



MAGNIS

ENERGY TECHNOLOGIES



Enabling Future Energy



Forward Looking Statements

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The Magnis Vision



To become one of the world's largest producers of next-generation Li-Ion Battery (LIB) cells, enabling the future energy requirements of the world and the global electrification of transportation through:

- ⚡ Developing Gigafactories globally with key alliances and JV partners
- ⚡ Maintaining a competitive advantage through unique IP
- ⚡ Mitigating key material supply risk
- ⚡ Delivering a commercial advantage to all Global Gigafactories



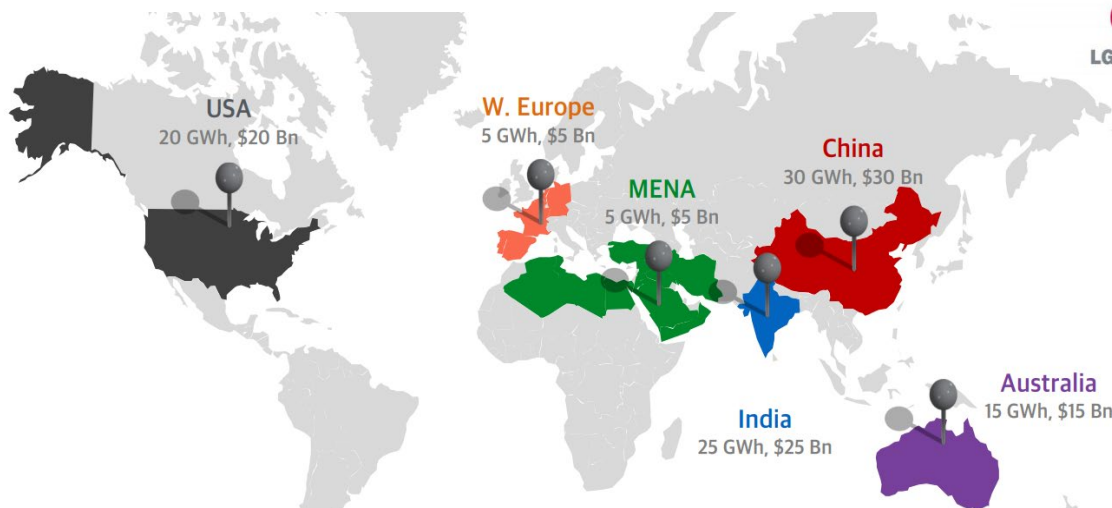
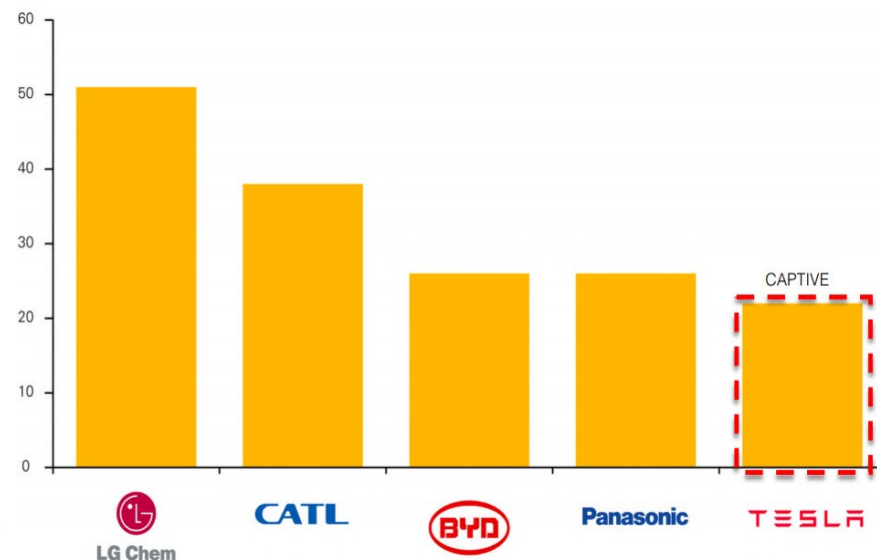
Magnis has three core areas of focus which provide the Company with a strategic advantage; battery technologies, gigafactories and graphite.

- ⚡ **Battery Technologies:** The Company has rapidly moved into battery technology with their high performing, chemical free anode technology and through the partnership formed with US Based Charge CCCV.
- ⚡ **Gigafactories:** New York Lithium-ion Battery Plant & Australia Lithium-ion Battery Plant
- ⚡ **Graphite:** Magnis holds a world class graphite deposit, the Nachu Graphite Project



Industry Overview

- **85%** of Market is controlled by **Top 5**
- Only **one GWh manufacturer** is located within the **United States**, which is captive
- **\$100 B** addressable market by 2022
- Magnis is focused on the Top 6 Global Energy Storage Markets



Note: Figures for batteries used for Electric Mobility and Renewable Grid. Data from IFC Energy Storage Trends Report 2018. The map shows top 6 markets for storage batteries.

*Source: Benchmark Mineral Intelligence



Global Gigafactories & Opportunities



New York Battery Plant

- Equipment and assets acquired. (Valued at US\$71M)
- 15GWh plant
- 1GWh production planned ASAP
- Magnis holds 58% of project (iM3NY)



Australia Battery Plant

- Feas Study submitted 2019
- 18GWh plant
- Magnis holds 33.3% of iM3TSV



Nachu Graphite Project

- Tanzania
- Shovel ready and BFS completed





Board



**Frank
Poullas**

Non-Executive Chairman

- Over 20 years in investment markets, technology and engineering sectors
- Partner in a successful technology firm
- Involved in successful ventures within the technology and mining industries



**James
Dack**

Executive Director

- One of Australia's most successful and influential people in the Real Estate industry
- Over four decades of experience in the Public, Private and Government sectors.
- Founder and director of a successful fund.



**Prof M. Stanley
Whittingham**

Non-Executive Director

- Key figure in the invention of the Lithium-ion battery technology and awarded the 2019 Nobel Chemistry Prize.
- Has headed large projects for the US Department of Energy, Exxon and Schlumberger.
- Distinguished Professor of Chemistry at Binghamton University, part of State University of New York



**Peter
Tsegas**

Non-Executive Director

- 15+ years experience in Tanzania engaging both private and public sectors on projects; Tanzanian resident
- Previous consulting roles to the Tanzanian government and to a number of mining companies including Rio Tinto



**The Hon. Troy
Grant**

Non-Executive Director

- Former Deputy Premier of New South Wales and leader of The National Party
- Distinguished career over three decades in public, private and government sectors.
- Former Police, Emergency Services, Justice, Hospitality, Gaming and Racing and Arts Minister.
- Runs successful consulting practise



Primary Technology Partner

Charge CCCV LLC (C4V)

- ⚡ Dr. Shailesh Upreti has been awarded **numerous patents** for composition of matter inventions with over 20 years of Li-ion battery experience
- ⚡ Prof Stanley Wittingham, **inventor of Lithium Ion Batteries**, is part of a leading center of excellence for LIB development located within Binghamton University
- ⚡ World class **\$300m+ development facilities** with capabilities for Materials engineering, Cell fabrication & Cell testing



C4V
Charging Ahead!



Dr. Shailesh Upreti



Professor Stanley Wittingham



Global Industry Partners



Key Ingredient to Lithium Ion Battery Success

🔌 Siemens

Agreement signed March 5, 2018 covering global LIB plant opportunities

- 🔌 World leader in LIB factory digitization, automation and in-line manufacturing technology

🔌 Celgard

Joint Development Agreement signed 13th Feb 2018

- 🔌 Global market leader of separators for Lithium-ion batteries with 40+ years experience
- 🔌 Subsidiary of global chemicals manufacturer Asahi Kasei

A **POLYPOR** Company

🔌 Durr MEGTEC

Strategic Partnership Agreement signed 20th Mar 2018

- 🔌 Manufacturer of world leading double sided coating equipment driving low footprint, increased efficiency, and significant capital and operating cost advantages

🔌 Additional Global Industry Partners (Commercial in Confidence) for:

- 🔌 Electrolyte; Battery electrode materials; Cell forming; Cell assembly

New York Lithium-ion Battery Plant



iM3NY (Imperium3)

- ⚡ Magnis **owns 58%** of New York Plant
- ⚡ Manufacturing facility and plant located in Huron Campus with **first production expected 2020** subject to project funding
- ⚡ **Offtake agreements signed** with various parties
- ⚡ **Equipment valued at over US\$71.34 M** purchased from Alevo (valuation recently completed by independent engineering group Ramboll)
- ⚡ NY State Government announced **US\$13.25M funding package**
- ⚡ Campus at Huron could **support 4-5 GWh**



Huron Campus site, New York



Cathode Welding machine, example of assets purchased in February 2018



iM3NY (Imperium3)

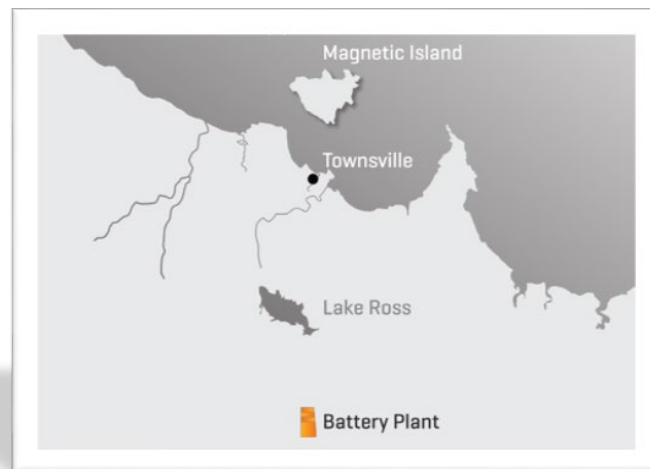
- ⚡ Cutting-edge technology, including **technology exclusively licensed** from C4V
- ⚡ **AI analysis** makes iM3NY batteries superior + cheaper with time
- ⚡ State-of-the-art manufacturing & global partnerships to scale from **1 GWh to 15 GWh**
- ⚡ Manufactures batteries in a **highly scalable fashion** with factory continuously upgrading, ensuring seamless upgrades at Customer Site with no required changes to next-gen factory
- ⚡ **100 MW** on-site Power Plant





Australian Battery Plant

- 🔌 Queensland Government funded **feasibility study completed and approved** (August 2020)
- 🔌 **National Australia Bank appointed** Financial Advisor to the project
- 🔌 Townsville Project template for **18 GWh manufacturing plant** being established
- 🔌 Major global partners and all forms of government supporting the project
- 🔌 At full production annual revenues of over **US\$3.5 Billion annually**

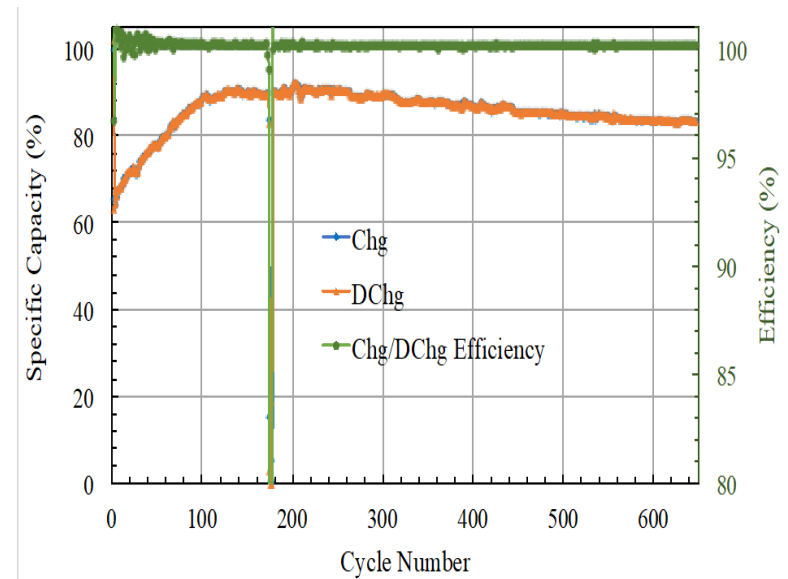




Game Changing Battery Technologies

Fast Charging

- ⚡ Over 85% charge achieved in 6 minutes.
- ⚡ Demonstration program for New York State Transit Buses with BAE Systems, Consolidated Edison and funded by NYSERDA.
- ⚡ Potential game changer for the transportation industry.
- ⚡ Discussion have begun with major overseas OEM's



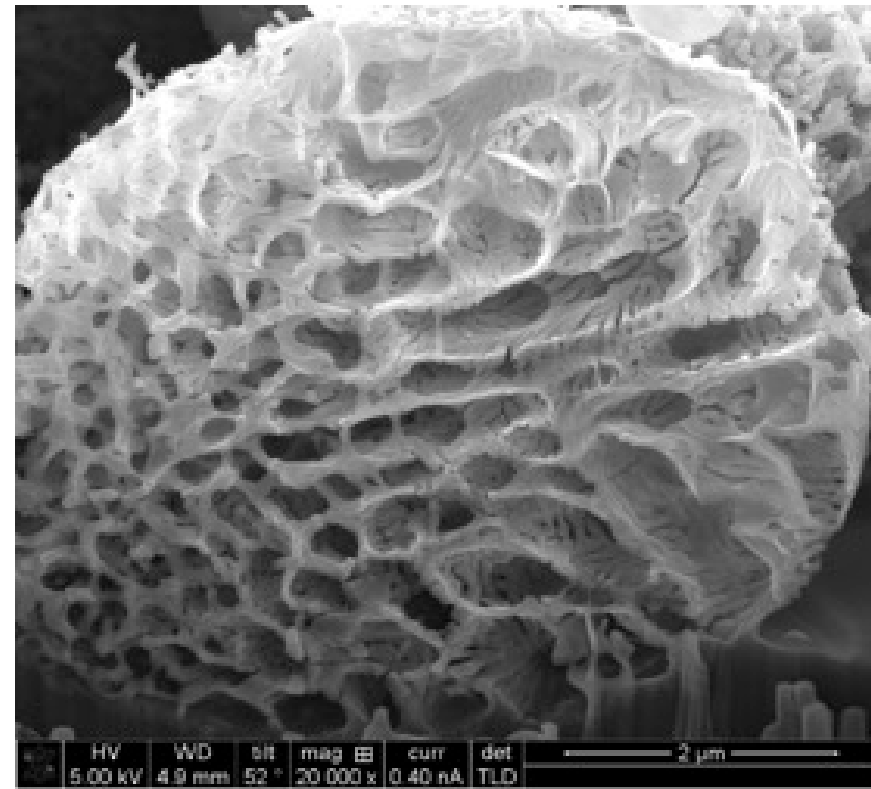


Game Changing Battery Technologies

Anode

- ⚡ Patent protection in over 35 countries.
- ⚡ Strong green credentials - no downstream chemical or thermal purification required
- ⚡ Lowest cost producer of spherical graphite above 99.95%TGC purity.
- ⚡ Graphite and silicon anode blend the next generation of high performance anode material.
- ⚡ Potential to deliver significant increase in mileage and power.
- ⚡ Test work and commercial validation for 10% silicon additive blended with Nachu coated spherical graphite

Internal view of silicon composite particle





Cathode - **BMLMP**

- ⚡ **Patent protection** for our Cathode composition in over 35+ countries. (refer to appendix)
- ⚡ **High performance** and long life technology
- ⚡ **Low cost due to no nickel and cobalt**
- ⚡ **Greater reliability** made with commercial processes, fully transferable to Gigafacilities
- ⚡ Raw materials used in plentiful supply
- ⚡ Wide range of applications due to no compromise between life, energy density and power



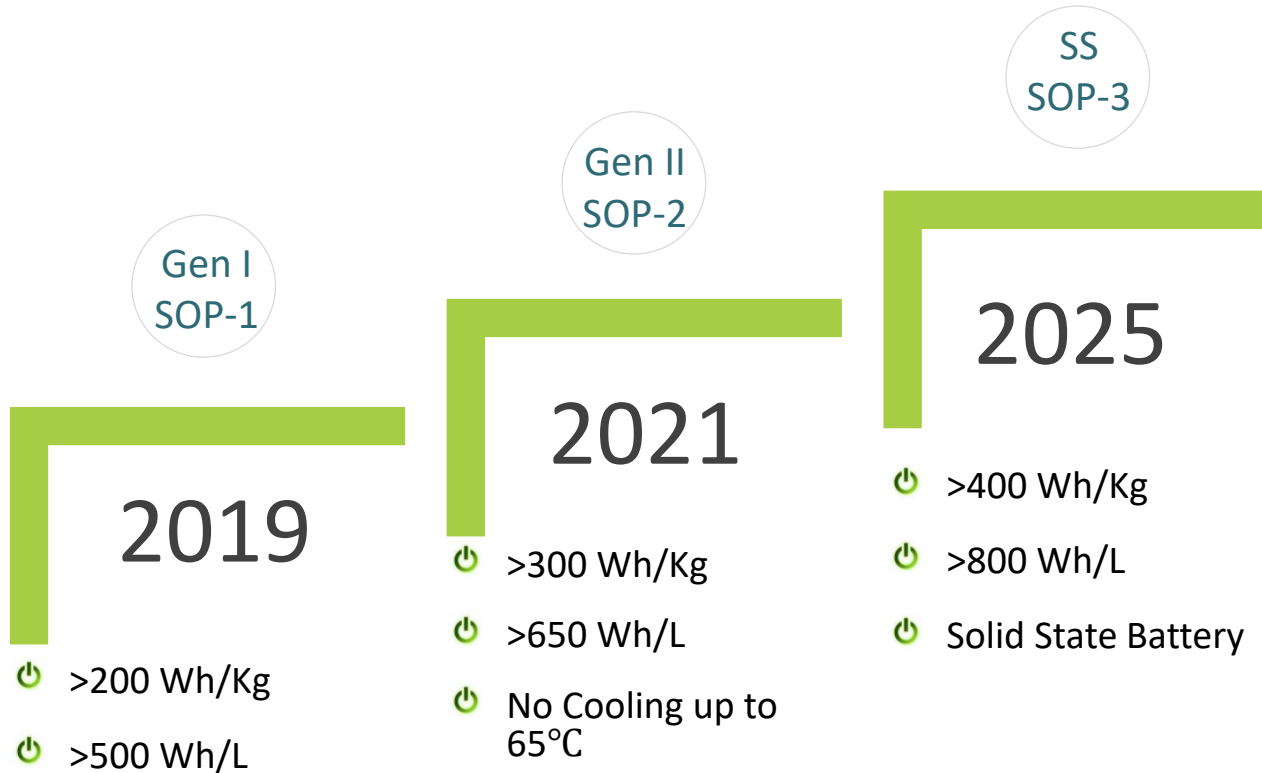
Cathode Material	Voltage (V)	Capacity (Ah/kg)	Cell Energy (Wh/kg)
LFP	3.3	150	130
NMC	3.7	155	215
NCA	3.6	180	238
BMLMP	3.9	160	230



Magnis Battery Technology Roadmap



Generation II & Solid State

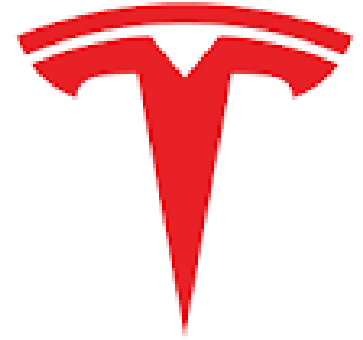


NOTE : Our Gen II and Solid State Lithium-ion Battery technology roadmap is being developed within the scope of our existing manufacturing equipment supply chain. Only minor changes to our production environment are required in supporting our Gen II and SS technology roadmap. This will allow Magnis to avoid significant additional capital costs when technology improvements are implemented.



Potential Future Value

- ⚡ Contemporary Amperex Technology Company (CATL) is a Chinese battery manufacturer and technology company founded in 2011 that specializes in the manufacturing of lithium-ion batteries for electric vehicles and energy storage systems, as well as battery management systems
- ⚡ CATL is the **largest pure cell manufacturer** listed on the Shenzhen Stock Exchange
- ⚡ 2019 production estimated at 15GWh with plans to **increase to 80GWh in the next 10 years**
- ⚡ Closing price at September 1st 2020 equates to a **market cap of US\$61B***
- ⚡ Magnis involved in multiple plants worldwide
- ⚡ CATL derives its value based on its GWH which is approximately **US\$3-4B per GWH**
- ⚡ **Tesla signed a deal** with CATL for it to supply the carmaker with batteries, which begin shipping in July 2020



TESLA

CATL



Nachu Graphite Project

⚡ Political Landscape / Permits / Shovel Ready

⚡ SEZ Recap

- ⚡ SEZ license permits 100% ownership by Magnis Resources Limited
- ⚡ Legislative amendments allow for International Arbitration if disputes arise
- ⚡ Revenues from product sales to be paid into overseas bank accounts – defraying major sovereign risk
- ⚡ Fiscal stability ensured with a range of incentives including a favorable 10-year corporate tax-free period

⚡ EPC Agreement signed with China Metallurgical Corporation

⚡ RAP payments / Relocations Complete

⚡ Project Funding – active options ongoing

- ⚡ JV partners and debt equity financing options being explored
- ⚡ Site Visits have taken place with more planned





Milestones

Technology

- ☐ **In Progress:** Optimize different cell manufacturing processes to further enhance performance
- ☐ **H2 2020:** Finalise Funding

Battery Plants

- ☐ **H2 2020:** Commence equipment reassembly + hiring key staff
- ☐ **H1 2021:** Commissioning complete + first production
- ☐ **H2 2021:** Begin commercial production



Share Metrics

Capital Structure

ASX Code	MNS
ASX Share Price (02/09/2020)	A\$0.19
52 week Low - High	A\$0.047 – 0.28
Shares on Issue	720 million
Market Capitalisation	A\$134 million
Unlisted Options (all out of the money)	9 million
Average Daily Volume (100 days)	2.92 million
Debt	A\$0.0M

Major Shareholders

Shareholder	Shares (M)	Ownership
Citicorp Nominees Pty Ltd	75	13.1%
Mazdel Pty Ltd	58	8.4%
Board & Management	30.1	4.8%
BNP Paribas Noms	23.0	3.6%

MNS 52-Week Chart





Why Magnis?

Highlights

- ⚡ **Global Opportunity** to make a direct investment into the rapidly growing Lithium-ion Battery (LIB) sector via Magnis.
- ⚡ **Unique IP** with our next generation anode & cathode battery materials, which have patent protection in over 35 countries. Leading particle engineering IP for our raw material processing.
- ⚡ **The People to Execute** with highly experienced & credible Board of Directors. Unrivalled capabilities and expertise in LIB, Automotive Innovation & Mining sectors.
- ⚡ **Substantially lower power cost** due to IBM's existing infrastructure at New York plant
- ⚡ **End to end Supply Chain Management** and control. Global procurement strategy which includes raw material acquisition and processing.

Business & Technology Advantages

- ⚡ Lower Cost
- ⚡ Increased Life
- ⚡ Better Performance
- ⚡ High Manufacturing Yield
- ⚡ Higher Energy Density
- ⚡ Higher Safety
- ⚡ Scalability



MAGNIS

ENERGY TECHNOLOGIES

**Suite 9.03, Aurora Place
88 Phillip Street
Sydney, Australia NSW 2000**

Phone: +61 2 8397 9888
Email: info@magnis.com.au
Website: www.magnis.com.au

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