RENERGEN

FUTURE ENERGY, TODAY

Virginia Gas Project Reserves & Resources Update



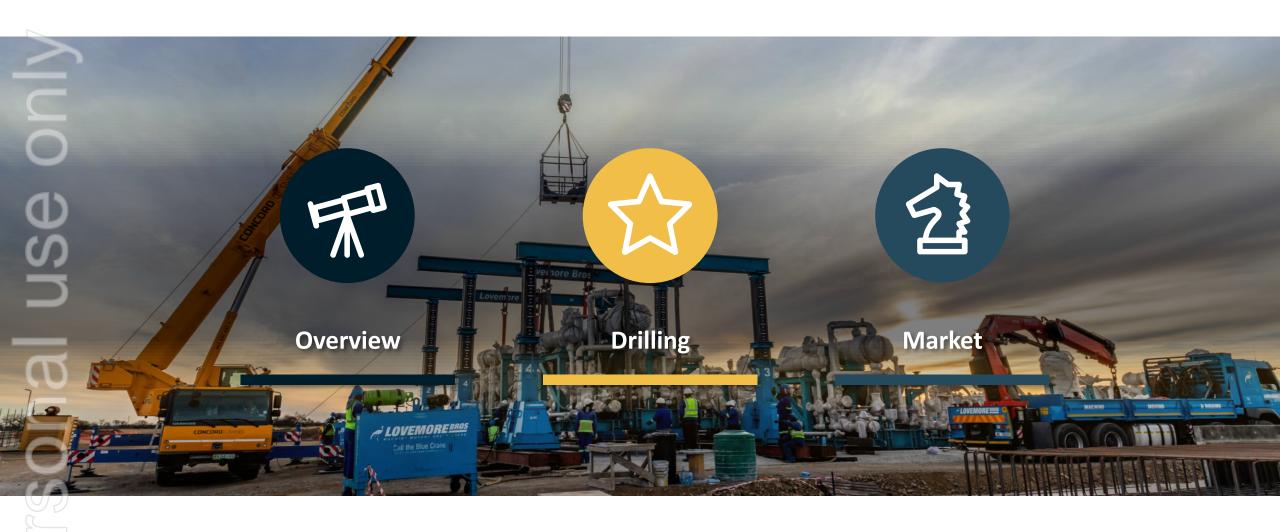
View our Video of the Update:

https://www.renergen.co.za/virginia-gas-project-reserves-

resources-update/



Agenda







Renergen

Emerging helium and domestic producer, rapidly advancing and developing flagship Virginia Gas Project, located in Free State in South Africa



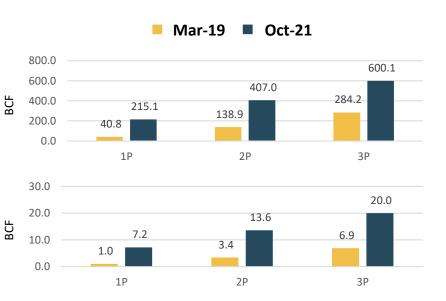




Significant Growth in Reserves Since 2019

Significant results delivered with 1P helium reserves having increased by 610% to 7.2Bcf and 1P methane reserves by 427% to 215.1Bcf

			Mar-19	Sep-21	% Change	
ne	n	Phase - 1P	40.8	215.1	427%	
eth	roven	Phase - 2P	138.9	407.0	193%	
)Š '	D	Phase - 3P	284.2	600.1	111%	
)	u	Phase - 1P	1.0	7.2	610%	
Helium	rove	Phase - 2P	3.4	13.6	298%	
I (Р	Phase - 3P	6.9	20.0	192%	



Following successful drilling campaigns in 2021, Renergen engaged Sproule to estimate the methane and helium reserves and resources at the Virginia Gas Project

In Billion Cubic Feet



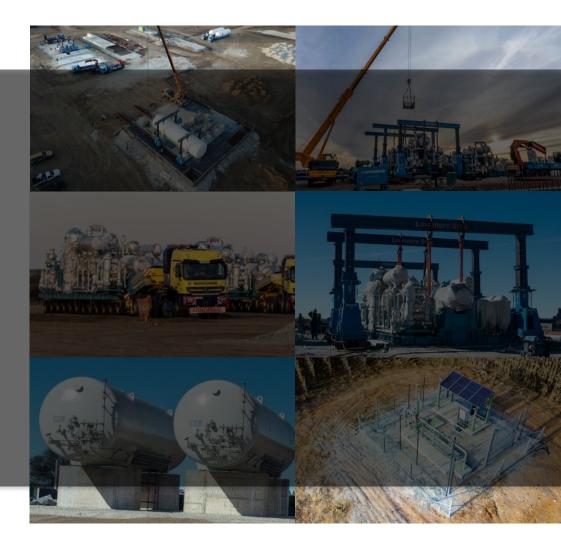


Post-Dilution Net Present Value Per Share

Additionally issued shares in millions for the South African and Australian markets

	_			
	ZAR/Share	+25m	+50m	+75m
	2P 8%	436	374	327
2	2P 10%	347	297	259
1	2P 15%	208	178	156
	1P 10%	179	153	134
	1P 15%	103	88	77

AUD/Share	+25m	+50m	+75m	
2P 8%	40	34	30	
2P 10%	32	27	24	
2P 15%	19	16	14	
1P 10%	16	14	12	
1P 15%	9	8	7	



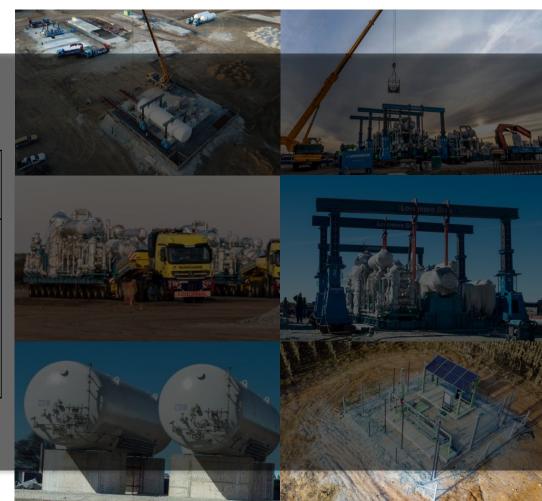




Net Present Value

Realised excellent growth in NPV from March 2019 to September 2021

5		Mar-19		Sep-21		% Change
			*		*	
)		ZAR	AUD	ZAR	AUD	
) ≧	1P @ 10%	4 541	404	26 561	2 364	485%
PEX N	1P @ 15%	2 878	256	15 225	1 355	429%
Post CAPEX NPV (Millions)	2P @ 10%	15 375	1 368	51 511	4 584	235%
J g	2P @ 15%	9 788	871	30 953	2 755	216%







But How Much Gas Is It?

2P total gas (methane plus helium) is equivalent to 65,000,000 standard cubic feet ("scf") per day for the remainder of the license tenor









How Did The Gas Get There?

The Production Right is on the rim of the Vredefort Crater, formed by an asteroid strike 1.8 billion years ago, where natural Helium is produced owing to ultra-high uranium concentrations below



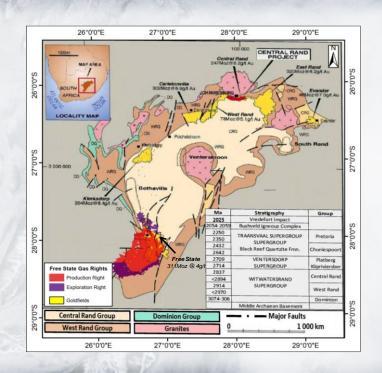
Timing of the asteroid impact and conditions after impact, resulted in a bacteria known as Archaea adapting to the specific surroundings



The bacteria evolved to use the energy from the radioactivity underground to metabolise carbon into methane, similar to chlorophyl using sunlight to metabolise CO2 into sugar and oxygen



Helium gas is also produced as a by-product of radioactive decay so that the methane and helium are found together in this deposit

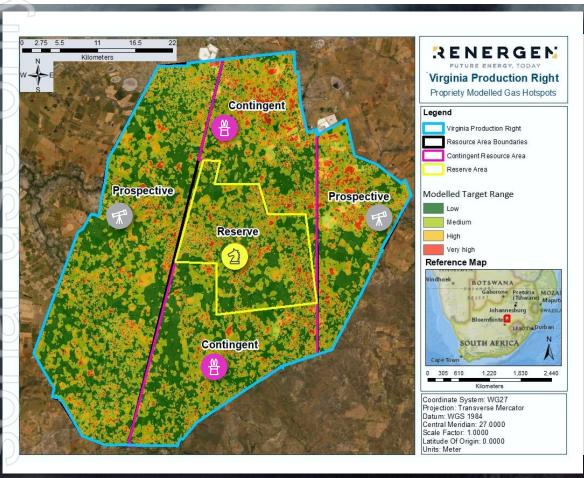


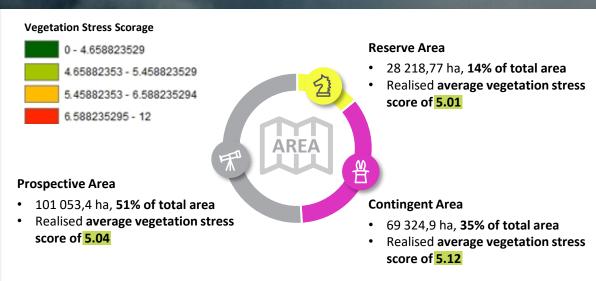




Drilling Target Modelling

The gas modelling depicts presence of high value resources in the Contingent and Prospective areas. These are areas that are yet to be explored and potentially have more resources than the Reserve area, with higher scores





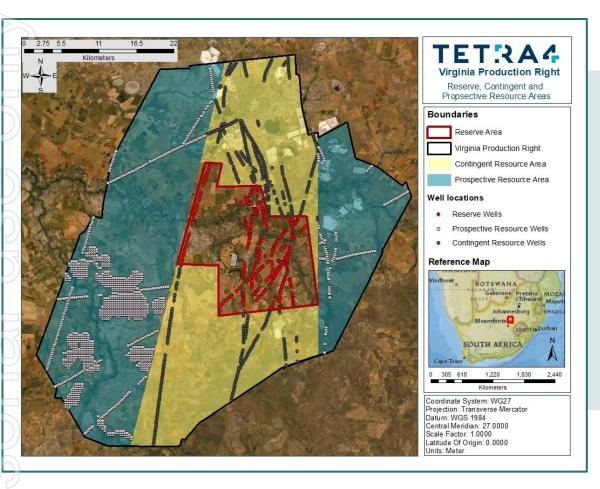
- Of the total area (198 597,09 ha), only 14% (28 218,77 ha) is allocated to Reserve. The remaining 86% (170378,3 ha) of area comprises of 35% (69 324,90 ha) allocated to Contingent and 51% (101 053,40 ha) allocated to Prospective.
- The vegetation score for **Contingent (average vegetation score = 5.12)** and Prospective (average vegetation score = 5.04) areas are higher than that of Reserve (average vegetation score = 5.01) area. The vegetation score is an indication of the potential resources available





Production Right Layout

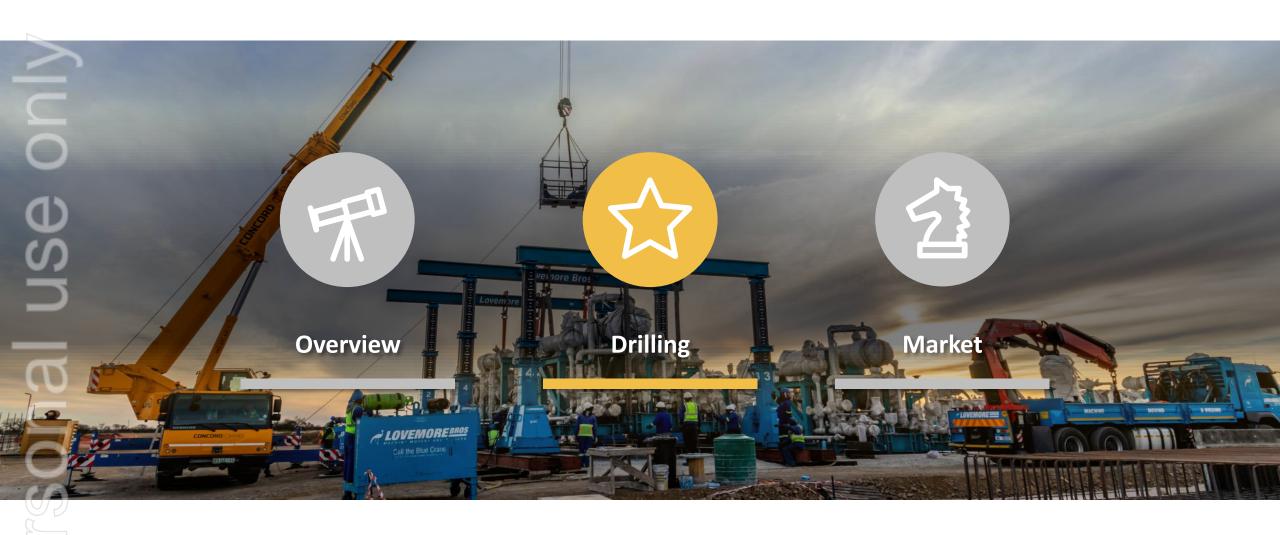
Significant upside potential exists as the Contingent and Prospective areas contained within the Production Right have yet to be adequately explored





- Proven Reserve area in the centre of Production Right is the most clearly defined by geological data
- Structures identified in the Reserve Area extend toward the outer perimeter of Production Right area

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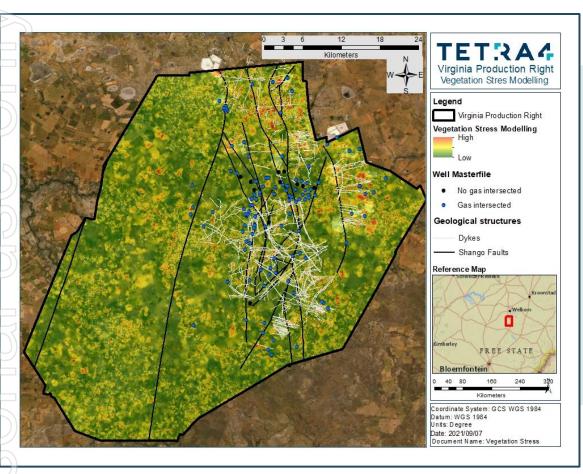






Where Do We Drill For It?

The insert shows the Production Right, with faults and fissures running north-south, and sills and dykes running west-east ("structures")



- Gas is generated at depths that exceed 5km and migrate to a depth of 300m from surface in these structures
- Gas is trapped in these structures by a dolerite cap
- Drilling into these structures creates a preferential pathway for the gas to migrate to surface
- The green in the image shows the least methane leakage and red the highest leakage to the surface



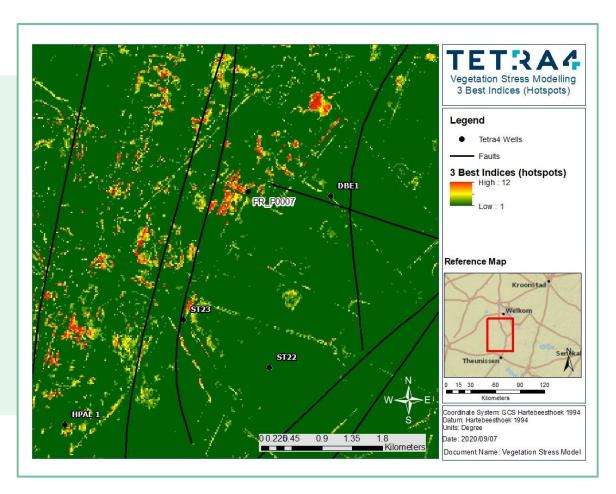




Drilling Accuracy

Renergen developed a sophisticated proprietary algorithm to pinpoint drilling locations to improve our drilling success ratio, using methane detection combined with several other biological markers

- Pictured is a close-up example of the algorithm
- The recent campaign increased drilling success to 83%, up from the previous rate of just over 50%
- ST23 (drilled in 1982) and PR007 (drilled in 2021) are amongst the 2 best blowers
- 007 was selected using the algorithm, with almost no human oversight

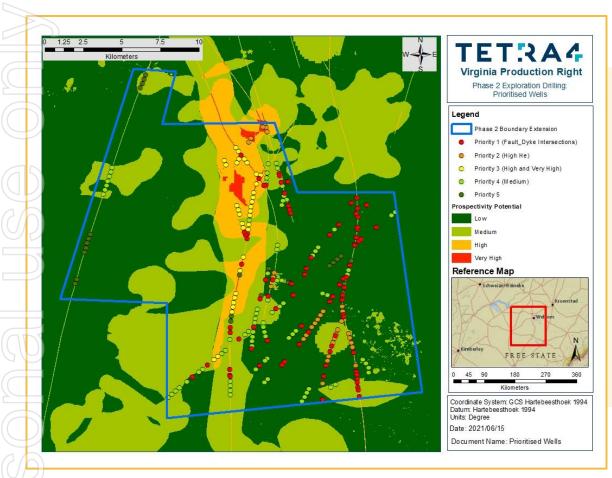






Phase 2 Drilling Plan

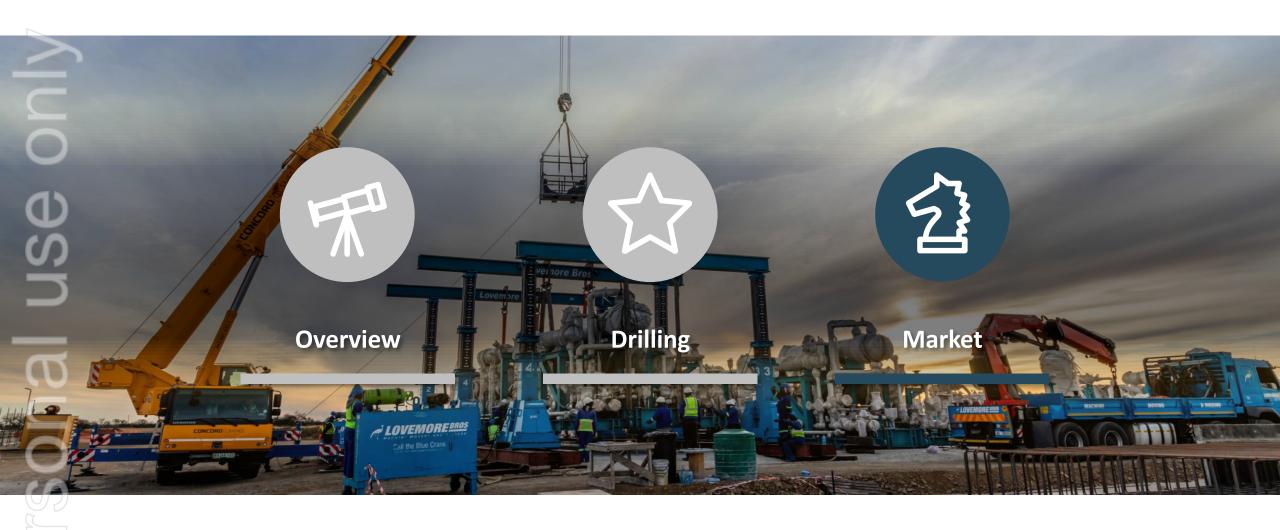
High level plan for Phase 2 drilling





- Phase 2 drilling campaign will include 297 wells drilled along the primary identified faults and dykes, covering around 300km of gas bearing structures
- There are over 1,000km of identified gas prospective structures that have been identified thus far, and only half the Production Right has been properly explored

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LNG Prices

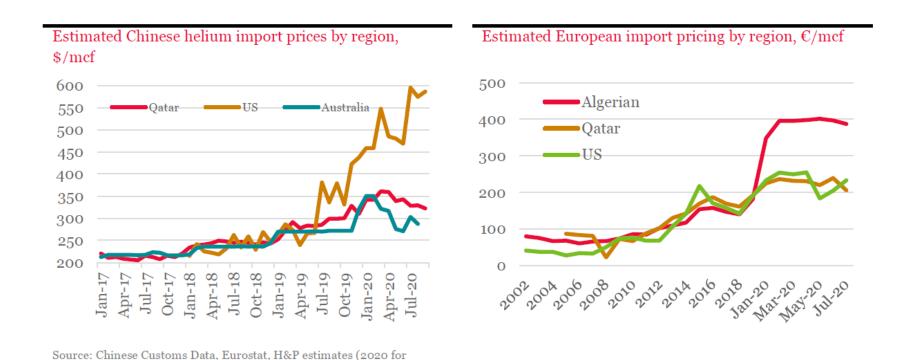
In recent months LNG prices in Asia have spiked from US\$2/GJ to over US\$34/GJ.... an increase of 1,700%





Helium Prices

Supply and demand remains constrained. It is estimated that over the short to medium term, helium supply may increase brining much needed stability to the market



However, toward the later part of this decade, there are concerns of significant supply reductions due to decreased upstream production of natural gas in favour of renewable energies

January and February is averaged as only aggregate data reported)







Continued Progress of Key Phase 2 Workstreams

A busy 12 months ahead with plant design, key exploration and development activities commencing





Design Stage

- Saipem and EPCM have completed FEED
- Reserve Update now completed



Drilling Target

- Will consist of 297 wells, drilled along the main faults and dykes throughout the Production Right
- Anticipated to build up to 44mmscf per day at full production
- Total estimated CAPEX of around US\$800mn



Construction Timeline

- Anticipated turn on date in 2024
- 65% of Phase 2 anticipated production is pre sold to clients including Linde, Meser, Helium 24 and iSi

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