ENERVEN

Connecting you with tomorrow

Capability Statement

About Enerven

We believe in a safer, smarter and brighter future.

We're a rapidly growing team of 400 like-minded people with an unwavering pursuit towards a common objective; to work together with innovators, partners and customers to help change the way Australians connect with, generate and use energy and data.

We want our work to make a difference. By connecting ideas, people and technology, we're constantly learning, adapting and designing solutions that are safer, more sustainable and more cost-effective.

Our proven track record is backed by our ability to consistently deliver our customers with innovative solutions, better value and simplicity. It's the hard work of yesterday which has laid the foundations for today's – and tomorrow's – success.

At Enerven, our future is bright.

Our Purpose and Values

At Enerven, we're focused on connecting you with tomorrow.

We develop solutions with customers and communities to enable them to choose, create and adapt how they connect with, make, store and use energy, on their terms.

Enerven began as a division of SA Power Networks and over 15 years has grown into a market leader.

Building on the 100-year foundation of our parent company, Enerven is a proven expert in the development of major infrastructure, energy and telecommunication solutions.

Our values are the DNA of our business. They embody what we stand for and focus firmly on our customer's needs to accomplish long-term, sustainable improvements that are reliable, maximise profitability and minimise costs. We are the builders of our customer's vision and are driven with the ambition to connect them with tomorrow.

Proactive

We bring people together to pursue possibility. We are quick, versatile and always seeking to make things better.

Collaborative

We value collaboration across our entire business. We proudly work together with our customers and partners to make the most of our extensive experience and expertise.

Dependable

We understand the significance of being dependable, we demand it of ourselves, our services and processes. We always deliver on our promises.

“Our values are underpinned by an unrelenting focus on safety and wellbeing.”

Our Capabilities

Enerven designs, develops, delivers and manages safe and sustainable power systems and multi-utility networks for owners of major infrastructure.

We serve clients in both the public and private sector, including ElectraNet, BHP Billiton, Oz Minerals, NBN, Power and Water Corporation, the Department of Defence and Local Government Councils to name a few.

We apply our specialist engineering, design, project management, construction, operations and maintenance skills to develop a bespoke solution. We aim to minimise the risk and maximise the performance of assets, adding value to both new-build and existing medium and large infrastructure projects. Our expertise in electrical and telecommunications network development and management benefits clients across a range of commercial sectors.

Our track record is something we are very proud of, and is filled with numerous firsts and successes. Our projects are always delivered safely, often in challenging environments and using new work methods. We always look forward to the next challenge and take pride in the outstanding performance of our people across a range of safety, environmental and quality measures across our history.

We leverage the skills of our people and our partners to provide total infrastructure solutions for our customers. Our rich history, expert teams and renowned successes allow us to engage our customers in every aspect of our world of energy. The key services we provide to customers across the energy and telecommunications industries include:

- Substation and transmission network construction and maintenance.
- Private electricity network construction and management.
- Technical services, including metering.
- National Association of Testing Authorities (NATA) accredited calibration laboratory.
- Material sales and supply chain management.
- LIDAR and drone services.
- Public and private lighting construction, including smart lighting.
- Renewable energy project construction, integration and maintenance.

“We leverage the skills of our people and our partners to provide total infrastructure solutions for our customers.”

“Our focus is to help connect our customers to the future of energy.”

Our Approach

At Enerven, our knowledge is our power and it's at the core of everything we do.

In a competitive landscape, we are determined to be leaders in providing flexible, adaptable and scalable energy and telecommunications solutions. We see it as our duty to reduce complexity and offer better value to our customers, suppliers and partners. Our focus is to help connect our customers to the future of energy.

Safety and wellbeing is paramount

The safety and wellbeing of our people, customers and the community is our number one priority. For us, it's not just talk - it's action.

We are registered with WorkCover as an accredited self-insurer under the WorkCover Rehabilitation and Compensation Act 1986. We maintain full compliance with Australian Standard AS/NZ 4801, and we have achieved the internationally recognised ISO18001 accreditation.

We ensure that ample attention is given to risk management as a part of our day-to-day operations and spend significant time identifying and developing internal best practice in OH&S. We also have effective procedures in identifying and managing any safety hazards detected during work, and employ detailed reporting systems to highlight safety issues.

Our plant tools and equipment are constantly checked, serviced and maintained, to ensure our staff are safeguarded on the job.

Our Approach

Our people keep us in business

Our people are our greatest asset and our ability to succeed comes from teamwork and respect. We empower our teams to explore new creative thinking that connects people and technology with innovative, safer, more sustainable and cost-effective solutions.

We want what we do to make a difference. We strive to deliver outstanding results for our customers, keep our friends and community safe, create opportunity and grow the capability of our colleagues. Most importantly, we have fun doing it.

This is in our DNA.

We are environmentally conscious

Enerven is accredited to AS/NZS ISO 14001 and we are committed to complying with and exceeding all regulatory requirements for environmental management: Aiming to be a leader in this field. Our business operations are conducted in an environmentally responsible manner, which is consistent with Ecologically Sustainable Development (ESD) principles.

Among these is the responsibility to ensure our activities meet the needs of the present, without compromising future generations' expectations. We operate our facilities to minimise any impact on natural and cultural heritage resources including, indigenous, historical, natural and industrial sites; as well as reducing impact on land used for primary production. By incorporating these constraints, we can ensure all environmental legislative requirements are met.

Our customers are our business

We strive to dedicate our energies to what our customers value. We recognise that customers now have more choices than ever in terms of meeting their energy and infrastructure needs and this requires us to be clear about the value we offer.

Our clients expect a seamless, efficient experience across multiple interactions and we know that to stay relevant we can never rest on our laurels. Meeting future needs will require new mindsets, processes and capabilities and we are committed to delivering, every time.

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Our Services - Energy Infrastructure

We provide a range of services to utility, industrial and commercial enterprises. Our business is structured to ensure multiple avenues of sustained success. We will continue providing outstanding results to the customers and markets we've been working with for over 15 years, while also extending our knowhow to new customers and emerging markets.

As such, we have two divisions. Energy Infrastructure and Energy Solutions.

Energy Infrastructure Division

Over the past 15 years we have grown our infrastructure services from start-up to scale across a range of industries, market segments and customers. Our business was founded on the provision of these infrastructure services to several valued customers and continues to be our focus today.

The services provided by our Energy Infrastructure Division make up the lion's share of our business and we work day-in, day-out to ensure that we not only serve our customers, but also exceed their expectations.

The majority of our people service our valued long standing infrastructure customers, which include ElectraNet, BHP Billiton, Oz Minerals and NBN.

Transmission Network Construction and Maintenance, including Substations

Enerven is the Tier 1 contractor for ElectraNet for construction and maintenance services. We specialise in live line techniques, asset refurbishment, emergency response and substation, thermal, ground and aerial inspections of transmission network assets. Our construction capabilities include design, engineering, procurement, construction and commissioning of all transmission assets including:

- Civil works for all tower and pole types.
- Tower and Pole erecting.
- Primary Systems.
- Secondary Systems.
- Protection and Control.
- Telecommunications.
- SCADA.

Private Electricity Network Construction and Maintenance

We work closely with developers, consulting engineers and civil companies to successfully deliver all supply and construction elements of underground electrical reticulation for new residential and industrial developments.

Services include supply and installation of:

- High Voltage Network cable installation and terminations.
- Low Voltage feeder installation and termination to meet any standards (AS3000, MIEE Defence or various Utility standards).
- Distribution Transformer and HV switchgear installation and termination.
- Public lighting circuits including column erection and LED lantern installations.
- Junction pits / service pits.
- NBN Pit and Pipe.
- Overhead H.V distribution powerlines.

Our areas of expertise include:

- Sub-transmission and distribution planning.
- Power system protection and asset augmentation and load flow analysis.
- Asset condition monitoring and inspections.
- Reliability management including emergency response.
- Programmed maintenance.
- Construction and Commissioning.
- Live line, glove and barrier and bare hand HV and EHV.
- Protection and control.

These skills and capabilities enable us to support our customers with the installation of new technologies and meet the needs of future energy distribution requirements.

We have also developed significant capabilities over many years in infrastructure design and construction in mining, defence and other sites in remote areas of South Australia, where we are a licenced electricity distributor.

Our Services - Energy Infrastructure

Metering and Calibration

Our Metering and Calibration teams provide electrical and metering design, installation, testing, calibration and maintenance services.

We are registered with the Australian Energy Market Operator (AEMO) as a Meter Provider and are ISO:9001 accredited, for the installation, testing, monitoring and repair of electrical energy metering equipment.

We are a National Association of Testing Authorities (NATA) accredited calibration laboratory and offer our services locally, regionally and interstate.
To ensure absolute convenience and efficiency, our services can be housed within our laboratory, at a project site or a nominated location.

Metering and calibration services include:

- The provision, installation, commissioning, testing and maintenance of metering equipment.
- The installation, commissioning, maintenance and testing of instrument transformers.
- Provision of NATA accredited calibration and testing services both within laboratory and on-site.
- The installation, commissioning, maintenance and testing of instrument transformers.

Material Sales

Our Material Sales team are industry leaders in supplying national electrical contractors, developers and large mining companies with a range of electrical assets. These include, but are not limited to:

- Transformers.
- Ring Main Units (RMU's).
- Busduct.
- High Voltage and Low Voltage Cable.
- Lighting posts and luminaires.
- Terminations and associated products.

Our long and proud history in the Australian energy market means we're able to offer a total logistics and material service for our customers and consistently exceed expectations.

We leverage our purchasing power to procure materials at very competitive rates and pass on the savings to our customers. We provide:

- Access to worldwide supplier networks.
- Design specification re-examination.
- Involvement in product development.
- Personalised account management.
- Power pole manufacturing.
- Transport management.

We have successfully supplied materials for a range of major projects across Australia and overseas which includes critical major components for major infrastructure projects across Australia and essential materials for Underground Residential Developments.

LIDAR

LIDAR is an innovative modern technology, used for mapping, asset capture and engineering surveys. At Enerven, we operate two LIDAR systems: a static scanner for detailed site surveys and a mobile scanner for road mapping and rapid asset capture. The capabilities are almost limitless.

Static Scanner Specifications

- Faro Focus 3D X330.
- Range of 330 meters.
- Scans in direct sunlight.
- Remotely operated, eliminating risk.

Mobile Scanner Specifications

- Topcon IP-S2 HD.
- Only one of six systems in Australia.
- Collects 1.3 million points per second at a range of 100m.
- 360-degree field of view.
- In-board inertial measurement unit and external wheel encoders.
- GPS positioning.

Telecommunications

We are the Tier 1 contractor for the National Broadband Network (NBN) in South Australia.

In early 2017 we ranked as the number one delivery partner in Australia and have managed to maintain this position since.

Our close relationship with our trusted civil partners, and our ability to self perform design, hauling (aerial and underground), copper jointing, fibre splicing and commissioning allows us to offer a skilled workforce. This includes everything from individual packages of work through to full turn-key solutions.

We also offer:

- Copper network design, construction and maintenance including field scoping and Telstra network.
- Fibre optic cable construction and maintenance - traditional pit and pipe networks, plus innovative building installs and long haul rural builds.
- OPGW (Optical Ground Wire) used extensively in Power Transmission systems.
- Radio tower construction and maintenance.
- Electrical industry specific telecommunications networks.

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Our Services - Energy Solutions

Energy Solutions Division

Our innovative, skilled and experienced Energy Solutions team can formulate a design to suit all needs. To do this we utilise market leading technologies and industry expertise to design and deliver the project while providing the support needed to operate and maintain the system into the future.We offer personalised service and share great relationships with our customers.

Our focus is to understand the drivers and objectives so we can tailor a solution specific to the requirements. We are accountable, dependable and stand by what we deliver. We will always be here when needed.

PV Solar and Energy Storage

With the savings that PV Solar solutions offer, we understand what an integral part this technology can play in building a dynamic energy solution.

An exclusive agreement with Living Energy Solutions enables us to deliver commercial solar systems to meet the needs of an ever-growing solar PV market in South Australia. Together we have worked on several projects including:

- Salisbury Battery Project:Tesla and Samsung batteries were installed as part of a recent regulated battery trial (100 batteries), which at the time was the largest in Australia.
- Larger solar systems on commercial sized businesses.

We are also in the development phase of working with several prospective partners on larger utility-scale solar projects.

Public Lighting Construction

Our Lighting Solutions team provides comprehensive street lighting and other lighting services to SA Power Networks and all public lighting customers.

We supply, install and maintain an impressively broad range of lighting solutions for a diverse folio of clients. Our team also provides a range of associated services, including lighting audits and design, consulting, energy analysis, and provision, operation, maintenance for specialised assets and under non-standard arrangements.

We have installed – or have contracts to upgrade – more than 30,000 LED lights, and by the end of 2017 that number is expected to be over 50,000. We are working tirelessly with our public lighting partners to leverage this upgrade program into a full smart lighting/smart city rollout.

Smart Lighting

By incorporating communication technology and systems, smart lighting facilitates monitoring and control of lighting performance. This not only allows for real time energy monitoring but also allows for dimming strategies to be employed, resulting in significant energy savings.

Smart lighting has the exciting potential to be the backbone of a broader smart city system where many other devices can be managed. That includes services such as dynamic digital signage; safety and security systems; speakers; parking, traffic and weather sensors; and electric vehicle charging.

These core components complete the features of a broader ‘smart city’, which presents endless potential for new opportunities ahead.

Our Services - Energy Solutions

Stand Alone Power Systems

We know it's not always feasible for customers to connect to the grid. Our Energy Solutions group design, source, purchase and install Stand Alone Power Systems (SAPS) to suit customer needs. Our knowledge of connection costs to the National Electricity Market means we can present accurate advice and options to customers; building them a specified, personal solution.

SAPS consist of a mix of power generation with a control system, including PV solar, diesel and/or gas.

Our models consider each customer's circumstances, across a range of parameters; such as electricity load profiles, tariffs and the behaviour of technologies, enabling us to design and deliver optimal energy solutions for these businesses.

Microgrids

We predict, over the next 10 years, microgrids will be the most economical way of supplying energy to residential and business customers. Utilising our technical, research and development capabilities, we have prototyped several microgrid concepts, which we feel will be the future of electricity provision to communities. These projects are currently commercial in confidence, with more details to be made public in coming months.

These microgrids typically consist of:

- High penetrations of distributed energy resources (DER) - such as PV solar, batteries and intelligent appliances.
- A "thin" network connection.
- "Community Energy Scheme".
- Coordinated energy management systems.

There is a significant interest from a range of Australian developers and communities around the transition to energy solutions that provide an element of self-reliance.

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