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Homerun: Advanced Materials for Energy Solutions

Innovating HPQ Silica Solutions for a Sustainable Future

Q2 2025

WWW.HOMERUNRESOURCES.COM

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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 Chief Operating Officer

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.

Nancy Zhao Chief Financial Officer

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.

Tyler Muir Investor Relations

Tyler Muir is the visionary President and CEO of TMM Capital Advisory Inc., a distinguished advisory firm specializing in investor relations, corporate communications, and strategic capital management for emerging public companies. Founded in March 2021, TMM Capital Advisory was established to address systemic inefficiencies in the Canadian capital markets, driven by Tyler's commitment to fostering transparency, ethical practices, and equitable growth opportunities for investors and businesses alike.

Dr. Mauro Cesar Terence Chief Technology Officer

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.

Homerun's Powerful 3-Phase Business Plan

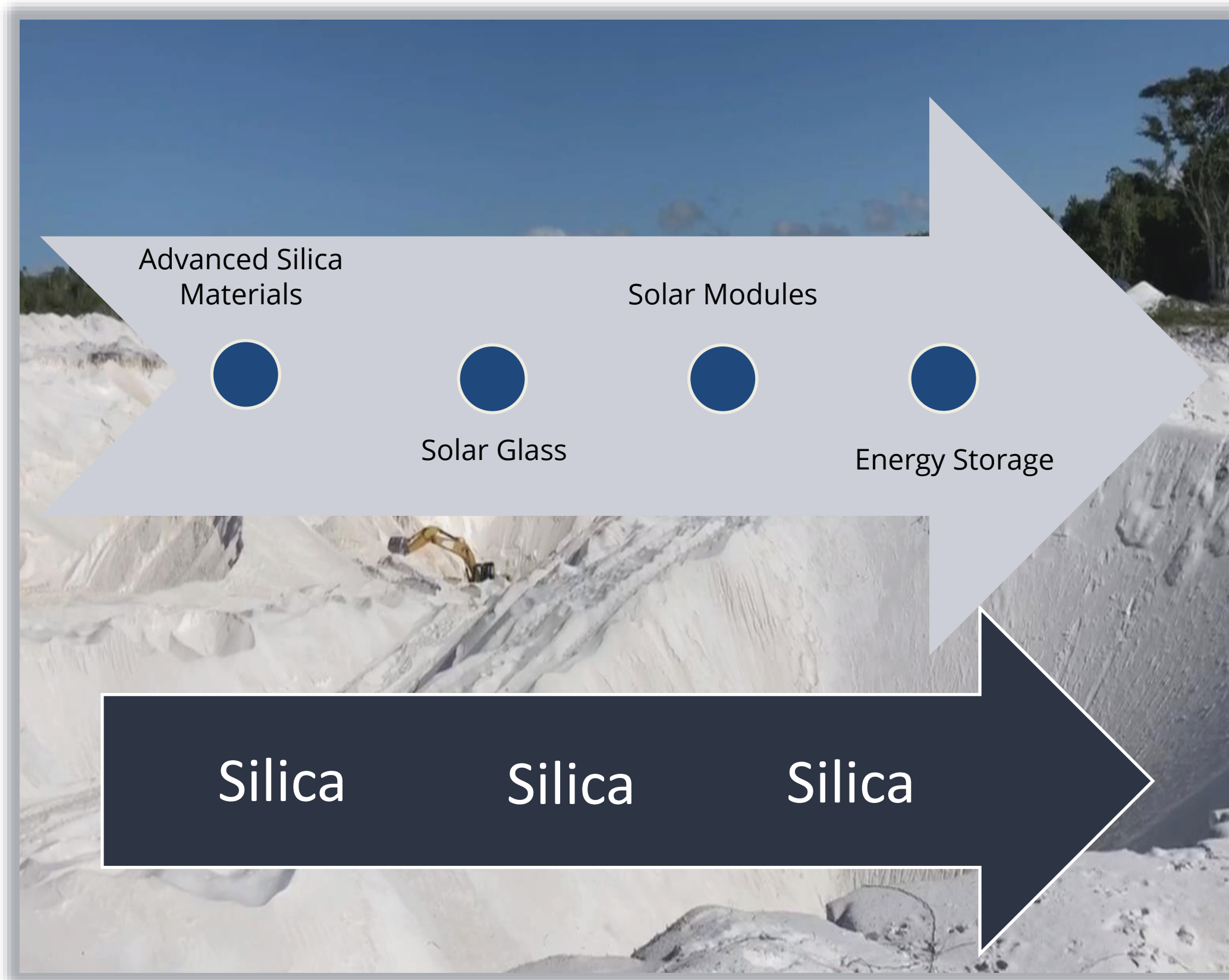
Since the first financing under our Energy Transition strategy in Q1 2023, Homerun has been at the forefront of silica to solar and energy storage innovation. Our journey began with the acquisition of quartz silica sand resources in Brazil and is expanding vertically to include advanced materials, solar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

Homerun has been built for limitless potential, read through our 6 identified profit centers to find out why.

Timeline:



6 Profit Centers **Identified** Within Core Silica Competitive Advantage



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.

Vertically Integrated Materials Company - 6 Profit Centers:

- Processed HPQ Silica – HMR Resources
- Solar Glass – HMR Energy
- Solar Modules – HMR Energy (Partnership)
- Energy Storage – HMR Energy (US DoE - NREL)
- Perovskite PV on Glass - HMR Energy (Halocell)
- Energy Solutions – HMR Energy (Halocell)



Homerun Can Be Simplified Into 2 Synergistic Organizations

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: *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



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.

Additionally, Homerun holds 100% ownership of high-purity quartz assets in Brazil and Canada. The Canide Quartz assets in Brazil span over 29,241 Hectares and have shown extremely positive results to date in line with the quality of the Belmonte silica sand district. This strategic acquisition allows Homerun to have a solidified footprint across the entire HPQ marketplace.



Asset Overview



- 1 Santa Maria Eterna Silica Sand Lease I**
 - 40-year lease agreement with CBPM (Bahia State Government)
 - 43-101 MRE with Measured @ 25.56Mt and Inferred @ 38.35Mt *at >99.6% SiO₂ – Permit In Process (environmental granted)*
 - Surface silica successfully processed to +99.99% SiO₂ by UC Davis
- 2 Santa Maria Eterna Silica Sand Lease II**
 - Lease agreement – *Permitted for extraction*
 - Low extraction royalty of R\$26/ton or USD\$4.50
- 3 Santa Maria Eterna Silica Sand Supply**
 - Partnered with largest silica company in Brazil for supply & processing - *Permitted*
- 4 Homerun Belmonte Concessions**
 - 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
- 5 Canide Quartz**
 - 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
- 6 Tatooine Quartz**
 - 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



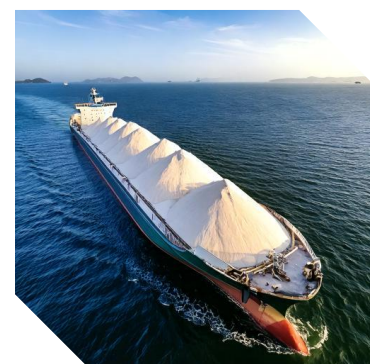
Primary & Advanced Processing:

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



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 – 99.999% SiO₂ Achieved



* SEE HOMERUN ENERGY STORAGE SOLUTION FOR BREAK-THROUGH PROCESS #2

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 & Project Development



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 SOLUTIONS:

Vertically integrated platform of established, revenue-generating marketing, distribution and sales channels to fast-track Homerun's vertically integrated plans.

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.



HOMERUN *ADVANCED MATERIALS*: PROJECT DEVELOPMENT AND STAGES

SILICA PURIFICATION PLANT

KEY POINTS:

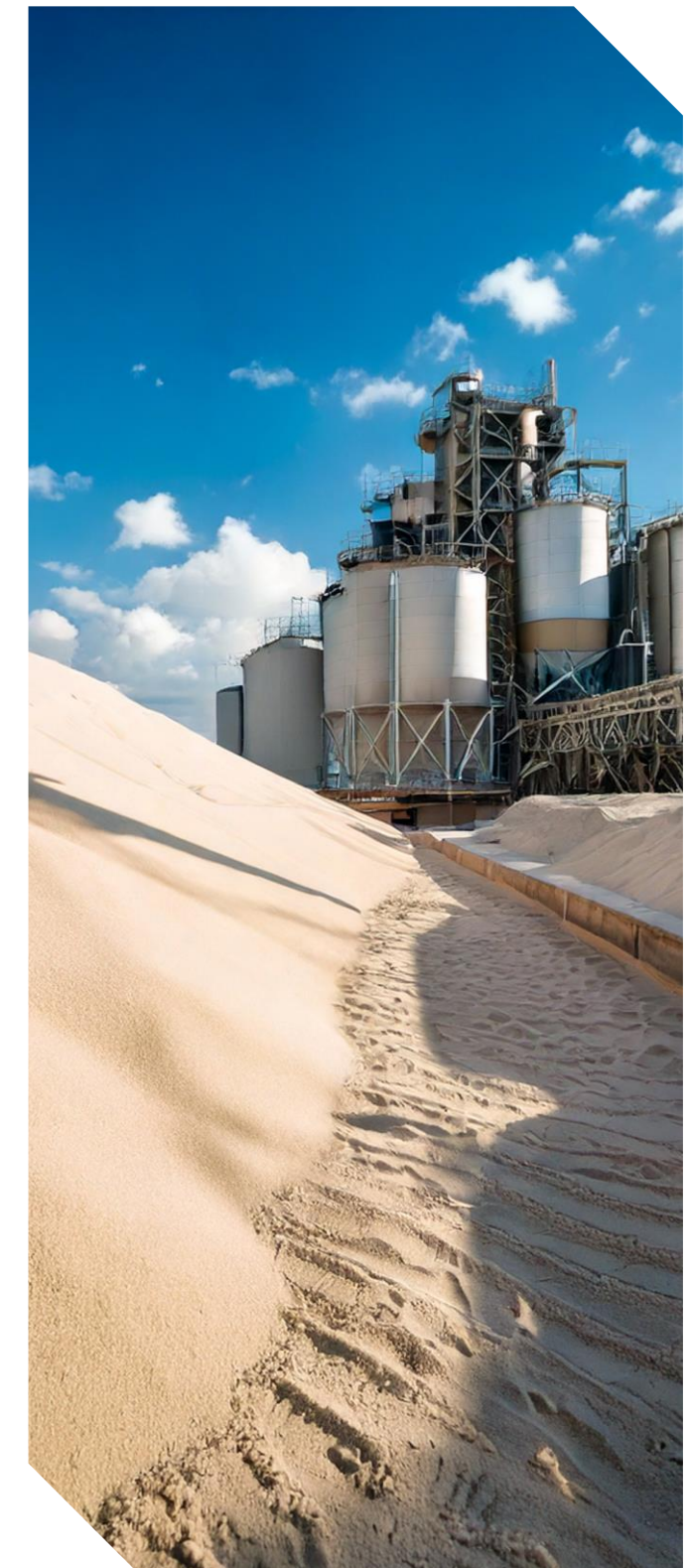
- Initial 120,000 tonnes per year gross capacity with significant expansion capability.
- To be built in Belmonte, Brazil proximal to Homerun's silica sand resources.
- Producing Homerun Ultra-Pure silica sand product with less than 100ppm of impurities.
- Homerun's silica sand has already achieved >99.99% SiO₂.
- Dorfner Anzaplan to perform final calcination and leaching test work to identify streamlined pathways to >99.99% SiO₂

COMPLETED:

- Purification test work completed through NREL (US Department of Energy).
- Purification test work completed through UC Davis. Scalable unitized block commercial plant design in process and will be complimentary to this purification plant for specialized advanced material creation.
- Ongoing customer solicitation and engagement for >99.99% SiO₂ product.

IN PROCESS:

- Land grant from Government
- CAPEX estimate by Anzaplan
- Permitting for development
- Financing and construction
- Pending successful completion of the above, Homerun is targeting potential production before end of 2025 or early Q1 2026.





HOMERUN *ENERGY SOLUTIONS*: PROJECT DEVELOPMENT AND STAGES

SOLAR GLASS MANUFACTURING FACILITY

KEY POINTS:

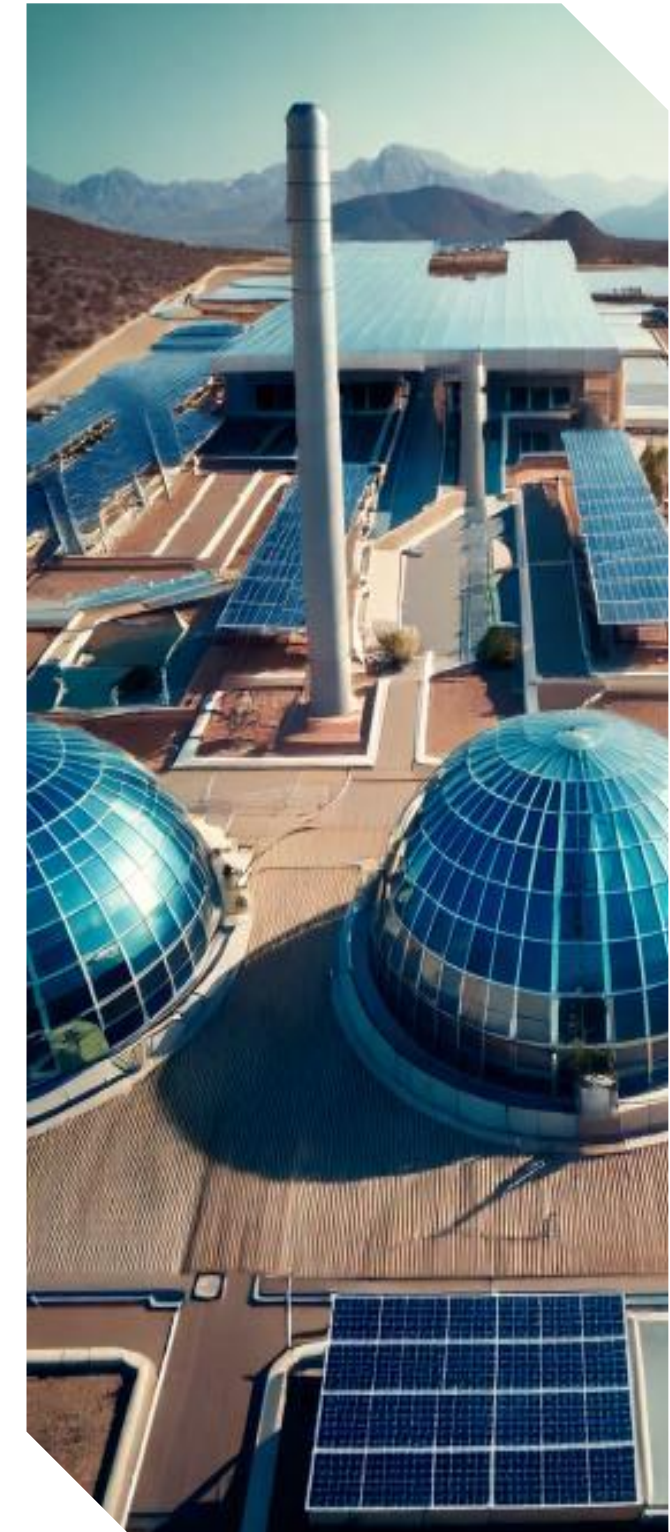
- 1,000 ton per day capabilities / 365,000 tonnes per year gross capacity.
- To be built in Camacari Industrial Complex nearby Port of Aratu.
- China competitive materials and logistical advantage from nearby Homerun silica.
- Government imposed additional 25% tariffs on solar components imported from China.
- Government created tax incentives for companies producing and buying domestic supply.
- Competitive COGS advantage over China (currently 99% of Brazil Solar Glass).

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.
- 2 additional LOI's signed for solar glass offtake for total of a minimum 120,000 tons per year at USD\$750/t with Sengi Solar and Balfar Solar
- 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
- Targeting production in 2027.



HOMERUN ENERGY SOLUTIONS: WHY SOLAR GLASS...

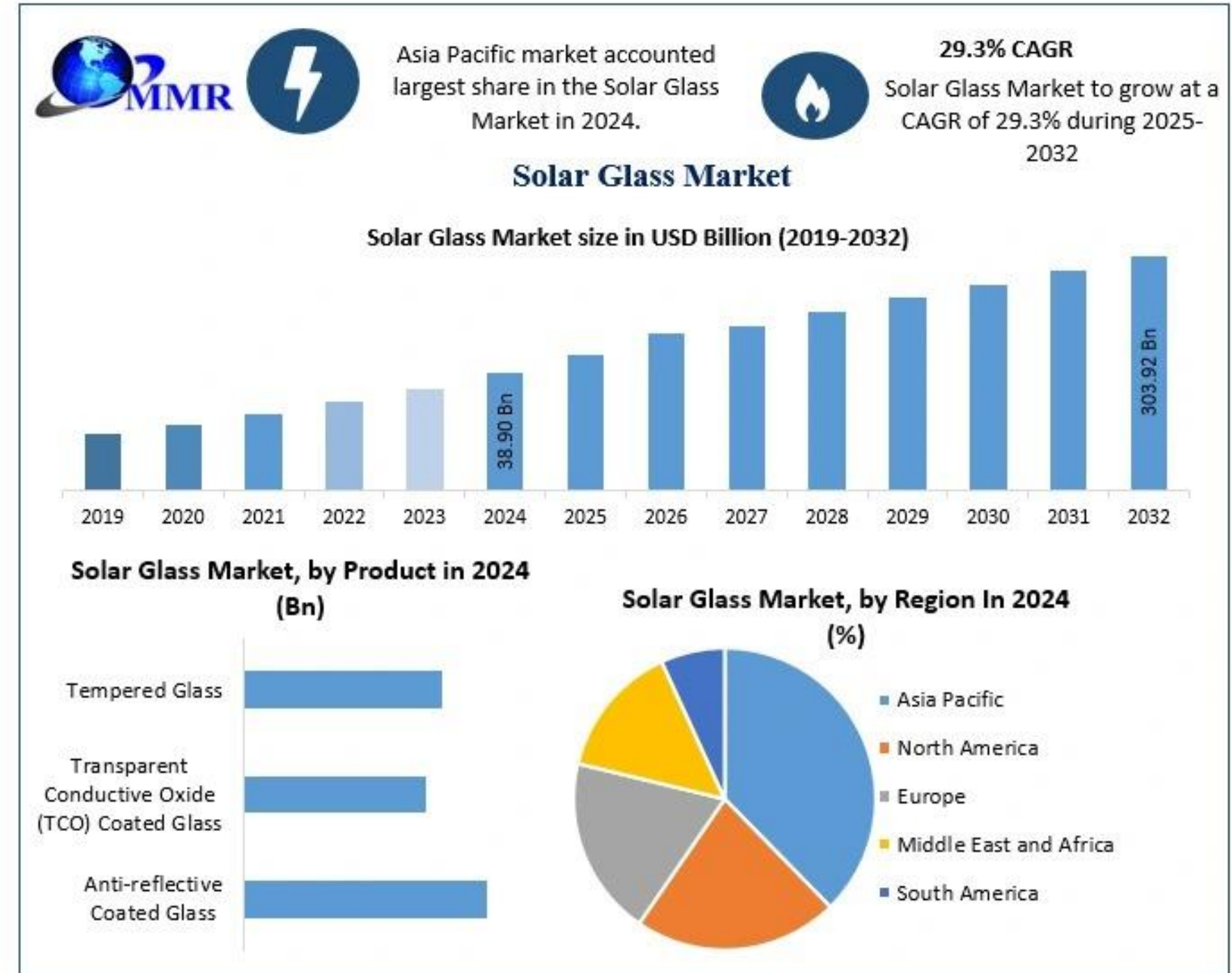
GLOBAL SOLAR GLASS MARKET – FAVOURS DOMESTIC SUPPLY IN BRAZIL

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.
- Solar glass remains the one critical component of a solar panel where pricing has remained stable.

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 announced a 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.



<https://www.maximizemarketresearch.com/market-report/global-solar-photovoltaic-glass-market/3593/>



HOMERUN *ENERGY SOLUTIONS*: PROJECT DEVELOPMENT AND STAGES



ENDURING ENERGY STORAGE SYSTEM (THERMAL ENERGY STORAGE)

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.
- Lower CAPEX and operating costs compared to BES.
- Longer lifespan, TES can last up to 30 years reducing replacement costs.
- Scalable for broad applications from onsite MWh storage to utility GWh long duration storage without geologic/geographical limits.

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 BREAK-THROUGH PROCESSING TECHNIQUE #2



HOMERUN *ENERGY SOLUTIONS*: WHY THERMAL ENERGY STORAGE...

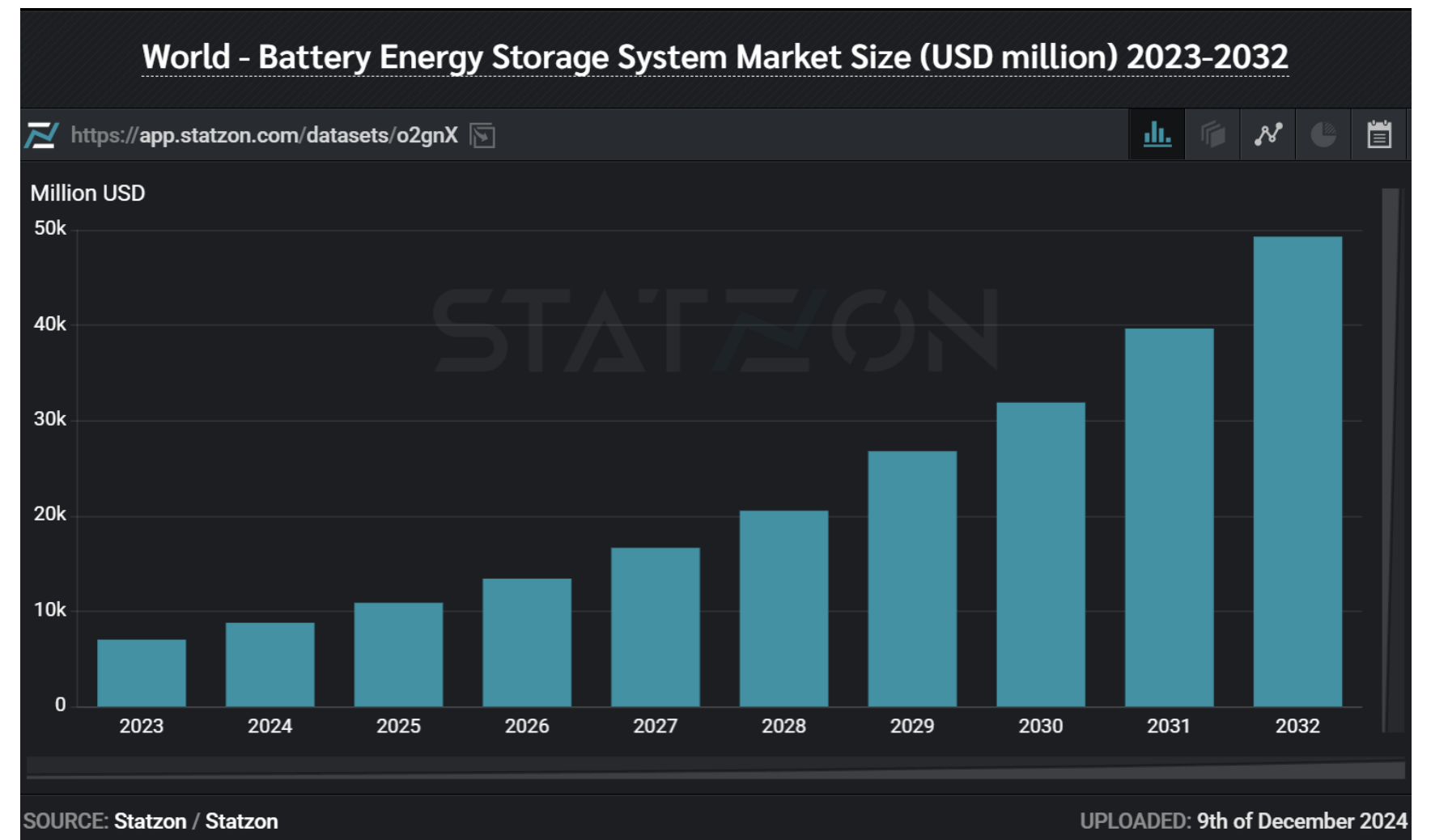
GLOBAL ENERGY STORAGE MARKET – UNPRECEDENTED GROWTH

Energy Storage Market

- By 2030, the global energy storage market is anticipated to grow at a 21% CAGR with annual additions expected to reach 137 GW (442 Gwh)
- The Enduring system is a modular drop-in TES design for industry decarbonization.
- Integrated with cheap renewable power to replace fossil fuels in supplying heat and power at a fraction cost of batteries and hydrogen.
- Safe, reliable, efficient, low cost, and small footprint over other TES technologies.

In Summary...

- While the global energy storage market is expanding rapidly across various technologies, TES stands out for its versatility in applications, environmental benefits, and ability to complement renewable energy sources effectively.



<https://www.twobirds.com/en/insights/2025/energy-outlook-2025-energy-storage>



HOMERUN ENERGY SOLUTIONS: SOLUTION SALES AND DEVELOPMENT

HALOCELL & SEIS SOLAR ACQUISITIONS FOR STREAMLINED DEVELOPMENT

KEY POINTS:

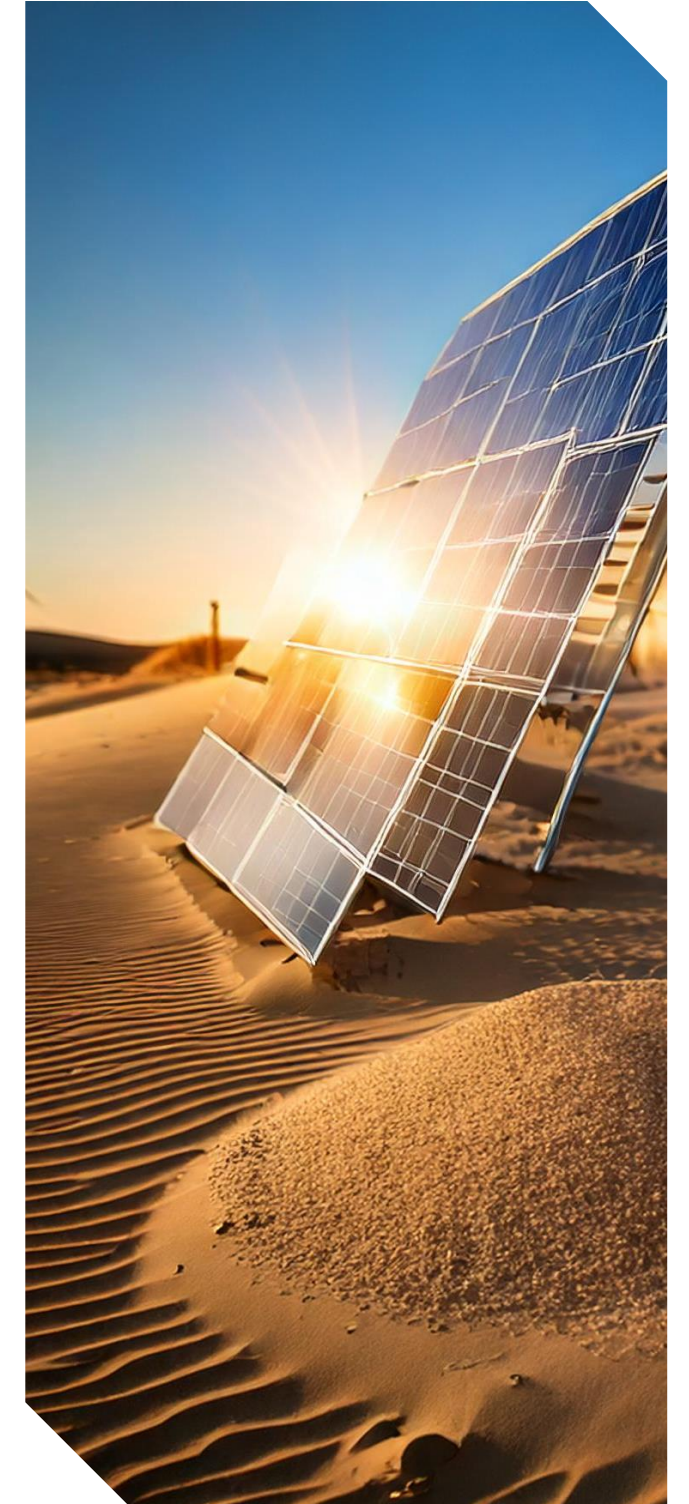
- Homerun Energy (through SeisSolar) now has access to extensive marketing, distribution and sales channels reaching over 2800 active customers.
- Homerun Energy (through Halocell) now has 15 years experience developing PV technologies with a specialization in perovskite photovoltaics.
- Homerun Energy is adding high-margin, recurring revenue SaaS offerings to the B2B hardware sales business of SS.
- SeisSolar has generated over EUR 70M in cumulative revenues with cumulative net profit from 2022-2024.

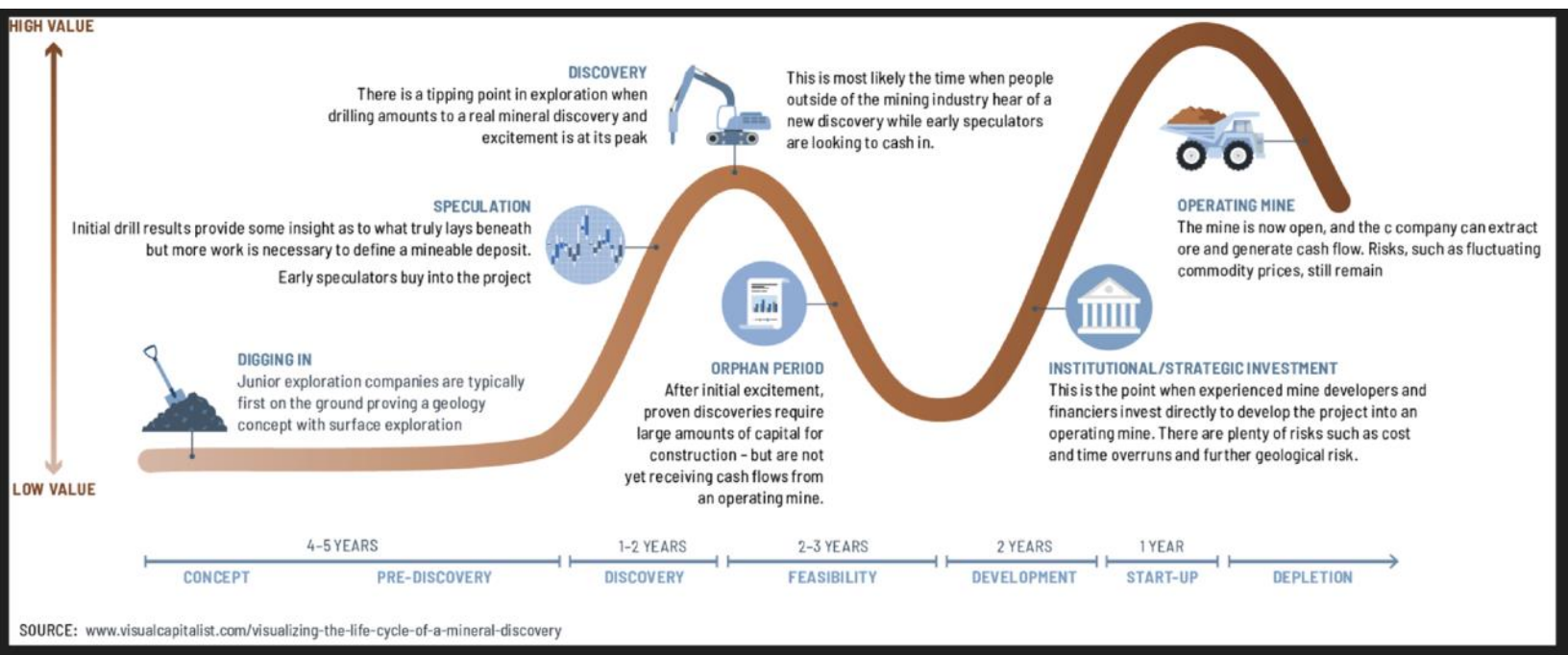
COMPLETED:

- Acquired 100% ownership of Halocell Europe, with capital invested into equity ownership of rapidly expanding Halocell Australia.
- Binding agreement to acquire 60% of SeisSolar, with shareholder rights to acquire remaining 40%.
- Homerun has licensed and is now actively commercializing AI Energy Management and Control System Solutions (hardware and software) for energy capture, energy storage and efficient energy use.

IN PROCESS:

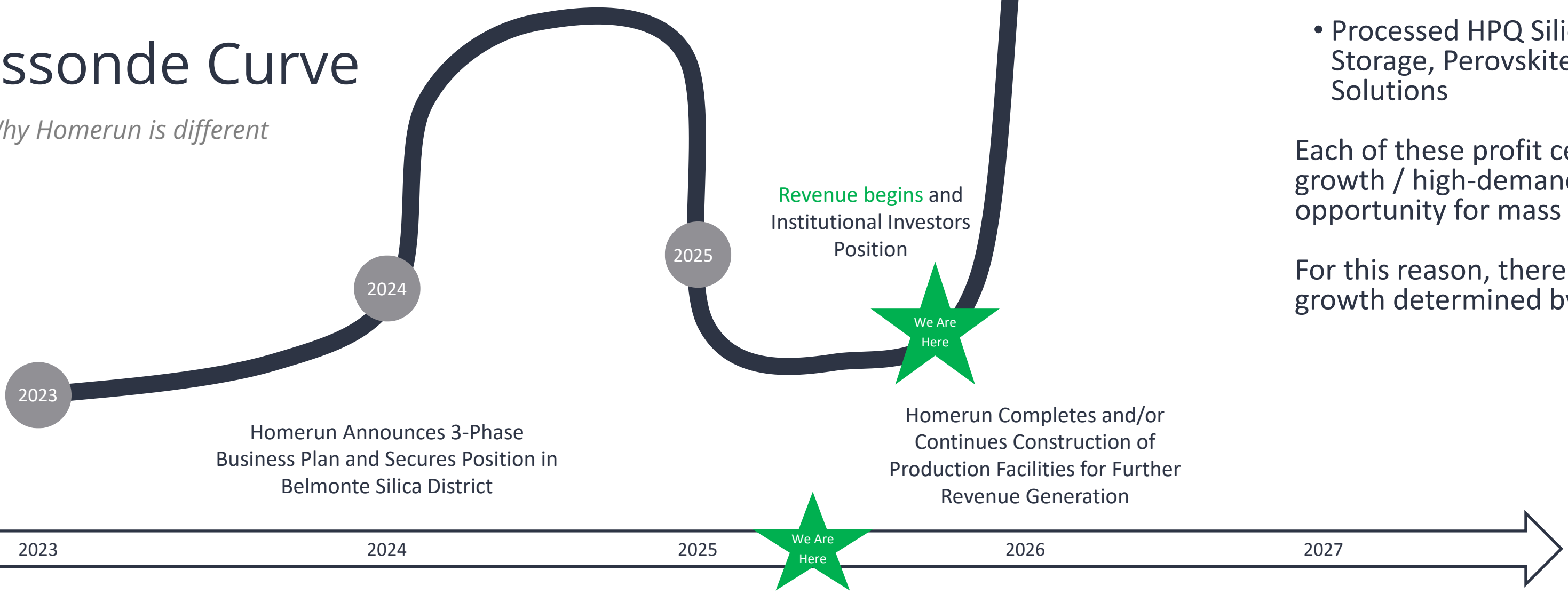
- Sales expansions across active customer base.
- Additional commercialization of perovskite solutions.
- Global commercialization of AI Energy Management Solutions





Lassonde Curve

& Why Homerun is different



Homerun Announces 3-Phase Business Plan and Secures Position in Belmonte Silica District

Revenue begins and Institutional Investors Position

Homerun Completes and/or Continues Construction of Production Facilities for Further Revenue Generation

Homerun Pursues Renewable Energy Transition Focused on HPQ Silica

Homerun Executes Phase 1 and 2 of Business Plan involving resource, logistics, and Infrastructure. Revenue begins to scale via 2 of 6 profit centers.

Homerun Brings All 6 Profit Centers Online and Scaling Revenues into 2027 and 2028.



6 Profit Centers Identified

Homerun has identified and is bringing 6 different profit centers online through its vigorous commitment to developing a **vertically integrated materials company**.

- Processed HPQ Silica, Solar Glass, Energy Storage, Perovskites, Solar Modules & Energy Solutions

Each of these profit centers are situated in high-growth / high-demand industries and have opportunity for mass scale and healthy margins.

For this reason, there is **no limit** to Homerun's growth determined by max production.

Landscape Of Opportunities

MAJOR SHORT-TERM OBJECTIVES:

- ✓ Complete MRE on Santa Maria Eterna Resources
- Sales of Homerun Materials
- Develop Silica Purification Plant to >99.99%
- 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

Opportunities

Expansion into Europe:

- The rumored 40% EU Content Rule in the European Union (EU) is targeted to increase the number 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



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	62,505,179	
Stock Options –Amount & Avg Price	10,891,000	\$0.63
Warrants –Amount & Avg Price	3,235,054	\$1.40
Fully Diluted	76,631,233	
FD Insider Ownership %	20%	



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