



MAGNIS
ENERGY TECHNOLOGIES

Corporate Presentation

NOVEMBER 2021

Forward Looking Statements



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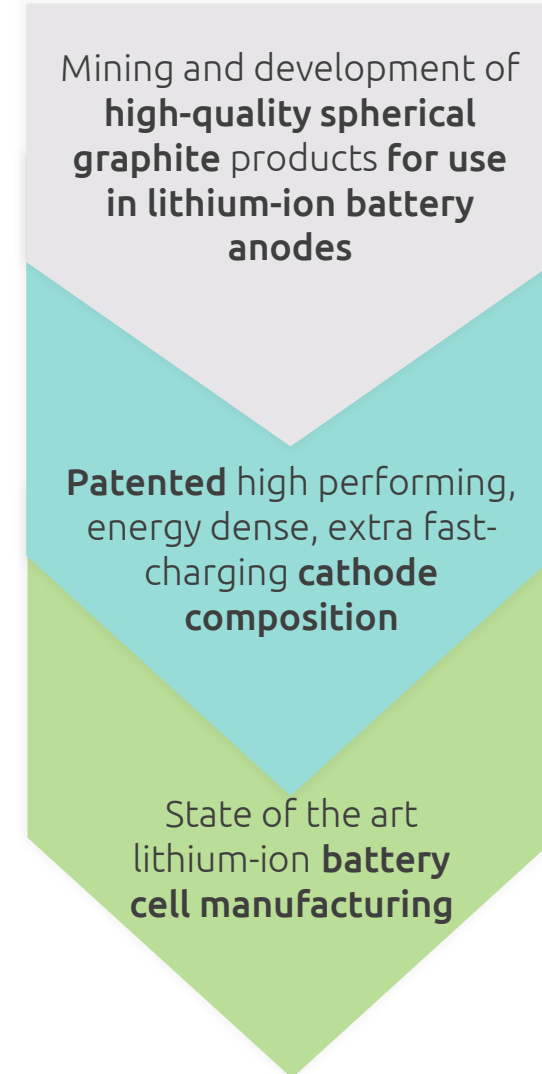
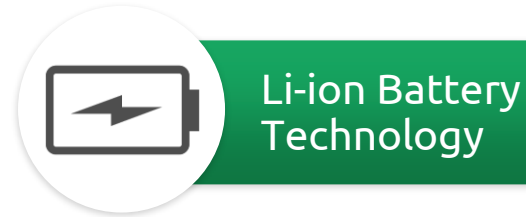
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A vertically integrated global player in the lithium-ion battery value chain of electric vehicles and clean energy storage



Global Opportunities

OUR GLOBAL PARTNERS



(iM3NY) New York Battery Plant

- Fully funded for 1.8GWh of production
- Plant build-out 33%
- Future plans for 32GWh production



(C4V) Li-ion Technology Firm

- Patented Cathode and Anode Technologies
- Technology and Manufacturing supply chain solutions provider



Nachu Graphite Project - Tanzania

- High quality graphite project
- Shovel ready and BFS completed

Australian Battery Plant

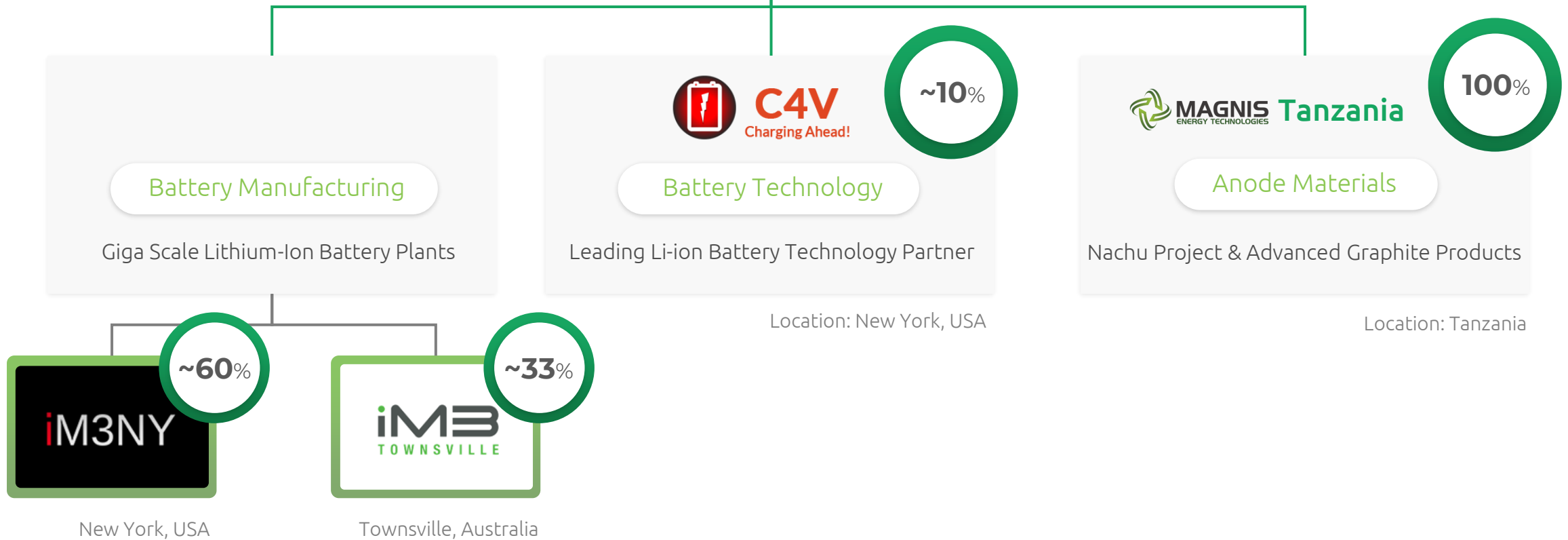
- QLD Funded Feasibility study approved in 2020
- Future plans for 18GWh production

Company Verticals



Magnis Energy Technologies

Domicile: Australia



Corporate Snapshot



CORPORATE OVERVIEW

MNS

ASX Code

MNSEF

OTC Markets Code

A\$0.44

Share Price*

A\$414M

Market Cap*

A\$88M

Cash**

A\$12.5M

Turnover: Last 30 Days

964M

Shares on Issue

88M

Unlisted Options
50c Expiry

14¢ - 76¢

52 week Low - High



Source: Refinitiv

* As of 19th November 2021

** Consolidated Group position as of 30th September 2021

ASX:MNS

Magnis Energy Technologies

Board & Management

Offering world-renowned, highly skilled and unparalleled experience



Frank Poullas

Executive Chairman

25 years in investment markets, technology and engineering sectors. Involved in successful ventures within the lithium-ion battery materials and energy space .



Zarmeen Pavri

Independent Non-executive Director

Over 25 years experience in financial services sector ESG, Impact Investing and Funds Management background. Previous leadership roles at Pengana Capital, JP Morgan and BT Board or Advisory Board Member at Uethical Investment Management, Apostle Ethical Balanced Fund.



Prof M. Stanley Whittingham

Non-executive Director

Key figure in the invention of the Lithium-ion battery technology and awarded the 2019 Nobel Prize in Chemistry. 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.



Mona Dajani

Independent Non-executive Director

20+ years of practice experience as a dual qualified lawyer in the US and UK. Leads Pillsbury Winthrop Shaw Pittman's Renewables practice and co-leads Energy and Infrastructure Project Teams. Lead lawyer in complex acquisitions, financing and project development transactions.



Mugunthan Siva

Independent Non-executive Director

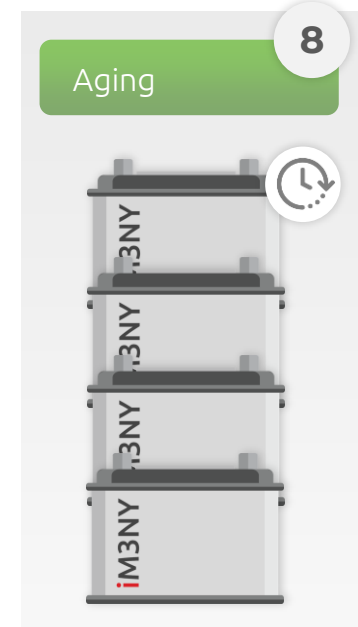
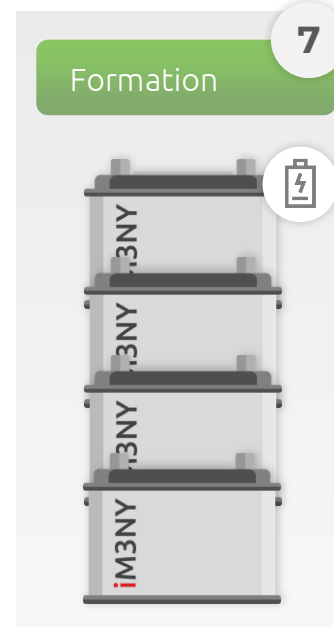
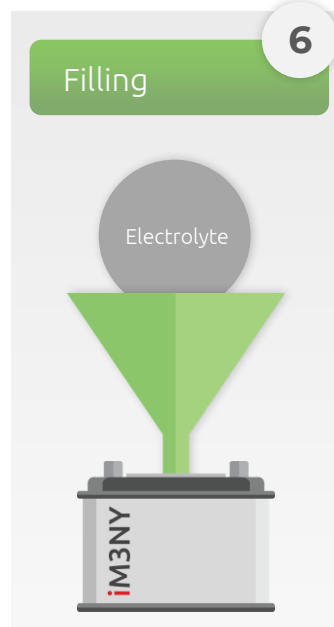
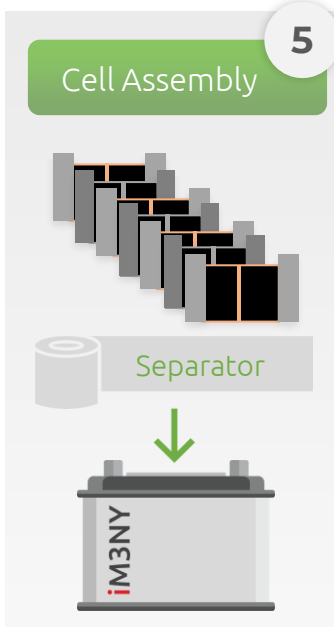
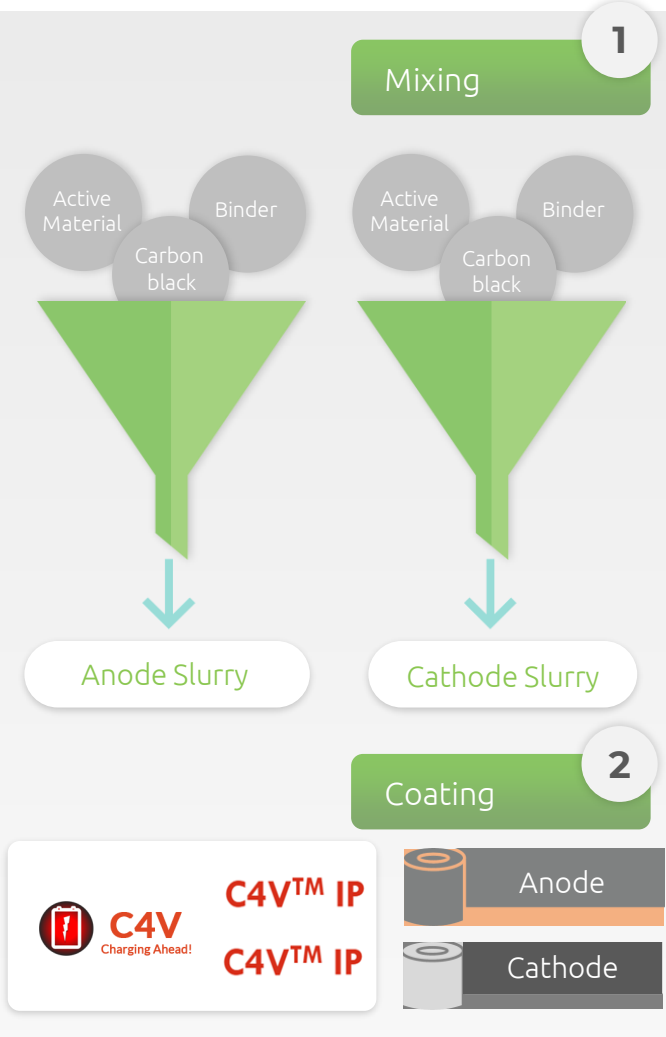
Over 25 years experience in financial services both locally and overseas. Managing Director and co-founder of India Avenue Investment Management. Previously held senior roles in ANZ Private Wealth, ING Investment Management Australia and India, Macquarie Bank, Westpac and ING.




Battery Manufacturing Process

Cell Manufacturing Process


iM3NY



iM3NY's innovative cell design and process advancements result in a higher product quality and lower environmental impact



iM3NY has reviewed environmental (air emissions) regulatory requirements and implemented measures to go way above and beyond the minimum limits





Battery Manufacturing

New York Battery Plant

iM3NY



~**60%** Ownership

Fully funded for 1.8 GWh production

iM3NY to produce **one of the greenest batteries in the world** as per report by NYSERDA

32 GWh

To be manufactured by 2030

iM3NY holds the exclusive rights to various patented technologies from C4V for the US Market



At **1.8Gwh** production, can produce over

4.4 million cells annually

NY Lithium-ion Battery Plant Update

- New York Plant Status as of October – 40% complete
- Machinery roll-out begins with internal works nearing completion
- All permits granted by the New York State Government
- Dry room construction underway
- Semi-automated production to begin this quarter
- Safety - Zero incidents to date in September



Consul General for Australia in NY and North East, The Hon Nick Greiner along with iM3NY Chairman Dr Shailesh Upreti inside the New York Lithium-ion Battery Plant

NY Lithium-ion Battery Plant Progress to Date

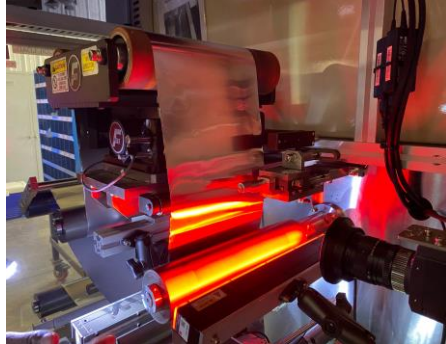
Jun-21



18% Complete

- Environmental Justice Plan Secured
- Facility clear out work begun
- Construction material for facility customisation work has begun arriving at site
- Collaboration with Ramboll Group working through crucial design feed information

Jul-21



23% Complete

- Facility clear out work completed
- Collaboration with Ramboll Group continues on heat load, exhaust information for dry rooms, chemical storage etc
- Public review of Air permit has had no objections and on track to be granted

Aug-21



29% Complete

- Machinery roll out begins
- Internal works nearing completion
- Anode coating line at the factory floor
- Review of electrical switchgear and HVAC proposals

Sep-21



33% Complete

- Air permit granted
- Construction of the Dry Room has begun
- Continued conversation with process equipment vendors

Oct-21



40% Complete

- Dry room has progressed with completion of the plenum and construction of the main walls have begun
- De-humidifiers secured in their final location
- Ramboll has purchased the distribution panels and other electrical equipment
- Acquirer permit granted



Battery Manufacturing

Townsville Battery Plant

iM3TSV



~**33%** Ownership

Queensland Government funded feasibility **study completed and approved** (August 2020)

18 GWh

To be manufactured, once **Townsville Project Plant** is established

Major global partners and all forms of government **supporting the project**



At full production, potential revenues of over

US\$**3.5** billion annually



Battery Technology

Cathode - BMLMP

C4V



Magnis' technology partner C4V has developed a **patented** and **commercialised** bio-mineralising process (BMLMP) **will add 15-20% nominal cell voltage to the popular LFP chemistry** with significantly higher energy density and a higher cycle life

Barriers to battery adoption:

- Speed of charging
- Safety
- Energy density
- Cost
- Lifespan

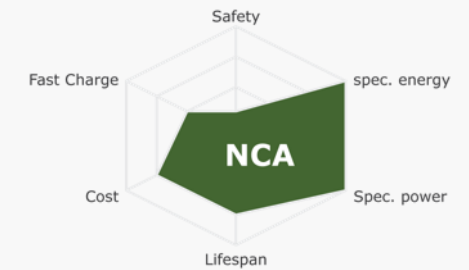
IM3 has first mover advantage through C4V's **commercialised** battery technology which improves on current barriers

Currently available commercial battery chemistries are shown below

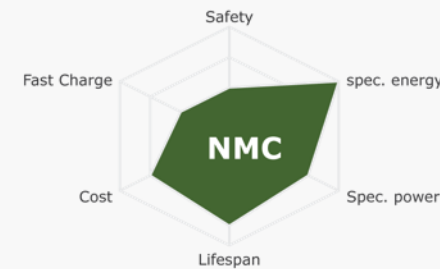
Small Manufacturer



TESLA



CATL



iM3NY



Source: C4V & iM3NY



Battery Technology

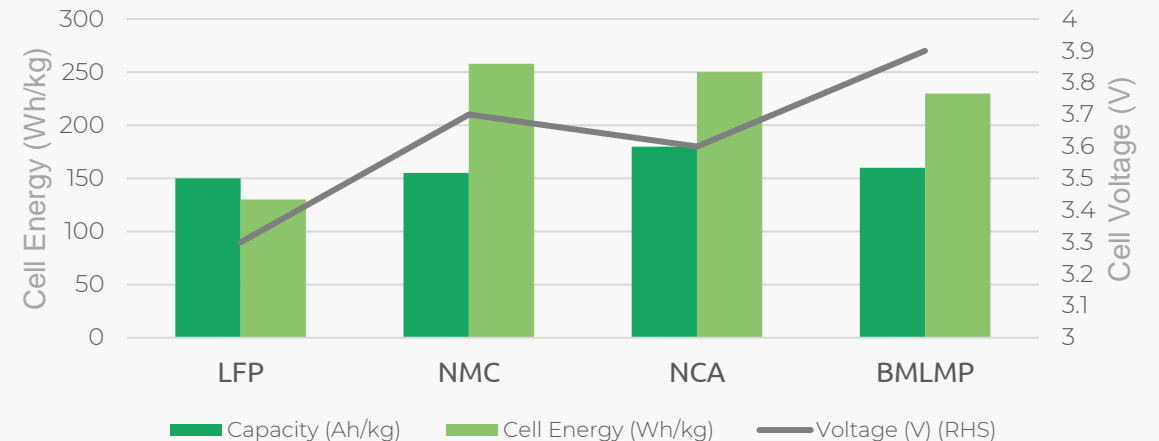
Intellectual Property

C4V



- **Environmentally friendly, low cost and greater safety due to no nickel and cobalt**
- **Non-China supply chain**
- Wide range of applications due to no compromise between life, energy density and power
- **Over 75% retention following >2500 cycles with Fast Charge** program 30 min charge & 30 min discharge
- **Extra Fast Charging (EFC)** program expected to deliver **over 85% charge in 6 minutes**
- **C4V also provides value chain solutions for Lithium-ion battery manufacturing** through cell design, qualification of equipment suppliers and raw material supply chain, blueprint of plants and engaging with EPC contractors
- **Patent protection** for C4V Cathode composition in over 30 countries

Cathode Material	Voltage (V)	Capacity (Ah/kg)	Cell Energy (Wh/kg)
LFP	3.3	150	130
NMC	3.7	155	258
NCA	3.6	180	250
BMLMP	3.9	160	230





Anode Materials

Graphite Project

Nachu



BFS completed for an average 240ktpa graphite concentrate produced over an initial reserve-backed **15-year mine life**



40% in jumbo and super jumbo size flakes for premium markets



Granted **10-year SEZ Licence by Tanzanian Government**. SEZ license permits 100% ownership by Magnis



High quality graphite not requiring any chemical leaching. (i.e. no hydrofluoric or hydrochloric acid) Saving ~US\$1,000/tonne)



Lowest cost producer of coated spherical graphite above 99.95% TGC purity



240ktpa Flake Graphite Concentrate with an average of 98.3% Total Graphitic Carbon (TGC)*

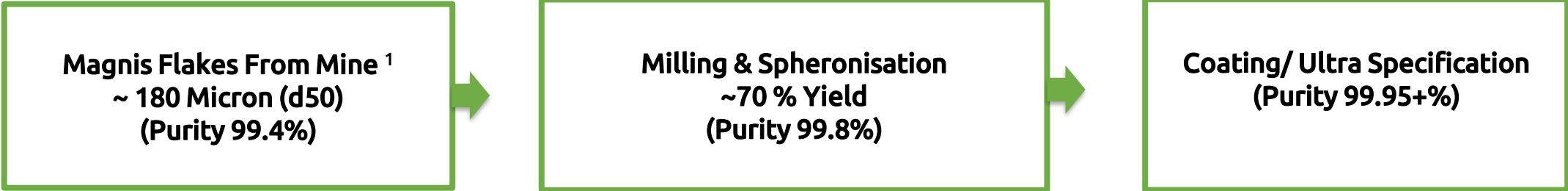
22ktpa - Super Jumbo Flake	77ktpa - Jumbo Flake	141ktpa - Battery Feedstock
<p>Size: +500 microns, +35 mesh</p> <p>Purity: 97.5% TGC</p> <p>Key markets: Aerospace, composites & niche markets</p> <p>Current pricing: US\$4,000-6,000/t CFR**</p>	<p>Size: 300-500 microns, +50/-35 mesh</p> <p>Purity: 97.0% TGC</p> <p>Key markets: Expandable graphite, composites & electronics</p> <p>Current pricing: US\$2,500-3,000/t CFR**</p>	<p>Size: Sub 300 microns, -50 mesh</p> <p>Purity: 99.5% TGC</p> <p>Key markets: Spherical graphite for use in Li-ion battery anodes</p> <p>Value-in-use pricing: +US\$2,100/t FOB**</p>

* Concentrate production rate over first 12 years of initial mine plan | ** Current pricing based on industry sources and end user discussions

Anode Materials

Li-ion Anode Development Program

Nachu

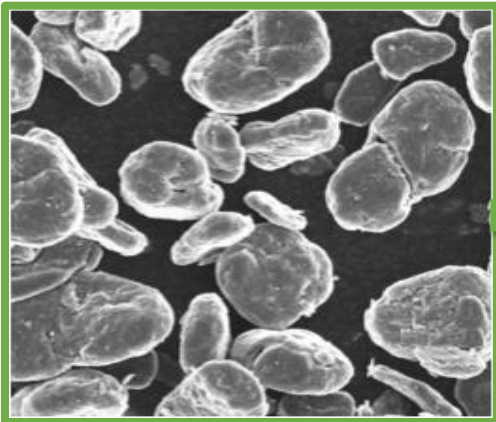
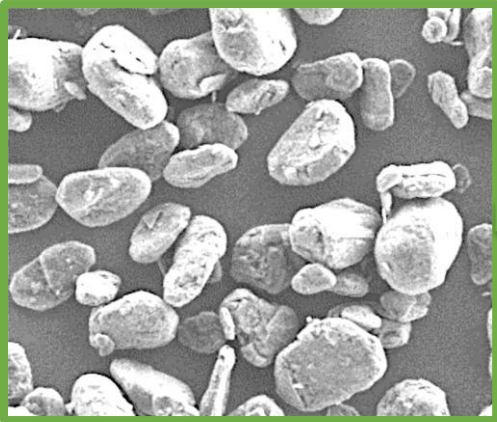
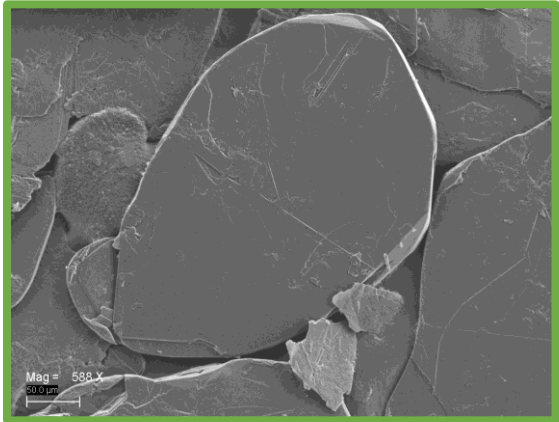


Magnis Graphite Flakes

Spheronised Graphite

Coated/Purified Graphite

Anode Laminate



Coin Cell Testing

- Highest purity graphite concentrate (>99%)
- Consistent quality of crystal with minimal imperfections in natural graphite flake lends itself to high performance and sustainable processing
- High yields (~70%) from milling and spheronising steps
- Extreme purity (99.95%+) coated anode

ESG / Environmental Footprint

Contributing to a sustainable future



Key player in the **Global Energy Transition and Decarbonisation** Mega-Trend

- A report by Abt Associates, commissioned by the New York State Energy Research and Development Authority highlights batteries produced by iM3NY to potentially be the greenest in the world
- High quality graphite concentrate means no use of environmentally harmful Hydrofluoric acid in the graphite cleaning process



Positive Social Impact on communities and workforce

- Zero Loss-time injury frequency rate (LTIFR)
- Education, training and relocation for Project Affected Persons in Tanzania
- Future job creation in Tanzania, Townsville and New York



Strong Governance Structure through newly created board with diverse skill sets

- Independent Directors at 57%
- Board Gender Balance at 33%
- Diverse Culture & Background of Board

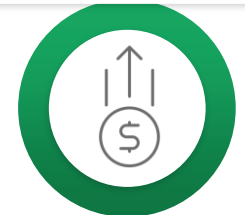
Socially Equitable



Environmentally Sound







Economically Feasible



SUSTAINABILITY

Potential Value



	Comparable	Current Market Capitalisation	Magnis Equivalent	Potential Value	Assumptions/Notes
 Battery Manufacturing	 XSHE: 300750	A\$ 300 B	iM3NY	A\$ 4 B	CATL is priced at ~A\$4B per annual GWh production. Magnis owns 60% and based on 1.8GWh for iM3NY
				+	
 Battery Technology	 NYSE: QS	A\$ 22 B	C4V	A\$ 2 B	Magnis owns 9.65% of C4V who already have commercialised technology and have solid-state battery technology IP
				+	
 Anode Materials	 ASX: NVX	A\$ 4 B	Nachu Project Anode Technology	A\$ 4 B	Magnis can produce a cleaner natural flake graphite anode material without any use of chemical leaching
				A\$ 10 B	Sum of the parts comparable valuation, excluding synergies

Milestones

Expected journey over the next 12 months

Battery
Manufacturing

Q2 2021

Commissioning complete and first production



Q4 2021

Begin semi-automated production



Q1 2022

Potential listing or private capital for 10GWh Scale



Q2 2022

Begin Fully-automated production



Battery
Technology

Q2 2021

Indicative Positive Extra Fast Charging Results from C4V's NYSERDA Project



Q4 2021

NY EFC Bus Program



Anode
Materials

Q4 2021

Potential Offtakes



Q1 2022

Finalise Nachu funding



Investment Rationale

Why Magnis Energy Technologies



Large Regulatory Tailwind



The US Department of Energy Advanced Technology Vehicles Manufacturing Loan Program plans to distribute US\$17 billion to support new research and domestic manufacturing of Lithium-Ion Batteries in the US

Highly Scalable, Decarbonisation Mega-Trend



A unique ASX listed play into large scale global Lithium-Ion Battery cell manufacturing critical for adoption of Electric Mobility and Energy Storage

Highly Experienced and Credible Board of Directors



Unrivalled capabilities and expertise in Lithium-Ion Batteries, Automotive Innovation & Mining sectors

World Class Intellectual Property



Partnering with technology partner C4V paired with our next generation anode and cathode battery materials, which have patent protection in over 35 countries

High Quality Graphite



A critical component in the anode of a Lithium-Ion Battery cells. East Africa will be a key supplier of higher-quality and larger flake graphite to the world compared to China who accounts for 70% of global supply

Commercialised Technology with Binding Offtakes



The New York plant already has ~A\$1bn of binding offtakes in place starting next year. This means the technology has already been qualified and is commercial ready



Thank you

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