

DEVELOPING BATTERY GRADE MANGANESE FOR THE EV MARKET

BUILDING A GLOBAL BATTERY METALS PLAYER

JUNE 2022

giyanimetals.com

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Qualified Persons

The scientific, technical, and economic information contained in this presentation relating to the K.Hill Manganese Project are based upon a technical report prepared by Mr. Michael John Beare BEng, CEng, MIOM3 and Mr. Peter Gleeson MSc, CEng., MIOM3,, AIGS both of SRK Consulting entitled "Kgwakgwe Hill Manganese Project Independent Technical Report" having an effective date of March 2022 (the "NI-43-101 Technical Report"). The NI-43-101 Technical Report was filed on SEDAR at www.sedar.com on March 30, 2022. Mr. Beare and Mr. Gleeson are "Qualified Persons" under NI 43-101 and have each consented to the inclusion in this presentation of such scientific, technical, and economic information. Mr. Beare and Mr. Gleeson are "independent" within the meaning of NI 43-101.

Giyani's disclosure of mineral resource information is governed by NI 43-101 under the guidelines set out in the Canadian Institute of Mining, Metallurgy and Petroleum (the "CIM") Standards on Mineral Resources and Mineral Reserves, adopted by the CIM Council, as may be amended from time to time by the CIM ("CIM Standards"). There can be no assurance that those portions of mineral resources that are not mineral reserves will ultimately be converted into mineral reserves.

AN AFRICAN BATTERY-GRADE MANGANESE OPPORTUNITY SERVING THE GLOBAL EV MARKET

A premium, sustainable supply of battery materials

Developing the K.Hill high-purity manganese sulphate monohydrate (HPMSM) project in Botswana

HPMSM is a critical component in lithium-ion battery cathodes

90% of HPMSM supply currently comes from China – only one producer ex-China manufacturing HPMSM from ore

Global battery demand is forecast to grow 1,400% by 2030 and HPMSM content per battery is forecast to rise 85%

Tier One mining jurisdiction

Botswana is the longest serving democracy in Africa

Ranked the most attractive mining jurisdiction in Africa (Fraser Institute, 2020)

Well-established mining industry with investor friendly frameworks for exploration, development and operations

Strong fiscal advantages, including 3% royalty and deduction of 100% of the mining capex

Strong project fundamentals

April 2021 PEA 80% IRR and CAD442M post tax NPV10 with startup capex of CAD159M

Feasibility study to be completed in Q3 2022

Experienced management and board with a track record of successful project delivery

Dispatch of first product from demonstration plant scheduled in 2023

ESG at the core of project development

Environmental impact at the centre of project design with renewable energy integration, electric mining fleet and dry stack tailings

Strong relationship with local community and government of Botswana

Member of the Critical Minerals Association and European Battery Alliance

STRONG LEADERSHIP WITH PROJECT DEVELOPMENT EXPERIENCE

Senior Management



Michael Jones Non-executive Director

Mine Development Experience



Project Finance Expertise



Project Engineering Experience



WE ARE COMMITTED TO SUSTAINABILITY

- Giyani is committed to conducting its business in a manner that is ethical, sustainable and beneficial to all stakeholders
- Giyani's goal is to be a low carbon company, with initiatives including:
 - Renewable energy integration (solar power) into power mix
 - Electrification of mining and transport fleet
- Aligned to the Equator Principles for sustainable development and is a member of the Critical Minerals Association and European Battery Alliance
- The Board has oversight and accountability for governance and maintaining ethical culture





Support for Botswana Council for Disabled (December 2021)

EV BATTERY METALS SUPPLY CHAIN

RAW MATERIALS

Mineral ores are mined and processed into battery-grade salts e.g. HPMSM, lithium hydroxide

PROCESSED BATTERY MATERIALS

These metal salts are combined into precursor materials

These materials are processed into battery components e.g. cathodes

BATTERY PACKS

Cathodes, anodes and other components combined into battery cell

Cells assembled into battery packs by battery companies

EVS

Completed battery packs inserted into of EV by car manufacturer in the assembly process



- 1. HPMSM from the demonstration plant are sent to battery or cathode active material manufacturers for quality testing
- 2. Battery companies will test product in cathode and then cell
- 3. OEMs will test cell performance and undertake sustainability checks on supply chain





OPPORTUNITY TO FEED A GROWING BATTERY MARKET

- Our sustainable HPMSM product will be sold to a wide range of consumers who seek traceable, responsible supply of critical raw materials
- Giyani have open dialogue with many of the leading CAM, cathode and cell producers, and OEMS



Why does HPMSM matter

MANGANESE IS A CRITICAL BATTERY METAL AND CHINA DOMINATES GLOBAL PROCESSING

- Whilst manganese is one for the most traded commodities globally, only 0.5% of its total supply is suitable for the battery market
- Manganese, in the form of HPMSM, is a key material used in most EV battery cathodes and stabilises the nickel content at a fraction of the cost of cobalt .
- Currently only **one** company produces HPMSM outside of China and K.Hill will be only second project ex-China to produce HPMSM directly from ore
- Non-Chinese sources of HPMSM are likely to be prioritized by end-users to mitigate supply chain risk



FUTURE POINTS TO MANGANESE-RICH BATTERIES

- Manganese is expected to be a key commodity is reducing the per unit cost of EV batteries as producers look to reduce high cost materials such as Cobalt
- As such, the highest growth battery cathode segment = NMC (nickel + manganese + cobalt)
- Price and sustainability are driving end-users towards manganese-rich formulations e.g. NMC-370 (BASF); NMx (SVolt)



Growth of Battery Capacity and Manganese Content

"I think there's an interesting potential for manganese" Elon Musk (Tesla), March 2022

"High-manganese cathodes are considered one of the strongest candidates for the next generation of lithium-ion batteries because of their cost advantage, cobalt-free nature, and strong electrochemical performance," Roskill, March 2022.

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A SIGNIFICANT HPMSM SUPPLY DEFICIT IS APPROACHING

HPMSM Global Supply & Demand to 2035 (incl new projects)



- As global battery demand is forecast to grow 1,400% by 2030, manganese content per battery is forecast to rise 85%
- Demand is significantly outstripping supply, inclusive of projects in development.
- Once in production, Giyani will produce c.20% of global demand to provide a traceable, responsible supply of HPMSM to the global market

Our Assets

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CLEAR ESG COMMITMENTS TO DEVELOP A RESPONSIBLE OPERATION

Environmental sustainability

Developing rehabilitation and closure plans from the outset to address key legacy issues

Incorporating trade-off studies to reduce the impact across our operation, including tailing management and carbon footprint

Implementing energy saving initiatives

Optimisation of water usage and managing water quality

Low negative impact operation aim at mitigating environmental risk



Social inclusion and development

Employment policies to prioritise to local people once the project is commissioned

Support the further education and training of our employees

Installing international standard health and safety programmes striving to strive to achieve zero harm.

The respect of cultural norms of the local communities and host countries in which the Company operates



Economic development of local regions

Implementation of community development plans to facilitate socio-economic development and upliftment

Adopting a local procurement policies

Potential for long-term operation with strong socio-economic impact

Generation of jobs for local and national workforce

ATTRACTIVE ASSET BASE IN PIVOTAL LOCATION



Projects

- Three previously producing battery-grade manganese oxide prospects
 - K.Hill: historic mine outside small town of Kanye •
 - Otse: 2km from A1 highway and 50 km from K.Hill •
 - Lobatse: 1 km from the RSA border and 50 km from K.Hill •
- Ore from all three deposits could feed a central production facility

Supportive existing Infrastructure

- Proximate to major population centres with reliable power, water and medical facilities.
- Excellent rail and road connections to five seaports in three countries shipping to Asia, EU and US







A1 highway to Otse

K.HILL OPERATION

- PEA demonstrated an eight year mine life, producing 891,000 tonnes of HPMSM with significant upside.
- Operation hold significant opportunity to increase the size of the mine with the initial 1.7Mt Resource already increased to 2.1mt with a further 3.1Mt of indicated Resources
- Shallow traditional truck and shovel open pit
- Straight-forward onsite processing.
- Plant is designed to act as a central processing hub for our surrounding nearby project
- Metallurgical test work showed HPMSM with less than 1% total impurity and manganese content of more than 31.5% has been achieved
- Feasibility study underway and expected Q3 2022



LOW IMPACT MINING

Easy mining

- Friable, low impurity ore amenable to free dig mining
- Low profile open pit reduces impact on local environment

Low carbon

- MnO ore requires no calcining so hydromet process direct from ore to HPMSM
- LCCA results in Q3 2022

Renewable energy integration

- Studies undertaken for integration of up to 4.5MWdc of solar power a K.Hill
- Potential option to transition to an independent power producer

Dry stack tailings

- Safe storage of non-toxic waste products
- De-risk waste management



DE-RISKING PRODUCTION THROUGH DEMONSTRATION PLANT



Demonstration Plant



- Demonstration Plant will replicate the proposed hydrometallurgical process
- Design for up to 600 kg/d HPMSM for shipment to buyers for testing and qualification
- Construction during 2022 and product shipments expected in 2023

GROWTH THROUGH SUCCESSFUL EXPLORATION AT K.HILL

Classification (Feb 2022)	Tonnage Mt)	Grade MnO (%)	Contained MnO (kt)
Indicated Mineral Resources	2.1	19.3	410
Inferred Mineral Resources	3.1	16.9	530

• Further exploration results expected through +4,000m infill drilling completed during 2022

• Plan to grow LOM beyond 20 years at current project operating parameters





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K.Hill Manganese Project Independent Technical Report. SRK, March 2022

FURTHER PORTFOLIO POTENTIAL



OTSE

- High-grade supergene podiform manganese oxide mineralisation
- Initial drilling results at Otse have indicated a high grade podiform orebody with intersections >50% MnO
- Historic activity with licenses including two small-scale historically mined pits which are 2km apart and highlight mineralisation on surface
- Initial exploration completed in 2021 and maiden resources expected in Q4 2022

LOBATSE

- Manganese oxide mineralisation hosted in a siliceous shale, which is similar mineralisation style to K.Hill
- Outcropping at surface and dipping at ~30 degrees towards the east
- Strike length ~2km
- · Historical artisanal mining in the area
- Work to date consists of 3 diamond core exploration drill holes and underground surveying

The Opportunity

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UPSIDE DRIVEN BY GROWTH CATALYSTS

Completed

K.Hill PEA completed

Completed initial metallurgical test work and finalised initial process flowsheet

New K.Hill MRE of 2.1Mt in Indicated Category and 3.1Mt in Inferred

Purchase of long-lead items for Demonstration Plant

Completed K.Hill Solar Plant Study

Completion of initial exploration drilling campaign at Otse

Near-term catalysts

Completion of K.Hill Feasibility Study (Q3 2022)

Signing of Demonstration Plant construction contract

Construction of Demonstration Plant

Product testing by battery and CAM producers

K.Hill resource upgrade

Maiden resource statement for Otse

Submission of ESIA and Mining Licence application

Medium-term catalysts

Mobilisation of Demo Plant to Botswana

Signing of offtake agreements

Construction and development of K.Hill and processing facility

Commercial production

STANDOUT OPPORTUNITY IN ITS PEER GROUP



giyanimetals.com Notes: Market data as at June 7, 2022; project data based on public company disclosure * E25 currently producing Mn concentrate but planning HPMSM project in Indonesia

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STRONG SHARE STRUCTURE AND DEBT-FREE



	DATE	PRIVATE PLACEMENT		TOTAL	EXERCISE PRICE	EXPIRY
1	03 Dec 2021	C\$ 11.5M at 44.0¢/share	Options*	11,987,500	C\$ 0.15 - C\$ 0.53	28/11/2022-01/04/2027
			Warrants*	43,979,844	C\$ 0.10 - C\$ 1.00	23/06/2022 - 03/12/2023
			RSUs*	94,340	-	21/04/2023

* As at June 5 2022

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OUR STRATEGY

Develop a market leading HPMSM product

Low carbon, selenium free critical raw material for electric vehicle market

Premier, mining friendly jurisdiction with strong standards of governance

Demonstration Plant to produce HPMSM product for early market testing

Continually build resource base to feed growing demand

Demonstrated exploration pedigree

Growth from 1.7Mt Inferred to 2.1Mt Indicated and 3.1Mt Inferred Resources

Significant upside remaining with Otse and Lobatse prospects

Potential for globally significant production position

Deliver a responsible, sustainable supply of HPMSM

Strong ESG principles ensure responsible, traceable production of critical metal to global mass market EV story

Low impact operation and integrate local and regional programmes

Create a long-lasting positive legacy for Botswana

CONTACT US



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INTERNATIONAL MINE-BUILDING EXPERIENCE

GIYANI METALS BOARD OF DIRECTORS

JONATHAN HENRY B.A.(HONS) NON-EXECUTIVE CHAIR	RY JOHN PETERSEN STEPHANIE HART J.D, B.S. CPA, CA HAIR NON-EXECUTIVE NON-EXECUTIVE DIRECTOR DIRECTOR		MICHAEL JONES C.ENG. NON-EXECUTIVE DIRECTOR		ROBIN BIRCHALL MBA, M.SC. CEO			
25 years of experience in mining company leadership and management	40 years of experience in sustainability and energy is a global thought leader and sustainability issues	law, storage and on energy	20 years senior level experience with broad financial, risk, operational and capital project roles in global mining		30 years of experience in mine management, corporate finance and corporate development		20 years of experience in investment banking, senior management and development of resource companies	
MENZI BATTERY (PTY) LIMITED DIREC	TORS						
THUSO DIKGAKA B.ENG. NON-EXECUTIVE CHAIR	KNEIPE SETLH BSC. NON-EXECUT DIRECTOF	IARE TIVE R	MAUREEN MOKGAOTSANE M.ENG. NON-EXECUTIVE DIRECTOR		MICHAEL JONES NON-EXECUTIVE DIRECTOR		ROBIN BIRCHALL EXECUTIVE DIRECTOR	
Over 40 years of experience in operations, management and government within Botswana	13 Years of operations ex base metals and diamond within Botswana	perience in I drilling	Over 20 years of exploration, mana government within	experience in Igement and In Botswana				
GIYANI METALS SENI	OR MANAGEMEN	т						
DERK HARTMAN PRESIDENT & COO	EUGENE LEE CFO	GEORG VP BL DEVEL	E DONNE JSINESS .OPMENT	MARION THON VP ESG	MAS D Di C	DIRK GEERLIGS VP PROJECT EVELOPMENT & CONSTRUCTION	JACQUES DU TOI VP TECHNICAL SERVICES	
20 years of experience in Ov investment banking, senior mir management, project fina delivery and development of ma	er 20 years of experience in ne finance, capital markets, ancial reporting, risk nagement, internal controls	20 years of in natural resour experience in management	ternational ces sector senior and investment	national Over 35 years of experi s sector in environmental and so inior of large-scale, complex d investment projects across Africa including Botswana		s' experience in ction and project delivery ng and industrial projects	20 years' experience in mining project developmen worldwide. Previously with BHP and consultant on the	



SIGNIFICANT PROGRESS TO DEVELOPMENT



K.HILL PROJECT PEA (APRIL 2021)



Head Grade (LHS) vs Cash Costs (RHS)

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- K.Hill is the highest valued project in its peer group on an NPV/t Mn resources basis but • Giyani trades at the lowest P/NAV
- April 2021 PEA highlights •
 - After tax NPV¹⁰ of **USD332M** and IRR of **80%**
 - Start-up capex of USD118M
 - Three year payback
 - 58 125kt per annum of HPMSM (or equivalent)
- PEA based on K.Hill Main horizon ONLY as at April 2021; does not include production • from K.Hill B Horizon, K.Hill Extension, Otse or Lobatse

Value Upside

- Significant resource upside from K.Hill B Horizon, K.Hill Extension, Otse and Lobatse
- Reducing power costs through phased solar integration
- Increased plant throughput to match increased resources
- Rising HPMSM prices on higher EV and battery demand
- Value premium for ex-China, low carbon HPMSM production ٠

K.Hill Manganese Project Independent Technical Report. SRK, April 2021

USD:CAD 1.33 average over past 12 months 2.





BUILDING STRONG STAKEHOLDER RELATIONS



Elisa Davis and Thuso Dikgaka with His Excellency President Mokgweetsi Masisi and Minister of Minerals and Energy