

Leading Australia into a low-carbon energy future

Corporate Presentation

April 2022

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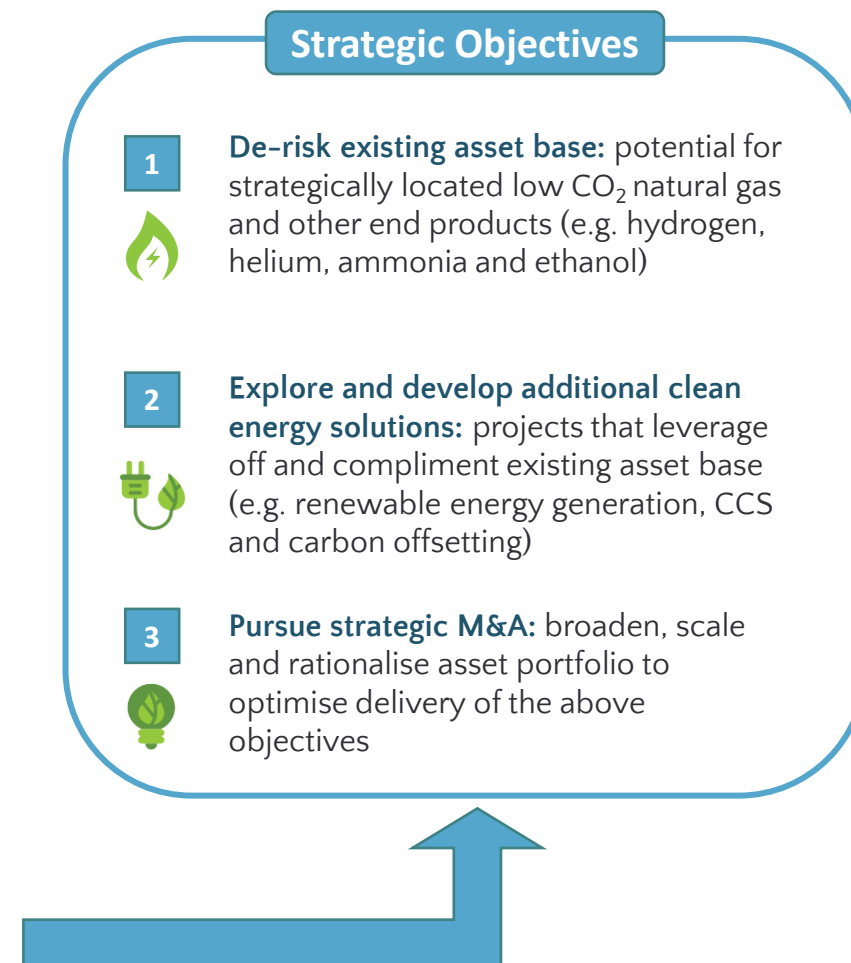
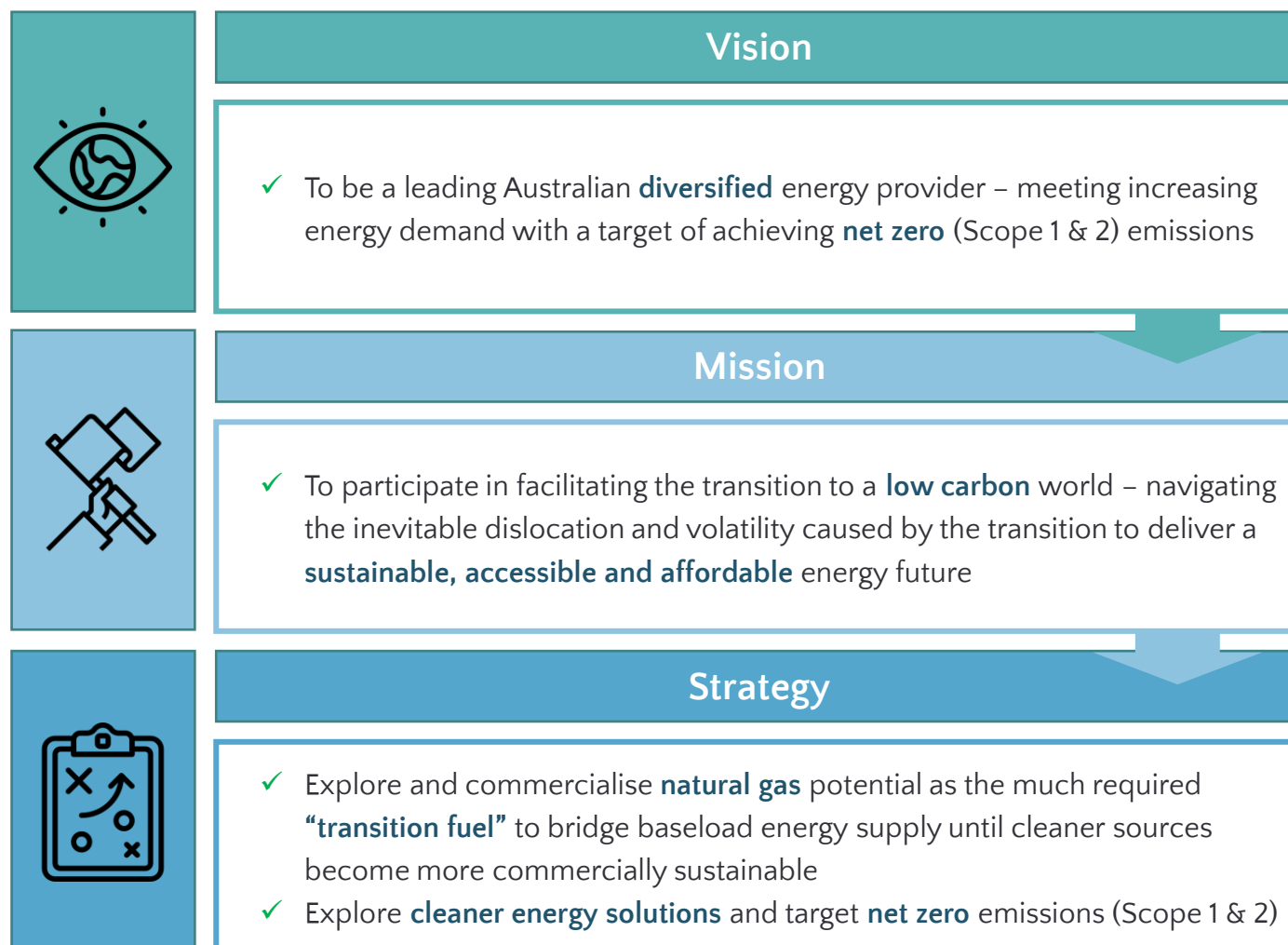
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Top End Energy – an energy company for the future



Corporate Highlights

1		Prospective acreage in Australia's most exciting hydrocarbon regions – clear roadmap to de-risk organic asset base representing material upside potential
2		Supportive Federal and State governments and other key local stakeholders
3		Well-positioned to build on future exploration success and exploit long-term structural requirement for natural gas
4		Supportive global and domestic macro and market dynamics
5		Commitment to ESG, minimising carbon footprint, and creating additional value through clean energy investment
6		Lean management team with the experience and capability to unlock near-term value and pursue inorganic growth in a supportive macro environment

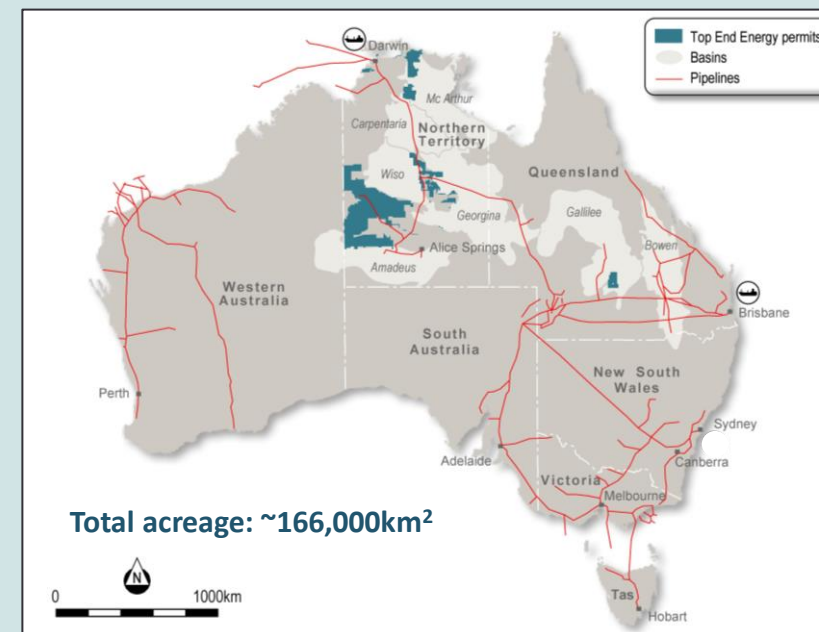
Prospective existing onshore asset base

Exposure to hydrocarbon neighbourhoods with 500+ TCF of estimated in-place natural gas resource ⁽¹⁾

- ✓ Extensive onshore acreage (~166,000 km² gross ⁽²⁾) with significant conventional and unconventional prospectivity potential
- ✓ Limited capital requirement to progress key permits to drill-ready stage
- ✓ Nearby activity de-risks Top End Energy's key NT asset potential
- ✓ Key permits in proximity to existing infrastructure
- ✓ Supportive state and federal governments with grants, research investment and infrastructure upgrades ongoing and proposed in both Queensland and the NT
- ✓ Target maiden prospective resource within 18 months of listing following intended seismic campaigns in Queensland and NT

Top End Energy Asset Portfolio

- The Company's asset portfolio currently consists of:
 1. 100% interest in **ATP 1069**, a granted permit located in Queensland
 2. 50% interest in **30 exploration permit applications** across the Northern Territory

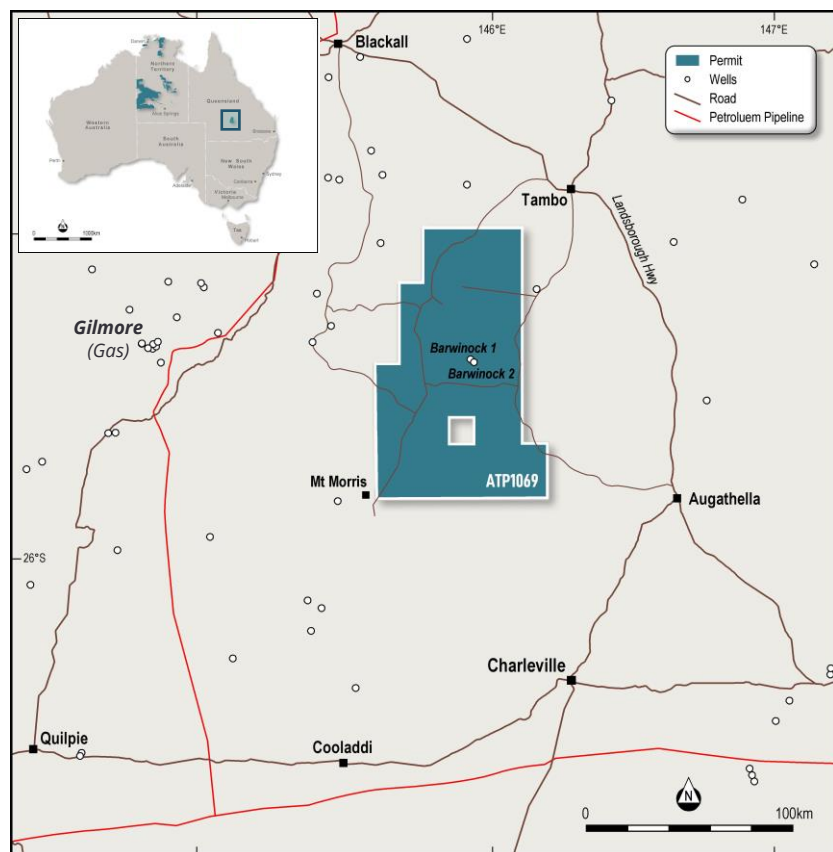


(1) As per ACCC (January 2021)

(2) Acreage is a combination of granted and in-application permits. The Company holds a net 50% interest in ~160,000 km² of permit applications in the Northern Territory

Near-term potential in Queensland

Multiple play potential on ATP 1069 permit in proximity to proven gas production and infrastructure



Asset Overview:

- ATP 1069 is located 130km north-west of Charleville in Central Queensland, covering an area of 4,185km²
- Two wells drilled to date: Barwinock-1 (1988) and Barwinock-2 (2019)
- **Conventional gas targets:**
 - The permit has potential gas prospectivity within all three of the underlying basins, the Adavale, Eromanga, and Galilee basins
 - The Gilmore Gas Field, 50km west of ATP 1069, has demonstrated commercial conventional gas production from the Lissoy Sandstone and Log Creek Formation. Interpretation suggests these formations may be present within ATP 1069
- **Unconventional oil and gas targets:**
 - Coal seam gas (CSG) potential in the late Permian Bandanna Formation and the Jurassic Birkhead Formation
 - Shale gas and shale oil in the Toolebuc Formation

Intended Work Program:

- All firm commitments related to expenditures on the block have been fulfilled ⁽¹⁾
- Detailed technical review of the existing well data, reprocessing of existing seismic data and shooting additional 2D seismic acquisition to facilitate lead / prospect development
- Primary target is deeper gas potential – unexplored on the permit to date. CSG prospectivity will also be further assessed

(1) The Company has additionally committed to plugging and abandoning the Barwinock-2 well

Near-term potential in Queensland

ATP 1069 represents both conventional and unconventional play potential

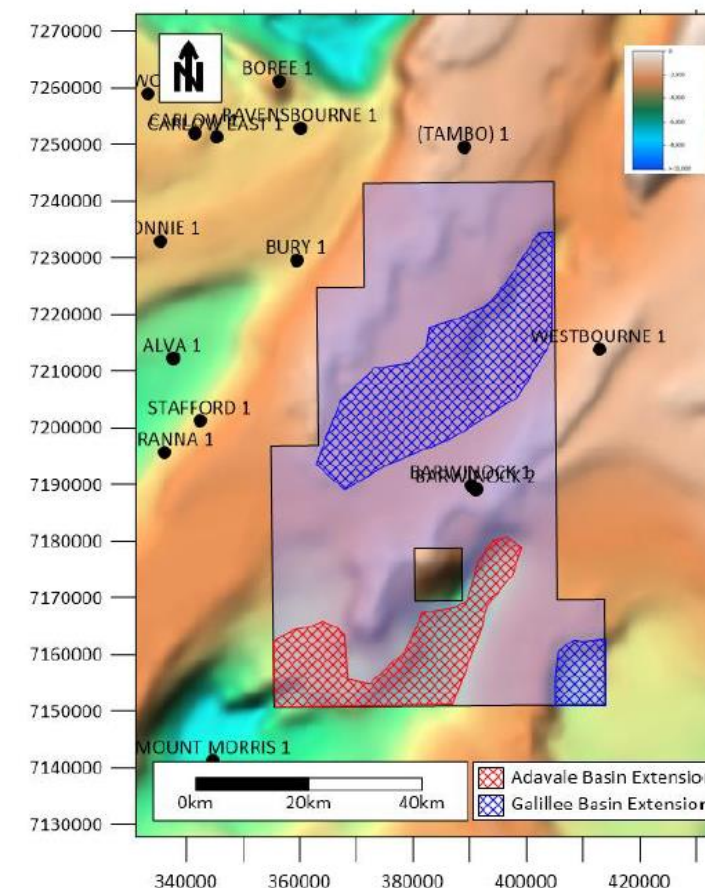
	Prospectivity Type	Prospectivity Potential ⁽¹⁾		
		Area (km ²)	Unit	Thickness (m)
1	Conventional	896	Lisoy Sandstone	20-50
2	Coal Seam Gas	1,247	Betts Creek Coals	5-20
3	Shale Oil / Gas	1,247	Toolebuc Shale	10-20

Conventional hydrocarbon potential ⁽¹⁾ 1

- Proven conventional gas production from the Lisoy Sandstone and Log Creek Formation nearby. Same formations may be present within ATP 1069
- ERCE have indicated potential prospectivity in the west and east of the permit (800km² and 96km² respectively)

Unconventional hydrocarbon potential ⁽¹⁾ 2 3

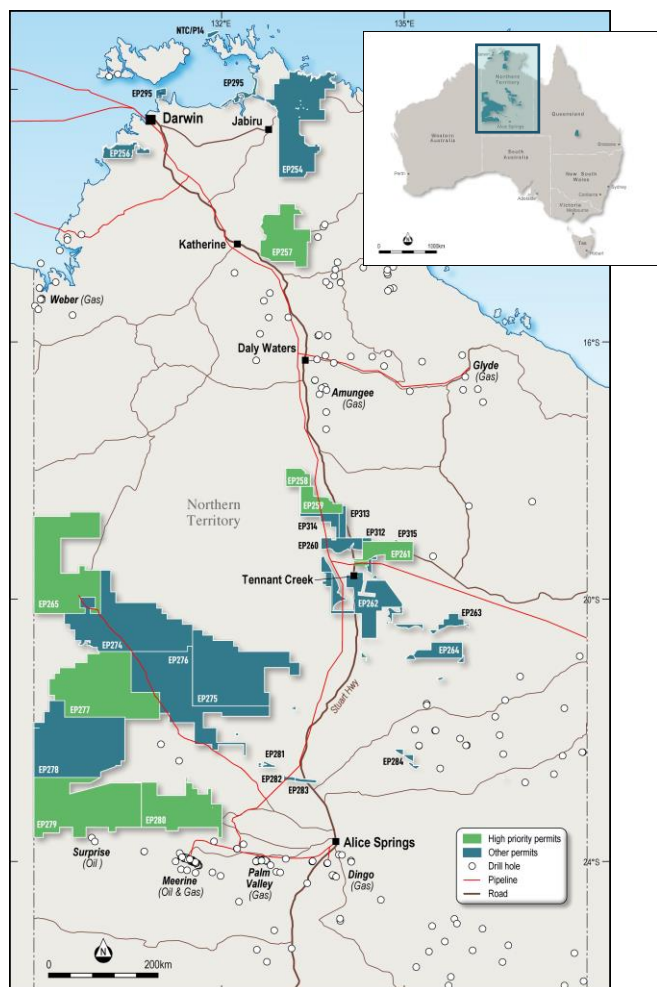
- Strong reflections within seismic data can be interpreted as indicating the presence of well-developed Permian coals and thickening of coals off-structure
- The Toolebuc Formation is described as a potential source rock and was intercepted in ATP 1069 by Well Barwinock-2



⁽¹⁾ Evaluation of the Prospectivity of Certain Exploration Permits, Queensland and the Northern Territory, Australia (ERCE)

Extensive optionality across the Northern Territory

Significant application acreage in one of Australia's most active and prospective hydrocarbon regions



Portfolio Overview

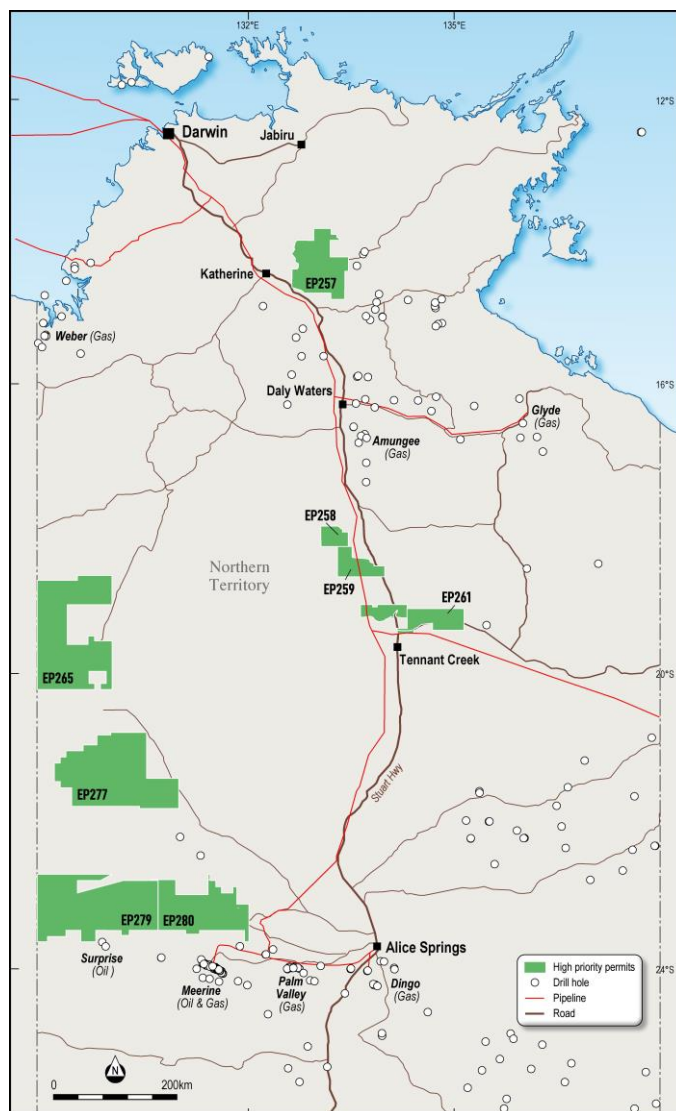
- 30 applications ⁽¹⁾ for petroleum exploration permits (EPs) within the Northern Territory, encompassing ~160,000 km² of gross permit area
 - The Company holds a 50% interest in the EP applications through an incorporated joint venture with McKam Aust Pty Ltd
- Large acreage positions neighbouring licenses held by Origin, Santos, Empire Energy, Blue Energy and Armour Energy
 - Successful drilling and flow tests continue to de-risk commercial potential of the region
- Significant Velkerri shallow shale areas up to 700m thick with large gas-in-place volumes and high liquids content as discovered in surrounding wells (wet gas window)
- Bessie Creek sandstone formations of up to 30m thickness prospective for conventional gas

Intended Work Program

- The Company is currently focused on negotiations with Traditional Owners and Native Title holders to achieve grant of **EP(A) 258** and **EP(A) 259** and preparation of approvals for post-grant work programs
- Prior to grant of applications, the Company will undertake geological & geophysical studies including preparations for 2D seismic acquisition
- 2D seismic acquisition of up to 250km² post-grant
- Seismic processing and interpretation, work up drill-ready prospects and resource potential
- Drill multiple prospects

(1) Grant of applications are subject to reaching agreements with traditional Aboriginal owners and Native Title holders pursuant to the Aboriginal Land Rights (Northern Territory) Act 1976 (Cth) and the Native Title Act 1993 (Cth)

Prioritised permit applications represent near-term potential

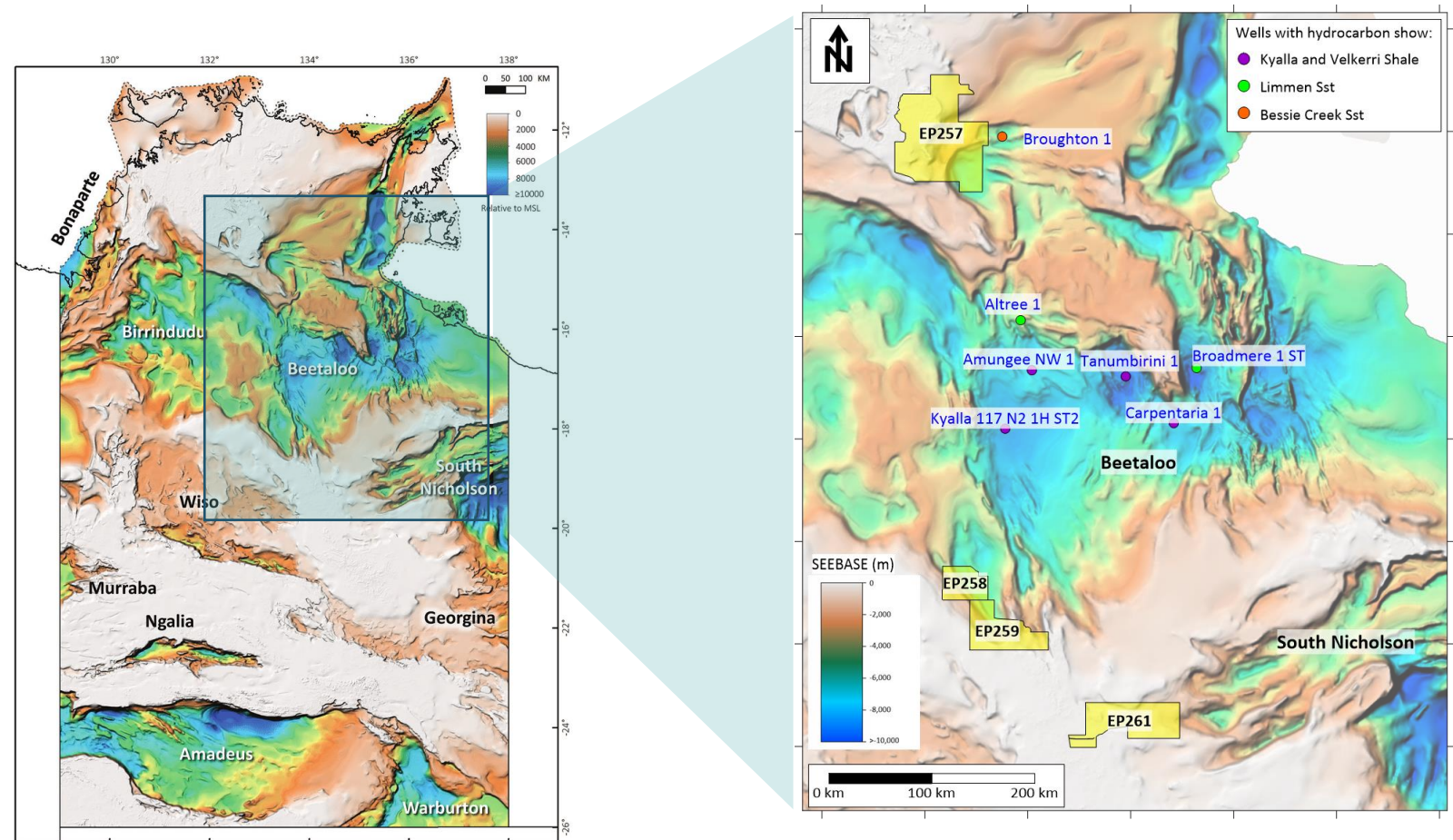


- **EP(A) 257 (7,255 km²):** located in Greater MacArthur Basin – both conventional / unconventional prospectivity. Potential gas in the Limmen sandstone and likely presence of the Velkerri Shale, which is being targeted by Origin, Santos and Empire Energy
- **EP(A) 258/259 (3,812 km²):** south of known discoveries within the Velkerri / Kyalla Shales, and conventional Moroak / Bessie Creek Sandstone reservoirs, on edge of Greater MacArthur Basin
- **EP(A) 261 (3,218 km²):** located within the South Nicholson Basin with stratigraphic play potential
- **EP(A) 265/277 (33,837 km²):** surrounding the Murraba Basin, similar stratigraphy is found within the producing Amadeus Basin
- **EP(A) 279/280 (26,830 km²):** located on the edge of the Amadeus basin, nearby the producing Surprise oil field. Conventional prospectivity from similar plays to the Surprise field is apparent

Potential near-term prospects

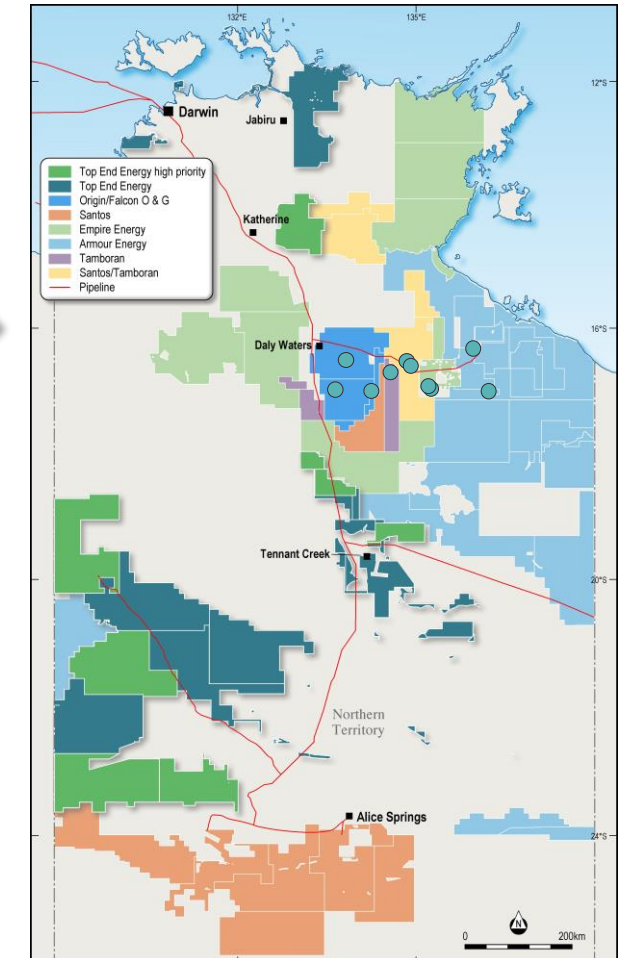
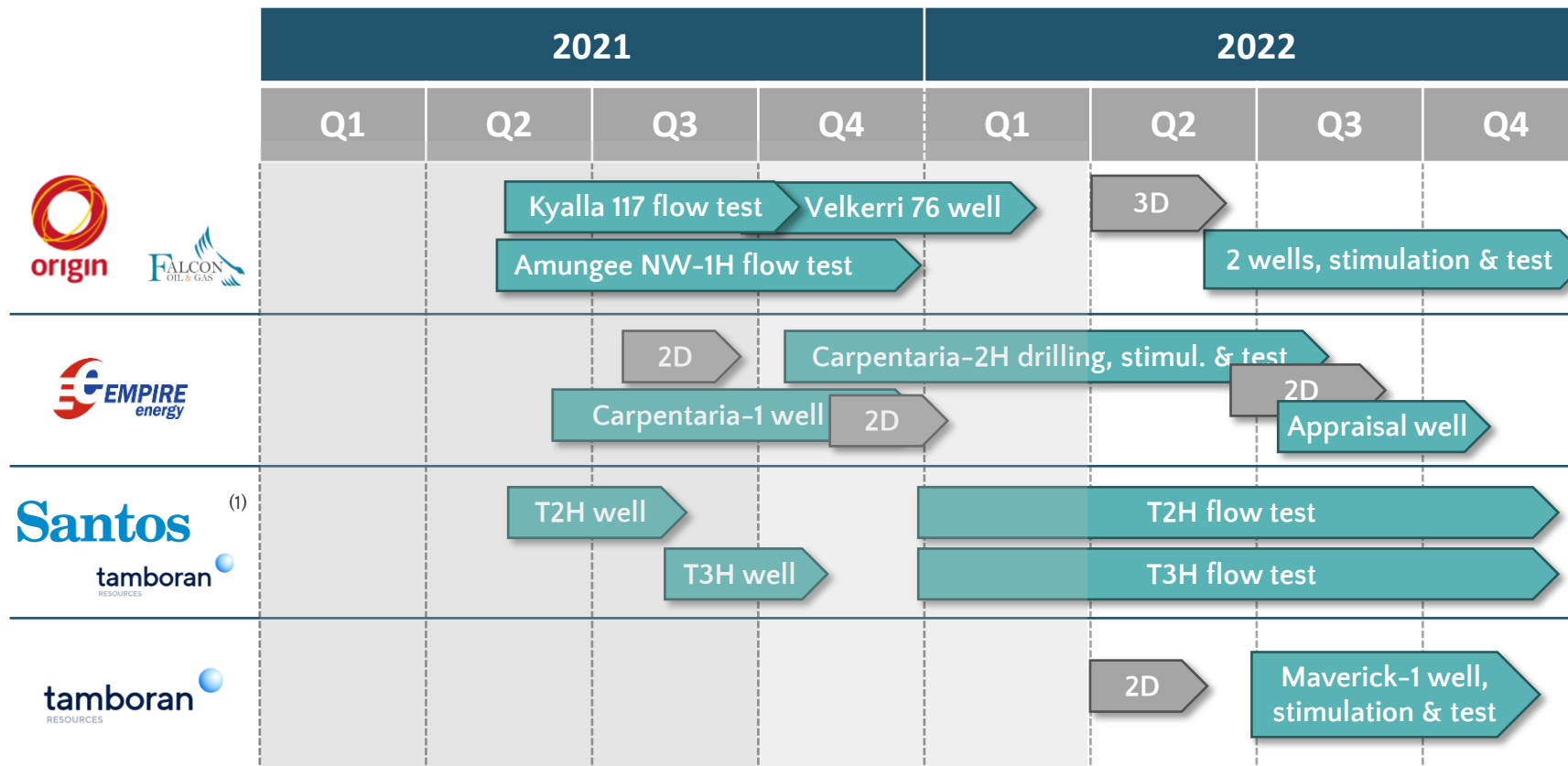
Key permit applications located in potential wet gas window on shallower basin margin around the Beetaloo sub-basin

- Key permits in the north of the NT located on the edge of the Greater McArthur Basin – potential for presence of the Kyalla and Velkerri shales being targeted by operators in the Beetaloo sub-basin
- The Company is initially focusing on **EP(A) 258** and **EP(A) 259** and is currently in negotiations with the Northern Land Council and traditional owners / native title holders to reach agreements for terms of grant
- The Company is targeting grant of at least one of these permits ahead of undertaking initial work programs in 2023



Activity in the Beetaloo sub-basin

Recent and ongoing operator work programs in the Beetaloo sub-basin continue to prove up resources and potential of the region



Source: Empire Energy corporate presentation (24 March 2022), Tamboran Resources corporate presentation (23 March 2022), Falcon Oil & Gas announcement (25 January 2022); work programs subject to regulatory approvals
 (1) Continuation of ongoing well test subject to further test results

● Well drilling and/or flow test

Supportive Federal & State Governments

“The Beetaloo Sub-basin is potentially a world-class gas resource which could create thousands of jobs and help bolster supplies of gas for the domestic market and for exports around the world”

- Federal Minister for Resources and Water

Repealing of moratorium on hydraulic stimulation

- Northern Territory government accepts all recommendations in 2018 fracking inquiry

Government pursues gas-led recovery

- North Bowen and Galilee Strategic Basin Plan (\$20.7m investment in gas potential and >\$400m in studies and infrastructure upgrades)
- Cooper and Adavale Strategic Basin Plan (\$60m investment to facilitate new gas supply)
- Beetaloo Strategic Basin Plan
 - \$50m Beetaloo Cooperative Drilling Program to support \$200m of exploration
 - Infrastructure upgrades: \$217m NT Gas Industry Roads Upgrades

Continued support for Beetaloo drilling grants

- Grants issued to both Empire Energy (\$19.4m) and Tamboran Resources (\$7.5m) in Q1 2022

Energy & emissions reduction investment

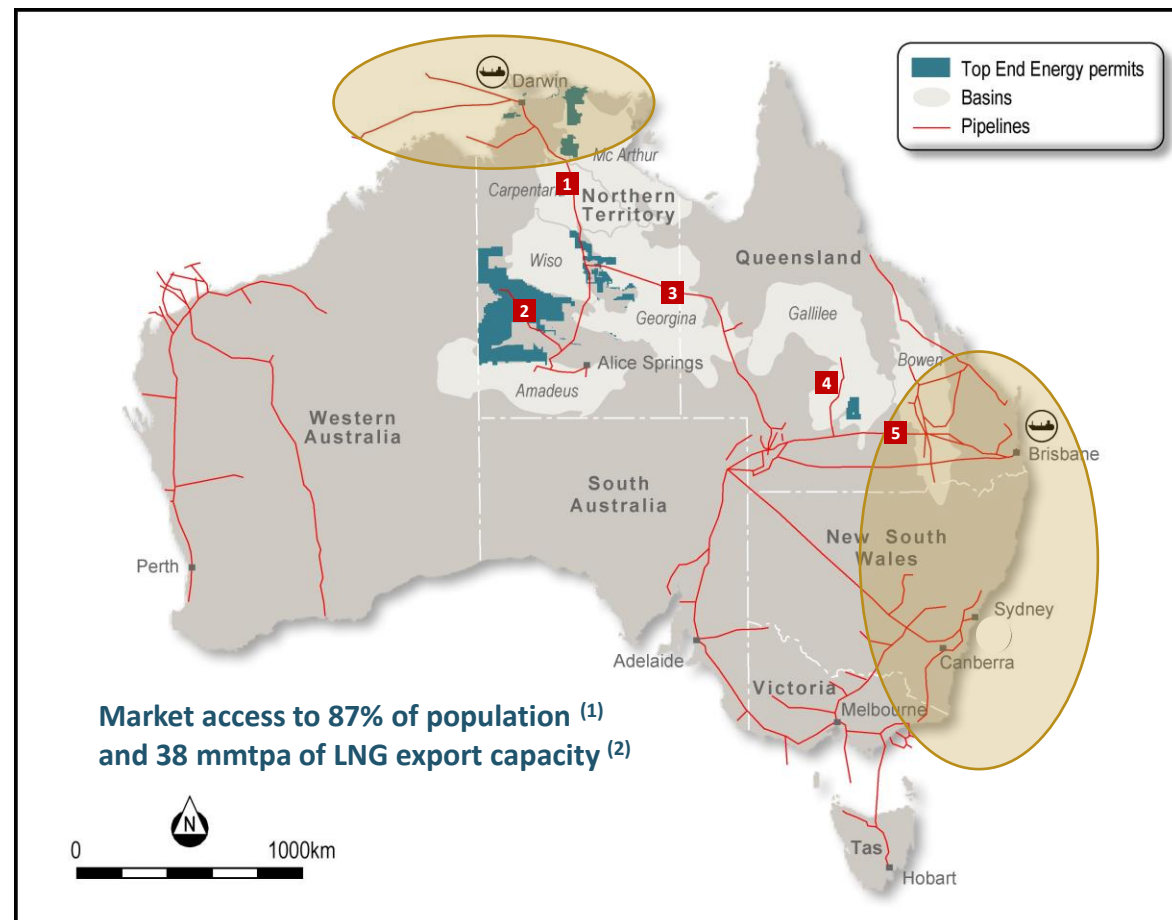
- \$300m allocated in 2022-23 Budget to support low emissions LNG and clean hydrogen in the NT

Northern Territory Government Gas Strategy

- 1 Expand the world-scale Darwin LNG export hub
- 2 Grow the Northern Territory's service and supply industry
- 3 Establish gas-based processing and manufacturing
- 4 Grow research, innovation and training capacity
- 5 Contribute to Australia's energy security

Well-positioned to build on potential future discoveries

Advantageous onshore position in proximity to existing infrastructure and structurally short gas markets



Source: AEMC, APA, AGIG
 (1) Australian Bureau of Statistics
 (2) Department of Industry, Science, Energy and Resources (Resources and Energy Quarterly December 2021)
 (3) Department of Industry, Science, Energy and Resources – partnership between federal government and NT government (federal government to contribute \$173.6m)

Midstream & Civil Infrastructure

	Pipeline	Operator	Capacity (TJ/day)
1	Amadeus Pipeline	APA	120
2	Tanami Gas Pipeline	AGIG	13
3	Northern Gas Pipeline	Jemena	106
4	Cheepie to Barcaldine Gas Pipeline	OSD Pipelines	3-12
5	South West Queensland Pipeline	APA	404

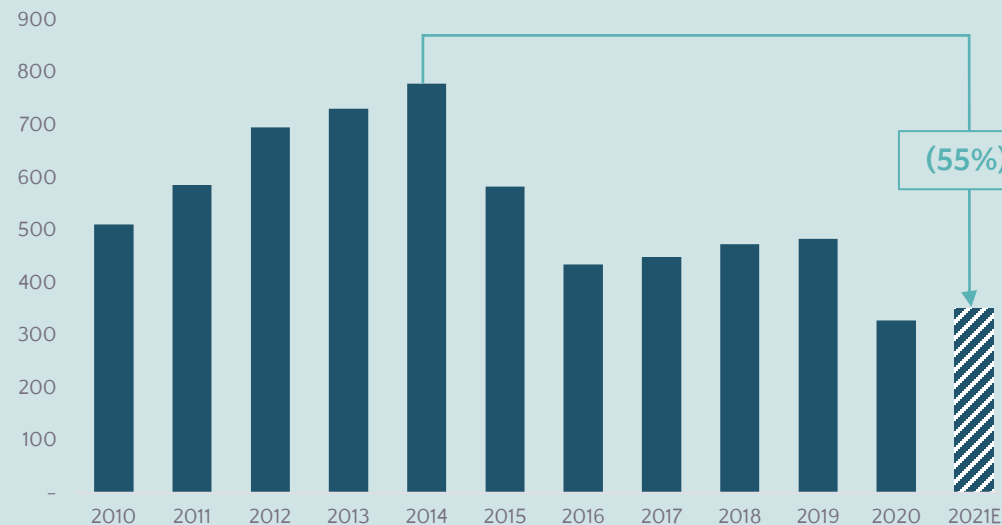
- Asset base is well positioned in proximity to existing pipelines
- Government to support NT gas development through \$217m Northern Territory Gas Industry Roads Upgrade ⁽³⁾
- The Company will look to partner with pipeline operators, stakeholders and future infrastructure developers / investors for additional midstream solutions as required

Source: Australian Energy Markets Commission (AEMC), APA, AGIG, Jemena

Supportive international & domestic market dynamics (1/3)

Sustained underinvestment in upstream has resulted in record low discoveries and decreasing development of new supply

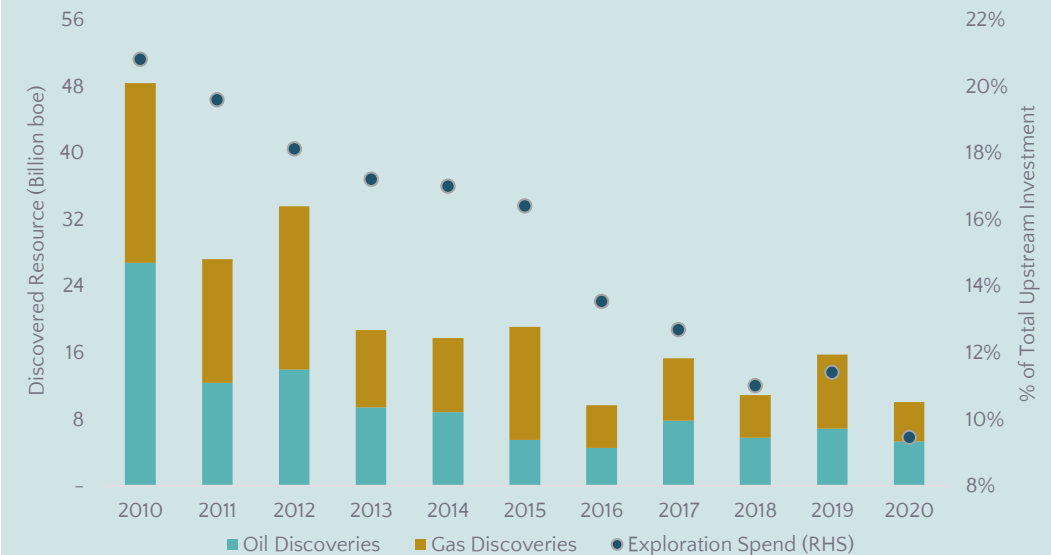
Global investment in upstream oil and gas (US\$bn; nominal)



“Continued underinvestment could result in more frequent short-lived price spikes or more prolonged upward price pressure that would deepen the negative economic impact of COVID-19, slow the global economic recovery, jeopardise the prospect of inclusive and sustainable growth, and erode energy security.” Boston Consulting Group, 10 December 2020 ⁽¹⁾

Source: International Energy Agency (IEA)
(1) BCG and International Energy Forum (Oil and Gas Investment in the New Risk Environment, 10 December 2020)

Global conventional discovered resource & exploration spend



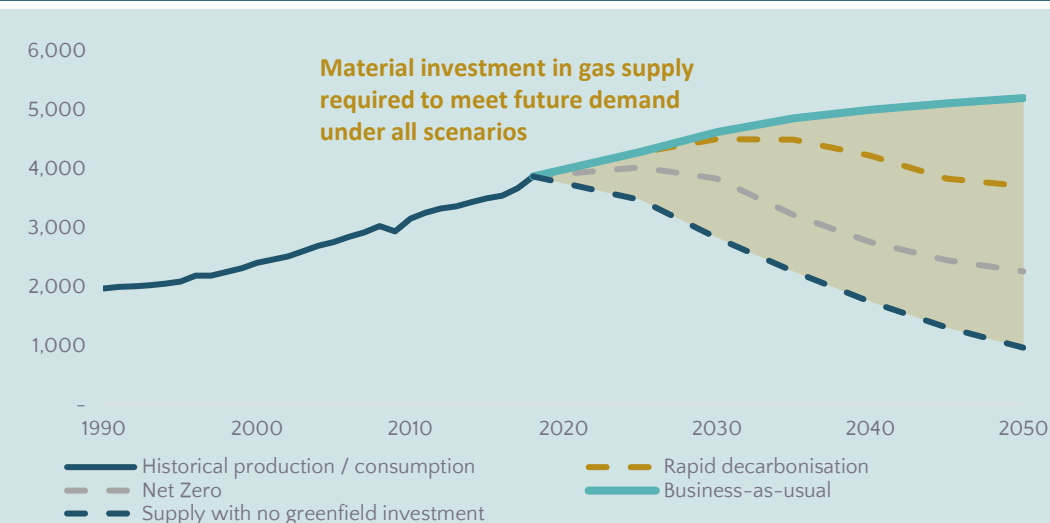
- Continued reduction in new resource discovery threatens security of supply and significant longer-term market volatility
- TEE has the opportunity to contribute to sourcing new supply of natural gas to smooth the transition to a lower carbon energy mix**

Source: International Energy Agency (IEA), Rystad Energy

Supportive international & domestic market dynamics (2/3)

While upstream investment has reduced materially, demand, specifically for natural gas and LNG, continues to rise

Global supply / demand outlook for natural gas (bcm)



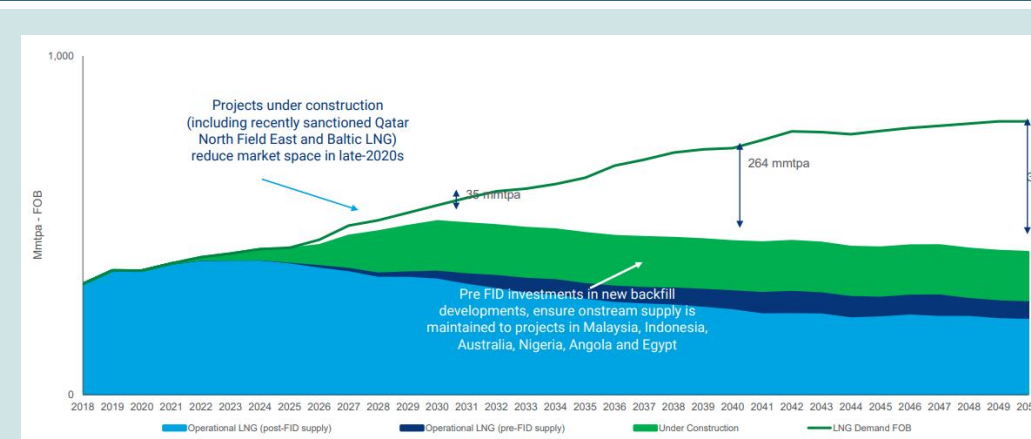
“The versatility of natural gas is one key to its expected prominent role in the energy transition... an attractive option for stabilizing the path to renewables while reducing carbon emissions in the short term.”

International Energy Forum, 20 September 2021⁽¹⁾

Source: BP Energy Outlook: 2020 Edition

(1) International Energy Forum (4 Reasons Natural Gas Is A Critical Part Of The Energy Transition, 20 September 2021)

Global supply / demand outlook for LNG

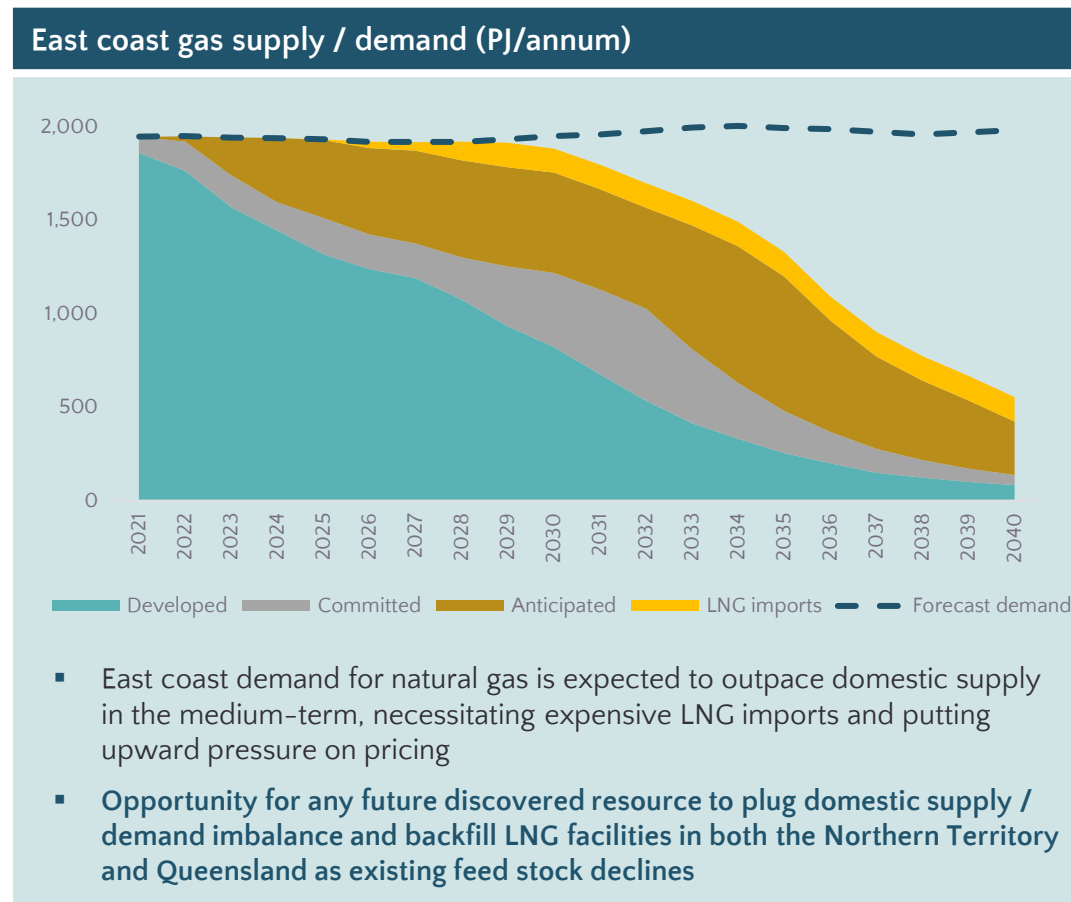


- LNG trade flows are expected to increase materially as the mechanism for balancing increasing global demand for natural gas
- Additional upward pressure on LNG demand expected as European countries look to reduce dependence on Russian gas in the wake of ongoing geopolitical events and a renewed emphasis on energy security
- This is likely to incentivise further investment in Australian LNG export capacity and therefore requirement for additional natural gas feedstock

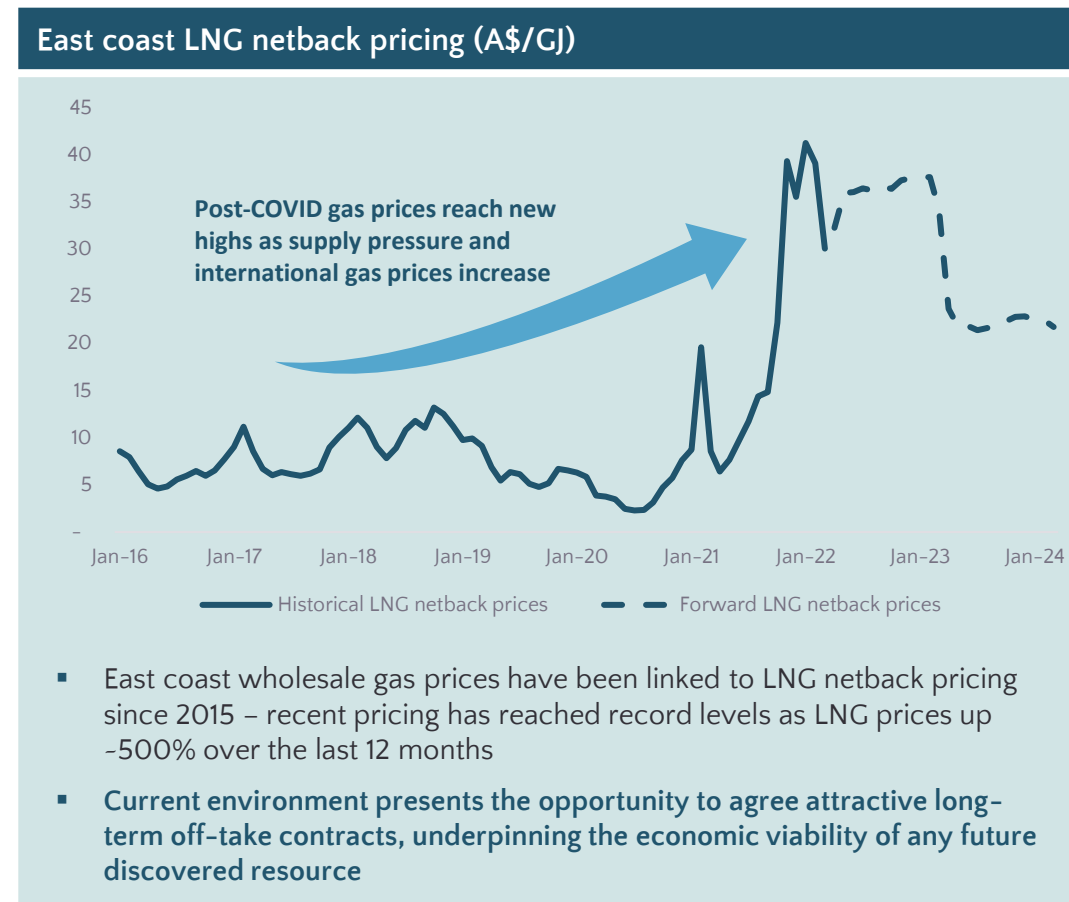
Source: Wood Mackenzie (Global gas 2021 outlook to 2050 (July 2021))

Supportive international & domestic market dynamics (3/3)

Structurally short east coast gas market and long-term global LNG undersupply will continue to drive domestic demand for natural gas



Source: AEMO (Gas Statement of Opportunities – For Eastern and South-eastern Australia (Mar-21))



Source: ACCC (1 March 2022) – indicative netback pricing based on historical and future Asian LNG spot prices

Diversification into broader clean energy space

Opportunity to leverage existing geographic footprint to pursue renewable energy and other clean energy products to offset emissions and deliver diversified revenue streams

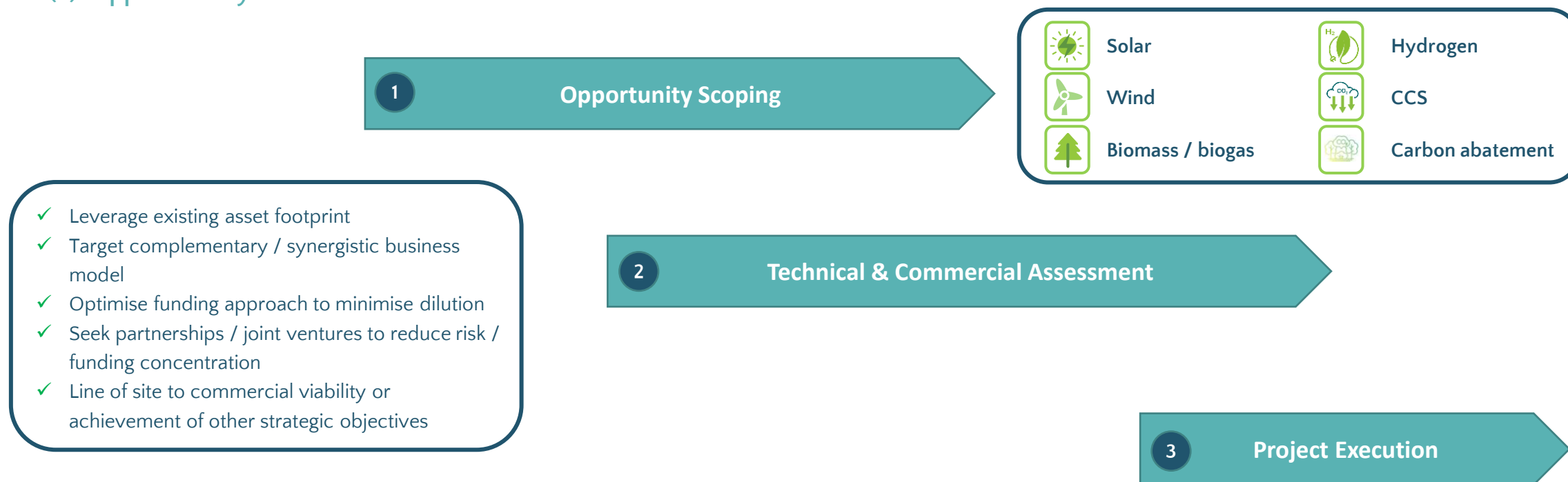
Clean energy development in Australia is still in its infancy and Top End Energy intends to be a key player through the ongoing transition

- ✓ The generation landscape is likely to be characterised by increasingly localised energy markets allowing Top End Energy to double-down on its foothold and relationships in existing geographies
- ✓ Volatile power pricing and at-risk capacity margins offer investment opportunities for nimble operators with vision
- ✓ Top End Energy will target **net zero** emissions (Scope 1 & 2) through a combination of carbon abatement measures and investment in the renewable energy value chain
- ✓ The Company will also explore potential within its existing asset base for other end products such as hydrogen and helium



Clean energy strategy

The Company has adopted a structured approach to assessing the most viable opportunities for achieving (1) net-zero emissions (Scope 1 & 2) and (2) supplementary revenue streams



2022		2023	
H1	H2	H1	H2

Commitment to ESG

Maximising all stakeholder interests and delivering value sustainably is at the heart of Top End Energy's approach to business

Maintaining the highest standards of ESG compliance is important to Top End Energy's management and imperative for the successful delivery of the Company's business plan

- ✓ Top End Energy has engaged Socialsutes to assist with setting and monitoring ESG objectives and delivery
- ✓ The Company will provide periodical disclosure on its performance in meeting set targets (ESG area: <http://www.topendenergy.com.au/esg/>)
- ✓ Climate based scenario analysis and internal carbon pricing to be utilised in economic decision making
- ✓ Working with other organizations to enhance and facilitate indigenous and local engagement in the Company's operating geographies

Socialsutes Dashboard – ESG Baseline Established

Top End Energy Ltd (TEE)

ESG Go Report

Baseline 23/09/21

Action

Explanation

Development

Reported

Verified

Audited

Dashboard - Baseline

TIMEFRAME

DISCLOSURE

MATURITY

A1

A2

A3

A4

A5

GOVERNANCE

GO-01-A

Setting purpose

Q4 2021

D

D

D

D

D

D

GO-02-A

Governance body composition

Q4 2021

D

D

D

D

D

D

GO-03-A

Material issues impacting stakeholders

Q4 2021

D

D

D

D

E

GO-04-A

Anti-corruption practices

Q4 2021

D

D

E

E

GO-04-B

Mechanisms to protect ethical behaviour

Q4 2021

D

D

D

GO-05-A

Integrating risk and opportunity into business process

Q4 2021

D

D

D

E

E

PLANET

PL-01-A

GHG emissions

Q4 2021

E

D

E

D

PL-01-B

TCFD implementation

H2 2022

D

D

E

E

PL-02-A

Land use and ecological sensitivity

Q2 2022

D

D

D

D

D

PL-03-A

Water consumption

-

E

E

E

E

E

PEOPLE

PE-01-A

Diversity and Inclusion

Q4 2021

D

E

E

E

D

D

PE-01-B

Pay equality

Q4 2021

D

E

E

E

D

PE-01-C

Wage level

-

E

E

E

PE-01-D

Child, forced or compulsory labour

H1 2022

D

D

PE-02-A

Health and safety

Q1 2022

D

D

D

PE-03-A

Training provided

-

E

E

E

PROSPERITY

PR-01-A

Rate of employment

-

E

E

E

PR-01-B

Economic contribution

Q1 2022

D

D

D

PR-01-C

Financial investment contribution

Q1 2022

D

D

D

PR-02-A

Total R&D expenses

Q1 2022

D

D

PR-03-A

Total tax paid

Q1 2022

D

D

Top End Energy Team

Emmanuel Correia
Chairman



- Over 25 years' public company and corporate finance experience in Australia
- Non-executive director of BPM Minerals Limited, Oookami Limited and Pantera Minerals Limited
- Previously a director of other ASX listed entities including Argent Minerals Ltd, Canyon Resources Ltd and Orminex Ltd

Oliver Oxenbridge
Managing Director



- Over 10 years of experience in the international oil and gas and energy space across investment banking, private equity, and corporate development
- Involved in numerous large and mid-cap M&A transactions as both advisor and investor, with global experience spanning deal sourcing, structuring, execution and asset management
- Woodside Energy, Waha Capital, Ophir Energy, Evercore Partners
- BA degree in Philosophy, Politics & Economics from University of Pennsylvania

Greg Lee
Technical Director



- Petroleum Engineer with over 35 years of diversified oil and gas experience in both technical and managerial positions
- Chartered professional engineer and a member of the Society of Petroleum Engineers and has been an independent petroleum engineer consultant since 1992 having worked with both large and small organisations in Australia and worldwide

Richard Lampe
Non-Executive Director



- Over 15 years of experience across financial services, agribusiness and natural resources
- Eight years with Goldman Sachs JBWere in financial services, five years in professional services including with EY, three years as a commercial analyst with a subsidiary of Marubeni Australia as well as having active involvement in his family mixed farming business
- Bachelor of Business (ACCT) and post graduate qualifications in Agribusiness and Applied Finance

Michelle Kennedy
CFO



- Qualified Chartered Accountant with extensive experience in providing corporate accounting and advisory services to public companies
- Previously roles with PwC and Wesfarmers
- Bachelor of Commerce degree from the University of Western Australia majoring in Financial Accounting and Corporate Finance, and a member of the Institute of Chartered Accountants Australia and New Zealand

Shane Hartwig
Company Secretary



- Certified Practicing Accountant and Chartered Company Secretary and holds a Bachelor of Business degree, majoring in Accounting and Taxation from Curtin University of Technology in Western Australia
- Over 20 years' experience in the finance industry both nationally and internationally with exposure to both the debt and equity capital markets

Third Party Support

Technical Advisors

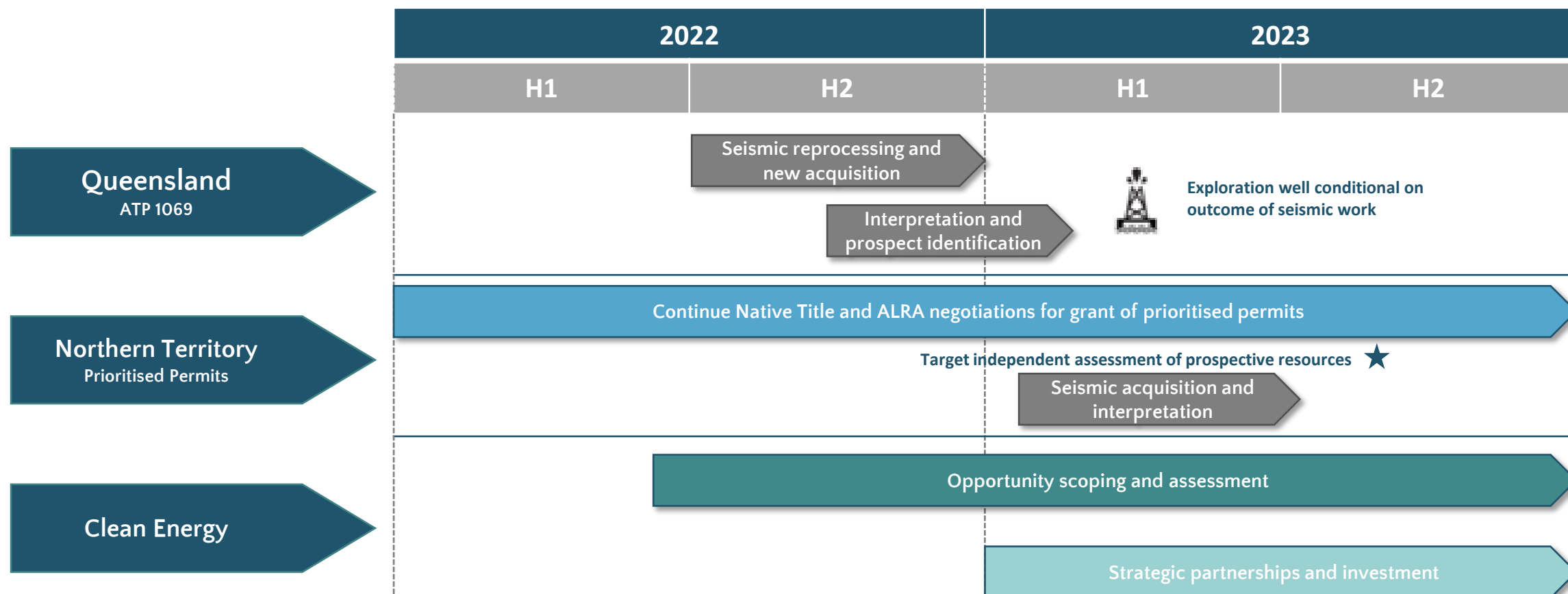


ESG Engagement



Indicative work program

Minimal funds required to deliver near-term de-risking of prioritised asset base and pursue inorganic growth opportunities



Capital & corporate structure

Top End Energy Capital Structure ⁽¹⁾

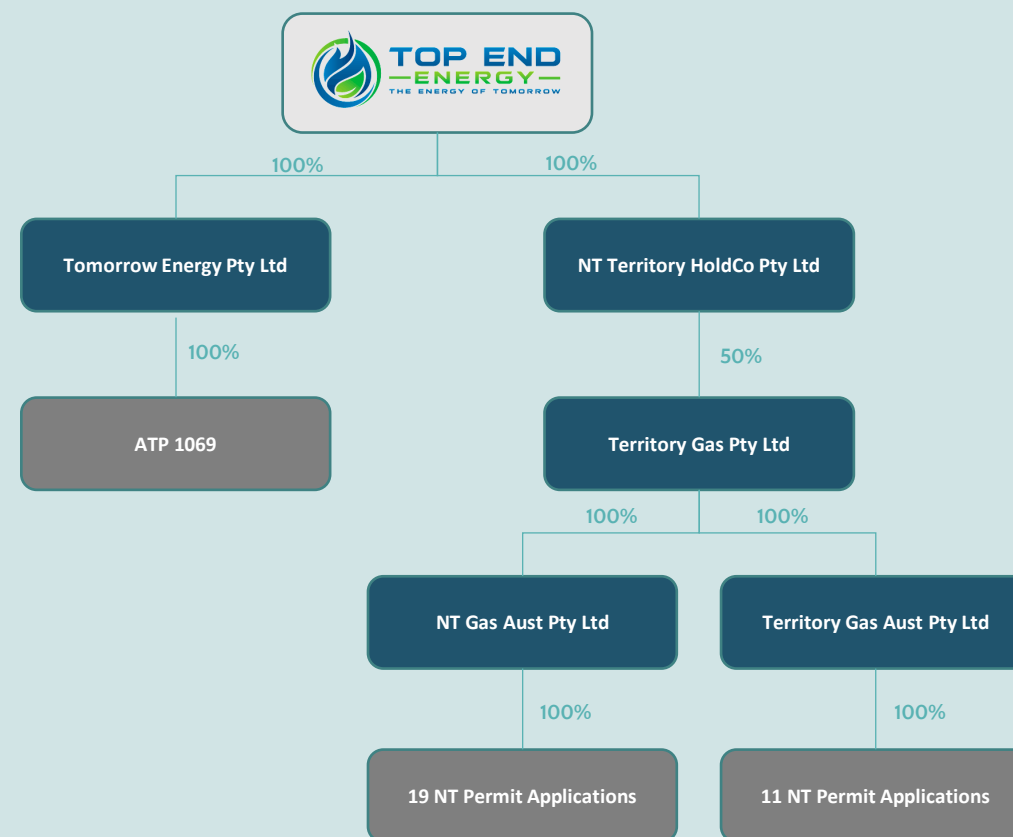
Shares on Issue & Market Capitalisation

Shares on issue	69,625,001
Share price	\$0.34
Market capitalisation (undiluted)	\$23.7m
Cash available	\$5.7m

Other Securities

Options currently on issue	26,800,000
Performance rights currently on issue	3,000,000
Contingent deferred shares ⁽²⁾	19,500,000
Total shares (fully diluted)	118,925,001

Top End Energy Corporate Structure



(1) As at 8 April 2022

(2) Share and deferred share consideration in respect of the acquisition of the interest in the NT assets from McKam Aust Pty Ltd



Appendix A

Permit Summary

Prioritised Permits

Permit	Location	Gross Area (km ²) ⁽¹⁾	Blocks	TEE Net Interest	Status
ATP 1069	Queensland	4,185	1,350	100%	Granted
EP 257	Northern Territory	7,255	96	50%	Application
EP 258	Northern Territory	1,340	19	50%	Application
EP 259	Northern Territory	2,472	39	50%	Application
EP 261	Northern Territory	3,218	61	50%	Application
EP 265	Northern Territory	16,760	200	50%	Application
EP 277	Northern Territory	17,077	198	50%	Application
EP 279	Northern Territory	17,162	194	50%	Application
EP 280	Northern Territory	9,668	121	50%	Application

(1) Approximate areas as per Northern Territory Department of Industry, Tourism and Trade

Additional Permits

Permit	Location	Gross Area (km ²)	Blocks	TEE Net Interest	Status
EP254	Northern Territory	12,650	169	50%	Application
EP312	Northern Territory	98	2	50%	Application
EP315	Northern Territory	18	2	50%	Application
EP281	Northern Territory	56	5	50%	Application
EP282	Northern Territory	61	4	50%	Application
EP283	Northern Territory	89	5	50%	Application
EP274	Northern Territory	15,180	192	50%	Application
EP256	Northern Territory	1,429	34	50%	Application
EP294	Northern Territory	221	23	50%	Application
EP275	Northern Territory	14,840	196	50%	Application
EP295	Northern Territory	100	4	50%	Application

(1) Approximate areas as per Northern Territory Department of Industry, Tourism and Trade

Additional Permits (Cont'd)

Permit	Location	Gross Area (km ²)	Blocks	TEE Net Interest	Status
EP285	Northern Territory	5	2	50%	Application
EP284	Northern Territory	122	6	50%	Application
NTC/P14	Northern Territory	77	5	50%	Application
EP276	Northern Territory	13,570	200	50%	Application
EP278	Northern Territory	15,460	198	50%	Application
EP260	Northern Territory	2,590	63	50%	Application
EP262	Northern Territory	5,539	99	50%	Application
EP314	Northern Territory	932	21	50%	Application
EP313	Northern Territory	585	11	50%	Application
EP263	Northern Territory	1,336	43	50%	Application
EP264	Northern Territory	1,916	41	50%	Application

(1) Approximate areas as per Northern Territory Department of Industry, Tourism and Trade