

ENERGY TRANSITION

ENERGY INFRASTRUCTURE

Enscope project development and project delivery experience

COMPANY OVERVIEW

Enscope provides project management, engineering, procurement, construction and commissioning services in support of energy infrastructure developments.

Enscope was formed in 2009 in Perth, Western Australia, as an outcomes focused project services organisation providing project feasibility, management, engineering, project controls and completions services to the mid-size gas and energy sector.

Since formation, Enscope has established a strong and dynamic team of engineers and project managers. We offer our clients and partners a unique, specialised and valuable skillset in the delivery of energy infrastructure projects. With a breadth of services ranging from concept development and feasibility through to EPCM, EPC and D&C project delivery and commissioning, we add value across all phases of the project development and delivery lifecycle. In 2015, Enscope was integrated into the Quanta Services group of companies and has established offices in Perth, Melbourne, Brisbane and Darwin. Enscope works closely with other Quanta businesses in Australia and overseas, and can provide our clients with access to the full suite of Quanta capabilities and services directly via Enscope, or through JV partnering under a range of contract models tailored to deliver best outcomes for the project.

As a wholly owned subsidiary of Quanta Services Inc., a NYSE listed company (NYSE: PWR) with an annual turnover of approximately US\$20.9 billion, we demonstrate a strong financial position which provides our clients with the necessary surety to embark on high capital energy infrastructure developments.

LEGAL ENTITY

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TRADING AS

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HYDROGEN

Hydrogen has become an important energy carrier which assists with overcoming various critical energy challenges.

Enscope has project delivery capability to provide feasibility and concept studies, front end engineering, detailed design and engineering, construction and commissioning for hydrogen projects.

This includes both standalone plants or blending with natural gas supplies to reduce dependence on carbon sources. We can also provide the integrated infrastructure to support the hydrogen production facility, including pipeline and storage*.

Enscope are at the forefront of hydrogen development projects in Australia. The Enscope team has taken an active role within the local hydrogen industry via our membership and participation within Australian Hydrgen Council, APGA and Future Fuels CRC. Encope's pipeline engineers are contributing towards the development of Australian's Pipeline Standard AS2885 relating to hydrogen transportation via the AS2885 committee.

Our engineering team has recently completed a number of concept and feasibility studies and front end engineering. Enscope is actively working on hydrogen projects for existing clients in advanced stages of development. Our current focus is to firm up FEED designs and project execution strategies sufficient to support FID by Q1 2025, with a transition to detailed design and project delivery following FID approvals.

*Executed by Enscope and other related Quanta Services companies



GAS TURBINE CONVERTED TO RUN ON H2/METHANE BLEND





PEM H2 ELECTROLYSER (20MW)

CARBON CAPTURE STORAGE

CO2 Pipeline Rupture Test at DNV GL Spadeadam (right) and CO2 Pipeline Dispersion Modelling (below)

Carbon Capture & Storage (CCS) technology captures the emissions of CO2 from our Clients' industrial processes and power plants, preventing them from contributing to atmospheric pollution.

Enscope has developed specific CO2 processing capability, including process modelling, flow assurance modelling and risk & release modelling. These developments coupled with Enscope's extensive experience in engineering and project delivery of gas processing and gas storage assets (comprsied of similar technologies) enables Enscope to offer a complete solution to our clients' CCS objectives.

These complementary previous projects and engineering included gas compression, dehydration, pipelines and well head facilities which are highly transferable to CCS applications.







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BIOENERGY

BioEnergy from renewable organic sources provides huge opportunity by turning organic waste into an energy revenue stream and fulfilling a demand for energy, whilst achieving a reduction of greenhouse emissions by reducing reliance on the use of fossil fuels.

Enscope are highly experienced in engineering, commissioning and project management of facility balance of plant design, overall commissioning and overarching project management.

Enscope has a partnership with technology provider Weltec Biopower to deliver our customers BioGas and BioMethane projects.







Renewable Power Generation and Duty Profile

DECARBONISATION

Decarbonisation involves replacing reliance on fossil fuels with electricity generated by zero and low-carbon generation sources to reduce greenhouse gas emissions and atmospheric pollution.

To meet this objective our clients are increasingly faced with the challenge of transitioning existing and future assets and equipment from operating on fossil fuel combustion to electricity to utilise green electric power.

Enscope has extensive experience in compressor design, procurement, installation and commissioning, and applies this to transitioning existing compression units from fossil fuel energy sources to electrification with renewable energy sources. Enscope also has experience with the selection of electric motor driven compression units as an alternative to gas engine driven units.





GTC ramping (% load profile)

RENEWABLE ENERGY

Renewable energy sources are a crucial component to the energy industry as they do not emit greenhouse gases whilst also providing a diversified energy supply and reducing dependence on fossil fuels.

Enscope has experience in wind, solar and battery energy storage systems (BESS) from design through to construction and commissioning phases of a project. Enscope lead the Kennedy Energy Park (KEP) EPC project with Quanta Services Australia (entity of common parent company to Enscope) and joint venture partner Vestas Wind Technology (wind turbine OEM). The KEP project established a first of its kind 50 MW hybrid renewable generator connected to the distribution network in northern Queensland.

Comprising solar PV system, wind turbine generation and a battery energy storage system (BESS), the project delivers renewable power to the Ergon Energy network via a single 50 MW grid connection.







A QUANTA SERVICES COMPANY







DARWIN



DELIVERY FOR A LOW CARBON ECONOMY





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