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High-Purity Quartz (HPQ) / Silica in Brazil and Canada,
Solar Glass, Energy Storage, Clean Energy Solutions



FROM 3N FEEDSTOCK TO +4N VALUE CREATION, HOMERUN MOVES ITS SILICA VALLEY STRATEGY INTO ENGINEERING AND CAPEX DEFINITION

HOMERUN CONFIRMS PREFERRED +4N SILICA PURIFICATION PATHWAY AS CAPEX PLANNING ADVANCES

Homerun Resources Inc. has taken another important step toward turning its Santa Maria Eterna Silica Sand District in Bahia, Brazil, into an integrated high-purity silica and advanced materials platform. Today, the company [announced](#) that, following complementary leaching test work completed by Dorfner Anzaplan GmbH, Homerun and Anzaplan have identified the preferred processing route for producing +99.99% SiO₂ (+4N) silica.

The selected pathway is calcination, or thermal treatment, followed by acid leaching of feedstock produced by Homerun's planned 350,000 tonne per year (tpy) 99.9% SiO₂ (3N) primary purification plant.

This matters because the +4N stage is where Homerun's silica strategy begins to move beyond industrial-grade purification and into higher-value material streams.

The company's 3N plant is intended to establish the upstream commercial foundation for Homerun's broader silica platform.

The planned +4N plant is intended to create a higher-purity product for commercial sales and serve as an important feedstock for Homerun's future +99.999% SiO₂ (5N) silica and advanced materials development.

Company Details



Homerun Resources Inc.

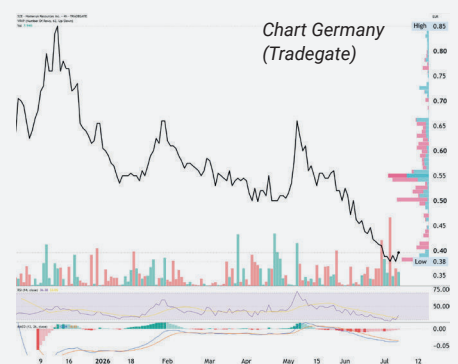
#2110 - 650 West Georgia Street
Vancouver, BC, V6B 4N7 Canada
Phone: +1 844 727 5631
Email: info@homerunresources.com
www.homerunresources.com

ISIN: CA43758P1080 / CUSIP: 43758P

Shares Issued & Outstanding: 77,333,285



Canada Symbol (TSX.V): [HMR](#)
Current Price: 0.61 CAD (07/08/2026)
Market Capitalization: 47 Million CAD



Germany Ticker / WKN: [5ZE / A3CYRW](#)
Current Price: 0.396 EUR (07/09/2026)
Market Capitalization: 31 Million EUR

PREFERRED ROUTE CONFIRMED

The Dorfner Anzaplan test work compared direct acid leaching without thermal pre-treatment against acid leaching after thermal treatment at 1,000°C. According to Homerun, the results support calcination followed by acid leaching as the preferred route for achieving +4N silica.

The next step is now clearly defined.

Anzaplan will proceed with process design and AACE Class 5 CAPEX development for two +4N purification plant configurations: One is the traditional route using calcination followed by acid leaching. The second is an acid-leaching-only route after alternative thermal pre-treatment.

For investors, this shifts the story from laboratory validation toward engineering definition. Homerun is now working to quantify process design, mass balance, equipment requirements and capital cost scenarios for the +4N plant.

THE ENDURING SYSTEM: MORE THAN ENERGY STORAGE

A particularly important part of the announcement is Homerun's parallel work on an integrated CAPEX study using the [Enduring Energy Storage system](#).

Under this concept, silica sand from Santa Maria Eterna would be used as the medium for thermal energy storage, storing energy as heat and supplying industrial heat and power to Homerun's planned Silica Valley operations.

The strategic idea is straightforward but potentially powerful: Homerun is evaluating a broader platform in which energy storage, industrial heat and silica purification are designed to work together.

This is important because calcination is an energy-intensive part of the purification pathway. If Homerun can use the Enduring system to provide thermal pre-treatment within the broader [Silica Valley infrastructure](#), the company may be able to improve energy efficiency and

reduce the need for traditional dedicated calcination infrastructure.

Homerun CEO Brian Leeners framed the announcement in exactly this integrated context: "When I first encountered the NRL Enduring System almost three years ago, it immediately presented as an opportunity to provide an integrated energy storage and silica purification strategy. Now after the combined testing with NRL and Anzaplan we have confirmed that view. Enduring calcination followed by acid leaching is the preferred pathway for achieving the +4N product at our Silica Valley Facilities. Homerun and its partners will now advance the CAPEX planning under both the traditional and Enduring-integrated configurations, which preserves operating flexibility while quantifying a potentially important capital and operating advantage. This reflects how the Homerun operating team and its partners continue to leverage strategic disruption to build an integrated value chain for silica purification into advanced materials for energy and tech."

BUILDING THE BRIDGE FROM 3N TO 5N

The announcement also reinforces the step-by-step structure of Homerun's development strategy:

- 1) First comes the [3N primary purification plant](#), designed for a minimum of 350,000 tpy of industrial-grade 99.9% SiO₂ silica sand. This plant is intended to provide the upstream base.
- 2) Next comes the +4N purification plant, which would move part of that purified material into a higher-value product category.
- 3) Beyond that, the company is positioning +4N silica as a feedstock for future 5N silica and [advanced materials development](#).

In other words: Homerun is building a vertically integrated silica value chain in Brazil, combining raw material supply, purification, energy storage, solar glass and advanced silica materials into a unified industrial platform.

NEXT STEP: CAPEX DEFINITION

The next major milestone will be the definition of CAPEX cases for the +4N plant. Homerun stated that further updates will follow as process design, mass balance, equipment definition and CAPEX planning advance toward a clearer development framework.

For the market, that is the key point: The concept has been tested, the preferred pathway has been identified and the next phase is about translating that pathway into engineering, cost structure and plant configuration for a potential commercial operation.

BOTTOM LINE

Today's news is important because it connects several parts of Homerun's broader strategy into one clearer development pathway.

The 3N plant is designed to create the commercial foundation. The +4N plant is intended to move Homerun into higher-value silica products. The future 5N and advanced materials strategy depends on reliable high-purity feedstock. And the Enduring Energy Storage system could become the industrial heat and power backbone that supports the entire Silica Valley platform.

In simple terms: Homerun is defining the industrial blueprint for connecting its silica resources, energy storage technology, solar glass ambitions and advanced materials strategy into one integrated value chain.

The announcement further advances Homerun's [Silica Valley concept](#) toward a defined industrial development plan, with the +4N pathway now moving from technical validation into CAPEX planning.



PREVIOUS COVERAGE

Readers interested in further background and previous coverage of Homerun Resources Inc. can access additional reports here:

www.rockstone-news.com/companies/homerun-resources/

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All statements in this report, other than statements of historical fact, should be considered forward-looking statements. Much of this report is comprised of statements of projection.

Such statements involve known and unknown risks, uncertainties and other factors that may cause actual results or events to differ materially from those anticipated in these forward-looking statements. There can be no assurance that such statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements.

Forward-looking statements in this report include statements, interpretations, conclusions, strategic observations and analytical opinions regarding Homerun Resources Inc.'s silica purification strategy, the Santa Maria Eterna silica sand district, the planned 350,000 tonne per year 3N primary purification plant, the preferred +4N purification pathway, future +4N plant configurations, the potential development of 5N silica and advanced materials, the integration of the Enduring

Energy Storage system and the broader Silica Valley industrial strategy in Bahia, Brazil.

Forward-looking statements include expectations regarding the Company's ability to produce +99.99% SiO₂ (+4N) silica through calcination followed by acid leaching, the potential use of 3N feedstock from the planned primary purification plant, the technical significance of the Dorfner Anzaplan test work, the advancement of process design, mass balance, equipment definition and AACE Class 5 CAPEX development, and the potential comparison between traditional calcination and Enduring-integrated thermal pre-treatment configurations.

Forward-looking statements also include expectations regarding the potential role of +4N silica as a commercial product and as feedstock for future +99.999% SiO₂ (5N) silica and advanced materials development, the potential integration of thermal energy storage into silica purification, the potential operational, capital or efficiency advantages of the Enduring Energy Storage system, and the Company's ability to develop an integrated value chain combining high-purity silica, energy storage, solar glass and advanced silica materials.

Such statements are based on current expectations, test work, technical assumptions, management objectives and publicly disclosed information and are inherently subject to significant uncertainty.

Technical and Processing Risks: Statements regarding the preferred +4N processing pathway, including calcination followed by acid leaching, are forward-looking and based on test work, technical review and current process assumptions. There can be no assurance that the preferred pathway will perform as expected at pilot, demonstration or commercial scale, that target purity levels will be achieved consistently, or that recoveries, impurity removal, reagent consumption, energy requirements, equipment performance and operating conditions will correspond to current expectations.

CAPEX and Engineering Risks: Statements regarding process design, mass balance, equipment definition, AACE Class 5 CAPEX development and future +4N plant configurations are preliminary and subject to refinement. AACE Class 5 estimates are early-stage conceptual estimates and may vary materially as engineering advances. There can be no assurance that final capital costs, operating costs, construction timelines, equipment requirements or plant configurations will correspond to current estimates, expectations or analytical observations contained in this report.

Enduring Energy Storage Integration Risks: Statements regarding the potential integration of the Enduring Energy Storage system into Homerun's Silica Valley industrial facilities, including the use of silica sand as a thermal energy storage medium and the potential supply of industrial heat and power to purification operations, are forward-looking and subject to technical, engineering, integration and commercial risks. There can be no assurance that the Enduring system will be successfully integrated into the purification process, that it will reduce the need for traditional calcination infrastructure, or that it will deliver the anticipated capital, operating, energy efficiency or strategic advantages.

3N Feedstock and Upstream Dependency Risks: The planned +4N purification pathway is expected to use feedstock from Homerun's planned 350,000 tonne per year 3N primary purification plant. Any delay, cost increase, technical issue, permitting issue, financing constraint or operational challenge affecting the 3N plant could affect the timing, economics or feasibility of the +4N plant. There can be no assurance that the 3N plant will be completed, commissioned or operated as currently contemplated, or that it will produce feedstock meeting the specifications required for reliable +4N production.

5N and Advanced Materials Risks: Statements regarding future 5N silica, advanced materials development and higher-value product streams are

forward-looking and remain subject to additional research, testing, process development, engineering, customer qualification, market acceptance and financing. There can be no assurance that +4N silica will be successfully converted into 5N silica or advanced materials, that such products will meet commercial specifications, or that Homerun will be able to develop, finance, construct or operate downstream advanced materials facilities.

Commercialization and Market Risks:

Statements regarding commercial sales of +4N silica, higher-value silica products, solar glass, energy storage applications or advanced materials are forward-looking and subject to market demand, pricing, customer qualification, competition, substitution risk, supply chain conditions and broader industrial trends. There can be no assurance that Homerun will secure customers, offtake agreements, strategic partners or commercial margins sufficient to support the planned purification and advanced materials strategy.

Partnership and IP Risks: Statements regarding Dorfner Anzplan, the U.S. Department of Energy's National Renewable Energy Laboratory / National Laboratory of the Rockies, Alliance for Sustainable Energy, LLC, and related intellectual property arrangements are based on publicly disclosed information and management's current plans. There can be no assurance that these technical relationships, intellectual property rights or development partnerships will result in successful commercialization, cost advantages, additional financing, strategic transactions or long-term operational benefits.

Permitting, Construction and Execution

Risks: The development of purification plants, thermal energy storage infrastructure, solar glass facilities and related industrial operations in Bahia, Brazil will require permitting, engineering, procurement, construction, financing, skilled personnel, infrastructure access and regulatory compliance. There can be no assurance that permits will be obtained on expected timelines, that construction will proceed as planned, or

that Homerun will be able to execute its Silica Valley strategy without delays, cost overruns or operational challenges.

Financing and Strategic Development

Risks: Statements regarding Homerun's ability to advance CAPEX planning, build 3N, +4N or future 5N facilities, integrate energy storage, develop solar glass operations or execute a vertically integrated silica value chain are forward-looking and depend on the availability of capital, market conditions, strategic partnerships, project financing, regulatory approvals and corporate execution. There can be no assurance that the Company will secure sufficient financing on acceptable terms or at all, or that its broader Silica Valley strategy will be implemented as currently contemplated.

Author's Analysis and Interpretation

Risks: Statements in this report regarding the strategic significance of the +4N purification pathway, the potential value of Enduring Energy Storage integration, the importance of CAPEX planning, the move from 3N feedstock to +4N products and future 5N potential, and Homerun's broader positioning in high-purity silica, energy storage, solar glass and advanced materials represent the author's independent analysis and interpretation based on publicly available information. Such statements should not be interpreted as guarantees of technical success, commercial outcomes, financing results, shareholder value creation or future market performance.

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The marketing services agreement has since been extended and remains in effect as of the date of this report.

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Author Profile & Contact



Stephan Bogner
(Dipl. Kfm., FH)

Rockstone News & Research

Müligässli 1, 8598 Bottighofen, Switzerland
Phone: +41-71-5896911
Email: info@rockstone-news.com

Stephan Bogner studied Economics, with specialization in Finance & Asset Management, Production & Operations, and Entrepreneurship & International Law, at the International School of Management (Dortmund, Germany), the European Business School (London, UK) and the University of Queensland (Brisbane, Australia). Under Prof. Dr. Hans J. Bocker, Stephan completed his diploma thesis ("Gold In A Macroeconomic Context With Special Consideration Of The Price Formation Process") in 2002. A year later, he marketed and translated into German Ferdinand Lips' bestseller "Gold Wars". After working in Dubai's commodity markets for 5 years, he now lives in Switzerland and is the CEO of Elementum International AG specialized in the storage of gold and silver bullion in a high-security vaulting facility within the St. Gotthard Mountain in central Switzerland.

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