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HOMERUN: ADVANCED MATERIALS FOR ENERGY SOLUTIONS

Innovating HPQ Silica Solutions for a Sustainable Future



JANUARY 2025

www.homerunresources.com

FORWARD LOOKING STATEMENTS



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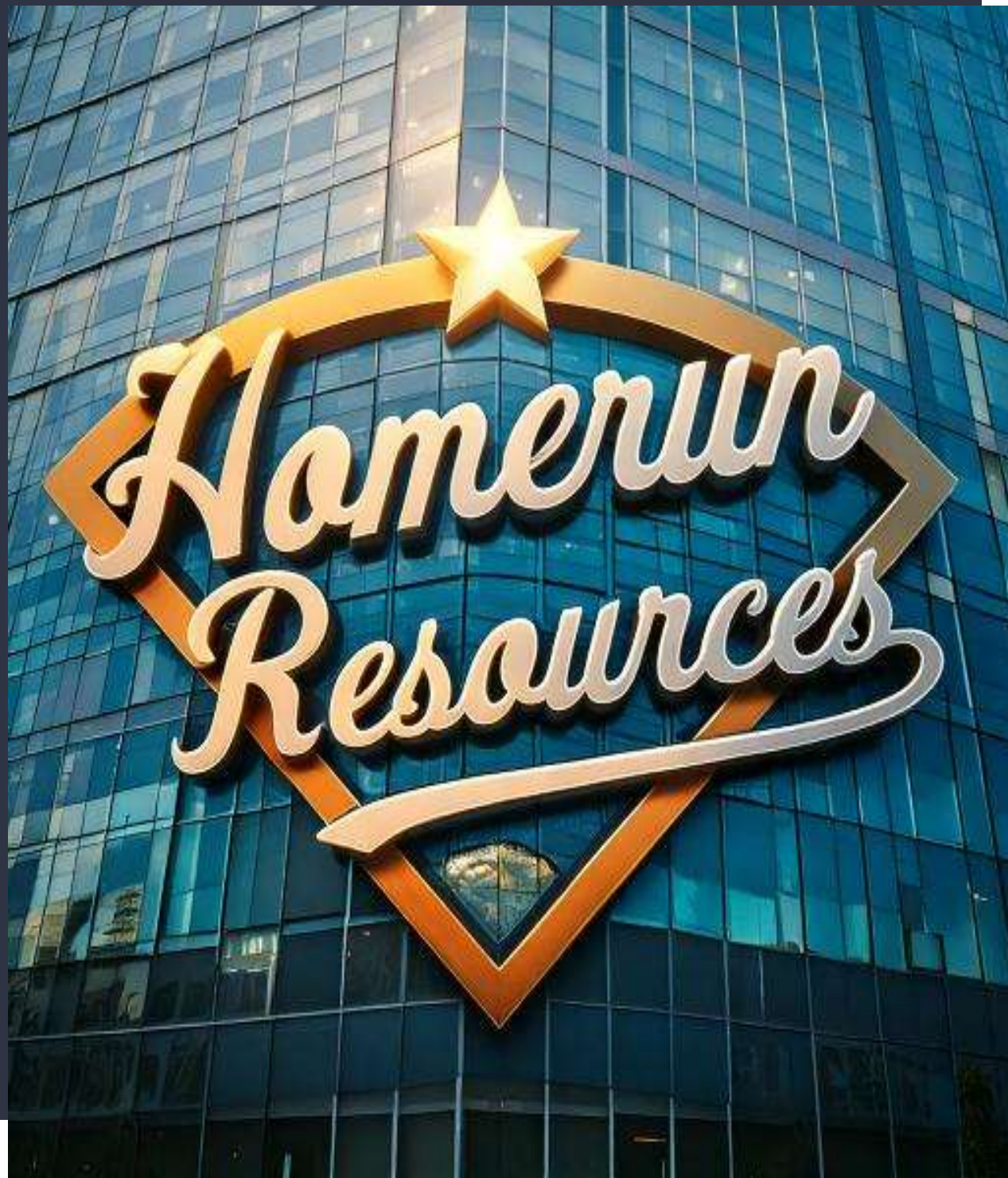
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INTRODUCTION TO HOMERUN RESOURCES INC.

Homerun is a disruptive leader in green energy solutions, committed to driving sustainable industrial practices across the globe.

VISION:

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

MISSION:

Our mission is to provide our customers with the highest quality materials, using sustainable and responsible industrial 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.

OUR TEAM

BRIAN LEENERS – CEO/DIRECTOR

Brian Leeners received both his B.Comm. and LL.B. degrees from the University of British Columbia in 1992 and since that time has been focused on the management of private and public venture companies. In 2002, Brian founded Nexvu Capital, which is a partner-owned, venture capital firm focused on developing companies in the Materials and Technology Sectors. Nexvu operates as a strategic merchant bank providing capital investment both directly and through its investor network. Nexvu provides hands-on business development strategy and expertise through the start-up and growth phases. Since formation in 2002, Nexvu has been directly responsible for raising in excess of US\$125 million (not including public market buy-side volumes).

ANTONIO VITOR – COUNTRY MANAGER BRAZIL

Antonio has vast experience in project management at large corporations, including Transpetro, PwC, Shell, along with 10 years of experience in mining. He was involved in the mining projects Zumbi Mineração Grafite de veio, AMA Gold, Hawking Graphite, 3 S Rare Earths and Copper, Palmeres Rare Earths. He graduated in Business Administration and holds an MBA. He is a Member of IBGC.

ARMANDO FARHATE – COO

Armando Farhate, a Brazilian citizen, has more than 37 years of industry experience, with the last 13 years being in the mining sector. He has occupied C-Level and Upper Management positions in mining companies in Brazil, Canada, Namibia and Botswana and is currently a Director on the Board for two Canadian mining and exploration companies. He brings extensive experience in all areas of this industry segment, with special focus on Operations, Sales & Marketing, Engineering and Mineral Resource Development.

DR. MAURO CESAR TERENCE - CTO

Dr. Mauro holds a degree in Chemistry from the Universidade Presbiteriana Mackenzie (UPM), a Master's, Ph.D. and postdoctoral in Nuclear Technology from the Universidade de São Paulo. He was a professor at the UPM for 25 years, where he coordinated the postgraduate programs in Materials engineering and nanotechnology. His research focuses on polymers, ionizing radiation, nanomaterials (graphene and graphene oxide from graphite) and materials characterization. He participated in the creation of the project and was a member of MackGraphe (Graphene and Nano-Materials Research Center) at the UPM from 2012 to 2019. He was involved in the mining projects NoovaMineração and Aquanitás Holding. In addition, Mauro has received a productivity grant from the CNPq – Brazil for his contributions to technological development and innovation.

NANCY ZHAO - CFO

Ms. Zhao has over 9 years of experience working with public companies, having served as the CFO for several publicly traded entities, contributing her financial acumen to organizations such as First Hydrogen Corp (TSXV-FHYD), and Neo Battery Materials Ltd (TSXV-NBM). Ms. Zhao is currently a board member of First Hydrogen Corp. Holding the designation of CPA, Ms. Zhao has a comprehensive educational background, including a diploma in Financial Management from British Columbia Institute of Technology, and a bachelor's degree in chemical engineering from Tianjin University of Technology. Ms. Zhao's professional journey encompasses diverse roles, including years of valuable experience as a procurement agent for Sinopec in China.



OUR POWERFUL 3-PHASE PLAN

Since the first financing under our Energy Transition strategy in Q1 2023, Homerun has been at the forefront of silica to solar and energy storage innovation. Our journey began with the acquisition of quartz silica sand resources in Brazil and is expanding vertically to include advanced materials, solar glass manufacturing, cutting-edge perovskite PV technology and disruptive energy storage solutions. Read through this presentation to find out more!



Timeline:



START

Announced the plan to pursue a silica-based Energy Transition Strategy in January of 2023



2023

Secured control through acquisition and partnership of the Belmonte Silica Sand District



2024

Developed infrastructure and logistics pathway for scaled silica sand operations



2025

Plans to begin revenue generation and to integrate multiple profit centers to commercialization



2026+

Fully integrated materials company scaling revenue across silica, advanced materials, solar and energy storage



HOMERUN CAN BE SIMPLIFIED INTO 2 SYNERGISTIC ORGANIZATIONS

*Homerun
Resources*

HOMERUN RESOURCES: *ADVANCED MATERIALS*

Use of Homerun Resources' silica supply:

- Utilizing Homerun's robust supply of high purity silica sand and quartz silica materials to facilitate domestic and international sales of physically processed silica.

Research and Development of advanced materials:

- Work performed internally and under research and development initiatives with UC Davis.
- Using Homerun Resources' products in Battery and Advanced Materials Solutions.

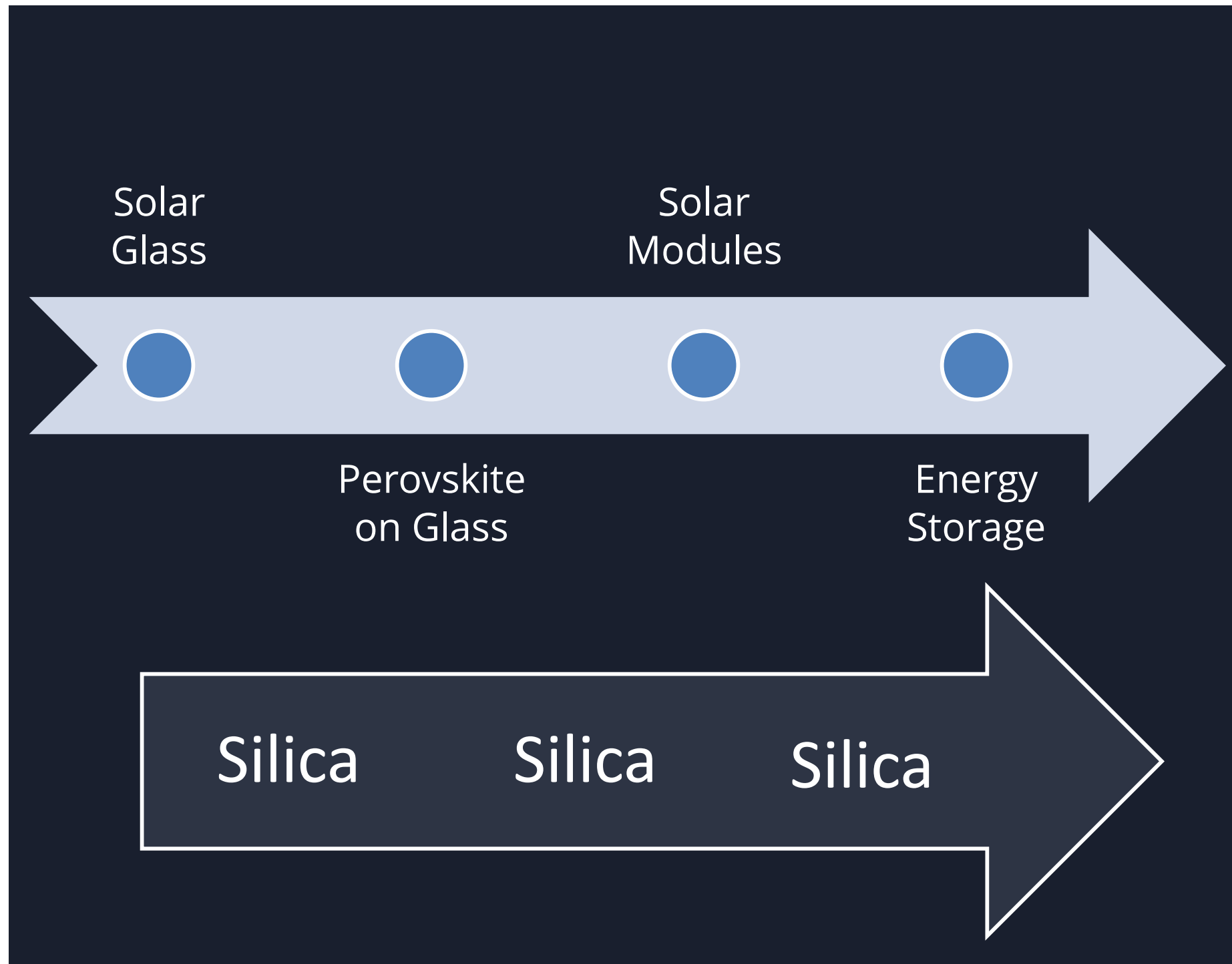
HOMERUN: *ENERGY SOLUTIONS*

Using Homerun Resources' Advanced Materials for Energy Transition Solutions Production:

- Solar glass
- Perovskite PV on Solar Glass
- Solar Modules
- Battery Materials development
- Thermal energy storage medium in the US Dept. of Energy (NREL) Enduring Energy Storage System

*Homerun
Energy*

6 PROFIT CENTRES IDENTIFIED AND UNDERWAY

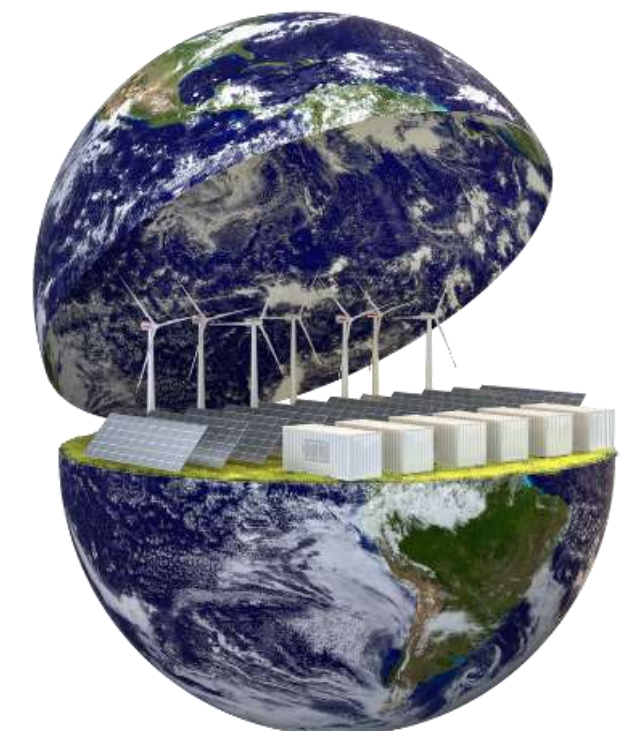


Opportunities

Through Homerun Resources and Homerun Energy Solutions 3-Phase business plan, we have identified 6 different profit centers across the Homerun vertical. Each “profit center” represents significant opportunity for substantial high-margin revenue growth.

6 Profit Centres

- HPQ Silica
- Solar Glass
- Perovskite PV
- Solar Modules
- Energy Storage
- Distribution/Solutions



ABOUT OUR HIGH PURITY SILICA SAND & QUARTZ SUPPLY

The Belmonte silica sand resource in Bahia, Brazil, stands as one of the planet's most exceptional deposits of high-purity quartz (HPQ) silica. This remarkable geological formation boasts an unparalleled combination of quality, quantity, and accessibility that sets it apart from other global silica sources. The sand's exceptional purity, with minimal impurities and contaminants, makes it ideal for advanced applications in the energy transition and high-tech industries. Its vast reserves ensure a long-term, sustainable supply to meet the growing global demand for HPQ silica. The strategic location in Bahia, with its well-developed infrastructure and proximity to shipping routes, further enhances the resource's value. This unique confluence of factors – superior quality, abundant quantity, and logistical advantages – positions the Belmonte silica sand resource as a critical asset in the global supply chain for advanced materials, particularly in the rapidly expanding solar energy and electronics sectors.

On December 11, 2023, Homerun [executed an agreement](#) with Companhia Baiana de Pesquisa Mineral - CBPM detailing the terms regarding Homerun's exclusive right to extract high purity silica sand sourced from CBPM's concessions near Santa Maria Eterna, Belmonte, Bahia, Brazil. Companhia Baiana de Pesquisa Mineral is the mineral research and development company of the State of Bahia, Brazil.



ASSET OVERVIEW

SANTA MARIA ETERNA SILICA SAND LEASE | (BELMONTE BRAZIL):

- 40-year lease agreement with CBPM (Bahia State Government)
- 43-101 Maiden Resource Estimate in process – *Permit Process*
- 254 auger holes over 2,565m of drilling targeting +50 million tonnes
- Surface silica successfully processed to +**99.99% SiO₂** by UC Davis

SANTA MARIA ETERNA SILICA SAND LEASE || (BELMONTE BRAZIL):

- Regulatory approval process for the acquisition - *Permitted*

SANTA MARIA ETERNA SILICA SAND SUPPLY (BELMONTE BRAZIL):

- Partnered with largest silica company in Brazil for supply & processing - *Permitted*

BELMONTE CONCESSIONS (BELMONTE BRAZIL):

- 7,930 Hectares – 100% Owned – *Exploration & Development*
- Drilled 15 surface holes over 4 claims – Avg 99.23% SiO₂ best result 99.8% SiO₂
- Targeting +200 million tonnes

CANIDE QUARTZ (BRAZIL):

- 29,241 Hectares – 100% Owned – *Exploration & Development*
- 47 samples taken most of which graded above 99% SiO₂ (low impurities)
- Processing by crushing and targeting 500 million tonnes

TATOOINE QUARTZ (CANADA):

- 3,958 Hectares – 100% Owned – *Exploration (Historical production)*
- 43-101 Technical Report, 98.8% SiO₂ over 27 samples

OUR LOGISTICAL PATHWAY FOR SCALED OPERATIONS WITH NO CAPEX TO DATE



Extraction:

- Simple extraction process (scoop and load)
- Trucking contractor from Belmonte to the bulk Port of Ilhéus on a per tonne basis



Primary & Advanced Processing:

- Primary processing at site by Brazil's largest silica Company
- View related news release [here](#)
- Thermal processing development is *underway*



Port Facilities:

- Ilhéus and Aratu port facilities nearby and available
- Immediate storage, loading and shipping capabilities
- Private sea terminal in Belmonte ready for expansion through a partnership with [Veracel Celulose S.A.](#)



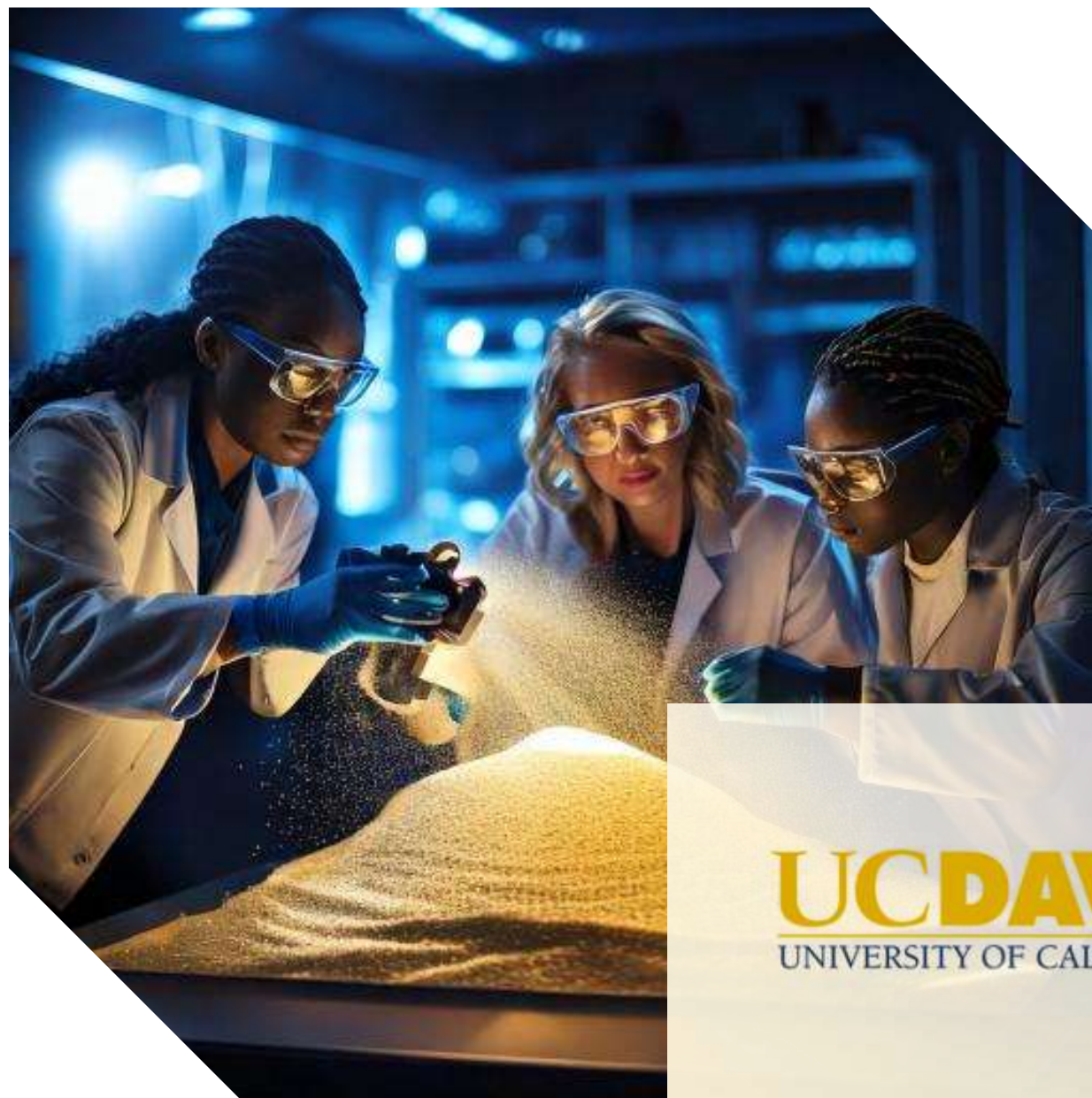
Shipping:

- Maritime transport facilitated through [Norsul partnership](#)
- High volume tonnage product expert with 60 years of experience
- Order by order basis



HOMERUN RESOURCES: ADVANCED MATERIALS

Purification of Homerun Materials and Advanced Materials Through Research & Development



HOW WE ARE DISRUPTING OLD PROCESSING TECHNIQUES TO FACILITATE ADVANCED MATERIALS FOR GLOBAL DEMAND:

BREAK-THROUGH PROCESS #1

Scalable Silica Purification - Unitized Block Commercial Plant Design:

- UC Davis successfully purified RAW silica sand from Homerun's Santa Maria Eterna deposit to +99.99% SiO₂ using a Femtosecond laser with no chemical reagents.
- UC Davis is **NOW DEVELOPING** a unitized block commercial plant design for scaling production of commercial advanced materials.
- Commercial outcomes will target zero-waste zero-emissions.
- Click to view detailed report: [UC Davis, Homerun Resources Innovate Carbon-Neutral Path with Laser-Purified Silica](#)

Targeted Material Development:

- Silica to Silicon & Silicon Carbide: Thermoelectric processing to ultra-high purity silica, silicon and silicon carbide.
- Silicon & Graphite: Carbide-based refractories and oxycarbide glasses, creating combined material solutions utilizing high-purity silica and graphite.

HOMERUN ENERGY SOLUTIONS OVERVIEW



SOLAR ENERGY:

Building Latin America's first dedicated high-efficiency solar glass manufacturing facility to supply the domestic solar industry within Brazil and to meet international demand.

PEROVSKITE PV:

Extending our reach into the next generation of Solar - Perovskite Solar. Focusing on sheet-to-sheet perovskite production capability to serve the world.

ENERGY STORAGE:

Developing a first of its kind thermal energy storage system with US Department of Energy (NREL) utilizing our high-purity silica sand for purification, industrial heat and electricity arbitrage.

BATTERY SOLUTIONS:

Developing a scalable unitized block commercial plant to pioneer disruptive processing methods and advanced material product development from our high-purity silica sand and quartz resources.

HOMERUN *ENERGY SOLUTIONS*: PROJECT DEVELOPMENT AND STAGES



SOLAR GLASS MANUFACTURING FACILITY

KEY POINTS:

- 1,000 ton per day capabilities / 365,000 tonnes per year gross capacity.
- To be built in Camacari Industrial Complex nearby Port of Aratu.
- China competitive materials and logistical advantage from nearby Homerun silica.
- Government imposed additional 25% tariffs on solar components imported from China.
- Government created tax incentives for companies producing and buying domestic supply.

COMPLETED:

- Hiring of 2 specialized consultants for construction, permitting and feasibility study.
- LOI signed for solar glass offtake up to 365,000 tons per year.
- Budgetary offer [received](#) from Horn Glass AG CAPEX of EURO 151.5 million for Latin America's First Solar Glass Manufacturing Facility

IN PROCESS:

- Land grant from Government
- Permitting for development
- Bankable feasibility study
- Financing and construction

HOMERUN *ENERGY SOLUTIONS*: PROJECT DEVELOPMENT AND STAGES



**HOMERUN BREAK-THROUGH
PROCESSING TECHNIQUE #2**

ENDURING ENERGY STORAGE SYSTEM

KEY POINTS:

- Partnered with the US Department of Energy's National Renewable Energy Lab (NREL) for development.
- Development of thermal purification of Homerun silica sand within the Enduring Energy Storage System
- Ready for commercial pilot installation.

COMPLETED:

- Developed thermal cycle testing plan.
- Screened purification methods by thermal and thermochemical processes.
- Measured Homerun sand particle size distributions and sand heat capacity.
- Developed data from testing for initial Thermal/Acid process flow to purify Homerun's silica.

IN PROCESS:

- Assessment of silica post-storage as value-added feedstocks to renewable materials.
- Develop energy storage configuration based on a site and material processing methods.
- Develop plant configuration with component size and layout that considers material handling and generate a process flow diagram.

HOMERUN *ENERGY SOLUTIONS*: PROJECT DEVELOPMENT AND STAGES



PEROVSKITE ACQUISITION: HALOCELL EUROPE (HOMERUN ENERGY)

KEY POINTS:

- Globally recognized leader in Perovskite research and development.
- More than EUR 2.0 million in active grants for research and commercial development.
- 18 months working capital coverage in place for operations.
- Revenue generation from current solutions and immediate focus on commercialization of new solutions.
- Existing IP shared in collaboration with Halocell Energy (Australia)
- Perovskites have achieved solar conversion efficiency of over 25% (according to NREL)

COMPLETED:

- Actively commercializing the Hyperion solar simulators, among the most accurate solar simulators in the industry and installed in some of the best private and public research facilities globally.

IN PROCESS:

- Creating a collaborative plan focused on Perovskite on solar glass.
- Commercialization of additional Perovskite focused solutions.

MARKET ANALYSIS & OPPORTUNITIES

Market Trends

Brazil's Solar Market:

- Brazil is the largest solar market outside of China with 1 GW of current capacity versus 15 to 20 GW of annualized installation. Over 113,000 GW of solar capacity are currently in the pre-construction stage.

Government Incentives and Policies Supporting Green Energy:

- The Brazilian government has raised the import tax rate on solar modules from 9.6% to 25% and at the same time enhanced tax incentives for companies creating and purchasing domestic supply.
- BNDES New Industrial Policy: to stimulate productive and technological development; to increase the competitiveness of Brazilian industry; to guide investment; to promote better jobs; and to boost the country's qualified presence in the international market

Opportunities

Expansion into Europe:

- The rumored 40% EU Content Rule in the European Union (EU) is targeted to increase the amount of solar panels produced domestically to 40% by 2030. The goal is to help the EU companies compete with other countries and reduce its reliance on imports. The EU imports over 95% of its solar panels from China.

Development of New Renewable Technologies:

- Innovations like satellite perovskite solar solutions and advanced energy storage systems are gaining traction, and Homerun is at the forefront of these advancements.

“The new policy places innovation and sustainability at the center of economic development, encouraging research and technology in various different fields, alongside social and environmental responsibility”

GERALDO ALCKMIN

Brazil's Vice-President and Minister of Development, Industry, Commerce and Services



COMPANY OBJECTIVES



MAJOR SHORT-TERM OBJECTIVES:

- Complete MRE on Santa Maria Eterna Resources
- Sales of Homerun Materials
- Develop Thermal/Acid Processing Plant
- Bankable Feasibility Study on Solar Glass Plant
- Financing of Solar Glass Plant
- Commercialization of Perovskite Solutions
- Expansion of Distribution and Sales



LONG-TERM OBJECTIVES:

- Full perovskite integration into solar glass manufactured in Brazil
- Solar Module Manufacturing in Brazil
- Energy Storage and Battery Materials Solutions
- Advanced Materials Development to Commercial Sales



THANK YOU

Thank you for your interest in Homerun and our commitment to the renewable energy transition. Together, we can create a sustainable and prosperous future.



www.homerunresources.com

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Vancouver, British Columbia,
Canada



SHARE STRUCTURE

Exchange	TSXV	Price
Common Shares	60,092,679	
Stock Options – Amount & Avg Price	8,965,000	\$0.41
Warrants – Amount & Avg Price	4,388,226	\$1.10
Fully Diluted	73,445,905	
FD Insider Ownership %	20%	



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