



HPQ AND NOVACIUM SIGN MOU WITH U.S. BASED ECELLIX INC, A SILICON-DOMINANT ANODE DEVELOPER AND MANUFACTURER

MONTREAL, Canada, November 28th, 2023 — HPQ Silicon Inc. (“HPQ” or the “Company”) (TSX-V: HPQ) (OTCQB: HPQFF) (FRA: O08), a technology company specializing in green engineering of silica and silicon-based materials and its affiliate Company based in Lyon, France, NOVACIUM SAS (“Novacium”) have signed a Memorandum of Understanding (“MOU”) with U.S.-based silicon-dominant anode developer and manufacturer [Ecellix Inc.](#)

Ecellix Inc. is a cleantech company based in Seattle WA that has developed eCell™, an ultra-high-capacity porous silicon-carbon anode material that enables a new class of Li-ion batteries that offer significantly higher energy density than today’s industry standard batteries. The eCell technology presents an easy-to-scale solution that is adaptable to a wide variety of battery formats, applications & specifications. At scale, Ecellix is positioned to be the low-cost market leader (\$/kWh) in the expanding global advanced battery anode material sector.

“This MOU marks a significant step for HPQ,” said Mr. Bernard Tourillon, President and CEO of HPQ Silicon Inc. and NOVACIUM SAS. *“We are excited to have this opportunity to partner with a cleantech sector leader like Ecellix to explore how we can integrate our innovative silicon technologies into Ecellix’s vision to build a Gigafactory in the near future.”*

“This MOU presents an incredible opportunity to progress Ecellix’s mission of providing innovative and cost-effective clean energy storage solutions.” said Jerry Schwartz, Founder and CEO of Ecellix, Inc. *“HPQ Silicon and NOVACIUM SAS are global leaders in the renewable energy sector, and we look forward to partnering with them to advance their innovative technologies.”*

“Our goal is to position HPQ Silicon and Ecellix at the forefront of the energy storage revolution by supplying cutting-edge silicon base materials for next-generation batteries,” added Mr. Tourillon and Mr. Schwartz. *“This collaboration is a significant step towards achieving this joint vision.”*

The signed MOU provides a framework and pathway for HPQ and Novacium to become:

- I. Ecellix Silicon Technology Partner producing the Silicon material needed for the Ecellix battery manufacturing process, and
- II. The dedicated Silicon material supplier deploying scalable manufacturing facilities near Ecellix planned Gigafactory locations.

Over the coming months, HPQ and Novacium will be focusing on:

- I. Manufacturing material to ascertain its alignment with Ecellix requirements,
- II. Testing Ecellix material's properties for potential enhancements using Novacium patented “carbon layer surface treatment.”

“Through this process, we aim to enhance the quality and efficiency of silicon anode material production, a key component in battery manufacturing. This will play a vital role in meeting the growing demand for energy storage solutions,” said Mr. Jed KRAIEM PhD, Novacium Chief Operating Officer (“COO”).



“The world needs better batteries, and no one company will do this on their own. It will take dedicated collaboration from experts in numerous fields to bring this change. We’re thrilled to enter this MOU that will bring together the materials expertise of HPQ with our ground-breaking approach to silicon anodes,” said Dr. Geoff Deane, Ecellix Chief Technology Officer (CTO).

About NOVACIUM SAS:

Novacium is green technology startup based in Lyon, France started in Q3 2022. It is the result of a partnership between three of France’s leading research engineers, Mr. Jed KRAIEM PhD, COO, Mr. Oleksiy NICHIPORUK PhD, CTO, and Mr. Julien DEGOULANGE PhD, CIO, who founded Novacium as a new research and development company focused on developing renewable energy technologies, including partnering with HPQ Silicon Inc, a Canadian company, to develop new silicon technologies and other renewable energy projects.

For more information, please visit the [Novacium website](#).

About HPQ Silicon Inc.:

[HPQ Silicon Inc. \(TSX-V: HPQ\)](#) is a Quebec-based TSX Venture Exchange Tier 1 Industrial Issuer.

HPQ is developing, with the support of world-class technology partners [PyroGenesis Canada Inc.](#) and [NOVACIUM SAS](#), new green processes crucial to make the critical materials needed to reach net zero emissions.

HPQ activities are centred around the following four (4) pillars:

- 1) Becoming a green low-cost (Capex and Opex) manufacturer of Fumed Silica using the **FUMED SILICA REACTOR**, a proprietary technology owned by HPQ being developed for HPQ by PyroGenesis.
- 2) Becoming a zero CO₂ low-cost (Capex and Opex) producer of High Purity Silicon (2N+ to 4N) using our **PUREVAP™ “Quartz Reduction Reactors” (QRR)**, a proprietary technology owned by HPQ being developed for HPQ by PyroGenesis.
- 3) Becoming a producer of silicon-based anode materials for battery applications with the assistance of NOVACIUM SAS.
- 4) HPQ SILICON affiliate NOVACIUM SAS is developing a low carbon, chemical base on demand and high-pressure autonomous hydrogen production system.

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

About Ecellix, Inc.:

Ecellix, Inc. is a VC-backed cleantech company based in Seattle WA that has developed an high-capacity nano-porous silicon-carbon anode material called eCell™. Deployment of the eCell™ technology will enable a new generation of enhanced range EVs and mobility applications and extended use consumer devices, power tools and residential energy storage. At scale, Ecellix is positioned to be the low-cost market leader (\$/kWH) in the expanding global advanced battery anode material sector.



Ecellix eCell Advantage:

1. Innovation: Integration of eCell silicon anode materials as a replacement for graphite will enable up to a 30% increase in cell energy capacity or 30% a reduction in battery pack volume & weight.
2. Performance: Ecellix's nano-porous silicon / carbon composite anode materials combined with novel electrolyte offers unprecedented battery cycle life, up to 150% that of alternative technologies
3. Adaptable: Drop-in replacement into established battery manufacturing tooling & processes. Platform and application agnostic – can be implemented in multiple form factors to suit partner/customer requirements.
4. Pricing: Targeting price parity with today's lower energy density graphite anodes with opportunity for future reduction through simplified precursors and processes
5. Cost: At scale, potential for cost reduction and simplified production processes.

For more information, please visit the [Ecellix website](#).

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