

TMK ENERGY LIMITED ASX:TMK

Focused on the Responsible
Development of Mongolia's Significant
Natural Gas Resources

Brendan Stats CEO

Noosa Mining Conference November 2023

LEGALDISCLAIMER



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COMPETENT PERSON'S STATEMENT The information in this document that pertains to the estimates of Contingent Resources and Prospective Resources for the Gurvantes XXXV CSG Project have been taken from a report provided by Netherland, Sewell & Associates (NSAI) on 3 November 2022 and 16 August 2021, undertaken on behalf of the Company. The resources included in the report have been prepared using definitions and guidelines set forth in the 2018 Petroleum Resources Management System (PRMS) approved by the society of Petroleum Engineers (SPE). The resources information included in this report are based on, and fairly represents, information and supporting documentation compiled by Mr. John Hattner, an employee of NSAI. Mr Hattner is a Qualified Petroleum Reserves and Resources Evaluator (QPRRE) and is qualified in accordance with the requirements of ASX Listing Rule 5.41 and consents to the inclusion of the information in this report of the matters based on this information in the form and context in which it appears.

The Resources were independently estimated by NSAI as of 31 October 2022. The Contingent Resources are classified in three categories of IC, 2C and 3C based on the level of confidence that NSAI has with respect to the recoverability of gas from both the Upper Coal Seam package and Lower Coal Seam package that were intersected in the recent five well Snow Leopard drilling program and have been calculated by NSAI using deterministic methods.

The Prospective Resources have been determined by NSAI using probabilistic methods and are dependent on a CSG discovery being made. If a discovery is made and development is undertaken, the probability that the recoverable volumes will equal or exceed the unrisked estimated amounts is 90 percent for the low estimate, 50 percent for the best estimate, and 10 percent for the high estimate. The risked 1U, 2U, and 3U Prospective Resources have been aggregated by arithmetic summation; therefore, these totals do not include the portfolio effect that might result from statistical aggregation.

For further details on the Resource estimates presented in this report, refer to the 9 November 2022 ASX announcement. The company is not aware of any new information and that all material assumptions and technical parameters underpinning the Resources estimate continue to apply and have not materially changed.

HIGHLIGHTS:

GURVANTES XXXV NATURAL GAS PROJECT



LOCATION	South Gobi Basin, Mongolia
Tenure	PSC Exploration License
TMK Interest	100%*
Tenement size	8,400km
Development stage	Exploration and Evaluation
Infrastructure	<300km from existing gas pipeline network in northern China Chinese border <20 km from tenement
Gas Resource (CSG) gross 100%	1.2 TCF (2C) 5.3 TCF (2U)



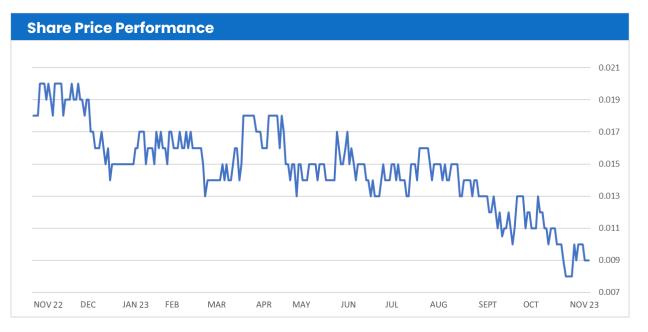
*Binding term sheet signed with Talon Energy Limited to increase TMK working interest in Gurvantes XXXV Project from 67% to 100%, subject to shareholder meetings

CORPORATE SNAPSHOT



Strongly aligned Board & Management, with significant Mongolian ownership on the TMK register

- TMK Energy (ASX:TMK) is focused on the responsible development of the Gurvantes XXXV Coal Seam Gas Project in the South Gobi Basin of Mongolia, which is the largest contingent CSG Resource in the country.
- Binding term sheet signed to bring Gurvantes XXXV Project ownership 100% within TMK allowing flexibility and optionality to advance the project to produce gas for much needed domestic market and China's increasing demand.



TMK Energy Limited				
Share Price (16 November 2023)	\$0.009			
Market Capitalisation	\$45.3m			
Shares on Issue (ASX:TMK)	5030.5m			
Listed Options (ASX:TMKOB)	262m			
Unlisted Options / Performance Rights (m)	100m / 45m			
Cash (30 September 2023)	\$5.2m			
Enterprise Value	\$40.1m			

Major Shareholders – 16 November 2023				
Shareholder	Percentages (%)			
TSETSEN ZANTAV	32.06			
GANZORIG VANCHIG	6.14			
BRENDAN STATS	5.73			
BNP PARIBAS NOMINEES PTY LTD <ib au="" noms="" retailclient=""></ib>	3.87			
DUNEDIN CAPITAL ADVISORS PTY LTD	2.95			
AVIEMORE CAPITAL PTY LTD	1.83			
NETWEALTH INVESTMENTS LIMITED <wrap SERVICES A/C></wrap 	1.63			
DELGERMAA ERKHEMBAYAR	1.59			
BOLORMAA ERKHEMBAYAR	1.59			

BOARD &

MANAGEMENT





Brendan StatsChief Executive
Officer

- Geologist with over fifteen years of experience in the Natural Resources industry.
- Bachelor of Science (BSc, Geology (hons)) from the University of Melbourne.
- On the ground living or working in Mongolia since 2011 with a particular focus and expertise on coal projects located within the South Gobi basin.



Dougal FergusonChief Commercial
Officer & Company
Secretary

- Experienced oil and gas executive with significant international experience.
- Former Managing Director of several ASX listed oil and gas exploration companies included XCD Energy Limited (ASX:XCD) and Elixir Energy Limited (ASX:EXR).
- Member of the AICD and qualified as a Corporate Secretary and CPA.



Tsetsen Zantav
Strategic Advisor to
the Board
(Mongolia Based)

- Founding Director of Telmen Resources LLC, the 100% owned subsidiary of TMK Energy Limited.
- CEO of Telmen Group since 2007, which manager responsible for several highprofile, successful developments in Mongolia, Russia and China.
- Awarded the Polar Star by order of the President of Mongolia for his contribution to the low-income housing development in Nalaikh District.



Ganzorig Vanchig Chief Operating Officer (Mongolia Based)

- General Manager of Telmen Resource LLC.
- Geologist with 12 years experience in the resources industry, working at Mongolian company Energy Resources LLC and ASX listed RPMGlobal.
- Degree in Applied Science from the Mongolian University of Science and Technology.
- Experience in project management, leading exploration projects, due diligence studies, feasibility studies and resource estimation in Mongolia, Australia, Indonesia, Russia, Laos.



Curtis Church
Operations Manger
(Mongolia Based)

- 20+ years' broad expertise within the mining industry encompassing site operations management, business development as well as investor acausitions.
- Experienced in leading international exploration and new production startups coupled with a keen eye in implementing safety systems as well as policies.
- Resourceful and flexible organizational leader, able to mentor and coach subordinates towards delivering breakthroughs.
- Demonstrated a proven track record in enhancing production efficiencies while reducing costs.



Brett LawrenceNon-Executive
Director

- 17 years of diverse experience in the oil and gas industry, having worked with Apache Energy for over 8 years performing roles in drilling engineering, reservoir engineering, project development and commercial management.
- Master of Petroleum Engineering, a
 Bachelor of Engineering (Mining) and
 Bachelor of Commerce (Finance) from
 Curtin University in Western Australia.



Non-Executive
Director

marketing across several

Gerelsaikhan

10+ years in marketing across several sectors

Gema

- Former Director of Communications / Marketing at Shangri-La Hotel, Ulaanbaatar.
- Former Chief Marketing & Business
 Development Officer of Asia Pacific
 Investment Partners (APIP) (Singapore & Hong Kong.
- Former Business Analyst at SouthGobi Resources (TSX:SGQ & HKEx: 1878).
- Founding member of various Mongolian Chambers of Commerce
- Master's and Bachelor's degree in Economics and Business Administration from Denmark



Tim WiseNon-Executive
Director

- Corporate executive experienced in the growth of early stage businesses and providing strategic advice to a broad range of companies.
- Founder and CEO of The Tap Doctor and Kalina Power (ASX:KPO).
- Currently a Non-Executive Director at Environmental Clean Technologies (ASX:ECT), entX Limited and Firesafe.



John WarburtonNon-Executive
Director

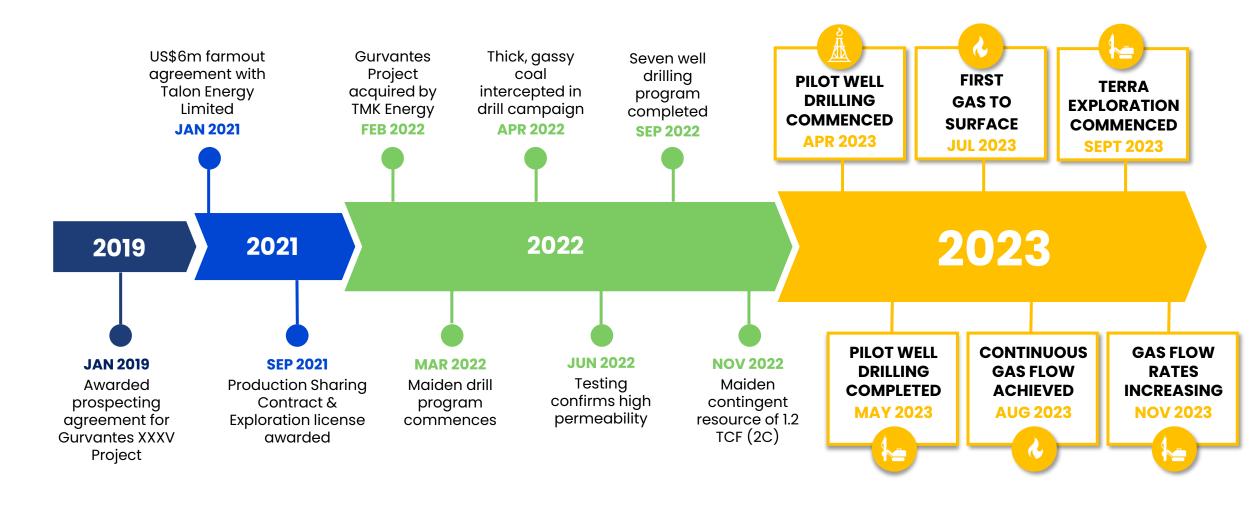
- Geoscientist with 40+ years global oil and gas experience in operated and non-operated conventional and unconventional petroleum discovery, development and business growth.
- 14 years of senior technical and leadership roles at BP, Executive General Manager for Exploration and New Business at Eni in Pakistan, and Chief of Geoscience & Exploration Excellence at Oil Search Ltd.
- Non-Executive Director of Empire Energy Group (ASX:EEG) and Director of Empire's Northern Territory subsidiary, Imperial Oil & Gas Pty Ltd and CEO from 2011 to 2014.
- Former Non-Executive Director of Senex Energy in the six years before takeover by POSCO/Hancock Prospecting.

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SIGNIFICANT MILESTONES & ACHIEVEMENTS



Project has been materially de-risked following a staged approach to exploration, drilling & commercialization



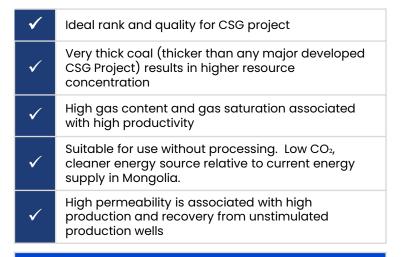
DRILLING RESULTS



All seven maiden exploration wells show significant CSG prospectivity with 100% success rate

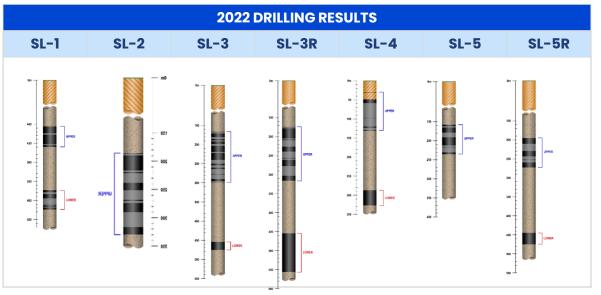
COAL RANK QUALITY			
COAL THICKNESS			
GAS CONTENT (AR)			
GAS COMPOSITION (CH4)			
PERMEABILITY			

High Quality Bituminous						
60m	91m	60m	175m	40m	40m	59m
13.2m³/t	9.3m³/t	9.8m³/t	7.5- 12.5m³/t	5-7.5m³/t	5-7.5m³/t	5-7.5m³/t
96%	97%	95%	92%	98%	97%	99%
0.lmD	47mD	20mD	_	0.13mD	-	56mD



OBJECTIVE

GEOLOGY



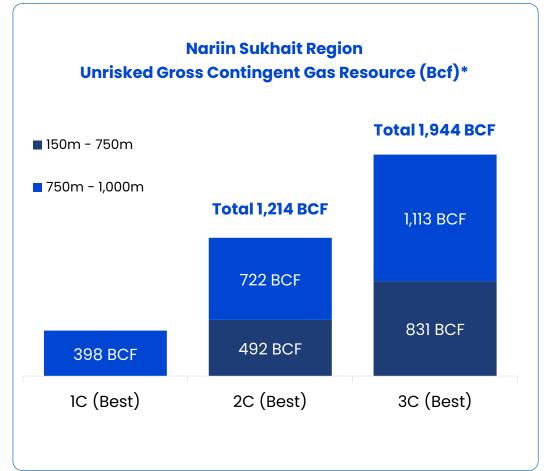
WELL LOCATIONS



MAIDEN CONTINGENT RESOURCE



Maiden Resource of 1.2 TCF (2C) is the largest Contingent Natural Gas Resource in Mongolia



Maiden resource highlights



Largest CSG Contingent Resource in Mongolia of 1.2 TCF (2C)



Resource delivered in 9 months based on 5 drill locations at cost of US\$1.5m



1.2TCF Contingent Resource from only 60km² which is less than 1% of the total Project area



Very high recoverable Resource (2C) Concentration 20bcf/km2 which suggests lower extraction costs cost and high operating margins



Total Resources 2C + 2U (risked) increased by 500BCF



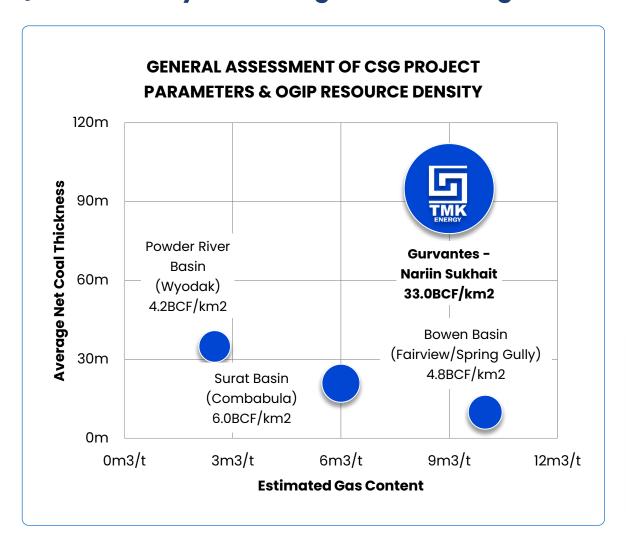
1.2 TCF (~1,280PJ) of gas at US\$10/GJ equates to US \$12.8 billion

*Cautionary Statement: The estimated quantities of petroleum that may be potentially recovered by the application of a future development project relate to undiscovered accumulations. These estimates have both an associated risk of discovery and a risk of development. Further exploration, appraisal and evaluation are required to determine the existence of a significant quantity of potentially moveable hydrocarbons. The Company confirms that it is not aware of any new information or data that materially affects the information included in the relevant market announcement and that all the material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed. Resource estimates presented here for the Gurvantes XXXV Project were initially disclosed in ASX announcement "1.2TCF Contingent Gas Resource (2C) Independently Certified" dated 9 November 2022.

COAL SEAM FIELD COMPARISON



Gurvantes XXXV represents a world class coal seam gas Project, comparing favourably to existing world-leading CSG basins



COAL QUALITY AND RANK LOW QUALITY HIGH QUALITY SUB-LIGNITE **BITUMINOUS** ANTHRACITE **BITUMINOUS** Brown coal, the Hard coal, lowest grade coal Lower grade coal containing a high heating properties containing 35-45% with the least percentage of fixed and is used in steel carbon and mainly concentration of carbon and low used for electricity carbon typically percentage of Suitable for CSG generation. Suitable used for power volatile matter for CSG generation **GURVANTES XXXV**

- Based on net coal thickness, gas content, and estimated OGIP resource density, the Gurvantes XXXV prospect compares very favourably to leading CSG fields worldwide
- The Gurvantes XXXV Project represents a potential world class discovery with technical parameters equal to or better than existing CSG fields worldwide
- The results point to relatively simple and low cost development, high operating margin
- Very few surface constraints, supportive jurisdiction for developing natural gas

2023 NEWSFLOW CATALYST



A clear pathway from exploration to pilot production at Gurvantes XXXV with several near-term milestones

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2023 PILOT WELL PROGRAM

- a) Flow gas to surface
- b) Confirm production profiles
- Demonstrate commerciality aspects of the Project

2023 EXPLORATION PROGRAM

- a) Explore significant potential outside core area
- b) Grow Contingent Resource within licence area
- c) Demonstrate scale

ACTIVITY
Major Drilling Engaged for Pilot Well Program
Pilot Well Program - Drilling
Pilot Well Program – Commissioning
Pilot Well Program – Production Testing
2023 Exploration Program
Feasibility Studies (Commercialisation)
Early Commercialisation (Local Power)
Updated Resources and Reserves Estimate
2024 Work Program

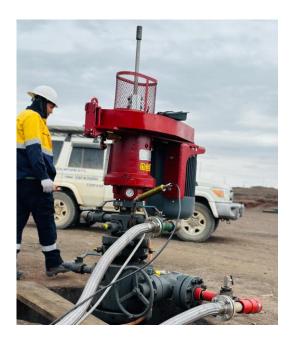
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PILOT WELL PROGRAM

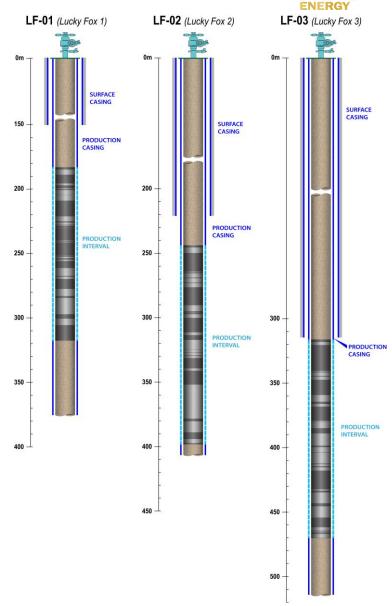
All three pilot wells drilled on time and under budget

PRODUCTION WELL
TOTAL DEPTH
NET COAL THICKNESS
DATE DRILLED
PRODUCTION INTERVAL DEPTH

LF-1	LF-2	LF-3
375m	407m	515m
61m	62m	68m
April 2023	May 2023	May 2023
184m – 314m	245m – 393m	316m – 470m







PILOT WELL PROGRAM

Performing in line with expectations

TMK ENERGY

- PWP in production for approximately 4 months.
- Performing well, in line with expectations.
- Results thus far positive and point to a successful result in a reasonable time frame.



Peak rate of ~650 bwpd (combined) – indicative of good permeability.



Critical for successful test, allows the gas to flow, takes time.



Continuously flaring and increasing gas flow rates.

Lucky Fox-1 Pilot Well Flaring



2023 EXPLORATION PROGRAM

Exploring 'Terra' Area

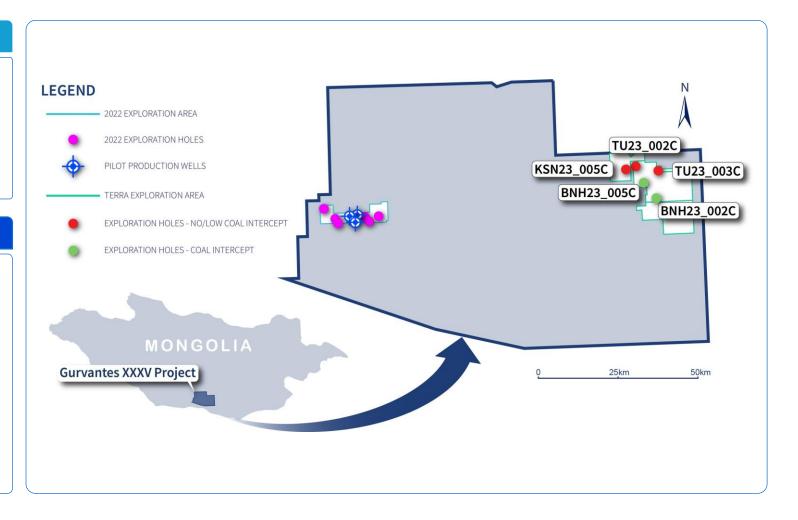


2023 Exploration Work Program

- Co-operation agreement with coal mine operator 'Terra Energy'
- 4 fully cored exploration wells, expanded to 8 wells
- 40 km 2D seismic

Results

- Drilling near completion
- Gas and permeability testing ongoing
- Encouraging results including
 - 45 metre thick gassy coal seam (BNH23_002C)
 - 56 metre thick gassy coal seam (BNH23_005C)
- Low cost exploration delivering high value outcomes



DOMESTIC SUPPLY OPPORTUNITY

TMK

Significant opportunity exists for TMK to cement themselves as a key supplier of gas and power to Mongolia



The capital of Mongolia, Ulaanbaatar, is heavily polluted and in 2022, Mongolia had an average Particle Matter (PM) of 2.5 concentration - 5.9 times the WHO annual air quality guideline value



Over the past 30 years Mongolia has transformed into a vibrant democracy, tripling its GDP per capita since 1991.*



Significant push to decarbonise Mongolia's energy sector, with political desire to seeking greener forms of energy generation



Mongolia currently has no gas production resulting in significant issues around energy security and reliability



Strong political desire to develop natural gas industry to reduce pollution and address energy security, reliability, and independence



Mongolia currently imports all gas products leaving significant growth potential for local production



Mining accounts for 40% of Mongolia's energy consumption

South Gobi province energy infrastructure **SOUTH GOBI MONGOLIA** DALANZARGAD **Electricity Substation CHINA (Gurvantes XXXV Existing Power Infrastructure Proposed Power Infrastructure**

^{*} https://www.worldbank.org/en/country/mongolia/overview

CHINA SUPPLY OPPORTUNITY



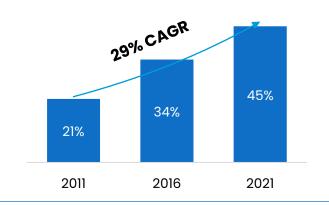
China is the largest energy user globally with significant gas infrastructure in close proximity to Gurvantes XXXV



Chinese Energy Market

Chinese 2020 gas demand estimated to double by 2040*
Forecast Chinese consumption 2040 between 497bcm and 655bcm**.
Supply deficit of between 56bcm and 214bcm to be filled by LNG imports an additional pipeline volumes (Mongolia?)

DOMESTIC CONSUMPTION OF IMPORTED GAS





Neighbouring Oil & Gas Infrastructure

Gurvantes XXXV is less than 20km from Chinese boarder and close to existing gas infrastructure in northern China



Mongolian gas has a significant cost advantage over current suppliers to China due to low production and delivery costs



Developing Relationships in China

Discussions continuing with leading energy offtake partners in both China and Mongolia with the aim of expediting project development



TMK's Board and Management developing strategic relationships with key operators in the downstream energy market in Mongolia and China

*Shell's LNG Outlook 2020

**International Energy Agency's (IEA) 2019 World Energy Outlook

OPERATING IN MONGOLIA

A proven & growing mining jurisdiction with under-explored terrains



Jurisdiction overview



Strong Mining Jurisdiction

Mining sector leading 90% of exports and the country's largest employer



Stable Political Environment

Democratic government that is supportive of foreign investment, haven taken key steps to improve infrastructure, building new roads, power plants, and railways, to facilitate the development of the mining sector



New Revival Policy

Mongolia's Post Pandemic policy seeks to be:

- Investor friendly
- · Open borders for trade & travel
- Increase rail infrastructure
- · Grow as a technology hub



China's Strategy

Mongolia is critical to China's Belt & Road Initiative, connecting Asia with Africa and Europe, improving regional integration, increasing trade and stimulating economic growth



Low Labour Costs

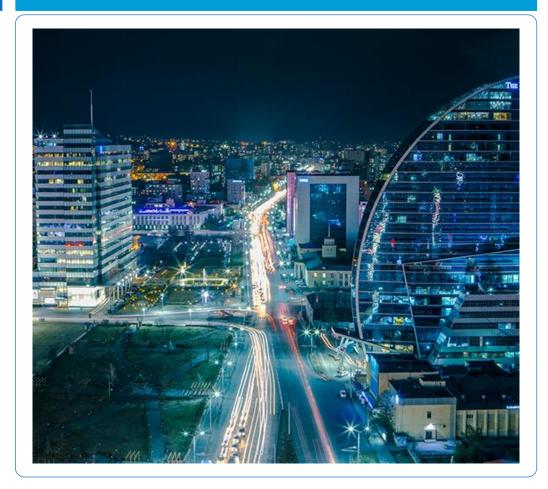
Mongolia has a relatively low labour cost compared to other countries, making it an attractive destination for mining companies looking to reduce costs



Stable Economic Profile

Strong economic growth is forecast to accelerate to above 6% in 2023-2024

Ulaanbaatar



GURVANTES OWNERSHIP CONSOLIDATION





Full Optionality



Full optionality to advance the asset to the benefit of the combined shareholders

Value Accretive



Cost synergies by simplifying ownership and streamlining management of the Project.

Cost Synergies



Highly value accretive for TMK shareholders with a further 33% ownership of the Project for ~lower relative up-front dilution

Key Terms*

TMK Energy Receives

- Talons Energy 33% Interest in Gurvantes XXXV Project
- ~A\$850k cash

Talon Energy Receives

- 1.1 billion TMK shares
- 550 million options (TMKOB)
- Consideration in-specie distributed to TPD shareholders

INVESTMENTHIGHLIGHTS





Largest Contingent CSG Resource in Mongolia of 1,214 BCF (2C) with 100% success rate on maiden drilling campaign comprising seven exploration wells



Clear pathway to commercialisation with farm-in partner secured, de-risking funding through key value add stages



Strategically located in close proximity to Chinese energy market & infrastructure



Discussions continuing with leading energy offtake partners in both China and Mongolia with the aim of expediting project development



Exploration significantly de-risked with acquisition of 2,500 drillhole dataset covering a significant area of license area



Management has significant experience in Coal and CSG in Mongolia and abroad, with Mongolian based operations and shareholders driving onground management & state based relationships



Gas supply is forecast to increase in Asia with core demand coming from China



Key newsflow catalysts from project development milestones in 2023



Initial data highlights a world class resource with superior coal thickness, gas content and permeability in comparison to developed projects worldwide



TMK delivering on work program and project milestones

