



HPQ's Phase 2 Fumed Silica Pilot Reactor Test Achieves Strong Operational Gains

Material from the first Phase 2 test has been sent to a leading global fumed silica manufacturer (under LOI) and to an independent university lab for analysis.

MONTREAL, Canada, August 20th, 2025 — [HPQ Silicon Inc.](#) ("HPQ" or the "Company") (TSX-V: [HPQ](#), OTCQB: [HPQFF](#), FRA: [O08](#)), a technology company driving innovation in advanced materials and critical process development, is pleased to announce the **completion of the first test in Phase 2** of **HPQ Silica Polvere Inc.'s (HSPI)** ^[1] proprietary **Fumed Silica Reactor (FSR)** pilot project, developed in partnership with its technology supplier [PyroGenesis Inc.](#) (TSX: [PYR](#), OTCQX: [PYRGE](#), FRA: [8PY1](#)).

Test #6, the first conducted as part of Phase 2, was completed on schedule. Material produced during this test has been delivered for analysis to two third-party laboratories. One is a global fumed silica manufacturer operating under an active Letter of Intent (LOI) as announced in our [July 9, 2024, release](#), and the other is a university laboratory.



Material produced during test 6 by the Fumed Silica Reactor (Image provided by PyroGenesis).



Operational Highlights from Test #6

The process improvements implemented between Test #5 and Test #6 yielded the following key operational gains:

1. **Reduced Start-Up Time:** The time required to bring the FSR to optimal operating conditions was reduced by 50 percent, potentially improving overall process efficiency
2. **Increased Throughput:** The number of semi-continuous batches doubled relative to the previous test, while total material output increased fivefold.
3. **Demonstrated Scalability:** The performance of Test #6 reinforces confidence in the scalability of HPQ's proprietary FSR process and its future transition to commercial-scale operations.

"These operational improvements represent a meaningful advancement in the development of our Fumed Silica Reactor technology," said Bernard Tourillon, President and CEO of HPQ Silicon Inc. and HPQ Silica Polvere Inc. "While third-party material analyses are pending, the gains demonstrated in Test #6 are a strong indication of the potential scalability and economic viability of our process. Reducing start-up time, increasing batch production, and significantly expanding output are critical milestones as we progress toward commercial deployment."

HPQ will provide further updates following receipt and review of the independent analysis results.

Other New; Related-Party Loan to Exercise Warrants of Quebec Innovative Materials Corp.

The Corporation is pleased to announce that it has entered into a loan agreement with a related party in the amount of **\$150,000**. The proceeds of the loan will be used by the Company to exercise **1,000,000 warrants of Quebec Innovative Materials Corp. (CSE: QIMC)** at an exercise price of \$0.15 per share, prior to their expiry on **August 30, 2025**.

The loan is for a term of **90 days**, is **unsecured**, bears **no interest**, and has **no link to the Company's assets**. On the redemption date, the lender may elect to convert the loan amount into units of HPQ. Each unit will consist of one (1) common share and one (1) warrant of the Company.

The units will be issued at a price equal to the Company's share price on the redemption date. Each warrant included in the unit will be exercisable at a price equal to **130% of the unit issue price** for a period of **two (2) years** from the date of issuance. Any securities issued pursuant to this conversion will be subject to a **statutory hold period of four (4) months and one (1) day** from the date of issuance.

The transaction remains subject to the approval of the **TSX Venture Exchange** and all other applicable regulatory authorities.

REFERENCE SOURCES

- [1] A wholly owned subsidiary of HPQ Silicon Inc., when technology supplier PyroGenesis announced its intention to exercise its option to acquire a 50% stake in HSPI in May 2024.

About HPQ Silicon



[HPQ Silicon Inc.](#) is a Quebec-based TSX Venture Exchange industrial issuer ([TSX-V: HPQ](#)) focused on innovation in advanced materials and critical process development. In partnership with its research and development partner **Novacium** — of which HPQ is a shareholder — the Company is advancing next-generation **silicon-based anode materials** (Gen3) for batteries, commercializing its **ENDURA+ lithium-ion cells**, and developing breakthrough **clean-hydrogen** and **waste-to-energy** technologies, for which HPQ holds exclusive North American rights.

HPQ is also pursuing proprietary technologies to become a low-cost, zero-CO₂ producer of **fumed silica** and **high-purity silicon**, with technical support from PyroGenesis Inc. Together, these initiatives position HPQ to capture growth opportunities in the energy storage, clean hydrogen, and advanced materials markets essential to achieving global net-zero goals.

For more information, please visit [HPQ Silicon web site](#).

About PyroGenesis Inc.

PyroGenesis, a high-tech company, is a proud leader in the design, development, manufacture and commercialization of advanced plasma processes and sustainable solutions which reduce greenhouse gases (GHG) and are economically attractive alternatives to conventional “dirty” processes. PyroGenesis has created proprietary, patented and advanced plasma technologies that are being vetted and adopted by multiple multibillion dollar industry leaders in four massive markets: iron ore pelletization, aluminum, waste management, and additive manufacturing. With a team of experienced engineers, scientists and technicians working out of its Montreal office, and its 3,800 m² and 2,940 m² manufacturing facilities, PyroGenesis maintains its competitive advantage by remaining at the forefront of technology development and commercialization. The operations are ISO 9001:2015 and AS9100D certified, having been ISO certified since 1997. PyroGenesis’ shares are publicly traded on the TSX in Canada (TSX: PYR), the OTCQX in the US (OTCQX: PYRGF), and the Frankfurt Stock Exchange in Germany (FRA: 8PY). www.pyrogenesis.com

Cautionary Note Regarding Forward-Looking Information

This press release contains “forward-looking information” and “forward-looking statements” within the meaning of applicable securities legislation (collectively, “forward-looking statements”), including, but not limited to, statements relating to future financial or operating events or future performance of the Company, and reflecting management’s expectations and assumptions regarding the Company’s growth, results, performance, and business prospects and opportunities. Such forward-looking statements reflect management’s current beliefs and are based on information currently available to it. In some cases, forward-looking statements can be identified by words such as “aim”, “anticipate”, “aspire”, “attempt”, “believe”, “budget”, “could”, “estimate”, “expect”, “forecast”, “intend”, “may”, “mission”, “plan”, “potential”, “predict”, “progress”, “outlook”, “schedule”, “should”, “study”, “target”, “will”, “would” or the negative of these terms or other similar expressions concerning matters that are not historical facts.

In particular, forward-looking statements include, but are not limited to, the Company’s ability to develop its low-cost (Capex and Opex) manufacturing of Fumed Silica using its Fumed Silica Reactor (FSR) and enter in commercial production within the timeline, to provide high-performing and reliable advanced materials while promoting sustainability and supply chain traceability, and to position its fumed silica operation in the capital markets, the expected results of the initiatives described in this press release, and those statements which are discussed under the “About HPQ Silicon” paragraph and elsewhere in the press release which essentially describe the Company’s outlook and objectives.

Additionally, the forward-looking statements include, but are not limited to, the Company’s future results, the intended pilot plant testing and timeline of the Fumed Silica Reactor commercial scale up, the economic performance and product development efforts, as well as the Company’s expected achievement of milestones, including the ability to conclude an offtake agreement and obtain sufficient financing for the future development on favorable terms for the Company.

Further, these forward-looking statements include the Company's ability to achieve its Fumed Silica strategy and its intended results, market trends, the consumer demand for materials, the Company's competitive advantages, macroeconomic conditions, the impact of applicable laws and regulations, and any information as to future plans and outlook for the Company are or involve forward-looking statements.

Forward-looking statements are based on estimates and assumptions that, while considered reasonable by the Company at the time of such statements, are inherently subject to significant business, economic, and competitive uncertainties and contingencies. These estimates and assumptions are not guarantees of future performance and may prove incorrect. These statements rely on various factors, including current technological trends, safe and effective operations, timely delivery and installation of future production equipment at estimated prices, assumed Fumed Silica sale prices, future exchange and interest rates, political and regulatory stability, commodity prices and production costs, the receipt of necessary approvals, licenses, and permits on favorable terms, sustained labor stability, financial and capital market conditions, availability of critical supplies and equipment, tax assumptions, CAPEX and OPEX estimates, economic and operational projections, local infrastructure, and overall business prospects. Forward-looking statements are also subject to risks, uncertainties, and other factors that may cause actual results to differ materially, including the outcome of development, engineering, and planning activities, market conditions, competition, pricing pressures, risks inherent to mining exploration and development, the commercial viability of the Company's technology, project timelines, business continuity challenges, geopolitical instability, and other industry risks. Additionally, there can be no assurance that the conditions precedent of offtake agreements, product qualification requirements, and commercial operations will be met, nor that the Company will fulfill the expectations of financing partners and certifying bodies.

Forward-looking statements are subject to known or unknown risks and uncertainties that may cause actual results to differ materially from those anticipated or implied in the forward-looking statements. Risk factors that could cause actual results or events to differ materially from current expectations include, among others, delays in the scheduled delivery times of the equipment, the ability of the Company to successfully implement its strategic initiatives and whether such strategic initiatives will yield the expected benefits, the availability of financing or financing on favorable terms for the Company, the dependence on commodity prices, the impact of inflation on costs, the risks of obtaining the necessary permits, the operating performance of the Company's assets and businesses, competitive factors in the graphite mining and production industry, changes in laws and regulations affecting the Company's businesses, political and social acceptability risk, environmental regulation risk, currency and exchange rate risk, technological developments, as well as earnings, capital expenditure, cash flow and capital structure risks and general business risks. A further description of risks and uncertainties can be found in HPQ's Annual Information Form dated March 21, 2025, including in the section thereof captioned "Risk Factors", which is available on SEDAR+ at www.sedarplus.ca Unpredictable or unknown factors not discussed in this Cautionary Note could also have material adverse effects on forward-looking statements.

Although the Company has attempted to identify important factors that could cause actual results to differ materially from those contained in forward-looking statements, there may be other factors that may cause results not to be as anticipated, estimated or intended. There can be no assurance that forward-looking statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such statements. Forward-looking statements are provided for the purpose of providing information about management's expectations and plans relating to the future. The Company disclaims any intention or obligation to update or revise any forward-looking statements or to explain any material difference between subsequent actual events and such forward-looking statements, except to the extent required by applicable law.

Market and industry data presented throughout this press release was obtained from third-party sources and industry reports, publications, websites and other publicly available information, as well as industry and other data prepared by the Company or on the behalf of the Company based on the Company's knowledge of the markets in which the Company operates, including information provided by suppliers, partners, customers and other industry participants.

The Company believes that the market and economic data presented throughout this press release is accurate as of the date of publication and, with respect to data prepared by the Company or on behalf of the Company, that estimates and assumptions are currently appropriate and reasonable, but there can be no assurance as to the accuracy or completeness thereof. The accuracy and completeness of the market and economic data presented throughout this press release are not guaranteed and the Company does not make any representation as to the accuracy of such data.



Actual outcomes may vary materially from those forecast in such reports or publications, and the prospect for material variation can be expected to increase as the length of the forecast period increases. Although the Company believes it to be reliable as of the date of publication, the Company has not independently verified any of the data from third-party sources referred to in this press release, analyzed or verified the underlying studies or surveys relied upon or referred to by such sources, or ascertained the underlying market, economic and other assumptions relied upon by such sources. Market and economic data are subject to variations and cannot be verified due to limits on the availability and reliability of data inputs, the voluntary nature of the data gathering process and other limitations and uncertainties inherent in any statistical survey.

Further information regarding the Company is available in the SEDAR+ database (www.sedarplus.ca), and on the Company's website at: www.hpqsilicon.com

Neither the TSX Venture Exchange nor its Regulation Services Provider (as that term is defined in the policies of the TSX Venture Exchange) accepts responsibility for the adequacy or accuracy of this release.

This News Release is available on the company's [CEO Verified Discussion Forum](#), a moderated social media platform that enables civilized discussion and Q&A between Management and Shareholders.

Source: HPQ Silicon Inc.

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