



Annual General Meeting - Update Report

November 2019

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Strategy



We have continued with our collaboration based strategy, focusing on the formation of strategic partnerships with industry leading companies who have the expertise to incorporate our graphene-based technologies into commercial products.



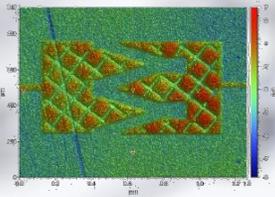
- ⬡ Building on our partnerships and technology over 8 years and \$3.4 million in R&D funding, Ionic is now one of the first companies to demonstrate large scale, commercially viable application of graphene technologies
- ⬡ Collaboration model reduces technology validation risks and accelerates paths to market, thereby reducing uncertainty and business risks
- ⬡ Portfolio approach to technologies and applications mitigates the risk of reliance on a single technology and expands market potential

Research Progress



Over the past year we have made a number of important advances on our graphene research programs:

- JV company with CleanTeQ was formed in Oct 2018, called NematiQ and a pilot factory and lab has been established in Notting Hill next to the CleanTeQ offices.
- We have signed MOUs in China with Jianghai and Capenergy for supercapacitor manufacturing and development
- Work with Nanothings Inc (USA) continues as a first customer for our technologies, awaiting confirmation of manufacturability
- Work has continued on our MICRENS devices and we can now print these consistently at about 50 micron, which is at the scale we need to benefit from the “edge effects” that will enable supercapacitors that rival Li-ion batteries
- On patents, we have filed on further patent this year on our EDLC supercapacitors:
 - EDLC Supercaps covering ink formulation, printing techniques and curing method (PCT filed on 24 May 2019)



CleanTeQ 2019 AGM Addresses Ionic JV



Graphene oxide membranes

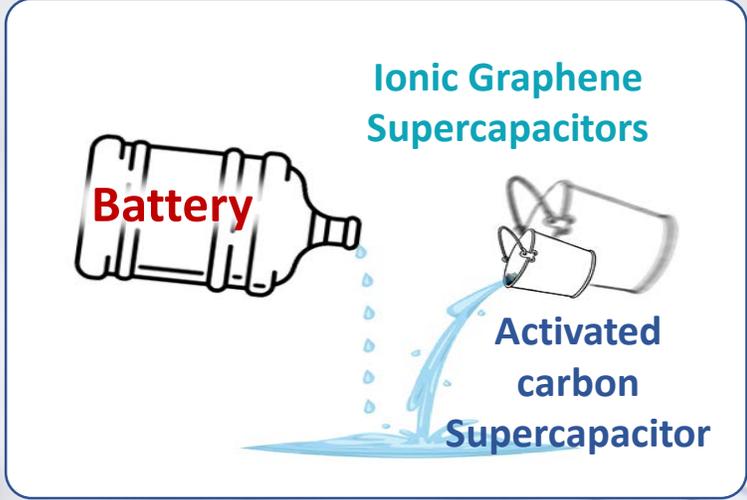


Potentially superior membrane performance

- Joint Venture with Ionic Industries (NematiQ) to progress GO-membrane development
- Graphene oxide-based membranes have the potential to deliver significant benefits due to their high water flux, tunability and non-fouling properties
- Targeting next key stage-gate decision by year-end



Current Focus – Supercapacitors powering the Internet of Things



- ⬡ Linking the physical and digital worlds could generate up to \$11.1 trillion a year in economic value by 2025 according to McKinsey
- ⬡ The devices that make IoT possible require energy and power, that can be delivered by miniature supercapacitors
- ⬡ Supercapacitor market itself is forecast to grow to \$6.3B by 2024 with 28% CAGR

- ⬡ Graphene Origami supercapacitors have the potential to lower manufacturing cost, increase energy and power density and deliver massive productivity gains by accelerating the growth of IoT applications
- ⬡ Unique, valuable IP in the production of graphene oxide inks and processes for manipulating graphene materials to create extraordinary performance advantage over activated carbon competitors.



Global Partnerships Established

Nanothings (MOU):

- Backed by Semtech (LoraWAN), SigFox, MachineQ, Senet
- Opportunity to supply 10 million Origami supercapacitors



Jianghai (Strategic Cooperation Agreement):

- 3rd largest manufacturer in the world, with \$1B market cap
- Customers include: Huawei, Bosch, Siemens, Panasonic, LG
- Opportunity to: co-develop graphene EDLC and Li-Ion supercapacitors



Ningbo Shanshan Ltd / Capenergy (MOU):

- Largest supplier of battery materials to EV markets in the world
- \$2.3B market cap and \$1.31 B revenues in 2018
- Opportunity to leverage graphene-based hybrid capacitor technology



Ongoing Work



As a technology platform, Ionic will build on existing experience and expertise to deliver a stream of advanced materials technologies to market over the coming years.

We have renewed our Collaboration Agreement with Monash for a further 5 years and plan to maintain a funnel of technologies based on graphene materials.

Current focus is on energy storage and covers our program with StorEnergy on battery technology, new hybrid capacitor technologies with potential to approach applications in other fields including barrier and coating technology and gas separation.

Our work to progress the graphene industry more broadly has also continued through our involvement with the Australian Graphene Industry Association (AGIA), of which we were a founding member. This work will help to drive adoption of graphene technologies into a vast array of applications building a long term, sustainable future for Ionic's business.



MONASH
University

Ongoing Financial Stability



MELBOURNE CAPITAL LIMITED

In April, we formed a relationship with Melbourne Capital Limited to build ongoing financial stability for the company.

Since then we have executed a mandate with them for capital raising will take us up to and including IPO based on our current plans.

Our partnership with Melbourne Capital Limited covers three phases of our capital raising strategy.

1. Buy back and register tidy-up
2. Seed capital
3. IPO

The first stage of this has been completed, raising \$550,000 to provide a boost to working capital and support a tidy-up of our register.



Next Steps

We are planning a range of initiatives and milestones over the next 12 months to progress our strategy.

- ◆ First revenues from the NematiQ JV
- ◆ Demonstrate commercially viable supercapacitor materials delivering significant performance advantages over existing activated carbon technology, for broad application but beginning with IoT applications
- ◆ Begin scaled up manufacturing process for printed supercapacitor electrode material
- ◆ Develop next generation hybrid capacitor technology
- ◆ Move to next phase of MICRENS development and begin work on purpose specific MICREN product in collaboration with an industry partner in one of our target markets



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Thank You

Simon Savage

Managing Director

simons@ionicindustries.com.au

+61 402 388 702