









Drake /

ENERGY & MARITIME CONSULTING

Contents

Our service lines	Page 3
Case studies - Energy	Page 4
Case studies - Maritime	Page 10
Case studies - Infrastructure	Page 20
Our consultants - Energy	Page 25
Our consultants - Infrastructure	Page 26
Our consultants - Maritime	Page 27
Our clients	Page 28
Contact details	Page 29



Our services lines

A key strength of Drake Energy & Maritime Consulting is its ability to combine deep industry expertise across the energy, infrastructure and maritime sectors with specialist advisory capability in economic and financial analysis, risk analysis, environmental, social and governance (ESG), stakeholder engagement and strategy.

Energy

Drake Energy & Maritime Consulting provides advisory services across the energy sector, including support through the project development lifecycle for renewable and gas-fired power stations, gas market analysis and market design and the assessment of emerging hydrogen opportunities.
Our core team of energy consultants are experienced in servicing clients across the renewable and gas industries.

Infrastructure

Drake Energy & Maritime Consulting advises on the development of infrastructure projects, including the application of the National Gas Rules and their implications for gas pipeline investment decisions.
Our core team of consultants are experienced in servicing clients across the electricity, gas and water industries.

Maritime

Drake Energy & Maritime Consulting provides advisory services across the maritime sector, including support for port development, trade growth strategies, best-practice environmental and emergency management and logistics within maritime supply chains.
Our core team of consultants are experienced in servicing clients across the shipping, port and offshore petroleum industries.



Case study - energy

Client **Allgas Energy**

Year **2026**

Drake Energy is conducting research on behalf of Allgas Energy as part of a study examining the factors influencing gas connection decisions across residential, commercial and industrial markets. The purpose of the study is to better understand how customers and stakeholders evaluate gas relative to alternative energy options, identify the drivers of fuel choice decisions and understand the role that advisers and other market participants play in these decisions. The findings will be used to support an assessment of customer decision-making, commercial drivers and stakeholder influence.

These services were delivered through an integrated understanding of gas network regulation, development in south east Queensland and stakeholder engagement.

Value chain

Gas Network | Industry | Developers | Homes



Case study - energy

Client **Allgas Energy**

Year **2026**

Drake Energy & Maritime Consulting prepared a series of reports for Allgas Energy assessing the role of biomethane in the decarbonisation of the Allgas gas distribution network. The work considered the transition of Australia's biomethane industry from landfill gas–based electricity generation toward purpose-built biomethane production facilities, supported by early-stage investment and evolving national policy settings.

Drake Energy & Maritime Consulting's scope included assessment of feedstock availability, renewable certification pathways, commercial strategy, plant concept design, financial modelling and the application of economic regulation.

These services were delivered through an integrated understanding of renewable gas markets, gas network regulation and infrastructure commercialisation.

Value chain



Renewable Energy



Biomethane Production



Gas Network



Consumers



Case study - energy

Client **AGL**

Year **2024-2026**

AGL has engaged Drake Energy & Maritime Consulting to support the development of its gas-fired generation strategy. Drake Energy & Maritime Consulting is providing advisory support on gas transport arrangements for potential projects in New South Wales and Queensland, working closely with internal client teams and external stakeholders to address key gas supply considerations.

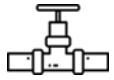
The scope of services includes assessment of gas supply options, identification of potential power station sites, analysis of pipeline pathways from gas fields to project sites, site acquisition support and management of delivery partnerships to support the assessment process.

These services are delivered through a detailed understanding of gas markets, gas infrastructure, and the regulatory and commercial frameworks governing gas supply in eastern Australia.

Value chain



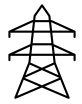
Gas Supply



Gas Pipelines



Power Station



Electricity Grid



Case study - energy

Client **Allgas Energy (a Marubeni, NSW State Super and APA JV)**

Year **2024**

Drake Energy & Maritime Consulting undertook a series of studies for Allgas Energy in relation to a proposed small-scale renewable hydrogen production facility. The project involved the injection of renewable hydrogen into a defined section of the gas distribution network to create a hydrogen–natural gas blend.

In 2024 Drake Energy & Maritime Consulting provided ongoing commercial and project advisory support as the concept progressed through a detailed assessment phase. This support included site acquisition, scoping requirements for front-end engineering design (FEED), development approval processes, management of delivery partnerships, stakeholder engagement, renewable certification and electricity connection applications.

These services were delivered through a combination of technical, commercial and regulatory expertise in gas networks, renewable gases and infrastructure development.

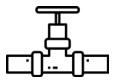
Value chain



Renewable Energy



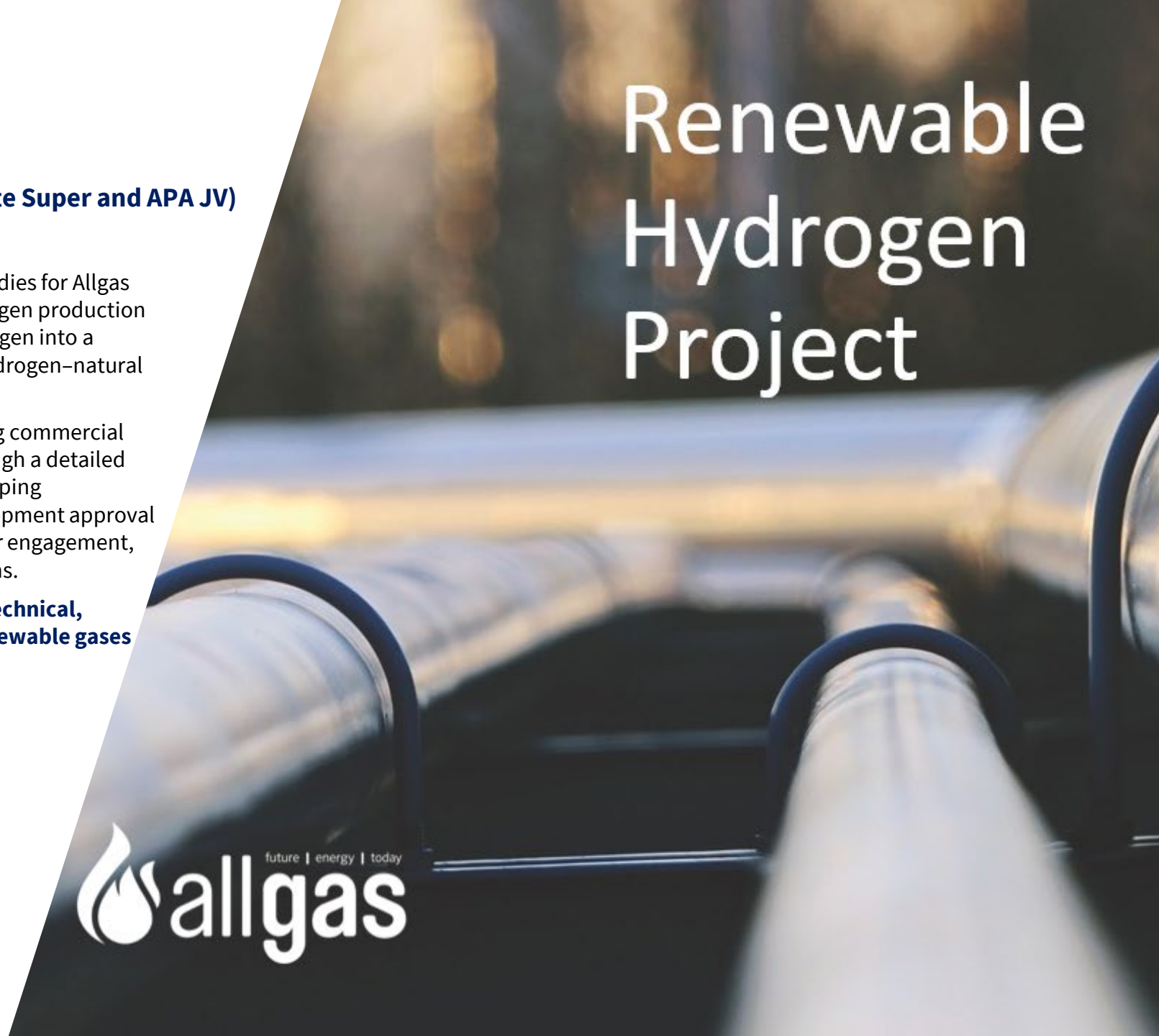
H_2 Production



Gas Network



Consumers



Case study - energy

Client **Allgas Energy**

Year **2023**

Drake Energy & Maritime Consulting prepared a Pre-feasibility Study for a proposed small-scale renewable hydrogen production facility involving the injection of renewable hydrogen into the Allgas gas distribution network. Drake Energy & Maritime Consulting provided Allgas Energy with an integrated development advisory capability to support early-stage project assessment.

The study included development of the project concept design, identification and assessment of a preferred site in Brisbane, evaluation of integration requirements with the existing gas network, and comparison of renewable electricity supply options, including on-site solar generation and electricity sourced from a retailer.

The scope of services included commercial strategy, site selection and development approval pathways, stakeholder engagement, plant concept design, financial modelling, consideration of economic regulation, and assessment of renewable electricity supply arrangements.



Value chain



Renewable Energy



H_2 Production



H_2 Pipeline



H_2 Storage

Case study - energy

Client **Allgas Energy**

Year **2022**

This project involved a strategic assessment of the potential role of renewable hydrogen in the decarbonisation of the Allgas Energy gas distribution network, including consideration of the value chain required to progressively displace natural gas at scale. The assessment considered both a long-term horizon of approximately 20 years and a shorter-term development pathway.

For the shorter-term development pathway, Drake Energy & Maritime Consulting prepared a Concept Study for a small-scale renewable hydrogen production facility involving the injection of renewable hydrogen into the gas distribution network. This was delivered through engagement with State Government and local council departments and discussions with potential project partners, including preliminary consideration of behind-the-meter electricity supply arrangements.

The scope of services included strategy development, market analysis, electricity procurement assessment, financial modelling, consideration of economic regulation, development approval pathways, plant concept design and capital cost estimation, and site selection.

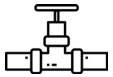
Value chain



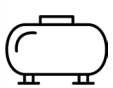
Renewable Energy



H_2 Production



H_2 Pipeline



H_2 Storage



Case study - maritime

Client **Confidential Client**

Year **2026**

Drake Energy & Maritime Consulting is pleased to have recently completed a project to improve understanding of oil spill preparedness and response in the Australian industry and regulatory contexts. Drake Energy & Maritime Consulting was able to leverage its diverse capabilities including technical analysis, feasibility, cost-effectiveness and understanding of regulatory frameworks and practical implementation.

This work builds on earlier discussions held across the industry which Drake Energy & Maritime Consulting supported with high-level assessment of reform options, consideration of impacts and comparison with international approaches.

The work included technical analysis, feasibility, cost-effectiveness and understanding of regulatory frameworks and implementable recommendations.



Photo: Spill response operations following the Macondo-1 (Deepwater Horizon) incident

Photo credit: Spc Casey Ware, US Department of Defence (DoD). The appearance of DoD visual information does not imply or constitute DoD endorsement.

Case study - maritime

Client **Gladstone Port Corporation**

Year **2025**

Gladstone Ports Corporation (GPC) engaged Drake Energy & Maritime to undertake a comprehensive review of marine pilot transfer arrangements across the Port of Gladstone, Port Alma and the Port of Bundaberg. The review assesses both aerial and maritime transfer platforms to identify best-fit solutions for each port, supported by a realistic evaluation of costs and required enabling infrastructure.

The scope includes end-to-end assessment of pilot transfers from boarding stations through to port service areas, together with analysis of any additional resourcing, infrastructure and operational support required under alternative transfer models. (Photo GPC)

The review incorporates logistics assessment, risk identification and analysis, regulatory compliance review, benchmarking against industry best practice and detailed cost analysis to inform practical, implementable recommendations.

Value chain



Ships



Helicopter



Launch

Case study - maritime

Client **North Queensland Bulk Ports Corporation**

Year **2025**

North Queensland Bulk Ports engaged Drake Energy & Maritime Consulting to review shipping and maritime operations at the Port of Hay Point and to develop a detailed scope of works to support a tender for a Port-Wide Risk Assessment. The Port of Hay Point is one of the world's largest coal export ports and is located approximately 50 nautical miles from the Great Barrier Reef.

The engagement included a review of existing port risk assessments, operational procedures and guidelines to inform the development of a structured and comprehensive work plan.

The scope of services included risk analysis, shipping analysis, port operations analysis and preparation of tender documentation.



Value chain

Ships **Port**

Case study - maritime

Client **North Queensland Bulk Ports Corporation**

Year **2024**

Drake Energy & Maritime Consulting has been engaged by North Queensland Bulk Ports to prepare a business case for a proposed investment in a heavy-duty laydown area for container storage at the Port of Mackay. The study includes advisory support on the structuring of commercial arrangements for operation of the storage area and access to berth and wharf infrastructure.

The business case builds on earlier work undertaken by Drake Energy & Maritime Consulting for North Queensland Bulk Ports in 2023, which assessed opportunities to support increased trade through the Port of Mackay.

Construction of the container storage facility has commenced (Photo Credit North Queensland Bulk Ports).

The scope of services includes landside supply chain analysis, shipping analysis, strategy development, financial analysis and preparation of the business case.

Value chain

Ships **Port** **Logistics** **Importer / Exporter**



Case study - maritime

Client **North Queensland Bulk Ports Corporation**

Year **2023**

Drake Energy & Maritime Consulting assessed opportunities for trade growth through the Port of Mackay. The study included analysis of the potential market for port services, assessment of supply chains within the Mackay–Isaac–Whitsunday region, and evaluation of the shipping, wharf and landside infrastructure required to support identified opportunities.

The assessment considered the implications of several gigawatts of proposed renewable power generation developments in the region and their potential impact on future trade volumes. The engagement leveraged Drake Energy & Maritime Consulting's integrated energy and maritime expertise, drawing on a detailed understanding of both sectors' value chains.

The scope of services included market sizing, landside supply chain analysis, shipping analysis, infrastructure gap analysis, strategy development and economic analysis.

Value chain

Ships **Port** **Logistics** **Importer / Exporter**



Case study - maritime

Client **Commonwealth Department of Industry Science & Resources (DISR) and National Offshore Petroleum Safety & Environmental Management Authority (NOPSEMA)**

Year **2023**

Between 2021 and 2023, Drake Energy & Maritime Consulting advised the Australian Government on the offshore petroleum spill preparedness and response (OSPR) framework. The engagement included preparation of a final report presenting a cost–benefit analysis of potential changes to the regulatory and operational elements underpinning the Australian OSPR framework.

Drake Energy & Maritime Consulting also facilitated a multi-stakeholder workshop on behalf of NOPSEMA and the Department of Industry, Science and Resources, involving representatives from industry and relevant government agencies.

The scope of services included economic analysis, stakeholder engagement, comparative analysis of international best practice, review of government regulation, and framework comparison.



Case study - maritime

Client **Commonwealth Department of Industry Science & Resources (DISR) and National Offshore Petroleum Safety & Environmental Management Authority (NOPSEMA)**

Year **2023**

This project assessed the feasibility of adapting elements of offshore petroleum spill preparedness and response (OSPR) frameworks in the United Kingdom, Norway and the United States for application in the Australian context. Building on earlier work undertaken by Drake Energy & Maritime Consulting, the assessment examined the relative strengths and limitations of international approaches, including mechanisms for regulatory oversight and coordination arrangements.

Drake Energy & Maritime Consulting was supported on this engagement by United States–based specialist consultants PCCI Inc. and Polaris Applied Sciences.

The scope of services included international research, comparative analysis, assessment of global best practice, review of government regulation, and framework comparison.



Case study - maritime

Client **Commonwealth Department of Industry Science & Resources (DISR) and National Offshore Petroleum Safety & Environmental Management Authority (NOPSEMA)**

Year **2022**

This project involved a comparative assessment of Australia's offshore petroleum spill preparedness and response (OSPR) framework and associated service delivery models against those in selected international jurisdictions. The assessment identified elements of international frameworks that represent global best practice and considered their potential applicability within the Australian context.

Drake Energy & Maritime Consulting undertook targeted engagement with stakeholders in the United Kingdom, Norway and the United States, including oil and gas operators, oil spill response service providers, regulators and government maritime response organisations.

The findings of this work informed a subsequent engagement undertaken by Drake Energy & Maritime Consulting for NOPSEMA and the Department of Industry, Science and Resources.

The scope of services included international research, comparative analysis, assessment of global best practice, review of government regulation, and framework comparison.



Case study - maritime

Client **Commonwealth Department of Industry Science & Resources (DISR) and National Offshore Petroleum Safety & Environmental Management Authority (NOPSEMA)**

Year **2021**

This study assessed the implications of changes in the structure of the petroleum production industry in Australia and internationally for the offshore petroleum risk landscape and the effectiveness of Australia's oil spill preparedness and response arrangements.

The analysis considered the ongoing economic significance of offshore oil production to Australia, including the scale of production activity and employment, and how industry trends may influence future risk profiles and regulatory effectiveness.

The scope of services included risk analysis, energy sector trend analysis, industry engagement, review of relevant regulatory frameworks, and broader industry analysis.



Case study - energy and maritime

Client **Newcrest Mining**

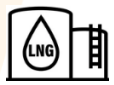
Year **2018**

Drake Energy & Maritime Consulting advised Newcrest Mining on a feasibility study for the supply of liquefied natural gas (LNG) using small-scale LNG infrastructure. The study considered LNG carrier options and alternative onshore and floating LNG receiving, storage and regasification solutions.

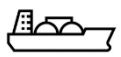
The engagement included management of an expression of interest (EOI) process to obtain proposals for LNG supply, time chartering of small-scale LNG carriers, and LNG storage and regasification services. The EOI outcomes were used to assess the delivered cost of LNG supply and to compare this with the cost of heavy fuel oil.

The scope of services included supply chain analysis, LNG market analysis, shipping assessment, industry engagement, risk analysis, and commercial management.

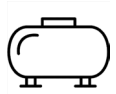
Value chain



LNG Supply



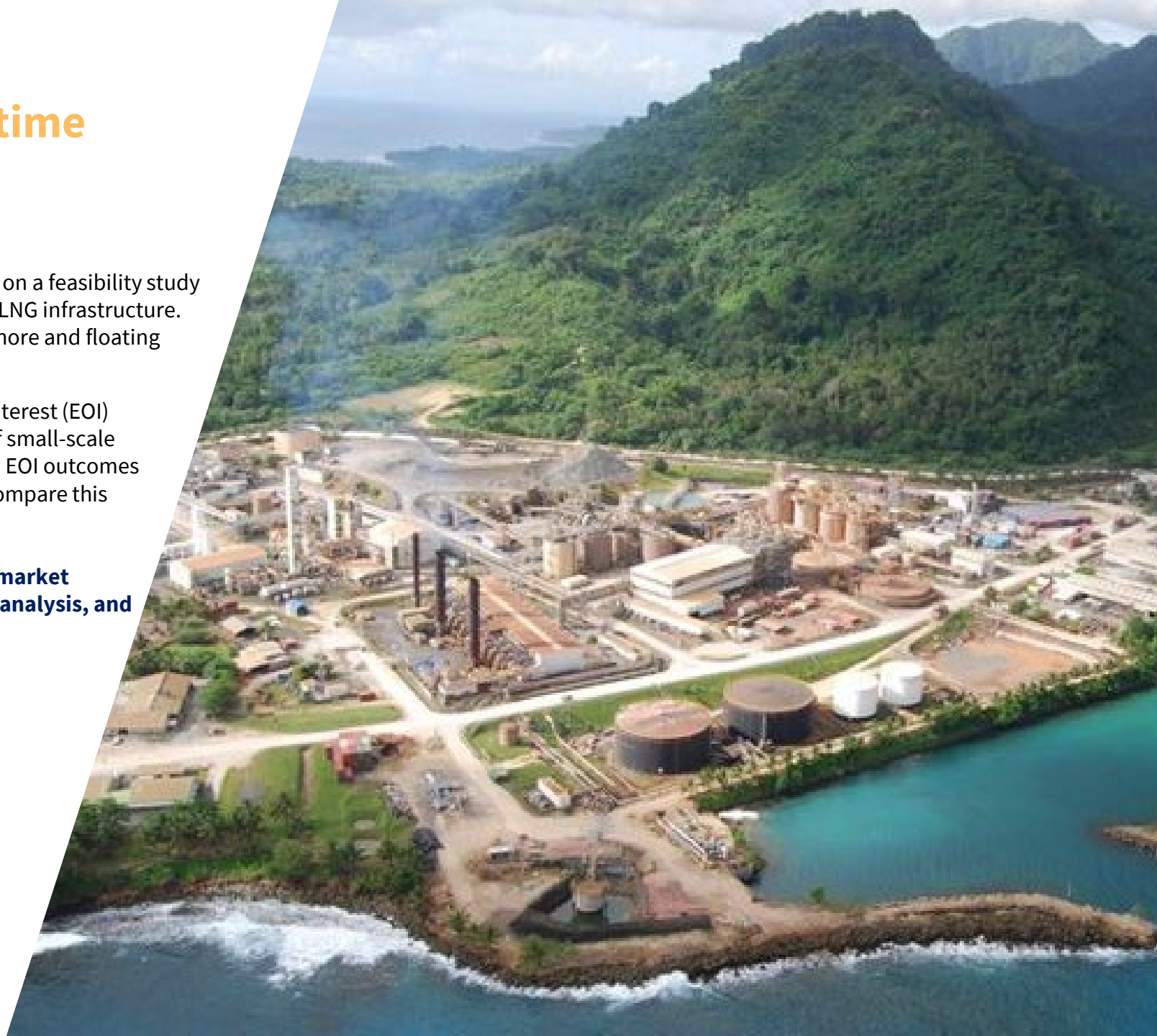
Shipping



LNG Storage



Regasification



Case study - infrastructure

Client **Allgas Energy**

Year **2023 - 2026**

Drake Energy & Maritime Consulting provided ongoing financial modelling and commercial support to Allgas, including financial analysis and modelling to support capital and pricing decisions. This included maintaining Allgas's capital contribution model and undertaking targeted financial modelling for non-standard services, including the calculation of charges for large customers.

Drake Energy & Maritime Consulting also supported Allgas during the recent market sounding process undertaken by Marubeni, NSW State Super and APA, to assess investor interest ahead of a sale announced in late 2025. This market sounding process culminated in the sale (subject to regulatory approvals) of Allgas to Stonepeak. Drake Energy & Maritime Consulting 's role included stakeholder engagement with Allgas customers to support the transaction process.

Drake Energy & Maritime Consulting delivers these services by combining rigorous financial analysis with a deep understanding of gas infrastructure commercial arrangements and the economic regulation of gas networks.

Value chain



Gas Network



Consumers



Case study - infrastructure

Client **Allgas Energy**

Year **2024**

Drake Energy & Maritime Consulting was engaged by Allgas Energy to assess the gas demand outlook for the Allgas gas distribution network. The analysis involved modelling a range of future demand scenarios, including a business-as-usual outlook and scenarios with and without the availability of renewable gases.

The assessment considered the potential impacts of policy change, including the Queensland Government's proposed phase-out of gas residential appliances, as well as the implications for the network of large industrial customers transitioning from gas to alternative fuels or electrifying industrial processes.

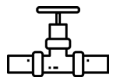
The scope of services included market analysis, review of historical demand data, assessment of potential policy impacts and economic modelling.



Value chain



Renewable Energy



Gas Network



Residential Customers



Industrial Customers

Case study - infrastructure

Client **Allgas Energy**

Year **2023 - 2026**

Drake Energy & Maritime Consulting undertook a review and optimisation of Allgas Energy's Capital Evaluation Model, which is used to assess the economic viability of individual customer connections and to determine capital contribution requirements in line with Allgas Energy's target internal rate of return.

Drake Energy & Maritime Consulting also provided ongoing advisory support through verification of the model's annual updates to ensure continued alignment with regulatory, commercial and financial assumptions.

The scope of services included financial modelling, financial model design and review, and consideration of economic regulation.



Value chain

Construction

Gas Network

Industrial Customers

Case study - infrastructure

Client **EDL**

Year **2020**

Drake Energy & Maritime Consulting advised EDL on a concept study for the development of a proposed gas pipeline in Queensland through the Bowen Basin coal mining region, intended to connect mining operations to the east coast gas pipeline network to facilitate the delivery of renewable gas.

The study included high-level commercial and economic analysis, as well as assessment of regulatory impacts arising from gas pipeline capacity trading reforms and gas trading mechanisms.

The scope of services included commercial analysis, review of relevant government regulation, industry analysis, strategy development, pipeline concept development, fatal flaws assessment, and evaluation of potential development pathways.

Value chain



Renewable Energy



Gas Processing



Gas Pipeline



Case study - infrastructure

Client **COAG Energy Council**

Year **2018**

Drake Energy & Maritime Consulting provided technical and commercial advisory support to the COAG Energy Council Gas Market Reform Group in relation to the implementation of gas pipeline capacity trading reforms. The engagement involved advising on a range of issues affecting the design and delivery of the reform package.

The reforms were intended to improve the efficiency and competitiveness of gas markets through the trading of unutilised pipeline capacity.

The scope of services included risk analysis, assessment of pipeline operations, analysis of energy sector trends, industry engagement, consideration of economic regulation, and input into legislative and regulatory drafting.



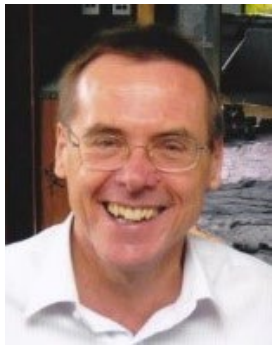
Our consultants - energy



Rod Johannessen



Nick Behrens



Peter Crittall



Nicole Ireland



Kim Lawrence



Sukhy Bansal



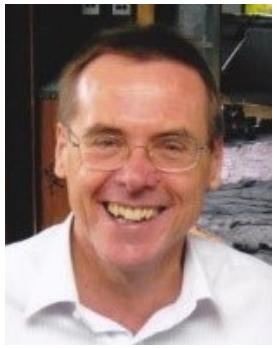
Our consultants - infrastructure



Rod Johannessen



Nick Behrens



Peter Crittall



Nicole Ireland



Sukhy Bansal



Our consultants - maritime



Rod Johannessen



Nick Quinn



Nick Behrens



Phoebe Jones



Frank Muller



Clients

apa

aql

Drake / ENERGY & MARITIME CONSULTING

allgas future | energy | today

North Queensland Bulk Ports Corporation

NOPSEMA Australia's offshore energy regulator

Partners Group REALIZING POTENTIAL IN PRIVATE MARKETS

Australian Government Department of Industry, Science and Resources

GPC

NEWCREST MINING LIMITED

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