

# Leader in HV energy solutions

Engineering, procurement and  
construction specialisation

**We are national in reach  
and able to deliver complex  
projects across multiple  
states, regions, and sites  
simultaneously**



Engineering



Procurement



Construction



Operate & Maintain

Enerven delivers high voltage (HV) electrical infrastructure capital works programs of every scale and complexity to the highest standards. As a tier one service provider to government, businesses and communities, we provide a unique depth of in-house technical expertise and engineering, procurement and construction (EPC) capability to deliver end-to-end HV solutions safely, on time while unlocking value for our clients.

## Delivering energy to all market sectors

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### Network service providers

Distribution, transmission and grid connection

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### Government

Defence, local, state and federal

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### Renewables

Wind, solar, future fuels and battery energy storage

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### Public and private businesses

Mining, resources, oil & gas, telecommunications and utilities

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Proactive, collaborative and dependable

**ENERVEN™**



### **Work safe. Home safe. Every day**

The safety and wellbeing of our people, contractors, the environment and the community will always be our top priority. Our unrelenting focus on safety underpins everything we do. Our diligence begins with safety in design and continues throughout the entire project.

### **Corporate social responsibility**

Our strong environmental, social and governance (ESG) practices maximise benefits to the communities in which we operate. We contribute to the community through our Employee Foundation, which has raised over \$2 million since inception in 2006.

### **Diversity & inclusion**

Enerven is proudly an inclusive and equal opportunity organisation. To be the best, we source the *right* people. Our culture, policies, and directives support increased employment of First Nations people, as well as people from diverse cultures, experiences, genders, and backgrounds.



# Our core EPC services and delivery strength



## Engineering

Concept, prefeasibility and feasibility

Value engineering to support early contractor engagement

Front end engineering design

Primary design and secondary design

Utility scale renewables, PV, wind, battery energy storage systems

Substation engineering



## Renewable developments

Renewable energy project design, construction and integration

Turnkey electrical balance of plant (EBOP) solutions

Hybrid generation and storage solutions to power a sustainable future

Professional knowledge and experience to support unregulated developments

Design and construction of electric vehicle recharge stations



## Substations, transmission lines and grid connections

HV substations and transmission lines up to 500kV

New builds or upgrades and extensions to existing assets

Regulated and unregulated grid connections

Qualified live HV transmission line capability



## Distribution systems

HV and MV distribution, above and below ground

Embedded networks and microgrids

Design and construction of private electricity networks

Public and private lighting installations, including smart lighting

Smart metering and URD



## Brownfield services

Integration and augmentation of existing assets for new developments

Refurbishing or replacing ageing infrastructure under asset renewal programs

Assessments of existing infrastructure for compliance and reliability

Transmission line maintenance:

- Tower structure refurbishment and member replacement
- Live work practices including HV insulated stick and barehand skilled and resourced crews
- Asset inspection using remotely piloted aircraft (RPAs) and ground-based crews, and thermographic imaging
- Insulator testing



## Telecommunications solutions

Fibre installation including underground hauling and splicing

Optical ground wire (OPGW)

Copper network design, construction, maintenance and restoration

Radio tower design

Design and construction of electric vehicle recharge stations



## Operations and maintenance

Long-term maintenance contracts that enhance and increase the value to assets:

- 24/7 network-wide on-call restoration capability
- Fault investigation and rectification

HV Infrastructure inspections, degradation and dilapidation:

- Asset inspection – in person, locally employed teams
- Asset inspection – drone and robotic

Ongoing testing and commissioning of operating assets

Operations and maintenance across renewable energy assets and private electricity networks



## Procurement and electrical supplies

Procurement strength, including buying power through our parent company SA Power Networks

Robust, sustainable procurement systems and subcontractor management

Material sales and supply chain management with competitive industry pricing



## Specialist expertise and technical services

Enerven's 140 strong in-house engineering team is a multidisciplinary team who can deliver energy infrastructure projects from concept to commissioning and close-out. Our engineering capability is industry leading, where our self-performed delivery strategy ensures projects are de-risked and delivered with certainty. Our engineering team brings a wealth of knowledge and experience to support unregulated developments.



### Design and engineering

Automation and SCADA systems

Protection and power system engineering

LV systems and networks (AS3000)

Civil and structural engineering

Drafting

Telecommunications engineering

Management of the grid connection process and online commissioning under chapter 5 of the National Electricity Rules



### Technical Services & RPA

HV metering, calibration and testing

Communications networks design

Controls and automation software development

Powerline stringing

Disaster response

Static and mobile LiDAR

Site surveys and land development planning

Asset and brownfield surveys and integration planning

Road, access and underground services mapping



### Commissioning

20+ commissioners and crews deployed across multiple projects and regions proficiently and safely delivering:

- greenfield and brownfield commissioning and testing
- system and equipment energisation and start-up
- handover and operator training

Minimising project risk with in-depth knowledge of vendor primary plant, secondary systems and protection

Attendance at and certification of factory acceptance testing for major plant

### Compliance and approvals

Enerven's ability to comply with and perform under client internal processes and accreditations is supported by our long-standing history with tier 1 organisations and network service providers across Australia. Our increasing delivery of projects for unregulated clients ensures our development, commercial, and delivery teams are ready to support this growing sector, however, retain the flexibility to best service clients in often challenging and remote locations. We are proven in obtaining land access consent for areas of environmental significance, including local, state heritage and Aboriginal heritage areas. Our in-house environmental team is here to support our clients by managing all site requirements throughout project delivery and beyond.





**Innovative solutions**  
We remain on the cutting edge of new industry technology.

Enerven responds proactively to the dynamic and changing nature of the energy industry. Our dedicated Network Innovation Centre (NIC) trials and tests new technologies from renewables to robotics that will positively impact our industry into the future. We continually invest in new technology to ensure our services to customers are leading edge.





## **Real connections now and into tomorrow**

Enerven remains committed to safe and timely high-end HV electrical infrastructure, supporting our clients by tailoring and optimising solutions to meet current and future energy demands, profitably and sustainably.

**ENERVEN**<sup>TM</sup>  
Connecting you with tomorrow

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