



MAGNIS
ENERGY TECHNOLOGIES

Corporate Presentation

OCTOBER 2021

Forward Looking Statements



The summary information contained herein has been provided by Magnis Energy Technologies ("Magnis Energy Technologies" or the "Company").

No representation, expressed or implied, or warranty as to the accuracy or completeness of the information contained herein is made by any party and nothing contained herein shall be relied upon as a promise or representation as to the future.

In all cases, recipients should conduct their own investigation and analysis of Magnis Energy Technologies. The information is neither an offer to sell nor a solicitation of an offer to buy any securities. The contents of this presentation are confidential and must not be copied, published, reproduced, distributed in whole or in part to others at any time by recipients. This presentation is being provided to recipients on the basis that they keep confidential any information contained herein or otherwise made available, whether oral or in writing, in connection with the Company.

All statements in this presentation, other than statements of historical facts, which address future production, reserve or resource potential, exploration drilling, exploitation activities and events or developments that the Company expects to occur, are forward looking statements. Although the Company believes the expectations expressed in such statements are based on reasonable assumptions, such statements are not guarantees of future performance and actual results or developments may differ materially from those in forward-looking statements.

Forward-looking statements involve and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievements of the Company and/or its subsidiaries to be materially different from any future results, performance or achievements expressed or implied by the forward-looking information. Such factors include, among others, general business, economic, competitive, political and social uncertainties; the actual results of current exploration activities and feasibility studies; assumptions in economic valuations which prove to be inaccurate; possible variations of ore grade recovery or rates; climatic conditions; political instability; insurrection or war; arbitrary decisions by governmental authorities; delays in obtaining governmental approvals or financing or in the completion of development or construction activities.

To the extent permitted by law, the Company accepts no responsibility or liability for any losses or damages of any kind arising out of the use of any information contained in this presentation. Recipients should make their own enquiries in relation to any investment decisions.

Although the Company has attempted to identify important factors that could cause actual actions, events or results to differ materially from those described in forward-looking information, there may be other factors that cause actions, events or results to differ from those anticipated, estimated or intended. Forward-looking information contained herein is current as at the date of this presentation and the Company disclaims any obligation to update any forward-looking information, whether as a result of new information, future events or results otherwise.

There can be no assurance that forward-looking information or statements will prove to be accurate, as actual results and future events could differ materially from those anticipated in such information or statements. Accordingly, readers should not place undue reliance on forward-looking statements.

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



Anode
Materials

Mining and development of high-quality spherical graphite products for use in lithium-ion battery anodes



Battery
Technology

Patented high performing, energy dense, extra fast-charging cathode composition



Battery
Manufacturing

State of the art lithium-ion battery cell manufacturing using cutting-edge technology

Global Opportunities



CORPORATE OVERVIEW

MNS

ASX Code

A\$0.32

Share Price*

A\$89M

Cash**

A\$297

Market Cap*

929M

Shares on Issue

121M

Unlisted Options
50c Expiry

14¢ - 49¢ 52 week Low - High

* As of 20th September 2021

** Consolidated Group position as of 31st August 2021

New York Battery Plant

- Fully Funded for 1.8GWh of production
- Equipment and assets acquired
- Future plans for 32GWh production

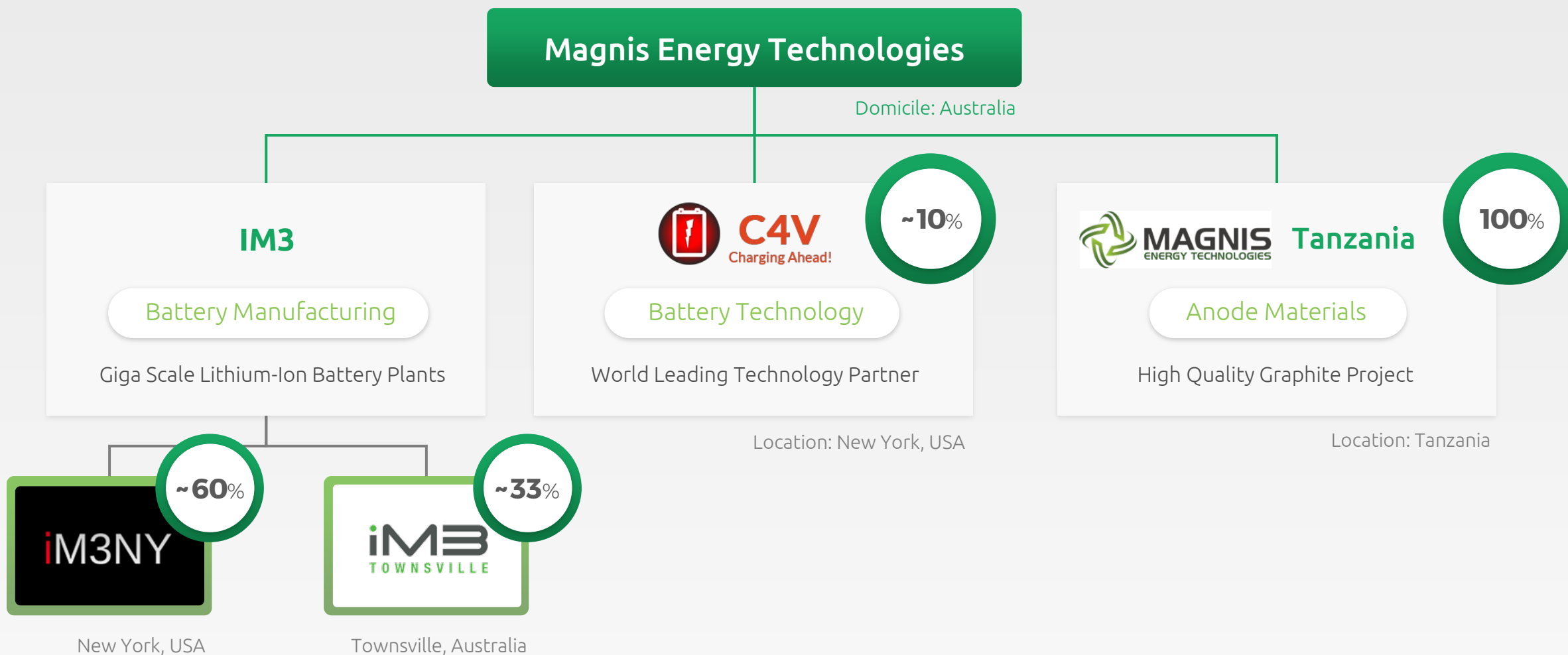
Nachu Graphite Project

- High quality graphite project
- Shovel ready and BFS completed

Australian Battery Plant

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

Corporate Structure



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.



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.



Dr Richard Petty

Independent Non-executive Director

Over 25 years experience as an advisor in major projects in Asia. Former B20 member and served on the B20 Finance and Infrastructure Taskforce, Former Chair of CPA Australia, Former Chair of Australian Chamber of Commerce Hong Kong and Macau. Currently Senior Investment Advisor and Board member to a number of Companies.



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.



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.



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.



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.

Lithium-Ion Battery Market Opportunity

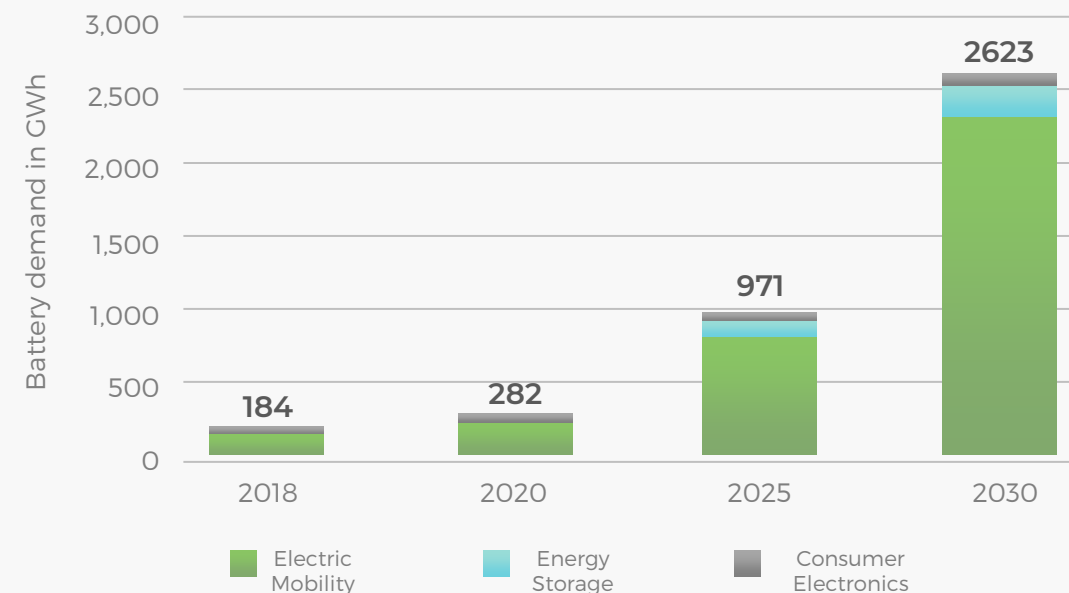


Key growth drivers:

- Regulatory tailwinds and government incentives
- Falling costs of electric mobility and storage
- Greater use of renewable energy with minimal carbon footprint
- Global battery market size was valued at **US\$36 billion** in 2020 and is forecast to grow to **US\$133-151 billion** by 2030

Magnis will be a key player in both **electric mobility** and **energy storage**.

Li-ion battery demand is forecast to grow 10-fold by 2030



Source: Bloomberg New Energy Finance

Graphite Market Opportunity



Graphite plays a critical role in the **anode** for EV batteries



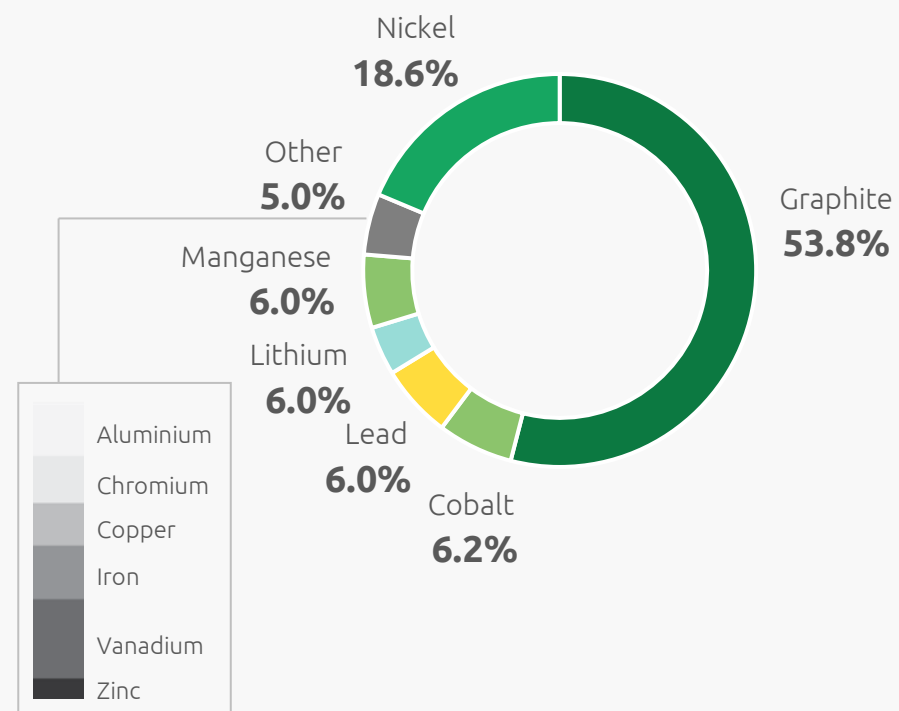
Graphite has been designated as a **strategic mineral** in the US, EU and Japan



Roskill predicts graphite **demand will grow** 23-27% p.a. through to 2028



East Africa is a **key source of supply** to diversify from **China** and for higher quality, larger flake graphite



Source: "Minerals for Climate Action: The Mineral Intensity of the Clean Energy Transition" World Bank

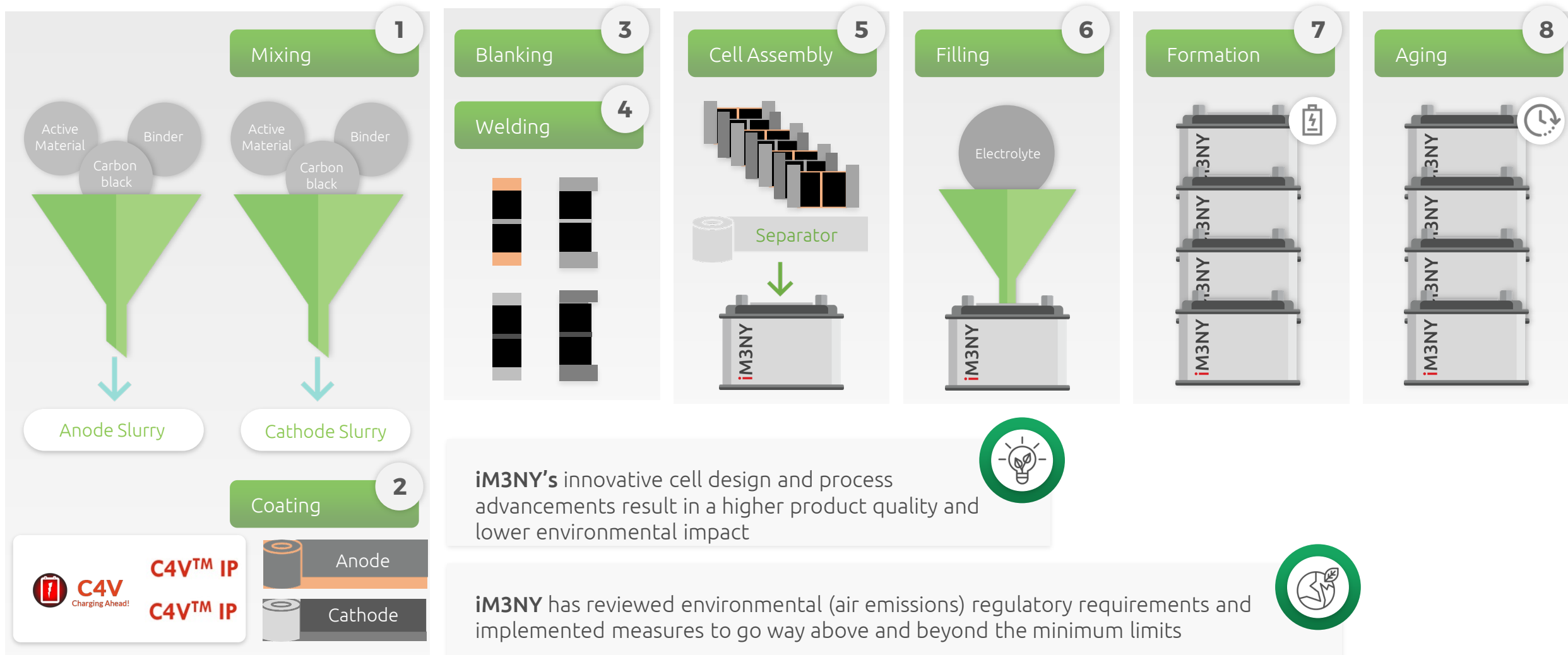
*2DS = 2-degree scenario (Global warming target of 2 degrees by 2050) as per the International Energy Agency (IEA).



Battery Manufacturing Process

Cell Manufacturing Process

iM3NY





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



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

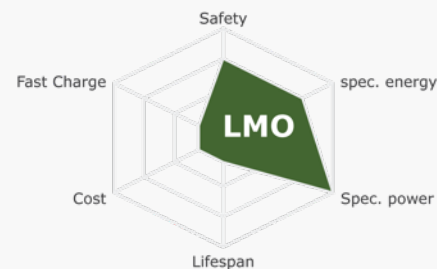
Barriers to battery adoption:

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

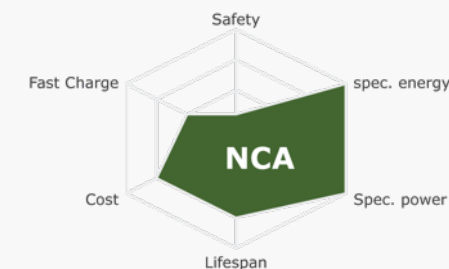
IM3 has first mover advantage through C4V's **commercialised** battery technology which improves on current barriers

Currently available commercial battery chemistries are shown below

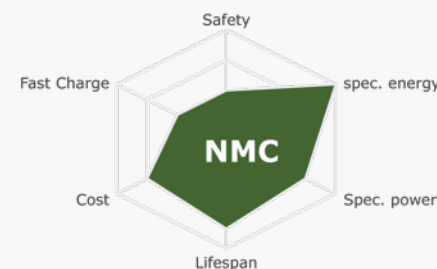
Small Manufacturer



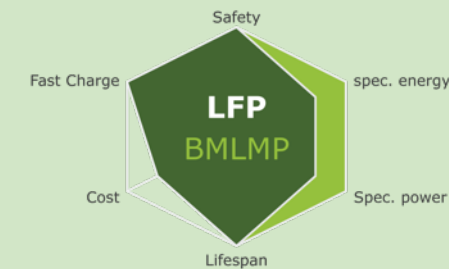
TESLA



CATL



iM3NY



Source: C4V & iM3NY



Battery Technology

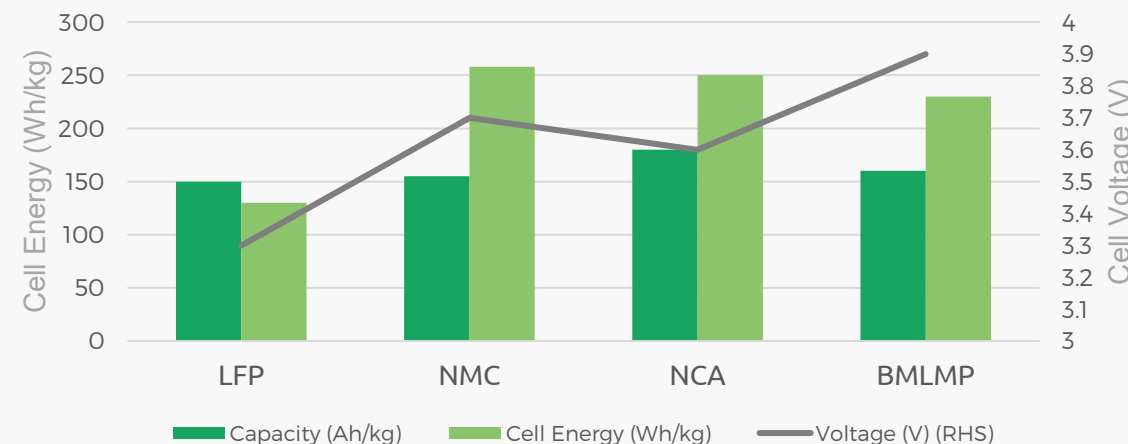
Intellectual Property

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

Nachu Graphite Project



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 Resources Limited



High quality graphite not requiring hydrofluoric acid cleaning and only needs spheronisation (saving ~US\$1,000/tonne)



Lowest cost producer of 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
Size: +500 microns, +35 mesh	Size: 300-500 microns, +50/-35 mesh	Size: Sub 300 microns, -50 mesh
Purity: 97.5% TGC	Purity: 97.0% TGC	Purity: 99.5% TGC
Key markets: Aerospace, composites & niche markets	Key markets: Expandable graphite, composites & electronics	Key markets: Spherical graphite for use in Li-ion battery anodes
Current pricing: US\$4,000-6,000/t CFR**	Current pricing: US\$2,500-3,000/t CFR**	Value-in-use pricing: +US\$2,100/t FOB**

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

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

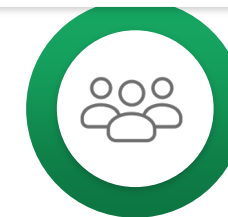
- Zero Loss-time injury frequency rate (LTIFR)
- Education, training and relocation for Project Affected Persons in Tanzania
- Future job creation in Tanzania, Townsville and New York



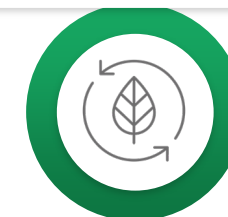
Strong Governance Structure through newly created board with diverse skill sets

- Independent Directors at 57%
- Board Gender Balance at 29%
- Diverse Culture & Background of Board

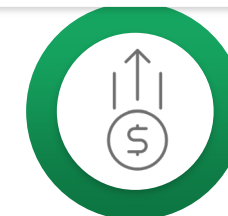
Socially Equitable



Environmentally Sound



Economically Feasible



SUSTAINABILITY

Magnis Impact Goals

Alignment to the UN Sustainable Development Goals



5.5 Ensure women's full and effective participation and equal opportunities for leadership at all levels

5.C Adopt and strengthen sound policies and enforceable legislation for the promotion of gender equality and the empowerment of all women at all levels



9.5 Partnership for R&D with C4V to develop more sustainable battery chemistries

9.B Support technology development, research and innovation in developing countries. C4V supplying technical knowhow and supply line contracts for lithium-ion plants to countries like India



7.2 Accelerate the green energy transition to enabling and supporting the build of highly cost-efficient battery cell manufacturing at our gigawatt factories

7.3 Reduce energy consumption and increase energy recovery across the battery value chain



12.2 & 12.4 Using more sustainable materials/ battery chemistries, incl. our breakthrough BMLMP technology

12.6 Encourage business partners to integrate sustainability information and strive for increased traceability for battery materials



8.1 Creating green jobs and economic growth

8.8 Securing labor rights and secure work environment through partnerships with suppliers with high ethical standards



13.2 Reduce energy consumption and increase energy recovery across the battery value chain

13.2 Aim to achieve by 2030, cell manufacturing based on renewable energy and minimizing carbon footprint in the battery value chain

Milestones

Expected journey over the next 12 months



Battery
Manufacturing

Q2 2021

Commissioning complete
and first production

Q4 2021

Begin commercial
production

Q1 2022

Potential listing or
private capital for
10GWh Scale in Phase-2

Q2 2022

Government funding
for exponential
production

Battery
Technology

Q2 2021

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

Q4 2022

NY EFC Bus Program

Anode
Materials

Q4 2021

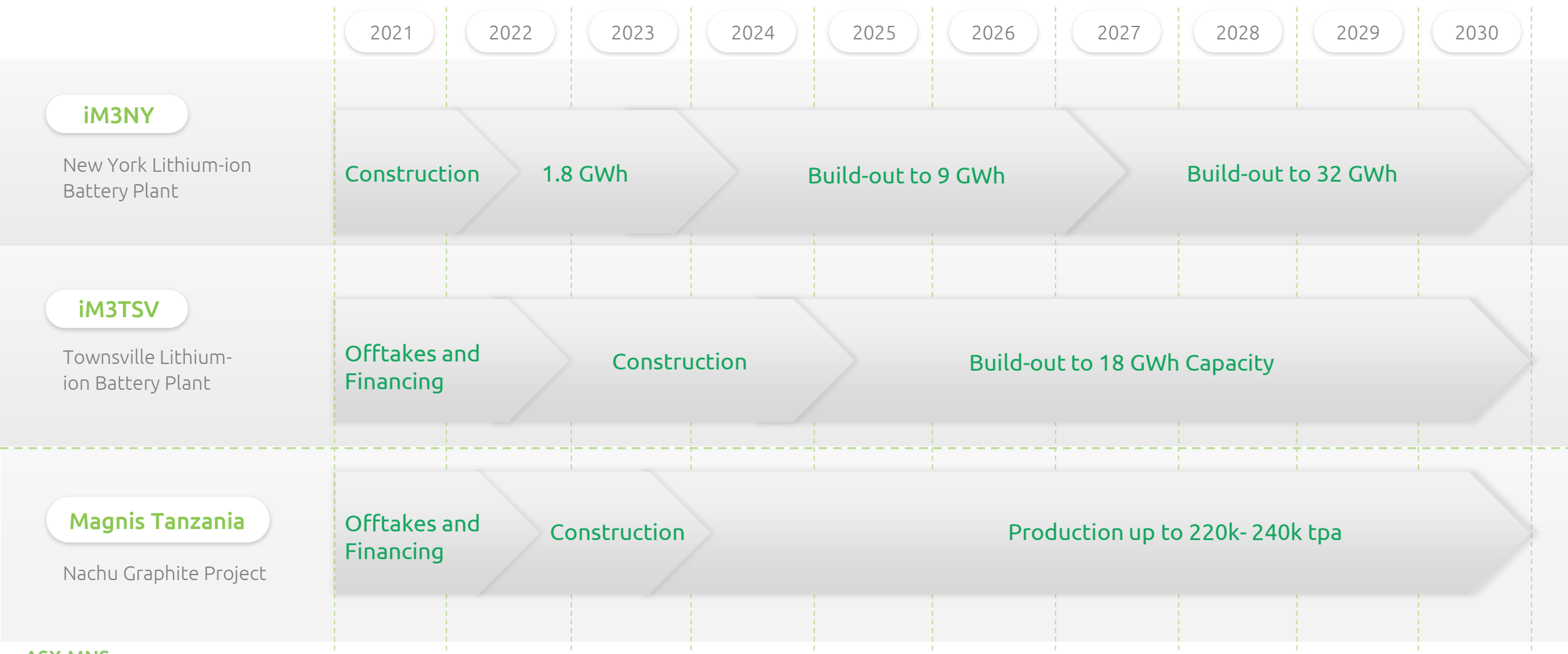
Potential Offtakes

Q1 2022

Finalise Nachu funding

Magnis' Growth Strategy

Expected journey over the next 10 years



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

Appendix

Four Phases of iM3NY Plant Construction



Figure 1. Full sized Lithium Cell produced at iM3NY

iM3NY and Danish Engineering Giant Ramboll have undertaken a phased approach to the construction of the lithium-ion battery plant facility.

Phase 1 - The pilot line, will consist of existing facility infrastructure, demolition and abatement, process room design and construction, process equipment installations of the mixing/coating and formation equipment as well as the associated facility utility design and installations.

Phases 2 and 3 - Consist of building interior cell assembly/filling dry room construction and filling/cell assembly dry room process equipment and associated facility utility design and installations.

Phase 4 - The final engineering and construction phase of iM3NY's battery cell plant facility will consist of design and construction of the facility office space, quality control lab, maintenance, packaging, installation of formation and process equipment, and associated facility utility design and installation

IM3NY Plant Equipment

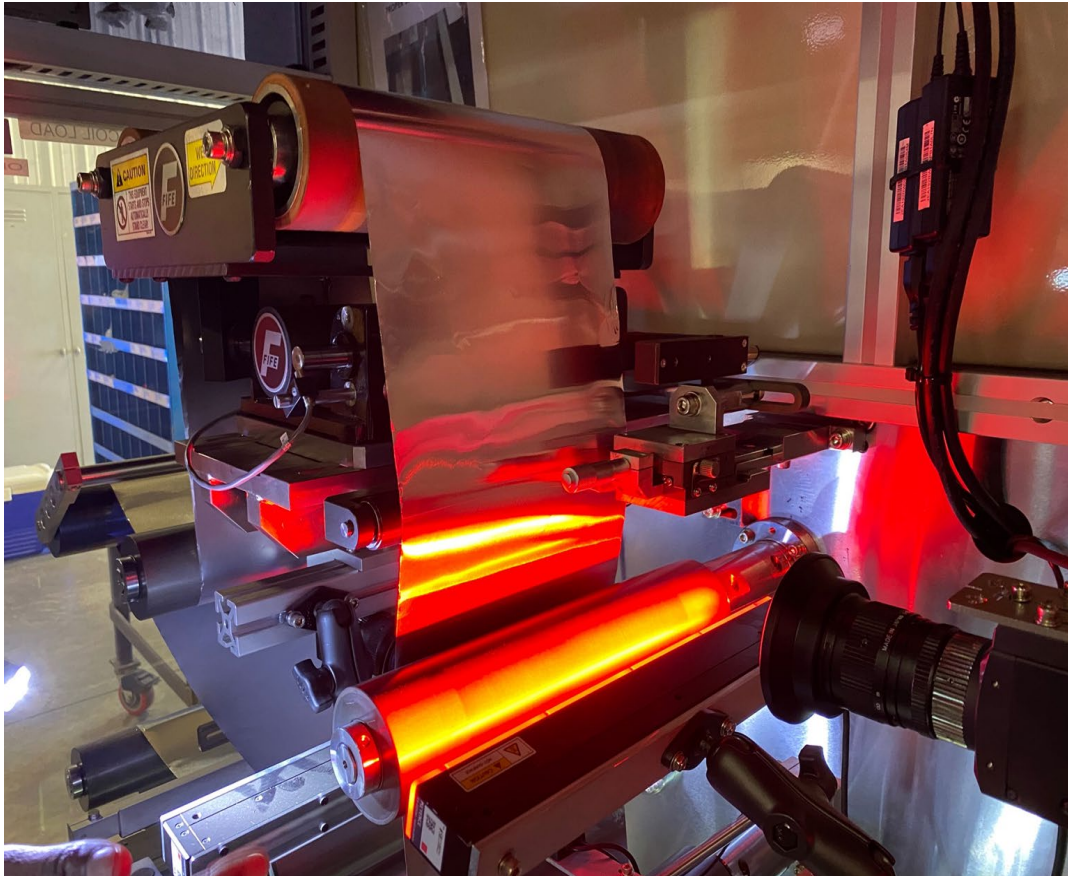


Figure 2. Stamper machines in iM3NY

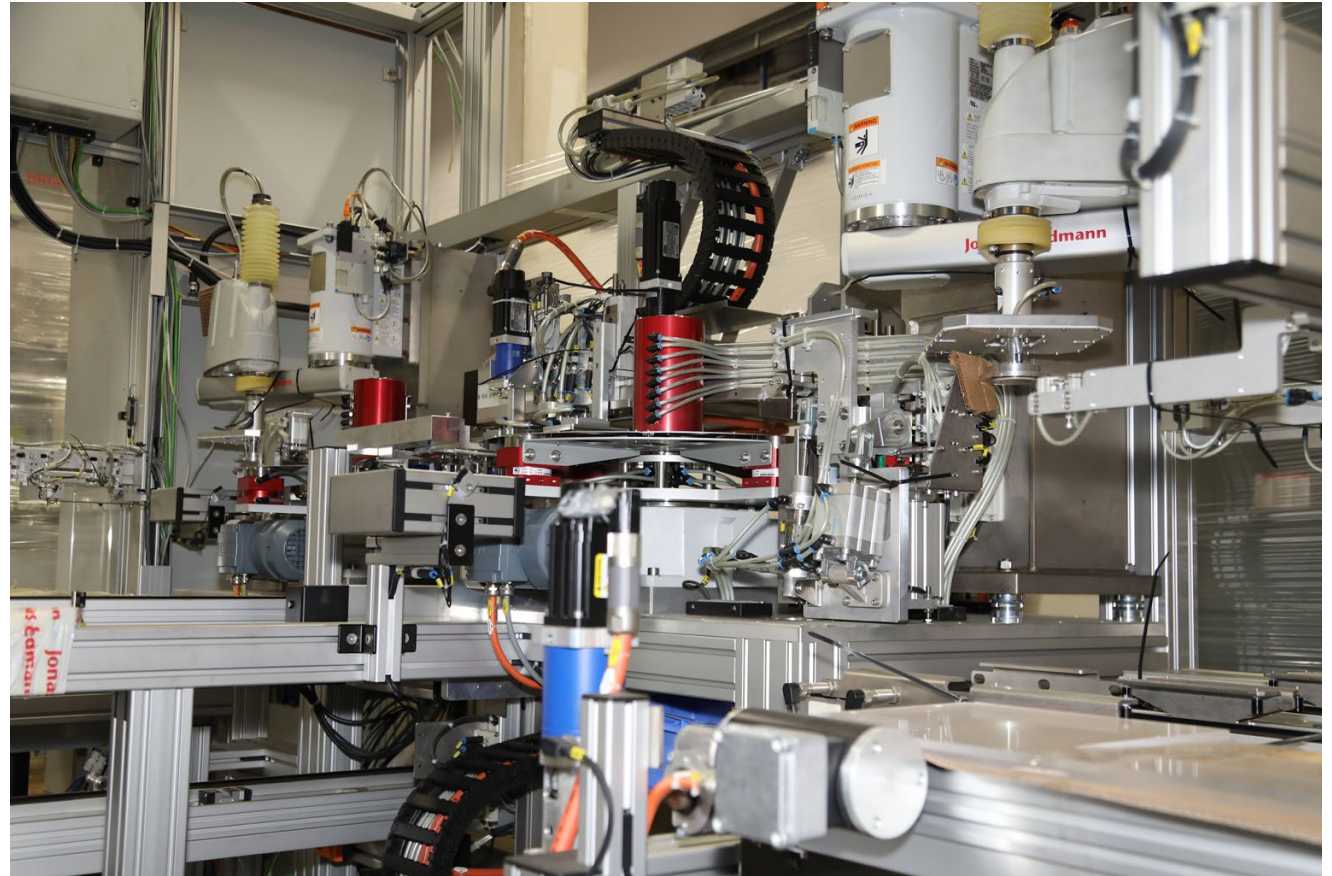


Figure 3. Robotic system used in the cell mechanical assembly process

Fast Charging Results

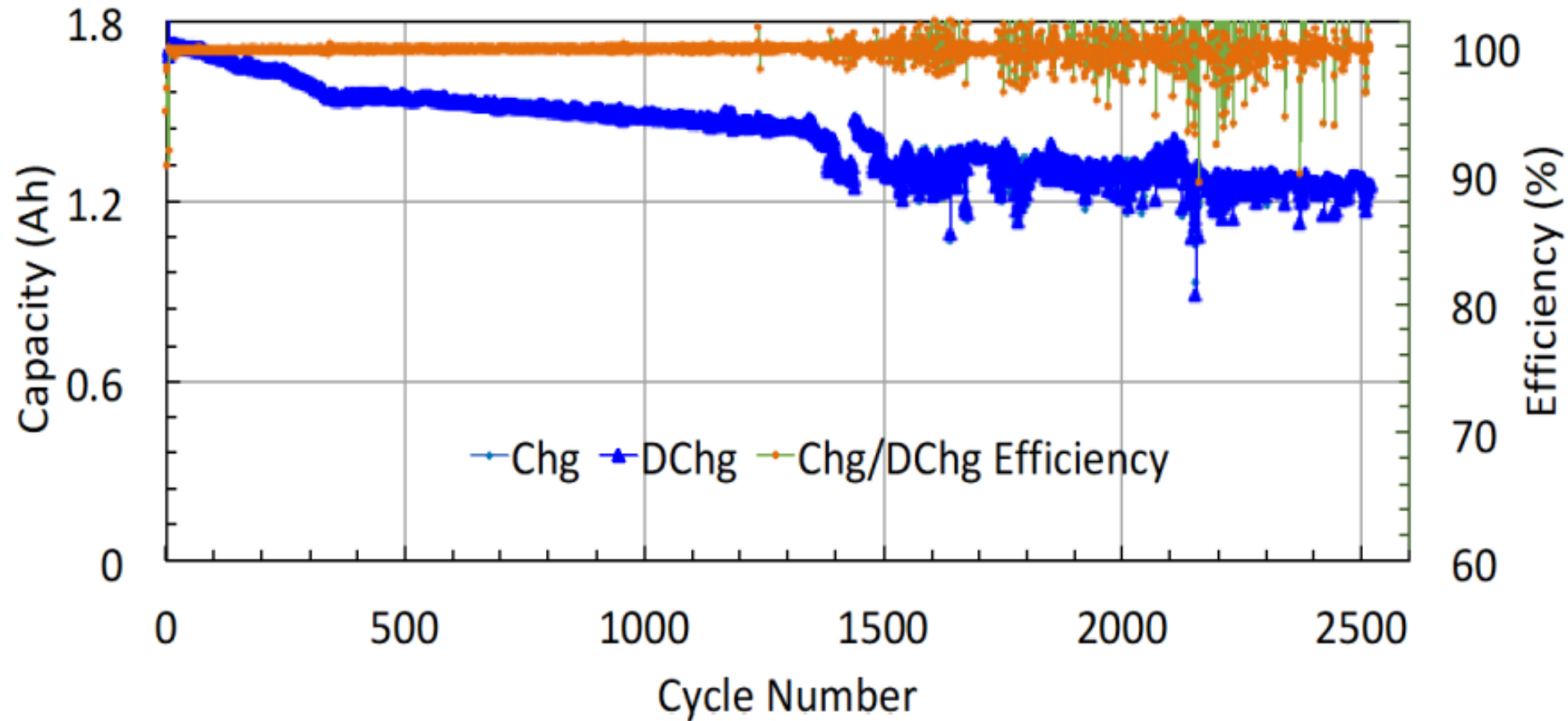


Figure 4. Optimised fast charging BMLMP cell cycling data at 2C-2C rates with 30 minute charge and discharge of the cell

Magnis Tanzania's Community Work



Figure 5. Renovated Classrooms At Matambarale Primary School



Thank you

CONTACT US

-  info@magnis.com.au
-  [@magnisenergytec](https://twitter.com/magnisenergytec)
-  +61 2 8397 9888
-  Suite 9.03 Aurora Place
88 Phillip St - Sydney NSW, 2000