CAD-TSXV: HMR **USA-OTC: HMRFF** GDR-WKN: 5ZE / A3CYRW



**CORPORATE PRESENTATION AUGUST 2023** 

### **HPQ SILICA SOLUTIONS PROCESSING TO MANUFACTURING**

WWW.HOMERUNRESOURCES.COM

## **DISCLAIMER AND FORWARD LOOKING STATEMENTS** FORWARD STATEMENTS INCLUDE

This presentation has been prepared for Homerun Resources Corporation (HMR).

This document contains background information about the resource projects which are current at the date of this presentation. The presentation is in summary form and does not purport to be all inclusive or complete. Recipients should conduct their own investigations and perform their own analysis to satisfy themselves as to the accuracy and completeness of the information, statements and opinions contained in this presentation.

This presentation is for information purposes only. Neither this presentation nor the information contained in it constitutes an offer, invitation, solicitation, or recommendation in relation to the purchase or sales of shares in any jurisdiction.

This presentation does not constitute investment advice and has been prepared without taking into account the recipient's investment objectives, financial circumstances or particular needs and the opinions and recommendations in this presentation are not intended to represent recommendations of particular investments to particular persons. Recipients should seek professional advice when deciding if an investment is appropriate. All securities involve risks which include (among others) the risk of adverse or unanticipated market, financial or political developments.

To the fullest extent permitted by law, HMR, its officers, employees, agents and advisors do not make any representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of any information, statements, opinions, estimates, forecasts or other representations contained in this presentation. No responsibility for any errors or omissions from this presentation arising out of negligence or otherwise is accepted.

This presentation may include forward-looking statements. Forward-looking statements are only predictions and are subject to risks, uncertainties and assumptions which are outside the control of HMR. Actual values, results or events may be materially different to those expressed or implied in this presentation. Given these uncertainties, recipients are cautioned not to place reliance on forward looking statements. Any forward-looking statements in this presentation speak only at the date of issue of this presentation.

Subject to any continuing obligations under applicable law, HMR has not undertaken any obligation to update or revise any information or any of the forward-looking statements in this presentation or any changes in events, conditions, or circumstances on which any such forward looking statement is based.

# **OUR VISION & MISSION**

#### VISION

Our vision is to be a leading materials company in the high-purity (HPQ) silica energy and industrial verticals.

### MISSION

Our mission is to provide our customers with the highest quality materials, using sustainable and responsible practices, and to continuously improve our offerings through innovation based on customer feedback, while fostering a culture of safety, teamwork, and social and environmental respect.



# COMPANY ROADMAP

#### Phase 1 – HPQ Silica Supply

Q1 2023

Homerun recently announced that the Company has successfully secured a substantial supply of HPQ Silica in Brazil. This exceptional resource can be efficiently processed to serve the premium end-markets for HPQ Silica. The strategic imperative under Phase One, was to secure a steady and reliable source of HPQ Silica against a backdrop of increasing global demand in sustainable industrial and green energy applications. The Company is now positioned in a massive critical minerals market and will benefit from the increasing demand for both HPQ Silica and the products and solutions produced from HPQ Silica.

#### **Phase 3 – Revenue and Vertical Integration**

Homerun is driving toward revenue. Initial revenues will be tied to the delivery of sand in its natural form while we develop the infrastructure and logistics required to service the balance of those organizations requiring processed HPQ Silica. At the same time, we are executing research and development plans to secure competitive advantage either directly or via partnership in HPQ Silica verticals serving the Energy Transition. Announcements in this area will be forthcoming over the balance of 2023 and beyond.

> Q4 2023

Q3-4 2023

#### **Phase 2 – Infrastructure and Logistics**

HPQ Silica can be sold in its natural form, but to access many end-uses the raw sand is processed (washed, sized and upgraded) prior to its use in most industries. Under Phase Two of the Company's Strategic Plan, Homerun, has been focused on integrating infrastructure and logistics for the mining, transportation, storage and processing of its HPQ Silica. Announcements in this area will be forthcoming over the balance of the 3rd and 4th guarters of 2023.



#### **OUR GOAL**

- We will be a top supplier of silica and manufactured silica products in the Energy Transition Verticals.
- We will create jobs and support the local people of Brazil, The Brazilian Government, and solidify their mark as a world leader in the Energy Transition.

# **HIGH-PURITY SILICA SAND SHORTAGE**

"Our entire society is built on sand. Sand is the primary substance used in the construction of roads, bridges, highspeed trains and even land regeneration projects. Sand, gravel and rock crushed together are melted down to make the glass used in every window, computer screen and smart phone. Even the production of silicon chips uses sand."

"Yet, the world is facing a shortage..." CNBC - 2021

# HPQ SILICA MARKETS







• TILES

- BATHTUBS
- SANITARY WARE
- SINKS



- SILICA-BASED CHEMICALS SILICON CARBIDE
- SODIUM SILICATES



- POOL FILTRATION
- PET LITTER
- ACCIDENTS AND SPILLS
- COMMERCIAL FILTRATION



#### **MISC / OTHER**

- GOLF AND VOLLEYBALL SANDS 
  FORENSIC TESTING
- CUSTOM TURF BLENDS
- FILTERS

# **High-Purity Silica** is Critical for the World's ENERGY Transition

Global supplies of silica sand are being exhausted much faster than they are being discovered, and if shoring up the supply of the world's second-most used commodity after water is not already front of mind for investors, governments, and regulators around the world, it will be.







Silica sand is a primary component of glass, providing the structural integrity and transparency that make it ideal for use in windows, mirrors, and other glass products. The global solar power market size was valued at USD 167.83 billion in 2021. The market is projected to grow from USD 234.86 billion in 2022 to USD 373.84 billion by 2029, exhibiting a CAGR of 6.9% during the forecast period.



The global silica sand market size alone stood at a value of USD 21.6 billion in 2022. The market is further expected to grow at a CAGR of 5.8% in the forecast period of 2023-2028, reaching a value of USD 30.29 billion by 2028.







### High-Purity Silica for Solar Glass and Silicon in Solar Cells & Batteries

Silica sand is a key component in the production of solar panels. Specifically, HPQ silica sand is used to make the solar glass and is the raw material for silicon wafers that are the primary component of solar cells. The silica sand is purified and then melted at high temperatures to form ingots, which are then sliced into thin wafers. These wafers are then processed and assembled into solar cells, which are combined into modules with solar glass to create a solar panel.

# Because solar panels require high purity silicon, *the demand for HPQ silica sand has increased significantly in recent years as the global demand for solar energy has grown.*

HPQ silica sand is used in multiple capacities in the production of lithium-ion batteries, which are commonly used in portable electronic devices, electric vehicles, and energy storage systems. Specifically, silica is used as a coating material for the electrodes in the battery. The silica coating helps improve the stability and performance of the battery, leading to increased efficiency and longer lifespan. In addition to the electrode coating, silica is also used as a separator material in lithiumion batteries. Silica to silicon is now being utilized in hybrid and pure silicon anodes.

As the demand for electric vehicles and renewable energy storage systems continues to grow, so does the demand for high quality silica sand for use in lithium-ion batteries. Therefore, *silica sand is becoming an increasingly important resource in the transition to a more sustainable energy future.* 

# Silica Sand & Energy Storage

High purity silica sands play a crucial role in advancing the field of energy storage, offering significant importance and benefits. Homerun will work to be part of the solution to support renewable integration for future carbonfree energy supply. "Sand and concrete silos with refractory insulation are very inexpensive materials that can lead to low-cost energy storage. Traditional four-hour storage technologies don't scale well to the grid or city scale. Now that we are in need of large-scale energy storage, this technology makes a lot of sense." - Patrick Davenport, NREL Researcher

# "We Are In a Global Energy Crisis"



Silica, with its exceptional chemical and physical properties, serves as a key component in various energy storage systems. Its high surface area and porous structure enable efficient electrolyte penetration and enhanced ion conductivity, leading to improved battery performance and increased energy storage capacity.



#### CARBON FREE ENERGY SUPPLY





# Our Target Markets







# Our Answer To The Global Silica Shortage

Homerun has entered into an interim supply agreement with a Brazilian company for raw HPQ silica sand from its resources in the Bahia Silica Sand District in the Bahia State of Brazil. Homerun is working to finalize lease or ownership relationships with the two Brazilian companies that share ownership of the large HPQ silica resources in the District. The supply agreement is backed by a fully permitted operation with an annual allowance of up to 2.5M tonnes and an Indicated Resource of **94,894,847 tonnes** with an average grade of **99.88% SiO2**, 48ppm Fe, 160ppm Ti, and 102ppm Ca and a Measured Resource of 1,836,631 tonnes with an average of 99.75% SiO2, 158ppm Fe, 521ppm Ti and 93ppm Ca. *This HPQ silica will be Homerun's initial supply from the District* and will be processed and shipped from port facilities located in Ilheus and / or Salvador, Bahia.

## **BAHIA SILICA DISTRICT HIGHLIGHTS**

### Enormous Demand

A study by World Bank revealed that the silicon sand industry has been contracting for the past two years due to a lack of silica. This shortage is likely to continue as China's demand for silicon sand grows exponentially. In fact, the country consumes around 50% of the global silica sand. Manufacturers have also been forced to switch to other materials, such as glass and aluminum, which may have an adverse effect on their performance.



- reselling it for over \$150 USD/tonne.
- shipping.
- Class.
- Local landowners support the development.

• **Operator 1: permitted indefinitely** for full-scale production up to **2.5M tonnes** annually over 5 concessions with opportunity to expand, to 9 concessions. • Operator 1 has been in limited production via a third-party mining contractor since April 2021 selling raw material with no processing at an EBITDA of +60%. • Cost to extract approximately 1 tonne of material is below \$10 USD/tonne. • Operator 1 has a single customer that is based in Sao Paulo and purchasing raw

material for \$20 USD/tonne and processing the raw silica in Sao Paulo, where it is

• **Operator 2:** is a Bahia State government organization with a 20 million tonne resource of similar grade that is covering only 10% of their holdings. It is Homerun's view that this resource will eventually be +200 million tonnes. • The District is located only ~50km from shoreline and in close *proximity to several* active nearby ports with direct road access and capability for additional product

• The Bahia Silica District has a +100 year LOM resource with low iron content and other impurities are extremely low which is why the District is considered World

• A reputable German engineering firm has conducted extensive testing and will be engaged when required to engineer the processing facility.

# SRD PARTY TESTING VERIFIES UPGRADE POTENTIAL



	AI	Fe	Na	к	Li	Ti	Zr	Ca	Mg	Cr	Mn	Cu	Sum
	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]	[ppm]
Chemical analyses of ra	w quart	z sand	-	2									
Raw quartz sand	17.5	5.5	2.7	1.3	0.08	150	5.2	90	33	0.13	0.12	< 0.05	306
Physical processing													
Fraction 0.1 - 0.5 mm	10.6	3.3	1.5	0.9	0.12	23.5	8.7	98	35.1	< 0.05	< 0.05	< 0.05	182
After scrubbing	12.4	2.4	1.7	1.3	0.08	21.5	0.59	98	36.1	< 0.05	< 0.05	< 0.05	174
Flotation F1	12.2	1.7	2.2	1.4	0.17	16.4	0.44	97	35.7	<0.05	<0.05	0.12	167
NonMag 3	11.0	1.8	1.6	1.7	0.08	25.8	0.52	94	34.6	0.05	< 0.05	<0.05	172
NonMag 4	13.1	1.7	1.6	1.6	0.29	19.4	0.51	91	34.5	0.05	0.08	0.4	164
NonMag 5	11.0	1.6	1.7	1.6	0.10	17.5	0.74	88	33.1	0.05	< 0.05	<0.05	155
Flotation F2 of NonMag 5	12.7	1.6	2.1	1.2	0.19	18.8	0.62	85	33.9	<0.05	< 0.05	<0.05	156
Chemical processing aft	er scrub	bing											
Acid washing AW1 (HF std.)	10.3	1.3	1.7	0.86	<0.1	13.5	0.30	86	34.8	<0.05	<0.05	<0.05	149
Acid washing AW 2 (HCI)	10.4	1.6	1.6	1.1	<0.1	21.3	0.45	89	35.4	< 0.05	< 0.05	< 0.05	161
Typical products													
Optical glass Type I		<1								< 0.005	< 0.005	< 0.005	
Optical glass Type II		<5								<0.1	<0.1	<0.1	

Our product has very low impurities in its raw form, making processing to high purity siO2 a standard and cost-effective initiative while substantially increasing profit margins.



# **BAHIA SILICA SAND DISTRICT**

world.

- on port use.

- - **Facilities**

# Nearby ports allow for economic storage and shipping to customers in Brazil and around the

• Expected cost to extract 1 tonne of material and process for customers will range from \$40.00 USD to \$50.00 USD pending

• Ports have immediate capabilities for product storage and shipping in mass tonnage. Ilhéus stands to be the primary bulk port while Aratu is both a bulk and container port facility.

> • Ilhéus – Ilheus, Bahia, Brazil Port for storage and primary processing • Aratu – Camacari, Bahia Brazil Port and planned Materials

# Our North American Early-Stage Asset

The **Tatooine Silica Project (the "Project")** covers an area of approximately **3,019 hectares** (7,460 acres), located directly adjacent to the community of Brisco, British Columbia and BC Highway 95, and approximately 65 kilometres southeast of Golden, BC, which is home to the Moberly Mine, a past-producing high-purity silica mine in the same lithological unit as the Tatooine Silica Project. The historical Brisco Silica Deposit located in the western part of Tatooine Silica Project, 30 metres from Highway 95, was actively mined in 1964 and 1990, producing 2,450 tonnes and 60,000 tonnes, respectively, for a total of 62,450 tonnes of quartzite silica. Randomly selected pieces taken in 1964 from the Brisco Pit assayed 98.66% SiO2, 0.47% Al2O3, 0.06% Fe2O3 and 0.08% CaO.

The Mount Wilson Formation has been regionally 545000 550000 555000 mapped as a structurally-repeated sequence appearing three to four times along-section from Mount Wilson Formation the western edge of the Property, paralleling the Highly pure, white quartzite. Middle to Upper Ordovician. Hard, massive, medium to fine-grained. highway, to the eastern edge of the Property, Repeated across the Tatooine Property through folding and faulting. which is traversed by a network of logging roads. (Combined regional mapping and interpretation) Homerun Resources Inc. The Tatooine Silica Project has **excellent** TSX.V: HMR access, nearby infrastructure, and resources. A August 30, 2022 230kV transmission line is located less than Brisco Silica Pit (BC MINFILE 082KNE012) Produced 62,450 tonnes of silica in 1964 and 1990. **Tatooine Silica** Two random grab samples from pit assayed: 5km from the Property along the Columbia 98.66% SiO2, 0.47% Al2O3, 0.06% Fe2O3, 0.08% CaO Project (Open File 1987-15) River, and a 69 kV transmission line passes Legend Brisco Silica Pit along the entire western edge of the ☆ Mineral Occurrence Property. BC Highway 95 also traverses the Town / Community Geology western edge of the Property and there is a Quartzite (Mount Wilson Fm.) rail line and railyard in the community of Brisco 4 km Brisco, which is directly adjacent to the **UTM Zone 11N** 545000 550000 555000 Property.





### As of August 23, 2023

Exchange	TSXV					
Common Shares Outstanding	47,514,325					
Stock Options	6,100,000 Avg \$0.16					
Warrants	7,464,000 Avg \$0.20					
Fully Diluted	61,078,325					
Market Cap	\$30.0M CAD					
Fully Diluted Inside Ownership %	25%					



# CONTACT US FOR MORE INFORMATION



Address

2110 - 650 West Georgia Strteet Vancouver, British Columbia, Canada



**CEO - Brian Leeners** brianleeners@gmail.com



### **Our Website** www.homerunresources.com



### **Investor Relations**

info@homerunresources.com

CAD-TSXV: HMR USA-OTC: HMRFF GDR-WKN: 5ZE / A3CYRW



CORPORATE PRESENTATION AUGUST 2023

#### WWW.HOMERUNRESOURCES.COM