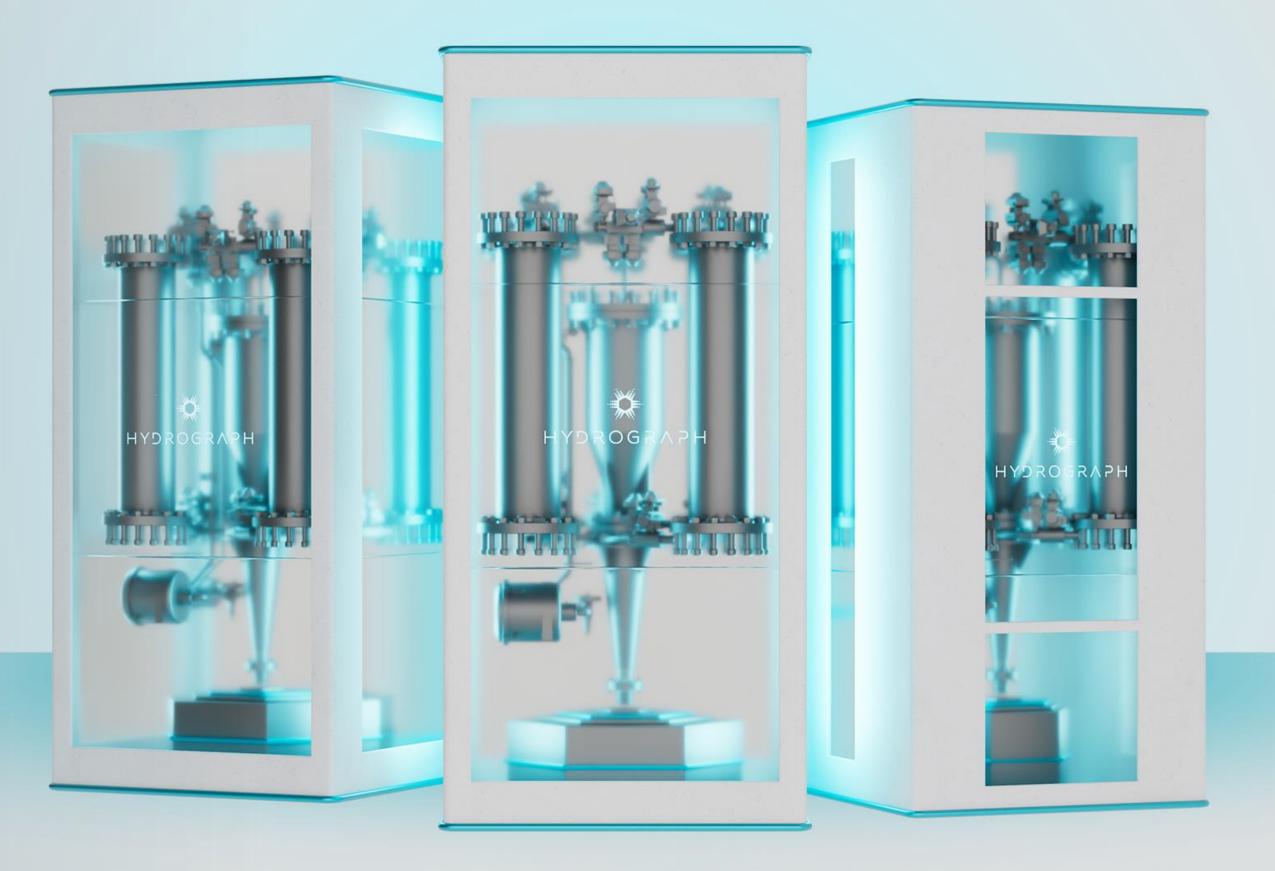


UNLOCKING THE POTENTIAL OF GRAPHENE







securities laws. Forward-looking statements and information can generally be identified by the use of forward-looking terminology such as "may", "will", "expect", "intend", "estimate", "upon" "anticipate", "believe", "continue", "plans" or similar terminology. Forward-looking statements and information include, but are not limited to: the use of the net proceeds from the previously announced private placement, anticipated benefits resulting from the Marketing Services Agreement, the future exercise of the Options, ability to successfully increase commercial scale production at its manufacturing facility, and the timing thereof, the potential valuation of Company, any EBITDA predictions, the commercialization of HydroGraph's products that lead to customer contracts resulting in our potential valuation and EBITDA predictions, and the Company's business plans and strategies.

This deck contains certain "forward looking statements" and certain "forward-looking information" as defined under applicable Canadian

determinable and assumptions that, while believed by management to be reasonable, are inherently subject to significant business, economic and competitive uncertainties and contingencies. Forward-looking statements and information are subject to various known and unknown risks and uncertainties, many of which are beyond the ability of HydroGraph to control or predict, that may cause HydroGraph's actual results, performance or achievements to be materially different from those expressed or implied thereby, and are developed based on assumptions about such risks, uncertainties and other factors set out herein, including but not limited to: HydroGraph's ability to implement its business strategies; risks associated with general economic

Forward-looking statements and information are based on

conditions; adverse industry events; stakeholder engagement; marketing and transportation costs; loss of markets; volatility of commodity prices; inability to access sufficient capital from internal and external sources, and/or inability to access sufficient capital on favorable terms; industry and government regulation; changes in legislation, income tax and regulatory matters; competition; currency and interest rate fluctuations; and other risks. HydroGraph does not undertake any obligation to update forward-looking information except as required by applicable law. Such forward-looking information represents management's best judgment based on information currently available. No forward-looking statement can be guaranteed, and actual future results may vary materially. Accordingly, readers are advised not to place undue reliance on forward-looking statements.

FORWARD LOOKING STATEMENTS

Investors presentation

GRAPHENE

A nano material, is made up of pure carbon atoms and is the strongest and most conductive material known to man. As a supermaterial, it will help usher in an age of nanotechnology, which will touch virtually every known industry.



HydroGraph Highlights



2017 Founded



20 Employees



3 Patents Granted9 Pending7 Provisional



11 Graphene Products

HYDROGRAPH

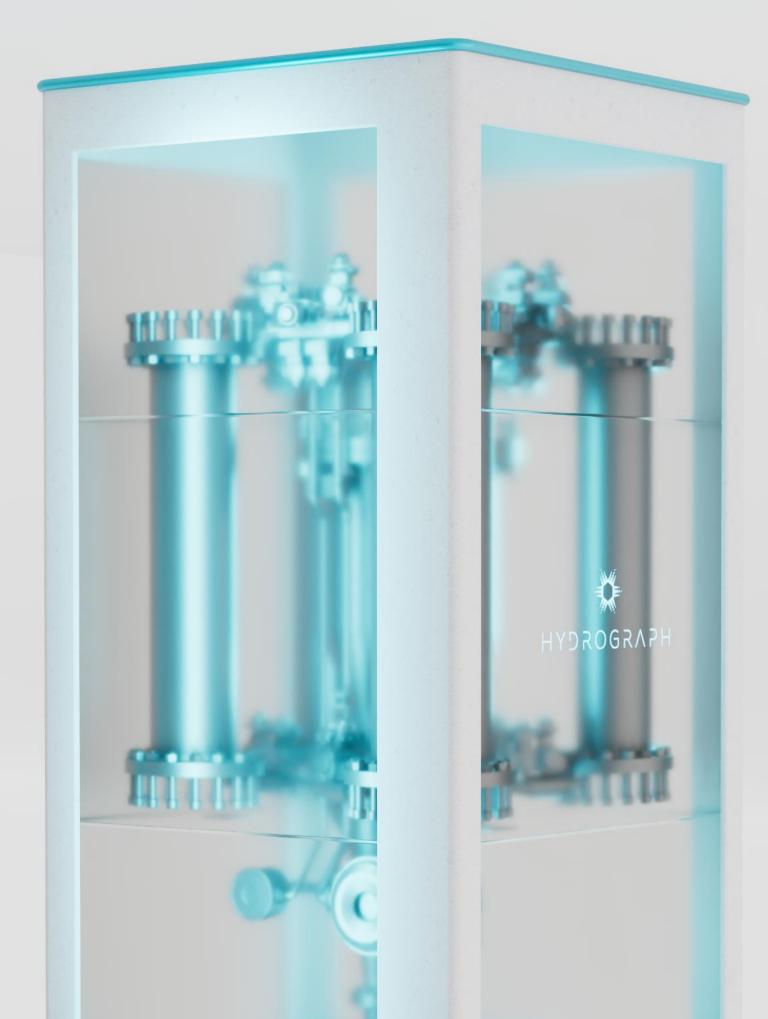
Overview

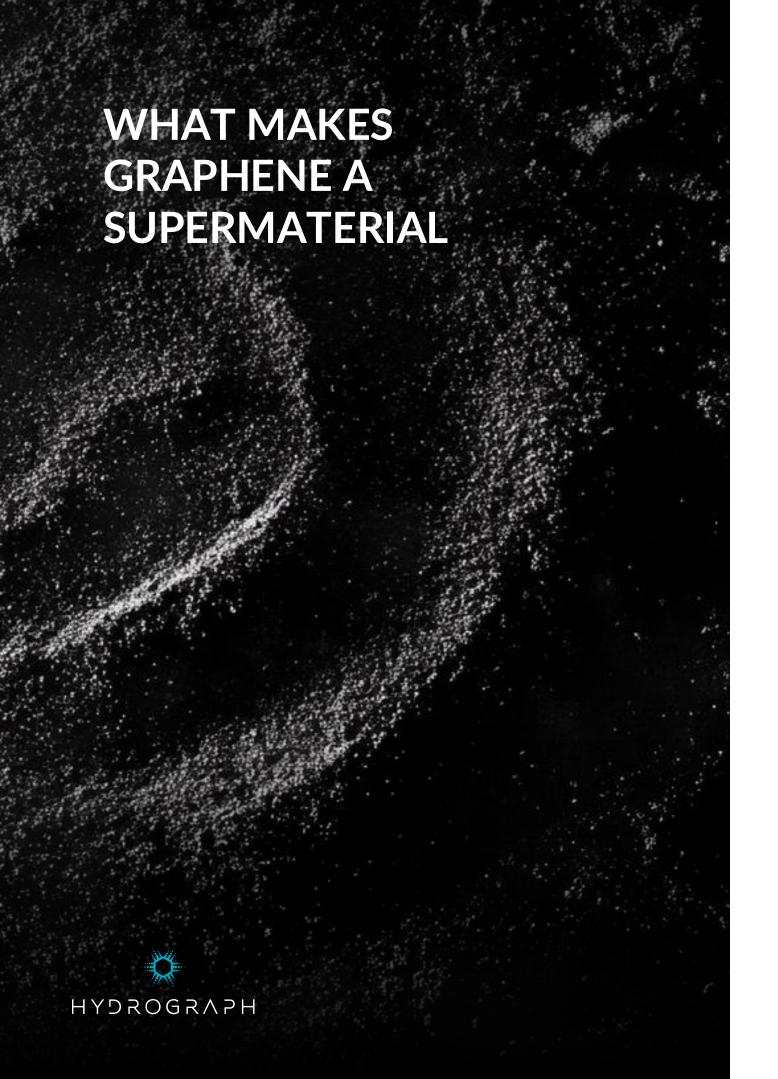
We produce the highest quality graphene in the industry at the greatest cost efficiency

HydroGraph uses a patented "explosion synthesis process", which yields the highest purity, most powerful graphene in the industry.

- Our production process is the most environmentally friendly process in the world, and commercialization has begun
- HydroGraph graphene is being tested by more than 65 active customers
- Our current scalable production capacity is 10 tons per year
- New production units can be built in 2-3 months
- Low capital intensity US\$10M to US\$15M of capex to generate US\$100M+ of sales
- 2025 will be focused on increasing the application development data set, scale up initiatives, and commercial relationships









Thermal Conductivity Highest ever measured at ~4000 Wm⁻¹ K⁻¹



Flexibility
Graphene can stretch
up to 25% of its original
length



Electron Mobility
As high as 200,000
cm²/V·s, much higher
than silicon



ThinnessA single layer of graphene is just 0.345Nm



High Surface Area As much as 2,630 m²/g, very high surface area



UV Resistance Blocks harmful UV rays by up to 70%



Impermeability
Blocks all other elements,
even hydrogen



Flame Resistant
Graphene significantly
reduces flammability if
added to polymers



Strength
Graphene has a strength
of 130 GPa, higher
than steel



TransparentSingle layer graphene transmits approximately 97.2% of light



Electrical Resistance
Graphene electrical resistivity of just 0.2x10⁻⁶Ω·cm



Stiffness Young's modulus 0.95 to 1.1 TPa, some of the highest ever measured



BEST-IN-CLASS EXECUTIVE TEAM



Multiple start-up experiences



(100+ years of combined industry experience



Deep understanding of nanomaterials



CAD ~\$2.0M personal funds committed to date



Kjirstin Breure President and CEO

A 10-year background in emerging technologies, Ms. Breure holds a Masters in Materials Science and Engineering and was the original architect of HydroGraph's initial strategies and commercial plan. As the first employee, she was brought on as COO in 2020, joined the board of directors and was promoted to President in 2022, and was formalized as CEO in 2024.



Ranjith Divigalpitiya **Chief Science Officer**

More than 25 years as a physicist; invented 3M's graphene-like carbon coatings and contributed to 190 invention submissions and 20 granted US patents. Ranjith has authored more than 33 peer-reviewed papers and has significantly contributed to HydroGraph's patent portfolio.



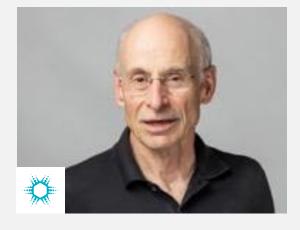
Stephen Corkill VP Operations

As former VP of Engineering, Stephen designed and built HydroGraph's Hyperion unit which has been awarded the **Graphene Council Verified** Producer certification as well as ISO9001 accreditation. His work has also led to the Company's global reputation high quality, consistent graphene.



Matt Anderson CFO

Over 15 years of accounting and CFO experience with private and public companies. He is the Managing Director of Malaspina Consultants Inc., where he has worked since 2009. Matt holds a Bachelor of Commerce from McGill University and earned his CPA, CA accreditation in 2008, providing CFO services to junior public companies across various sectors.



Chris Sorensen VP R&D

As the former Cortelyou-Rust University Distinguished Professor in the department of physics at Kansas State University, Chris invented the company's detonation synthesis technology, laying the foundation for commercial development. He has seven patents and nearly 300 publications and is a fellow of the American Physical Society.



Stefan Bossman **Lead Chemist**

Stefan a Distinguished Professor emeritus at K State. He received his B.S. and PhD in chemistry from the University of Saarland, Germany. Previous posts include postdoctoral research associate at Columbia University, an assistant professor and subsequently an associate professor-ship at the University of Karlsruhe, Germany. Stefan holds a PhD, has authored more than 200 publications and holds 14 patents.

Kjirstin Breure Chair. President and CEO

BOARD OF DIRECTORS **Cordell Benningson** Director (Independent)

Tom Wilkinson Director (Independent) **Kerry Landis** Director (Independent)

Grant Duthie Director (Independent)



James Baker Advisory Board Member

More than 25 years' experience in the defense, aerospace and security market leading and managing high technology businesses, and currently Professor of Practice at the University of Manchester and CEO of Graphene@Manchester, encompassing the Graphene Engineering Innovation Center (GEIC) and the National Graphene Institute (NGI). Responsible for business strategy development and delivery, including commercialization opportunities.

DIFFERENTIATED PRODUCT- RAPIDLY GROWING MARKET

A serious issue in a market projected to reach \$7 billion by 2034 with a 31%+ CAGR

~300 companies worldwide claim to produce graphene An analysis of 60 companies by Advanced Materials journal found:

OTHER PRODUCERS **HYDROGRAPH** There is almost no high-quality **HydroGraph** makes identical **graphene** in the market batches of pristine graphene at industrial scale as defined by ISO No company produces over **HydroGraph** produces **Compared to 50% graphene** content, with a 99.8% pure carbon content HydroGraph majority producing less than 10% graphene HydroGraph's graphene has been Most companies are producing tested as pure by numerous labs and fine graphite, not graphene verified by the Graphene Council





HYDROGRAPH

Investment thesis

1

Highest purity

HydroGraph produces the highest performing graphene in the industry at industrial scale



Consistent quality

Unlike other graphene producers, HydroGraph produces identical batches



Green footprint

The Hyperion System, the Company's production unit, uses the lowest energy in the industry and produces no waste



Global reach

HydroGraph's high-performance graphene can improve virtually every industry and has near unlimited potential impact



Strong economics

HydroGraph unlocks value for the customer by strengthening competitive advantage



Significant valuation upside

Low CAPEX process, large end markets, rapid market growth and differentiated products all lead to significant upside







STRATEGIC PARTNERSHIP

HydroGraph partnership extended in 2024

- HG entered into a partnership with leading graphene R&D centre, the GEIC, in 2023
- The GEIC, contains all relevant industrial prototyping machines and characterization devices needed to commercialize graphene materials, is expediting the path to market
- As a university-affiliated institution, GEIC staff must maintain impartiality when selecting graphene for customer projects
- This cost-effective gateway facilitates customer engagement for the Company

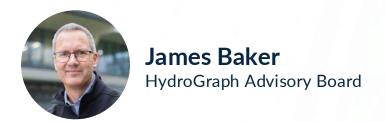
- HG to explore new application areas and attract new customers through partnership
- HG's business development team utilizes data obtained from new materials testing
- HG collaborates on application development with both the GEIC and our own HydroGraph team onsite, gaining access to customers through the **GEIC** network



Manhattan, Kansas, US

HydroGraph HQ (Announced)

Austin, Texas, US







Graphene Engineering Innovation Centre (GEIC)

Manchester, UK - Birthplace of graphene

Manchester, where graphene was discovered in 2004, remains a hub for graphene activity and talent.

The GEIC serves as a key hub for customers to interact with graphene experts.



ESTABLISHED RELATIONSHIPS

In Large Global Target Markets





- 80% reduction of wear
- 24X improvement of lifetime
- 70% increase of lubricity
- Environmental benefit: longer life means less oil extracted and less spent oil to be disposed of
- Applicable to greases, motor oils, machining fluids, and more uses
- Ultra-low loadings

- 8 orders of magnitude increase in conductivity
- Low (< 1-wt%) loading for double digit mechanical improvement
- Improves barrier properties
- 25 30% improvement in strength in PET and epoxy
- Indication that graphene enhances recyclability

- Enhanced durability
- Light-weighting
- Enhanced electrical conductivity (static dissipative)
- Anti-corrosion
- EMI shielding capable
- Anti-fouling coatings
- UV protection
- Multi-functional improvements

- 21% increase strength with 0.02 wt-% to binder
- 15% reduction in energy demand and Global Warming Potential as LCA benefits
- Reduced porosity leading to reduced water permeability, lowering freeze/thaw damage and rebar corrosion
- Significantly decreases the cure time allowing for 3D printing at scale

- 47% increased Charge
 Acceptance Rate in lead acid batteries resulting faster charging
- Extends battery life by reduced sulfation
- Outperforms leading cathode catalyst in lithium-air batteries
- 4X capacity improvement in supercapacitors compared to high surface carbon black

2025: COMMERCIALIZATION IN PROCESS

Large automotive company:
Multiple successful trials
completed for automotive
composites



Next: Pilot industrial scale-up, followed by commercial scale-up negotiations targeting 2025. Tonnage volumes anticipated.

Biosensors:

Hawkeye Bio achieves distributor contract and published data in Nature



Next: Production ramp up begins in 2026 with additional biosensors in development targeting 14 different diseases.

Technical Fibers:
Scale up order expected
based on repeated results



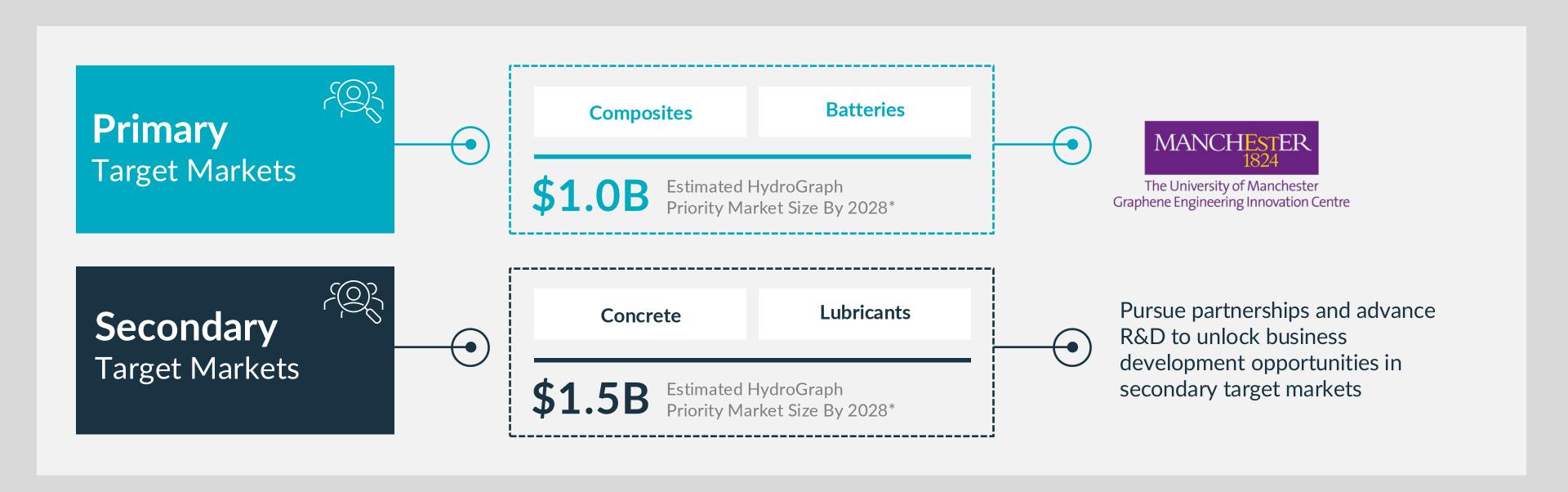
Next: Pilot industrial scale-up to commence at completion of current trial. Rapidly growing defense interest.





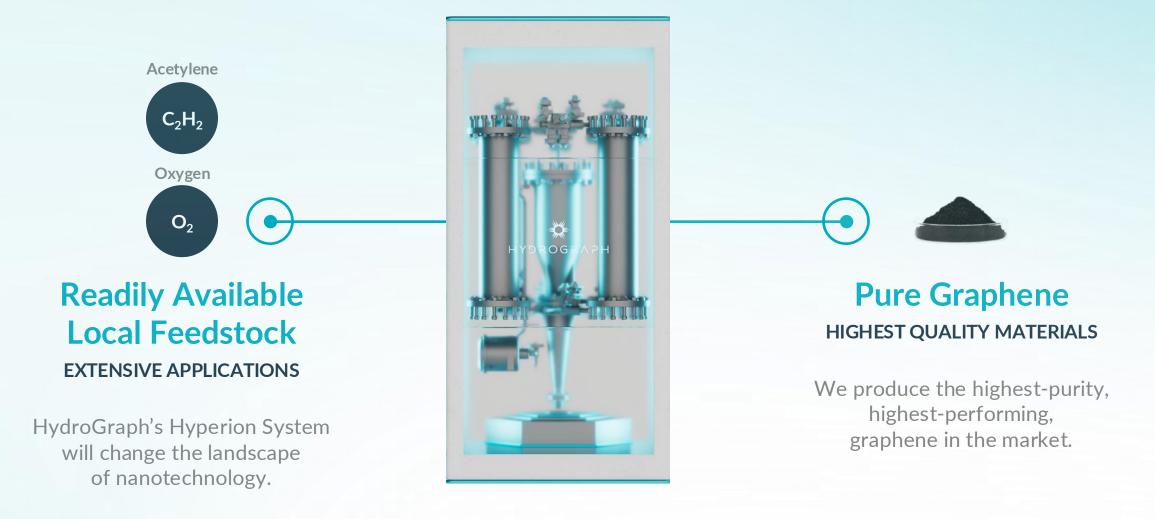
HYDROGRAPH'S PATH TO MARKET

Targeting the right key markets for commercial scale





OUR SOLUTION: THE HYPERION SYSTEM



Disruptive, patented, cost efficient and scalable





Units can be produced in three months



Building additional units to increase capacity



Will source a larger US facility as demand grows. Not reliant on China for source of graphite.



Centralized production plants located adjacent to gas sources will be employed.



PATENTED EXPLOSION SYNTHESIS PROCESS

Uses minimal energy and produces no waste. Ideal for commercial deployment: modular, scalable, and eco-friendly.



Investor presentation

HydroGraph's graphene helps customers increase the mechanical properties of their materials allowing for less to be used while reaching the same performance targets. This significantly reduces carbon emissions without increasing cost to the customer.



A SUSTAINABLE SOLUTION FOR A SUSTAINABLE WORLD

HydroGraph produces pristine graphene with the smallest environmental footprint



No chemicals or solutions as part of the process



Minimal energy consumption

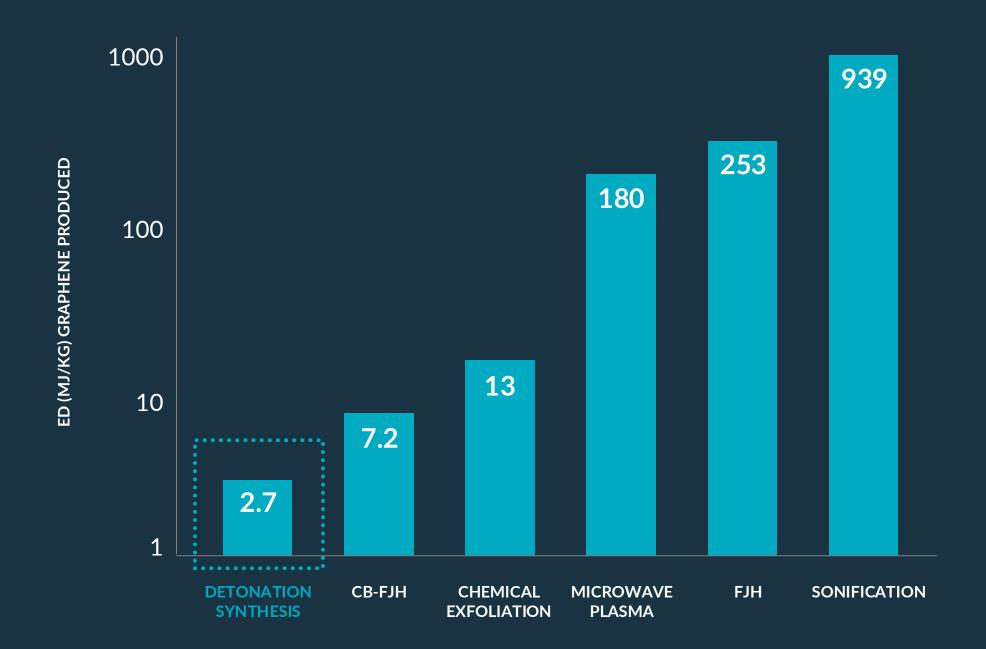


No greenhouse gas emissions



Energy Demand for Producing Graphene

(Megajoule/Kilogram)^{1,2,3}



Legend: CB-FJH: Carbon Black – Flash Joule Heating FJH: Flash Joule Heating

eferences:

- 1. Juong et.al., Nature | Vol577 | 30January 2020 | 647
- 2. Wyss et al., Communications Engineering, (2022)
- 3. US patent application US2017/0113935A1

RAPID, LOW-COST PRODUCTION SCALABILITY

Become the leading global producer of high-quality graphene

Produce identical batches of pristine graphene at industrial scale

Employ centralized production model

Establish production in key geographical regions

Expand capabilities to include formulation and masterbatch

HydroGraph has the capability to produce the highest quality graphene at industrial scale in identical batches.

This is an industry first.

To secure IP and boost margins, HydroGraph will build a centralized facility near an acetylene supply.

Gas costs mainly arise from compression and transport, while graphene is inexpensive to ship.

As customer demand grows through HydroGraph's application development activities, the Company will build additional centralized facilities to guarantee supply.

To increase market penetration HydroGraph will include formulation and masterbatch offerings so customers can easily integrate graphene into their products without going through a testing process with the Company.



PATENTED TECHNOLOGY

Fractal Graphene Patented No: 9,440, 857 B2

The 2016 patent for the high-yield production of fractal graphene via detonation is the founding technology for HydroGraph. The detonation closed system produces the highest quality products, while conserving energy, preventing emissions and is modular and scalable for clients.

Additionally, the HydroGraph portfolio now contains patents relating to the production of nanomaterials, applications involving nanomaterials and clean energy.

REACTIVE GRAPHENE

Disc. No.: 2019-064; Attorney Docket No.: 52468

Title: "Graphene/Graphene Oxide Core/Shell Particulates and Methods of Making and Using the Same"

PCT Application No.: PCT/US2020/038055

Filing Date: June 17, 2020

GRAPHENE INK

RE: Disc. No. 2019-066

Title: "Nano-inks of Carbon Nanomaterials for Printing and Coating"

PCT Patent Application No.: PCT/US2020/039547

Filing Date: June 25, 2020

GRAPHENE ENHANCED CARBON FIBER

Disc. No.: 2017-008; Docket No.: 49240-US

Title: "Additive Manufacturing of Continuous Fiber Thermoplastic Composites"

U.S. Application No.: 16/487,622 (PCT/US2018/018800)

HYDROGEN PRODUCTION

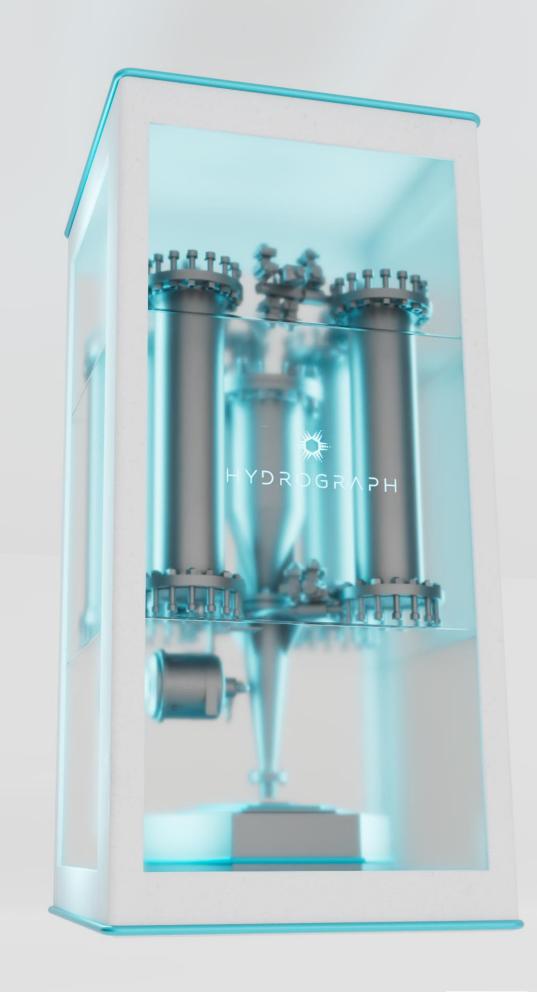
Disc. No.: 2021-027; Attorney Docket No.: 54713-PCT

Title: "Process for Synthesis of Syngas Component"

U.S. Provisional Patent Application No.: 63/161,625

Filing Date: March 16, 2021





HYDROGRAPH'S HISTORY

Product testing completed, entering commercialization in 2025

2014

Discovery

Dr. Chris Sorensen at KSU discovers Detonation Process for producing high-quality, low-cost graphene





Q3 2016 **Patent**

U.S. patent awarded for the high-yield production of graphene based via detonation synthesis

Q2 2017

Launch

HydroGraph formed to fund and commercialize green, cost-effective manufacture of pristine graphene at scale

Q4 2021

Public listing

HydroGraph Clean Power (HG) lists on the CSE

Q1 2023

Scale-up

Commercial scale production capacity of graphene. Business development team engaging with customers and

partners.

2025

Pursuing commercial relationships

HydroGraph plans large scale production within US to meet anticipated customer demand. First contracts expected.



Q1/Q2 2021

Funding/Graphene plant

Private placement of \$7.5M by PowerOne and Haywood

Groundbreaking for production and commercialization facility in Manhattan, Kansas



Q2 2022

Tech platform

Hyperion technology platform proof of concept and prototype of scalable and consistent production of graphene



Q2 2024

Change in management

Ms. Breure appointed CEO. Changes made to business model and strategy.

Initiated UK application development capabilities to meet growing customer demand



HYDROGRAPH

Investment thesis

Key Catalysts

- Large scale Texas production facility to open within 2026
- Close commercial supply contracts in 2025
- Expanded product line and new strategic partnerships

Capital Structure

- 314M Basic Shares Outstanding
- 22M Options Outstanding
- 20M Warrants Outstanding
- 357M Fully Diluted
- CAD \$673M Market Cap (as of October 1, 2025)

THANK YOU

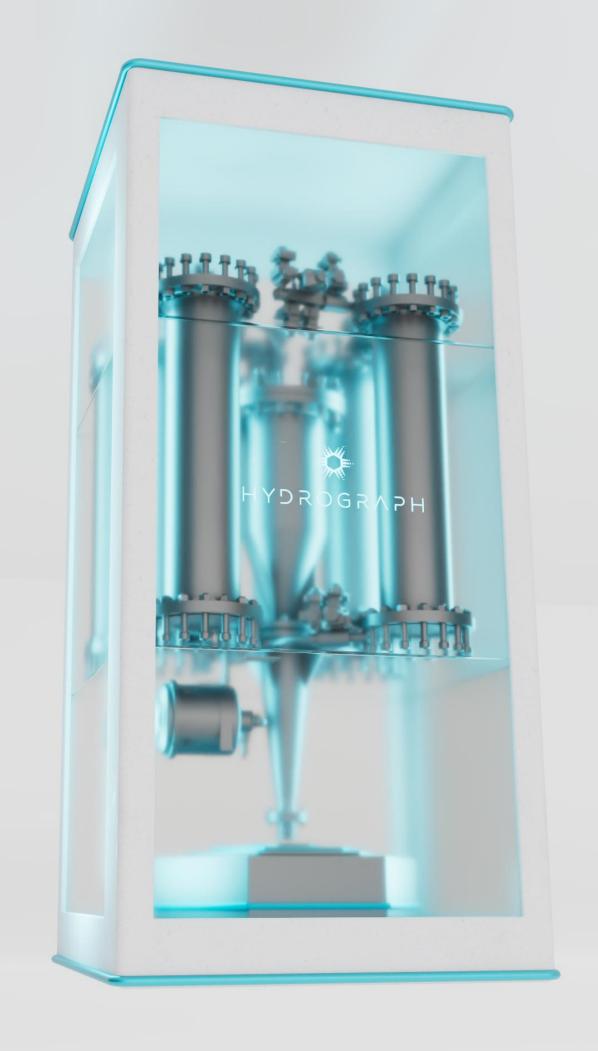
Kjirstin Breure

President and CEO

Matt Kreps

Vice President, Investor Relations

Matt.Kreps@HydroGraph.com +1-214-597-8200





CSE: HG | OTCQB: HGRAF | FRA: M98