm.

Wagga Wagga

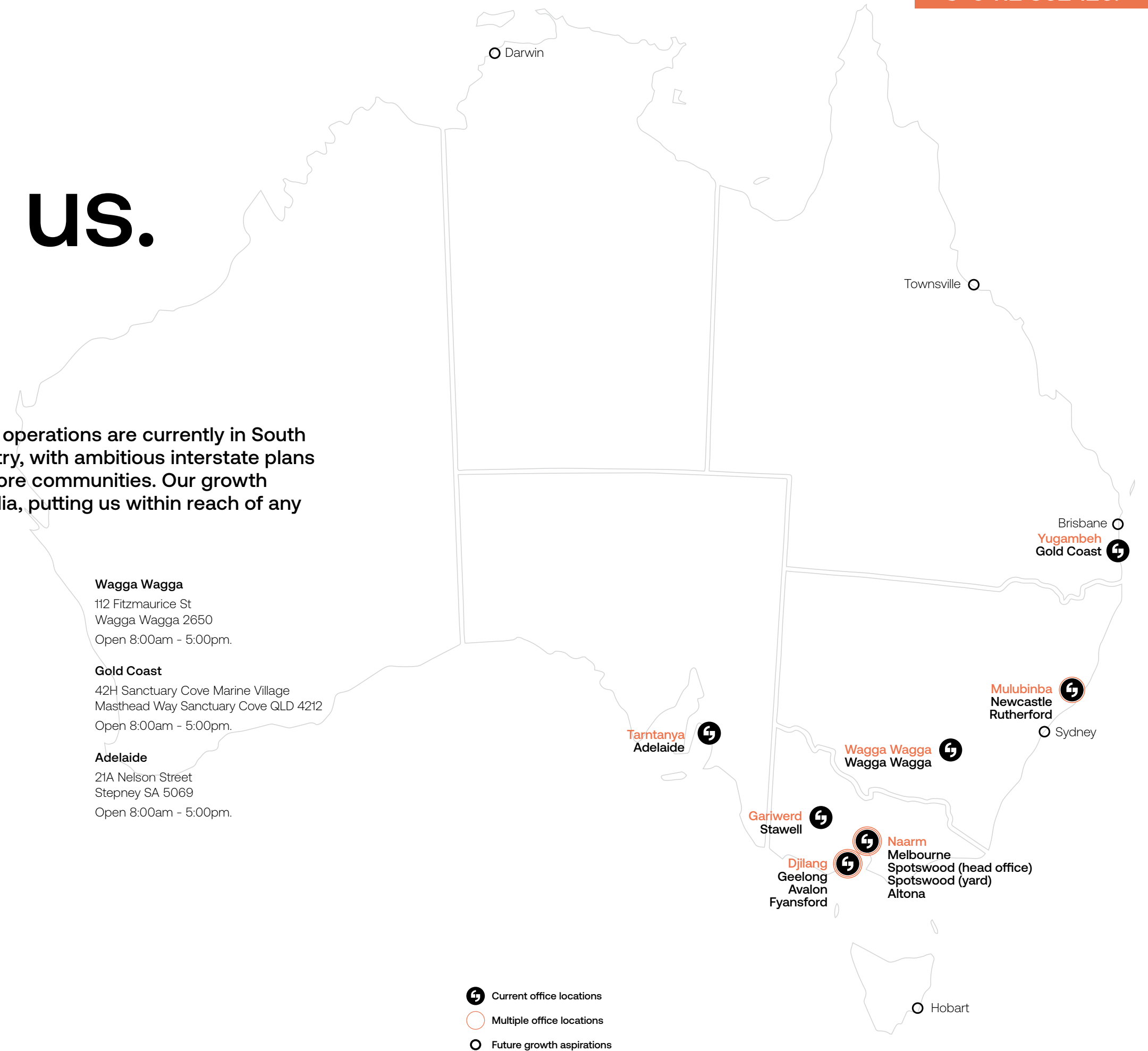
112 Fitzmaurice St
Wagga Wagga 2650
Open 8:00am - 5:00pm.




Gold Coast

42H Sanctuary Cove Marine Village
Masthead Way Sanctuary Cove QLD 4212
Open 8:00am - 5:00pm.

Adelaide

21A Nelson Street
Stepney SA 5069
Open 8:00am - 5:00pm.



-  Current office locations
-  Multiple office locations
-  Future growth aspirations

**Building.
Better.
Together.**