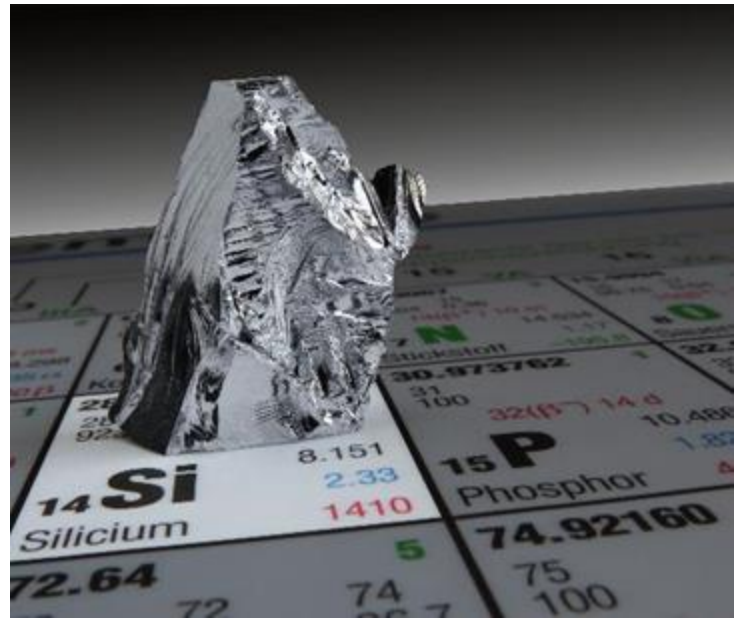
HPQ SILICON



Driving Innovation in Advanced Materials and Critical Process Development

HPQ LISTED TSXV

OTCQB HPQFF

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HPQ Silicon Inc. is a technology company focused on re-engineering key manufacturing processes: 1) Fumed Silica Reactor (FSR): Developing a new plasma process for the direct transformation of Quartz into Fumed Silica; 2) Silicon-Based Anode Materials: Advancing next-generation materials for battery applications; 3) Autonomous Hydrogen Production: Creating a low-carbon, chemical-based system for on-demand, high-pressure hydrogen production via silicon hydrolysis; 4) Black Aluminium Dross Recycling: Innovating a process to convert black aluminium dross into a valuable resource, and 5) PUREVAP™ Quartz Reduction Reactor (QRR): Developing a novel carbothermic process to convert Quartz into green Silicon (patent granted in the United States and pending in other jurisdictions). HPQ collaborates with leading technology partners to advance its technology portfolio while maintaining a strong commitment to sustainability and efficiency. Projects 1 and 5 are developed in collaboration with PyroGenesis Inc., while projects 2, 3, and 4 are pursued in partnership with our affiliated company, NOVACIUM SAS.

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Executive Summary: Advancing Materials Manufacturing for a Sustainable Future

HPQ – Near-Term Commercialization Ventures

Technologies Co-Developed with Leading Innovation Partners

PYROGENESIS

NOVACIUM MATERIA FUTURA

Fumed Silica

Product:	Specialized powder additive with large industrial uses
Market:	US $2.0B (2024) → $3.4B (2034) [1]
Opportunity:	Traditional process has Large muti billion $ Capex, with large footprint - Low EBITDA margins ~ 20% -Massive CO_2 footprint Barriers to entry high / small of producers / all large chemical Co
Solution:	The FSR, a new proprietary. One Step process – Resulting in Low Capex & Opex EBITDA margins significantly higher than traditional process ~ 20% Very small CO_2 footprint Modular process that Eliminates barriers to entries

Commercial production end of 2025, + Strategic Offtake and/or Licensing Agreements

Silicon Battery Materials

Product:	Engineered Silicon based anode materials for Li-Ion-graphite batteries
Market:	**US$ 38 B by 2030** [1]
Opportunity:	Legacy Silicon based manufacturing Inefficient batch process that needs multiple steps from Si to Engineered Silon based material high Opex / High Capex
Solution:	A new proprietary semi continuous process to go from Si to Engineered Silicon base anode material Same Capex / lower Opex Scalable process Using QRR Si as feedstock will reduce CO_2 footprint

Commercialisation: end of Q3 2025

Autonomous H2 Production

Product:	Autonomous and on demand Hydrogen production
Market:	**US$ 648 B by 2030** [2]
Opportunity:	Traditional Hydrogen supply chain is expensive, technically challenging, and dangerous Capex (Billions) High Opex Massive barriers to entry
Solution:	A new hydrogen pressurized autonomous production system that uses a chemical process to liberate Hydrogen from specific low-cost, low carbon and non-hazardous alloys

First commercial protype :
End 2025 – Q1 2026

An innovative process for a Supply Critical Everyday Materials: Fumed Silica

The Fumed Silica Reactor (FSR)

A proprietary One step process to make Fumed Silica directly from Quartz

Fumed Silica: HPQ Nears Production with High-Value Market Opportunity

Fumed Silica – What It Is & Why It Matters

What is Fumed Silica?

A **high-performance industrial powder** with **exceptionally high surface area**, delivering unique material properties.

Key Functional Roles:

- Thickening agent
- Anti-caking / anti-settling additive
- Thixotropic modifier *(e.g., in ketchup, sealants, adhesives)*

HPQ Fumed Silica produced with Pilot Plant

Industries Using Fumed Silica:

- ✓ Paints & coatings
- ✓ Adhesives & sealants
- ✓ Cosmetics & pharmaceuticals
- ✓ Food industry
- ✓ Batteries (enhanced safety, electrolyte stability, dendrite suppression)

No viable substitutes due to unique performance profile

Fumed Silica Market Opportunity

GLOBAL MARKET OPPORTUNITY & STRATEGIC GAP

Market Growth:

Global: **US $2.0B (2024) → US $3.4B (2034)** *(CAGR: 5.4%)* [1]

USCA US & Canada: **US $411M (2024) → US $587M (2034)** [2]

Canadian Supply

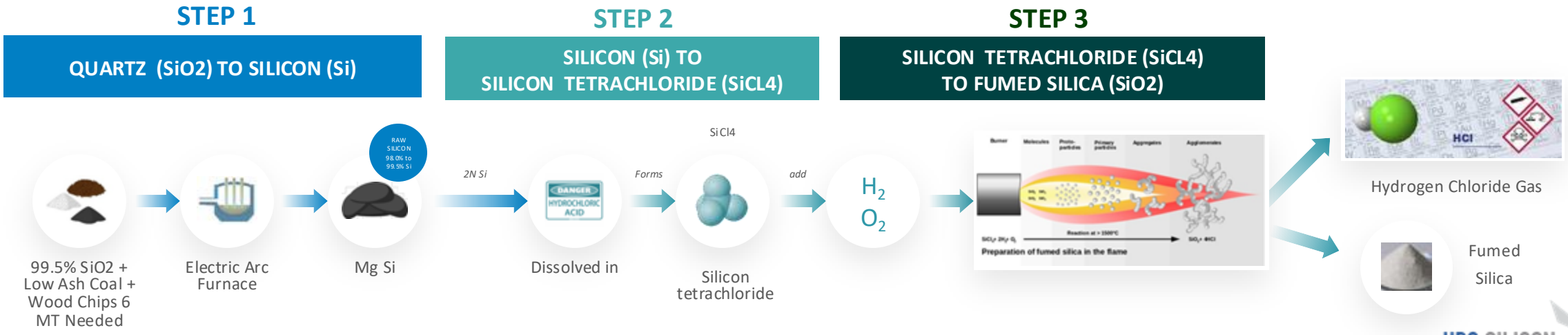
No domestic production capacity

CA Imports: **20,000–24,000 tonnes/year**

Annual import market: **~US $200M** [3]

Conventional Production = Growth Bottleneck

Multi-step → Capital intensive → Low margins (~20%) - High environmental footprint: **HCl & CO_2 emissions**



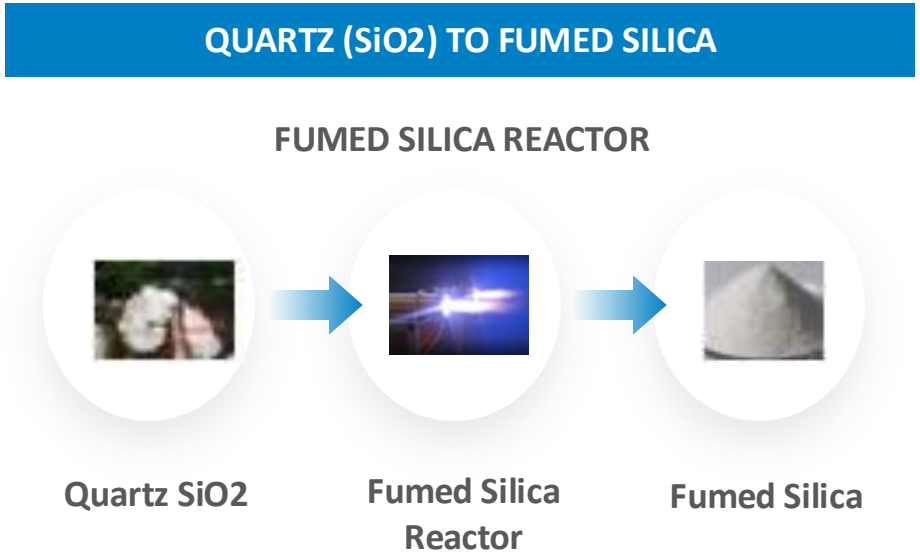
HPQ Fumed Silica Opportunity

HPQ'S DISRUPTIVE SOLUTION

We are pioneering a **low-cost, one-step, eco-efficient process** to produce fumed silica — replacing legacy methods with a cleaner, smarter alternative.

OUR COMPETITIVE EDGE

- ✅ **Direct Quartz-to-Fumed Silica Process**
  → **Drastically reduces CAPEX & OPEX**
- ✅ **+70% Projected Gross Margins** [1]
  → Margin profile radically above industry average
- ✅ **Lower Energy Use & CO_2 Emissions**
  → Sustainability built into the core process
- ✅ **No HCl Byproduct**
  → Simplified permitting & safer operations
- ✅ **Modular, Scalable & Re-shoring Ready**
  → Aligned with North American industrial policy



[1] Forward-Looking Statement: Management estimates, based on projections provided by our technology partner, will be updated following the completion of the pilot plant phase. Investors should refer to the cautionary statements on page 2.

HPQ POLVERE FUMED SILICA REACTOR: *A Paradigm Shift in Fumed Silica Manufacturing*

2021 – 2022
The idea is born:
Can we commercially produce fumed silica directly from quartz?

2023
Concept Validated at lab scale / commercial-grade fumed silica directly from quartz produce

2024
Pilot Plant manufacturing, assembly & commissioning.
Pre-offtake agreement signed with **Evonik Corporation, the Global leader in the FS market**

2025
Pilot Plant scale up **validation, production of commercial grade fumed silica at batch scale, then at semi-continuous scale.**
negotiation formal offtake with Parties under LOI & NDA

2026 – and beyond
Scaling Toward Commercial Production
Begin work on **modular 1,000 TPY (tonnes per year) commercial-scale design**
Leverage pilot plant data to optimize performance, cost, and environmental efficiency
Strategic Goal:

- Deploy **first 1,000 TPY commercial fumed silica plant by 2028** [1]
- Modular design enables staged growth, cost control, and rapid deployment near end-users

✅ **FSR system now operating under batch protocol – replicating lab-scale results**

KEY UPCOMING CATALYSTS for 2025

- **Producing materials with surface areas of 150 – 200 m²/g**
- **Samples distribution to third parties under LOI and NDA**
  → Staring strategic development collaboration, and potential offtake and discussions
- **Process optimization implementation to target high-value food/pharma grades** →Targeting surface areas **>300 m²/g**
  → Key applications in **cosmetics and personal care** – a segment projected to drive **30% of total fumed silica demand by 2032**[1]
- **FSR pilot operations transitioning to semi-continuous**– Initial target: **200 kg** of commercial-grade fumed silica
- **FSR pilot plant transitioning to commercial operations:** Projected throughput: **161 kg/day** → **50,000 kg annually** (50 TPY)
  → Achieving multiple daily production cycles of commercial-grade material

🎯 🚀 **Goal: Secure binding offtake or other agreements that will allow fast-tracking commercialization of FSR plants**

FROM PILOT TO PLANT: HPQ's Rapid Fumed Silica Scale-Up Timeline

PROJECT	2025	2026	2027	2028
FUMED SILICA REACTOR (FSR)	FSR Pilot plant testing & validation of technology	Optimizing operations - commercial production of Fumed Silica with pilot plant Engineering studies regarding building 1,000 TPY FSR All aspects related to the Construction – Commissioning of 1000 TPY FSR commercial plants		Fumed Silica production from our first of many 1,000 TPY FSR plants

Commercialization Strategy

1. **Capture Domestic Market Share**
   - **Canada lacks domestic fumed silica production**
   - **HPQ** targets **50% market share** of the **~US$200M/year Canadian market -** Equivalent to **~10,000 TPY** demand
   - Strategic advantage: **Onshore production**, reduced import dependency, and shipping cost savings
2. **Leverage Canadian Innovation for Government Support**
   - Promote **low-emission, one-step process** as a **Canadian cleantech solution** Align with:
     - CA Industrial decarbonization strategy / Clean technology innovation funding programs / Critical materials independence
3. **Capture US Market Share by offering a US based Fumed Silica production to replace imported materials**
   - **HPQ** targets **20% market share** of the **~US$300M/year US market -** Equivalent to **~6,000 TPY** demand
   - Strategic advantage: **Onshore production**, reduced import dependency, and shipping cost savings
4. **Leverage Innovation for Local State Support**
   - Promote **low-emission, one-step process** as a **solution** Align with reshoring goals / Critical materials independence

Goal: **Secure public funding** to accelerate plant deployment and scale

HPQ SILICON

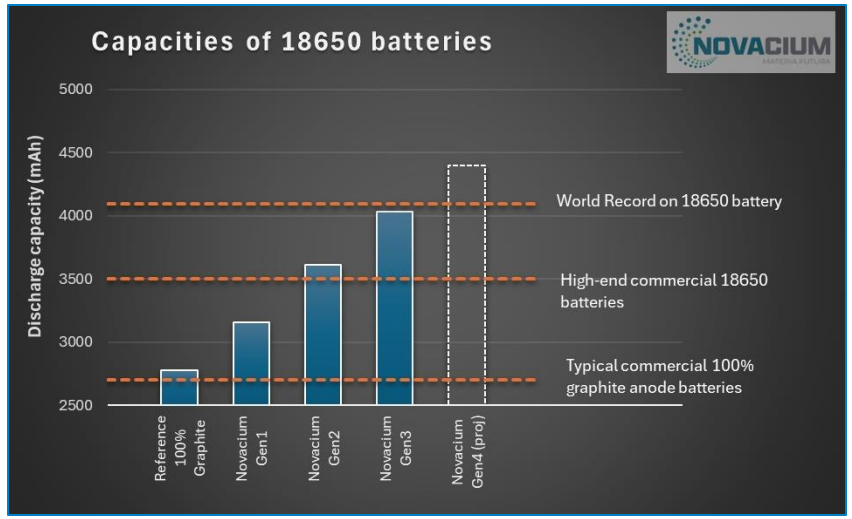
ADVANCING SILICON-BASED BATTERY MATERIALS & CELLS MANUFACTURING

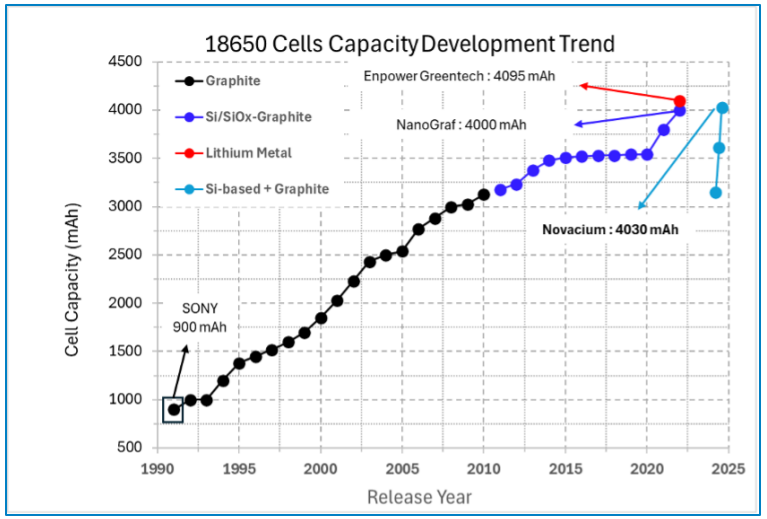
1. **Silicon-Based Battery Materials**
   - Developing Engineered Silicon Anode Materials Optimized for Industrial Integration
2. **Industrial Launch of 18650 & 21700 Cells Manufacturing With Novacium Silicon Anode Technology**

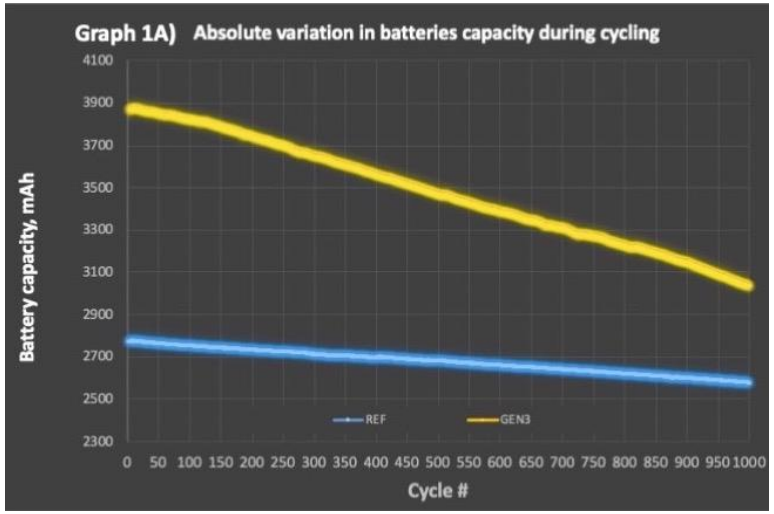
SILICON IN BATTERY ANODES: POSITIVE TEST RESULTS CONTINUE

HPQ and Novacium: rapidly developing cutting-edge advanced Silicon-Based anode materials for batteries

- The material's ability to enhances battery performance, and seamlessly integrated into 18650 - 27100 batteries proven
- Test results at 1,000 cycles confirm material's performance







The graph above shows the energy capacity of different 18650 batteries, in milliampere-hours (mAh), starting on the left with the 100% graphite benchmark batteries, moving right to Novacium materials batteries with actual GEN1, GEN2 and GEN3 results [1] and potential capacity of 18650-battery made with GEN4 materials [2].

The chart illustrates the historical progression of **18650 lithium-ion battery capacity** over time [2], highlighting the **accelerated advancement achieved by HPQ–Novacium**. In just **one year**, our materials have matched or exceeded performance gains that traditionally took **multiple years of industry evolution**.

Top Graph 1a) - average capacity of 100% graphite & GEN3 batteries (the Blue & Yellow lines) over 1,000 cycles [1], in mAh.

Two Major Addressable Markets for HPQ Battery Materials

3C Battery Market *(Computing, Communication & Consumer Electronics)*

- Projected to reach **US$38.8 billion by 2030**
- Growing at a **6.4% CAGR (2024–2031)** [2]

Advanced Silicon-Based Anode Materials

- Estimated addressable market between **US$27.5B & US$55.0B by 2030** [3]

HPQ SILICON – NOVACIUM ENGINEERING SILICON FOR BATTERY ANODES

NOVACIUM – KEY BATTERIES ACHIEVEMENTS TO DATE

✅ Developed **Engineered Silicon Anode Material for Industrial Integration**

- Seamlessly compatible with **existing battery manufacturing lines**, eliminating costly process redesigns

✅ **GEN3 Material Breakthrough**

- Third-generation silicon-based anode **exceeds 4,000 mAh**, significantly outperforming graphite benchmarks

✅ **High-Performance 18650 Cell Validation**

- GEN3-powered 18650 batteries deliver **3,000 mAh** capacity over 1,000 cycles
- Maintain **80% retention after 1,000 cycles** — combining **energy density + durability** [1][2]

✅ **INDUSTRIAL PRODUCTION LAUNCH – SILICON-DOPED HIGH-PERFORMANCE BATTERIES**

- Initiating commercial production of **18650 and 21700 cells** incorporating seamlessly **Novacium's silicon-doped anode material**
- Fast-tracked due to strong inbound interest from the **mobility, consumer electronics, telecommunications,** and **defense** sectors
- Active engagement with an industry player operating **tens of millions of cells in annual production capacity**

WHILE HPQ IS THE EXCLUSIVE NORTH AMERICAN LICENSEE OF NOVACIUM'S BATTERIES TECHNOLOGIES IT HAS ALSO ACHIEVED THESE KEY BATTERY MILESTONES:

✅ **Filed Patent Application**

- Covers HPQ's proprietary **high-throughput process** for manufacturing engineered **silicon-based anode materials**

✅ **Advancing Continuous Advanced Silicon-based material Production**

- Ongoing discussions with multiple **technical and financing partners**
- Targeting scalable, low-cost **Silicon-based material** output for next-generation battery applications

NOVACIUM
MATERIA FUTURA

Innovative Hydrolysis based Hydrogen processes:

1. METAGENE™

Autonomous H2 Production Solution

2. WASTE TO ENERGY (W2E)

Using black aluminum dross waste to generate Hydrogen

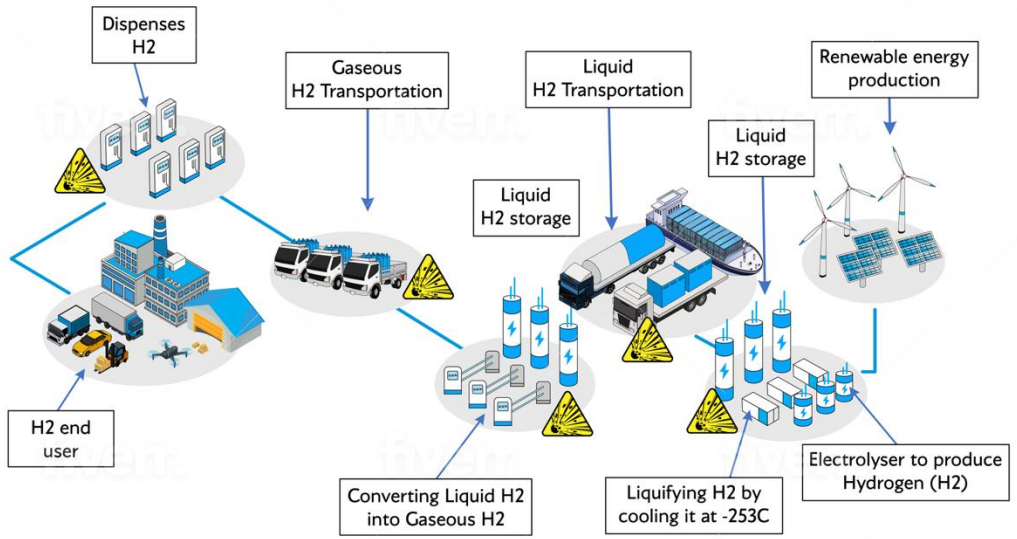
METAGENE™ AUTONOMOUS GREEN HYDROGEN

HARNESSING ON-DEMAND GREEN HYDROGEN — WITHOUT THE LIMITATIONS

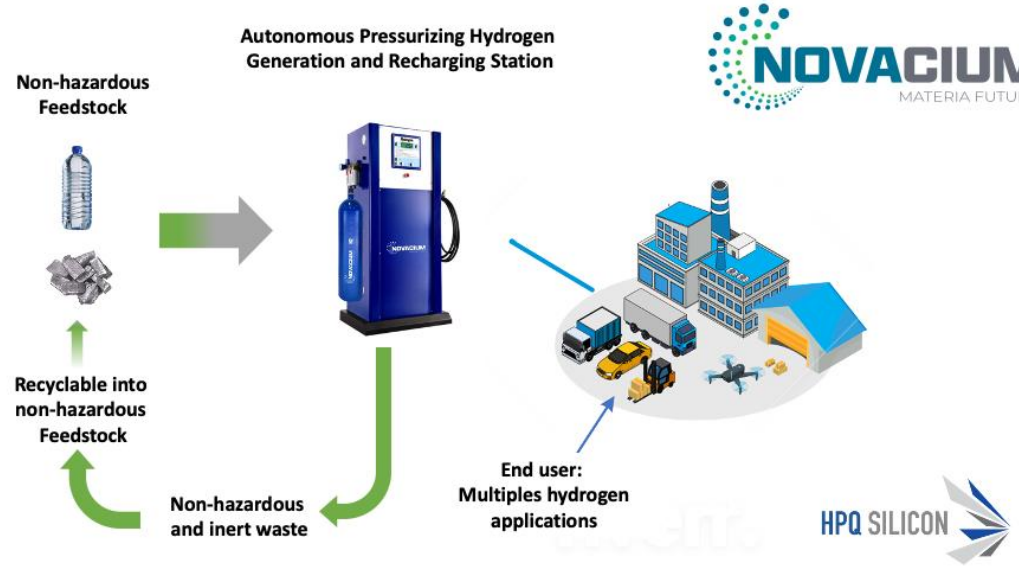
Addressing the Three Core Barriers:

- ⚡ **Storage** – Producing hydrogen at point-of-use eliminates the need for high-pressure or cryogenic storage
- 🚚 **Transport** – On-site generation removes the cost and complexity of hydrogen distribution logistics
- 💰 **Cost** – Simplified, modular systems lower both capital and operating expenditures

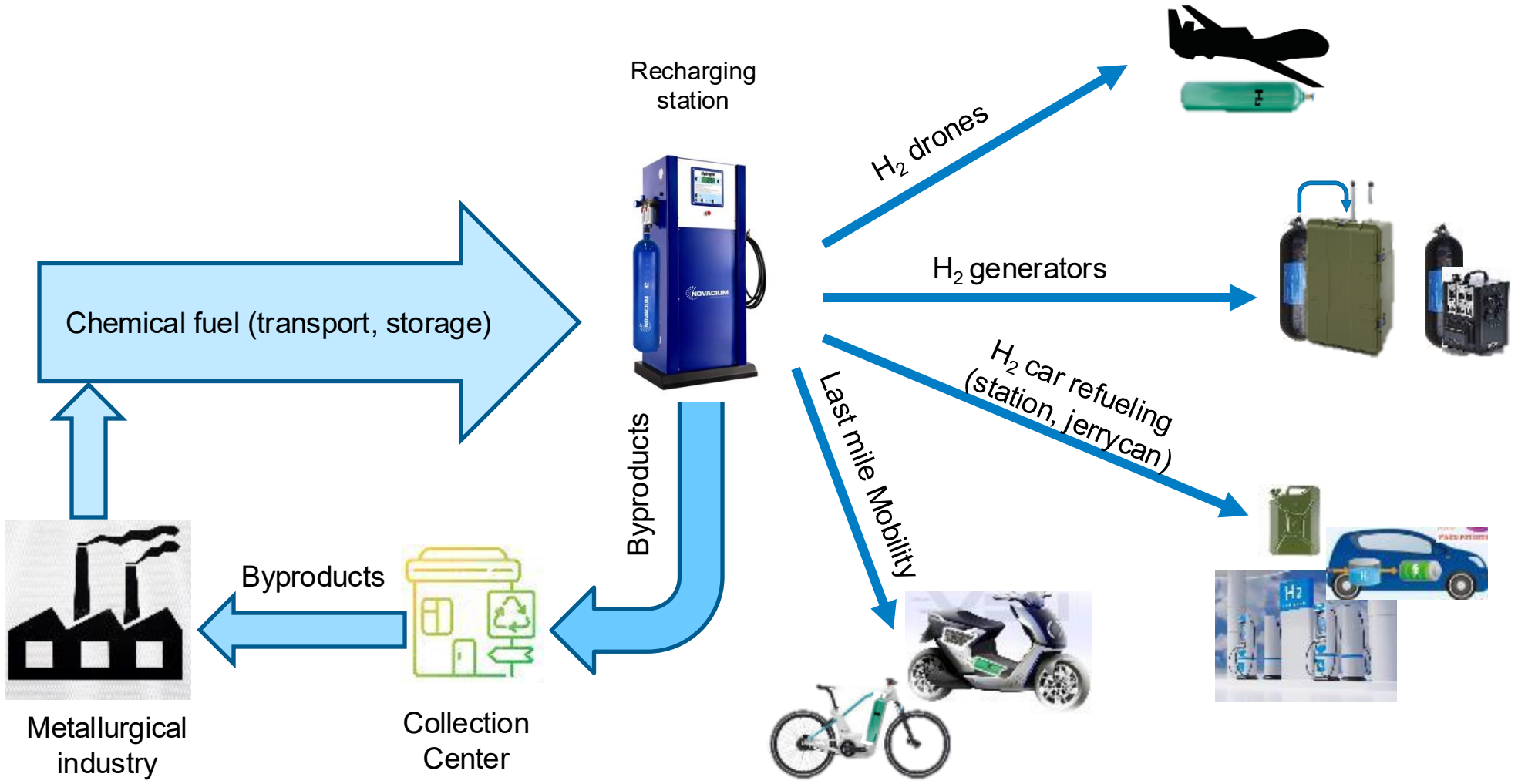
Navigating Today Hydrogen Supply Chain:
An Expensive, Challenging and complex Journey !



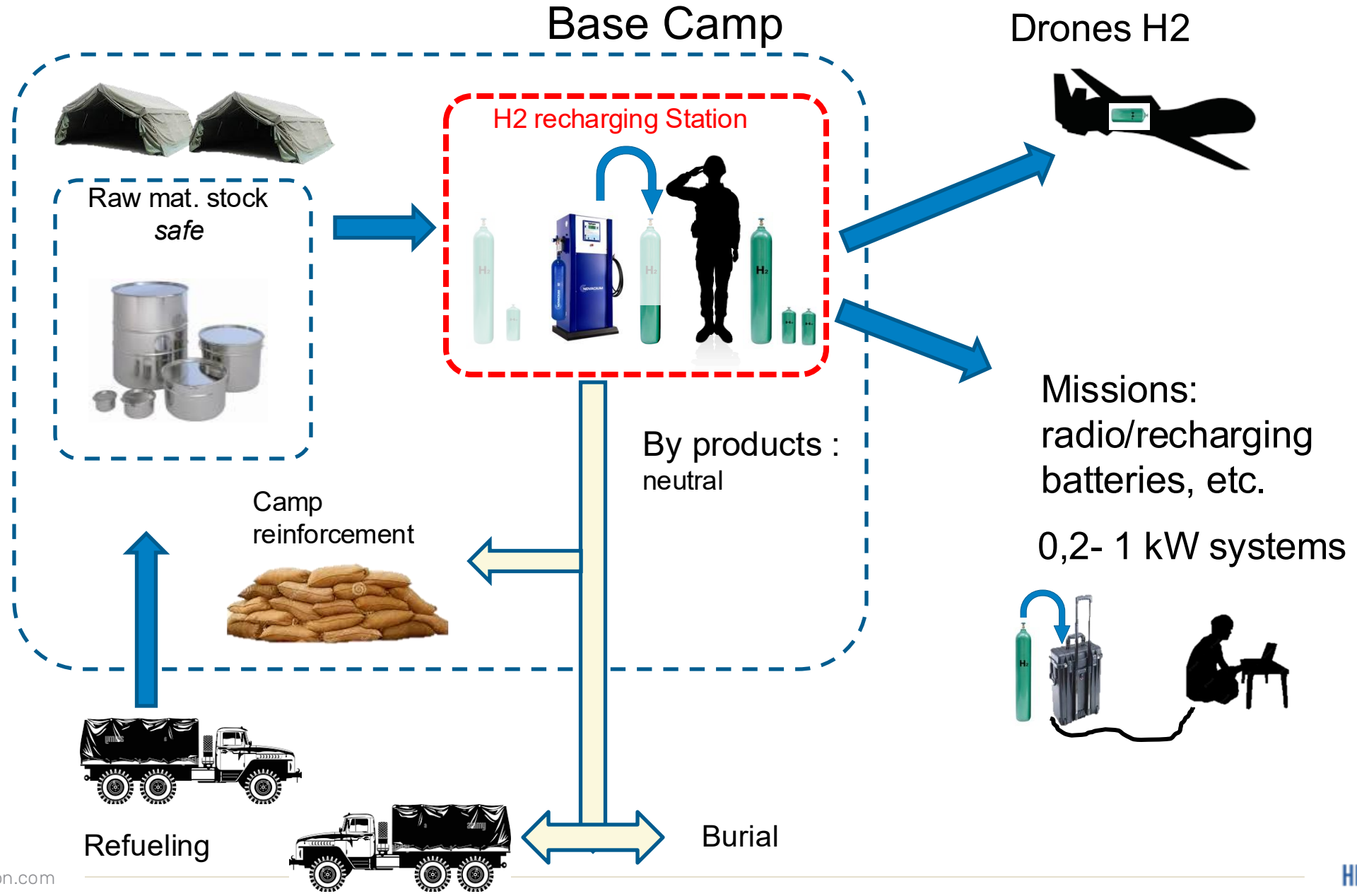
Re-imagining the Hydrogen Supply Chain: Towards an Autonomous, Decentralized, and Safer Journey !



METAGENE™ : Potential Civilian utilization



METAGENE™ : Potential Military utilization

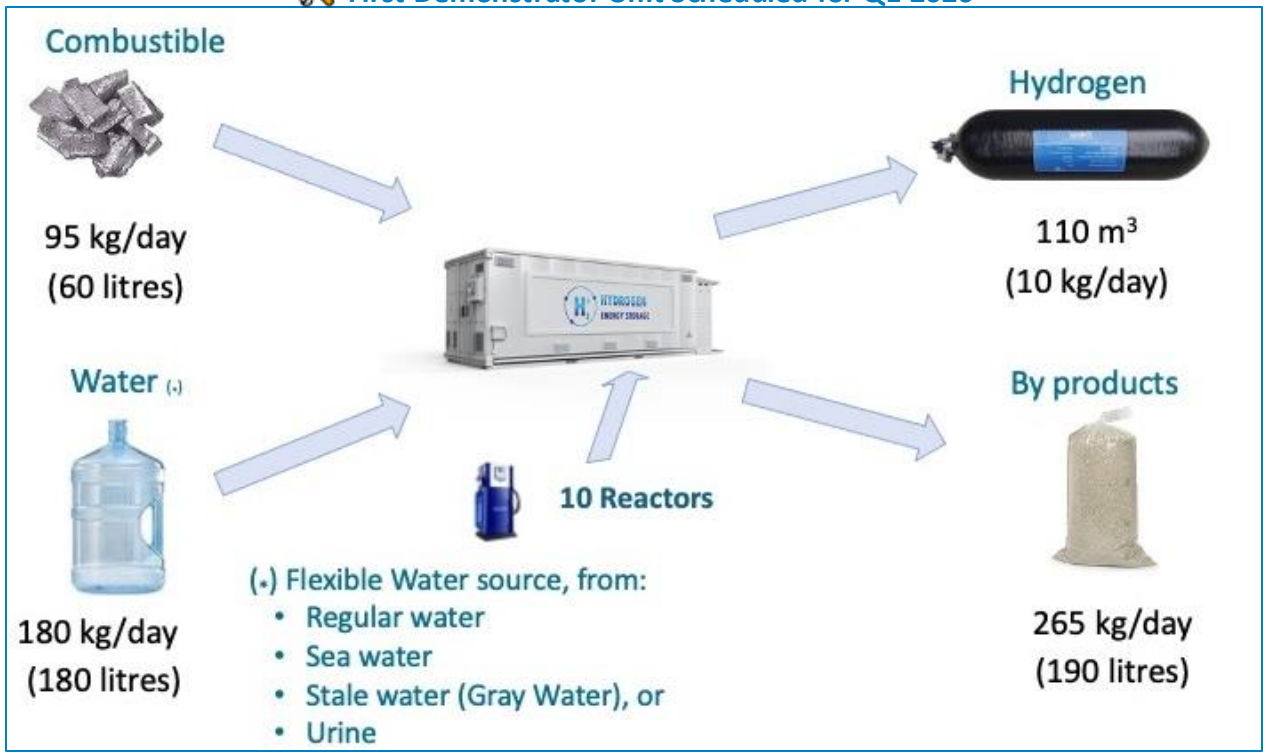


— METAGENE™ : Beyond Autonomous H2 Production Solution

First prototype ready - Q4 2025

The system's **flexible design** allows for the integration of from **10 up to 25 reactors within a single container**, enabling scalable, high-output deployment.

First Demonstrator Unit Scheduled for Q1 2026



Beyond Hydrogen: Clean Heat & Water from METAGENE™ Systems

These systems, when combined with **hydrogen fuel cells**, offer more than just electricity generation — they become **versatile energy hubs**.

- In **cold climates**, they provide **useful heat** for household or industrial applications.
- In **hot environments**, they can support **water purification**, including desalination and treatment of stale or brackish water.

HPQ / NOVACIUM WASTE TO ENERGY GREEN HYDROGEN INITIATIVE

Product

Waste-to-Energy (W2E) Technology — Transforming **Black Aluminum Dross (BAD)** from a **costly hazardous waste** into a **valuable resource**

Market Opportunity

- **Global Secondary Aluminum Market**: US$98.87B (2023) → US$150.53B (2030) **CAGR: 6.8%**
- **The Problem**:

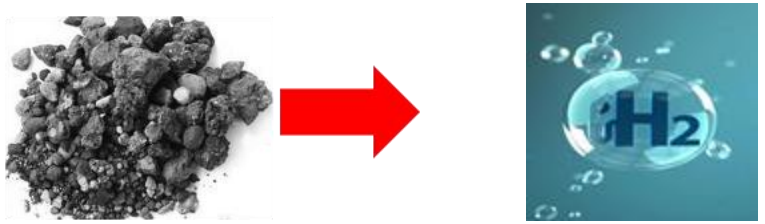
  Black Aluminum Dross (BAD) is a **toxic byproduct** of aluminum recycling.

  ✔ Up to **95%** is landfilled today. ✔ Disposal costs reach **€600+ per tonne**.

  ✔ Recycling is rarely pursued due to **poor economics** — despite BAD containing **recoverable aluminum and other valuable materials**.

Novacium's Solution

A breakthrough **additive-based W2E process** that:



- **Doubles hydrogen yield** vs. conventional methods
- Produces **green hydrogen + usable heat**
- **Recovers valuable solid byproducts** for reuse in aluminum production
- **Eliminates landfilling and associated disposal costs**
- Lowers operational energy costs through on-site energy recovery

Impact

Instead of **paying to dispose**, recyclers can now **profit from processing** BAD. Estimated **European cost savings: €900–€1,500 per tonne processed**

Pre-Commercialization Status

- **Pilot-scale validation underway /** Commercialization targeted within **12 months**

RECAP OF SOME OF THE KEY CATALYSTS TO DATE

01. **GREEN FUMED SILICA INITIATIVE**

- Capability to make commercial grade Fumed Silica in one step proven at Lab scale ✓
- Finalized pre-offtake agreement with Evonik Corporation ✓
- Start Producing Fumed Silica: at pilot scale - **20 X scale up** from lab scale ✓
- Operating FSR and replicating lab results at pilot scale ✓
- Send samples to Evonik and other third Parties under NDA , for collaboration on material improvement and other subjects✓

02. **ENGINEERED SILICON BATTERIES MATERIAL**

- Demonstrated control of the process needed to make commercially engineered Silicon material ✓
- 18650 batteries with GEN3 silicon-based materials delivers 4,000 milliampere-hours (mAh) ✓
- 18650 batteries with GEN3 silicon-based materials deliver unmatched capacity and durability [1], providing 3,000 milliampere-hours (mAh) of capacity with 80% retention after 1,000 cycles [2] ✓

03. **GREEN HYDROGEN ON DEMAND WITHOUT ELECTRICITY INITIATIVE**

- Technology's key innovation, its the ability to use of a non-powder-based, non-explosive, and non-hazardous consumable energy source to produce hydrogen, proven at lab scale, ✓

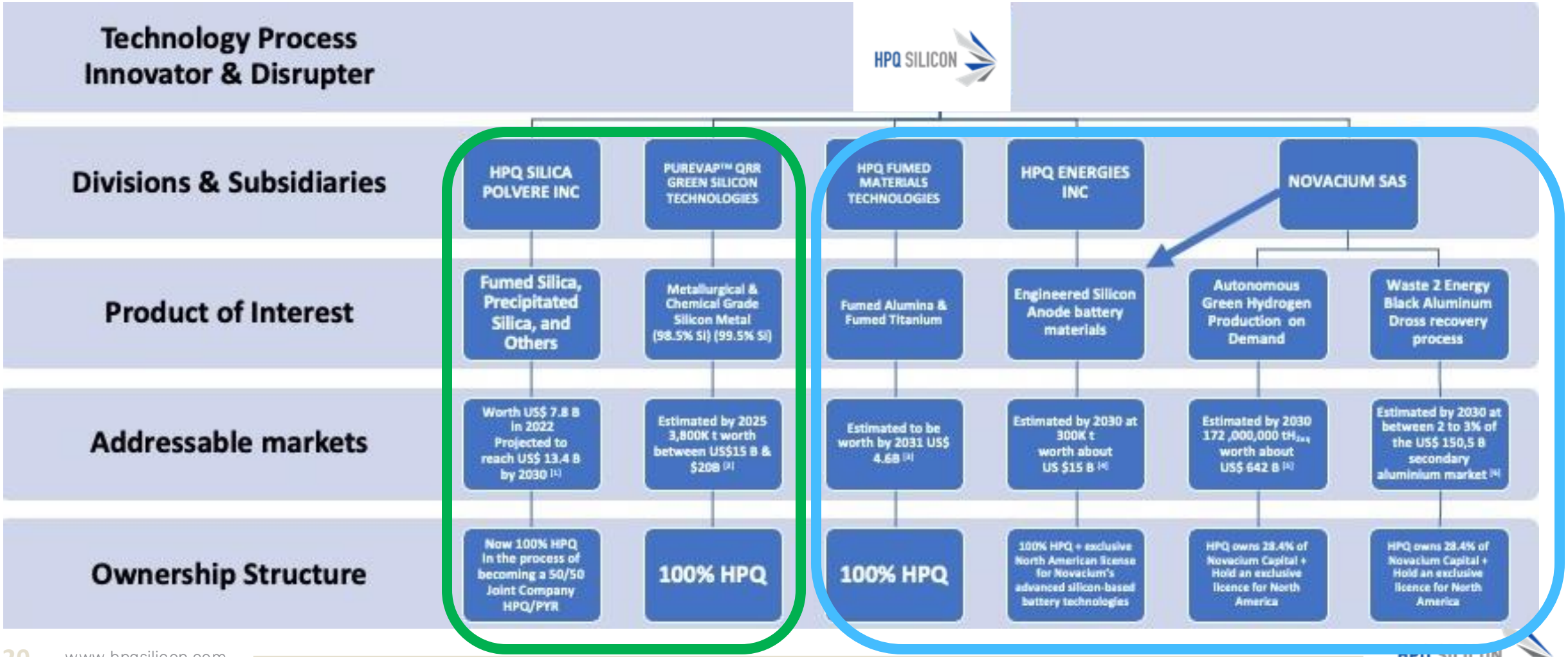
04. **WASTE TO ENERGY INITIATIVE - BLACK ALUMUNIUM DROSS**

- Technology's key innovation, it the ability to transform Black Aluminum Dross, a toxic waste byproduct of aluminum recycling typically sent to landfills, into valuable resources proven at lab scale, ✓

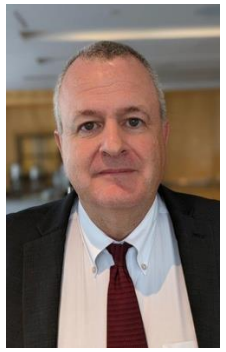
From Lab to Market: HPQ's Commercialization Momentum

HPQ has successfully scaled multiple technologies from proof-of-concept to pilot stage.

The Company is now actively focused on **commercialization its technologies: Starting with Green Fumed Silica**



HPQ Executive Leadership and Governance



Bernard J Tourillon, BAA. MBA CHAIRMAN, PRESIDENT, CEO AND DIRECTOR

Over the last 35 years, Mr. Tourillon has held senior level executive positions with extensive finance, accounting, marketing, administration, and business development experiences in diverse industries including banking, manufacturing, exploration, mining, and technologies companies. Since joining HPQ Silicon in 2006, he has participated in fundraising activities and financial transactions worth over $75 million.

Since 2015, he has been leading the transformation of HPQ Silicon from a simple High Purity Quartz and Gold exploration Company into a green tech focused Corporation.

Mr. Tourillon was instrumental in securing the partnership with PyroGenesis Canada Inc, a world leader in plasma technology and high temperatures processes, and the creation of NOVACIUM SAS – a French associated company of HPQ responsible for groundbreaking R&D in the battery domains.

Francois Rivard, VICE PRESIDENT AND CHIEF FINANCIAL OFFICER

Over the last 35 years, Mr. Rivard has held senior accounting positions in diverse industries including banking, manufacturing, exploration, mining, and technologies companies. He joined HPQ Silicon in 2006.

Since 2015, he has been working with HPQ CEO transform HPQ Silicon from a simple High Purity Quartz and Gold exploration Company into a green tech focused Corporation.

Daryl Hodges H. BSc, M.Sc., INDEPENDENT LEAD TECHNICAL DIRECTOR

Mr. Hodges has experience in the mining industry and in the capital markets. In the last 25 years, Mr. Hodges has participated in fundraising activities and financial transactions worth over $4 billion.

Since 2015, he has been participating in the transformation of HPQ Silicon from a gold exploration company into a Specialty Silicon company, first as an advisor and subsequently as a board member. On the Board of Directors his roles include Audit Committee and Technical Committee participation.

Mr. Hodges has a BSc and MSc degree in Earth Science.

Technical Leadership Team – HPQ/Novacium

Jed Kraiem, M.Sc., PhD, FOUNDER AND CHIEF OPERATING OFFICER

Over the last 20 years, Mr. Kraiem has held senior positions in the Photovoltaics industry, worked for the CNRS and FerroPEM (now Ferroglobe) as Valorization engineer to develop an innovative process for crystallization and purifying Silicon for Photovoltaics. He was subsequently approached by Apollon Solar SAS, a French start-up, which recruited him to become the Innovation Director and later promoted him to General Manager.

Since 2022, he cofounded Novacium and is the Chief Operating Officer ("COO")

Mr. Kraiem has a MSc and PhD degree in Physics & Chemistry from INSA Lyon and CEA (French Alternatives & Atomic Energy Center).

Oleksiy Nichiporuk, M.Sc., PhD, CO-FOUNDER AND CHIEF SCIENTIST & TECHNICAL OFFICER

Over the past 20 years, Mr. Nichiporuk has held senior roles in the photovoltaics industry. After obtaining his PhD, he joined PHOTOWATT, a leading French manufacturer of solar cells and panels, as an R&D engineer focused on continuous process improvement. In 2012, he became part of the Apollon Solar team as an R&D engineer and was soon promoted to Chief Technical Officer (CTO), reflecting his deep technical expertise and leadership in solar innovation.

Since 2022, he cofounded Novacium and is the Chief Technical Officer ("CTO").

Mr. Nichiporuk has a MSc from Kiev Univ. and PhD degree in Physics & Chemistry from INSA Lyon.

Julien Degoulange, M.Sc., PhD, CO-FOUNDER AND CHIEF INNOVATION OFFICER

Over the past 20 years, Mr. Nichiporuk has held senior roles in the photovoltaics industry. After obtaining his PhD, he spent a year working for NNTNU/SINTEF in Norway on Silicon crystallization as a postdoc. After he joined Apollon Solar in 2010 as an R&D engineer and was later promoted to Head of the Silicon Business.

Since 2022, he cofounded Novacium and is the Chief Innovation Officer ("CIO")

Mr. Degoulange obtained in 2008 is PhD Degree from the Polytechnic Institute in Grenoble

HPQ CAPITAL STRUCTURE

Major Investors	Basic	Fully Diluted
IQ (Investissement Québec)	8.4%	7.0%
PyroGenesis Inc	8.7%	7.5%
Management & Board	6.3%	10.4%
Strategic Investors	10.9%	10.0%

	52 weeks		
	Price	Low	High
(As of June 24, 2024)	$ 0,17	$ 0,145	$ 0,43

	Million
Basic Shares Outstanding	420.0
Options (Average Price $0.299 / Duration 4 years)	14.8
Warrants (Average Price $0.275)	40.1
Fully Diluted Shares Outstanding	480.1
Market Capitalization (Basic)	$ 71.4
Market Capitalization (Fully Diluted)	$ 81.7

— MANAGEMENT, BOARD & OTHERS

Management

- Bernard J. Tourillon, BAA, MBA
  Chairman, President, CEO and Director
- Noelle Drapeau, LLL, MBA, PMP
  Corporate Secretary and Director
- Francois Rivard
  VP, CFO
- Derick A. Lila, MSc, MA
  Director Marketing Communications

Independent Directors

- Richard Mimeau, B.Sc.
  Director
- Peter Smith, PhD, P. Eng.
  Director
- Daryl Hodges H. BSc, M.Sc.
  Director
- Patrick Levasseur
  Director

Consultants

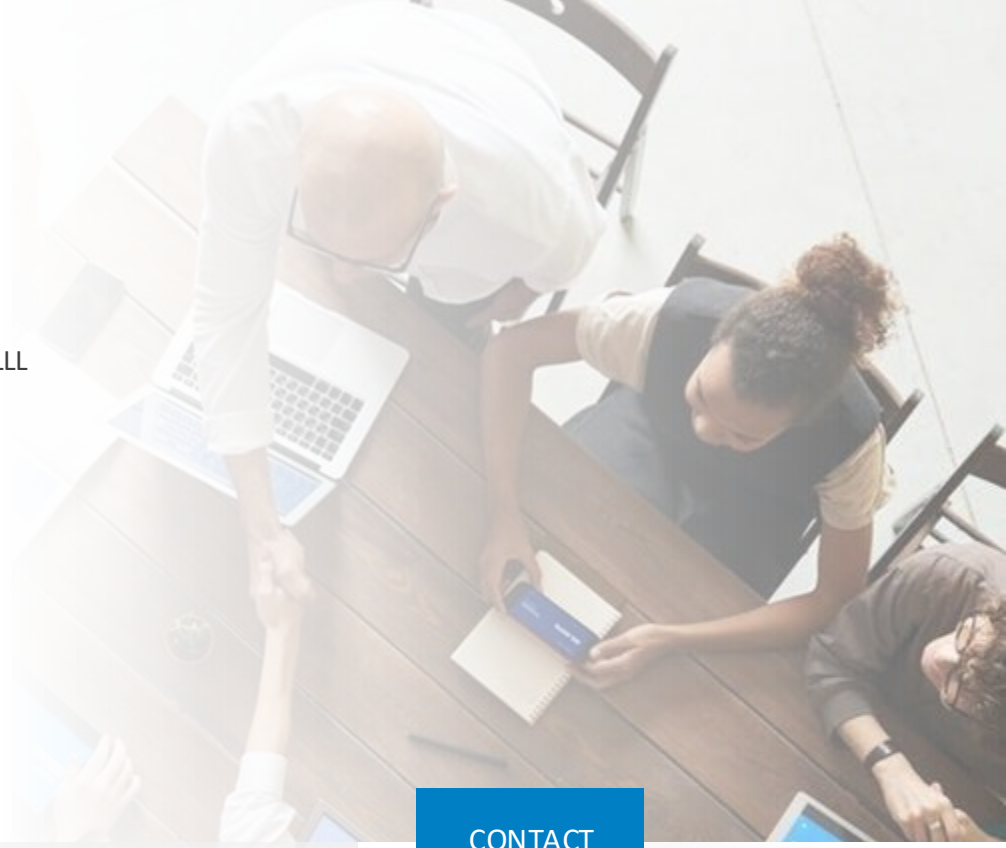
- Marcel Drapeau, BA, BSC. Comm, LLL
- PyroGenesis Canada Inc

Transfer Agent

- Computershare

Auditors

- **Forvis Mazars S.E.N.E.R.L.**
  215, rue Saint-Jacques, Bureau 1200
  Montreal (Québec) H2Y 1M6



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