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27 February 2023

PRESENTATION FOR LIVE WEBINAR

Further to the Company's announcement of 23 February 2023, please see attached Webinar presentation. Details of the webinar are set out below.

TOPIC: Update on cobalt market developments and the outlook for NCM battery cathodes amid rising market share of LFP cathodes.

Date: Tuesday 28 February 2023

Time: 5:00 PM AEDT

Format: Presentation update followed by Q&A

Duration: 45 minutes

Please register in advance for this free webinar: https://us06web.zoom.us/webinar/register/WN_QFpOrEx3Rw2dgDhE_A5n7A

After registering, you will receive a confirmation email containing information about joining the webinar.

For enquiries, please email <u>allysia.robinson@cobaltblueholdings.com</u>

Questions may be submitted ahead of time at registration or during the event using the webinar software.

This announcement has been authorised for release by the Company's Board of Directors.

Danny Morgan Chief Financial Officer (02) 8287 0660 28 February 2023

Investor Webinar

ASX: COB

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Webinar Agenda

- 1. COB update
- 2. The cobalt market
- 3. Developments in NCM and LFP Market Share
- 4. Influence of the Inflation Reduction Act/ Green Deal Industrial Plan response



Recent Key Milestones

- 1. Capital raise: Placement and shareholder entitlement raised A\$22m.
- 2. Feasibility Study (FS) progressing: Contracted engineering firms engaged, EIS fieldwork continues.
- 3. Demonstration Plant: Underground mining and concentrate processing complete. First large scale MHP expected shortly.
- **4. Project Partner discussions ongoing:** Targeting OEMs, manufacturers and traders across the battery supply chain.
- 5. Critical Minerals Accelerator Grant: (A\$15m) funds contributing towards FS delivery.



ASX: COB

BHCP: Demonstration Plant

Underground Portal



Concentrator Circuit





BHCP: Demonstration Plant

Horizontal vacuum filter belt & Pressure oxidation leach circuit

MHP (30% Co, 7% Ni) & Cobalt Sulphate (20% Co)



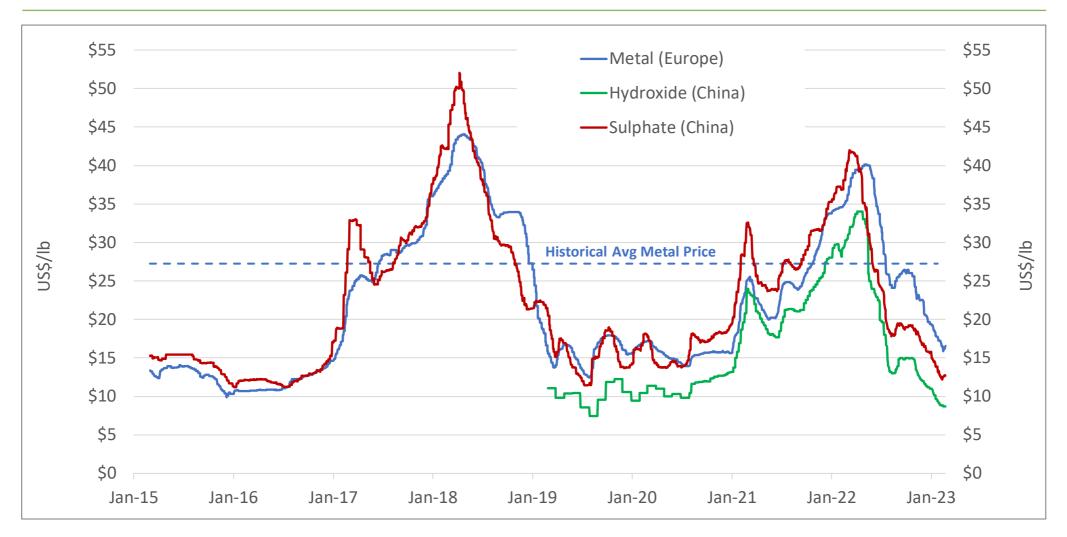






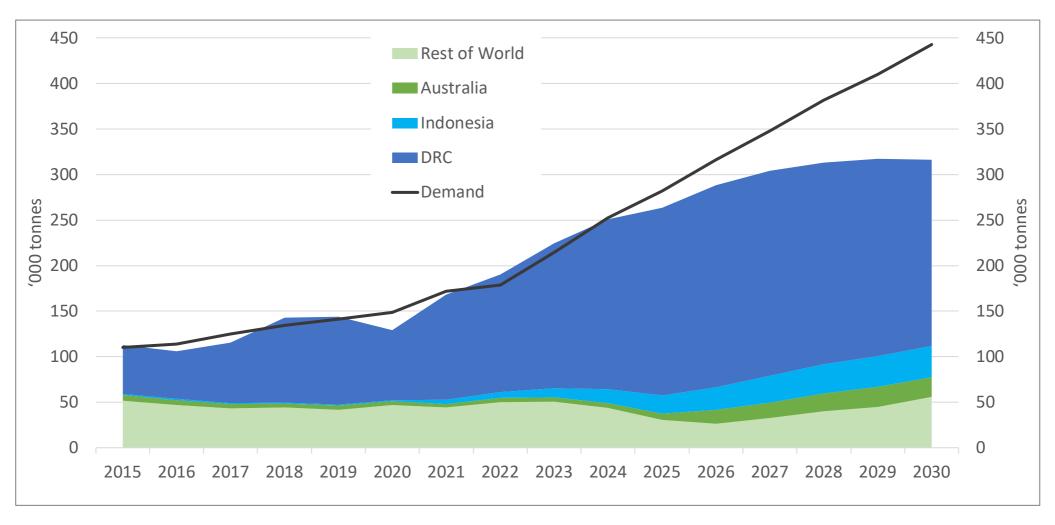


Cobalt Prices: Supply outpacing demand





Cobalt Prices: Supply outpacing demand

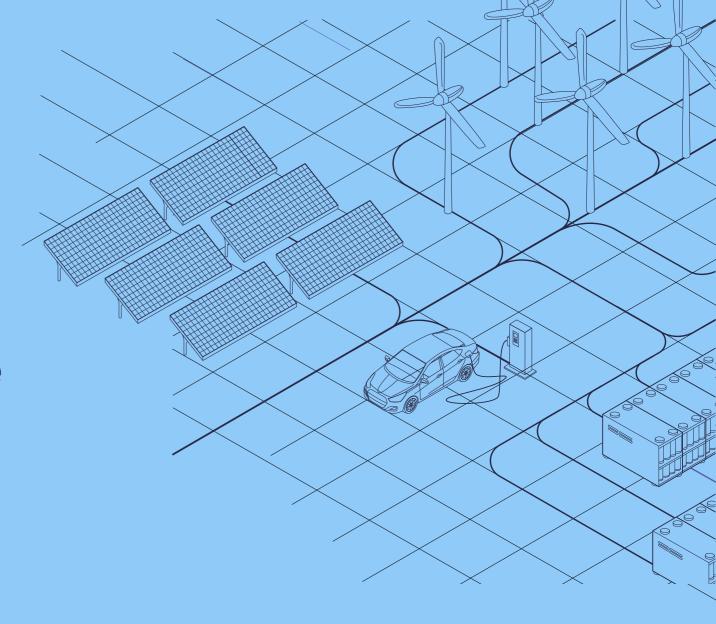




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LFP and its future beyond China

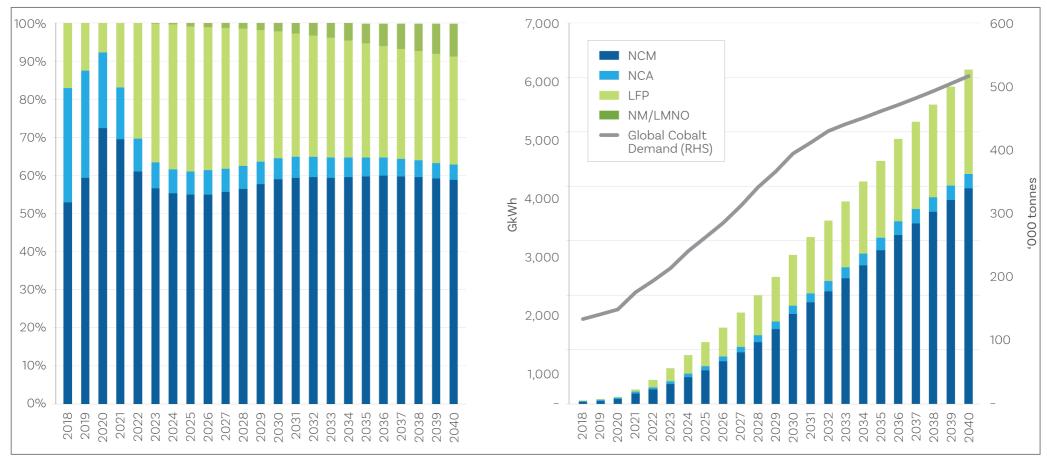
Will Roberts 28th February 2023



LFP share rising, so is cobalt demand

Li-ion battery cell chemistry market share

Li-ion battery cell chemistry growth vs cobalt demand



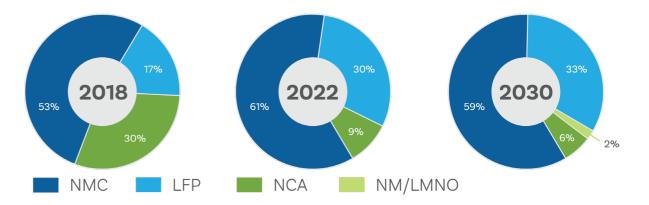


NCM vs LFP

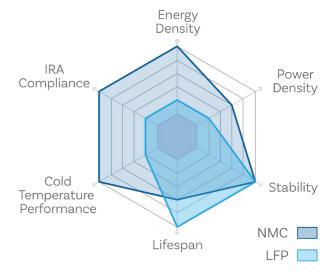
Li-ion EV battery cell chemistry market share

Most EV batteries today use one of two types of cathodes:

- Nickel Cobalt Manganese (NCM) cathodes:
 - Capable of storing more energy
 - Superior life spans
 - Superior thermal stability, thus safer
 - Use costly materials (nickel, cobalt).
- Lithium Iron Phosphate (LFP). LFP cathodes:
 - Less energy efficient (due to weight)
 - Slower cold-weather charging
 - Little capacity ex-China
 - Safer in higher temperatures or demanding conditions
 - Use less costly materials (iron, phosphate)



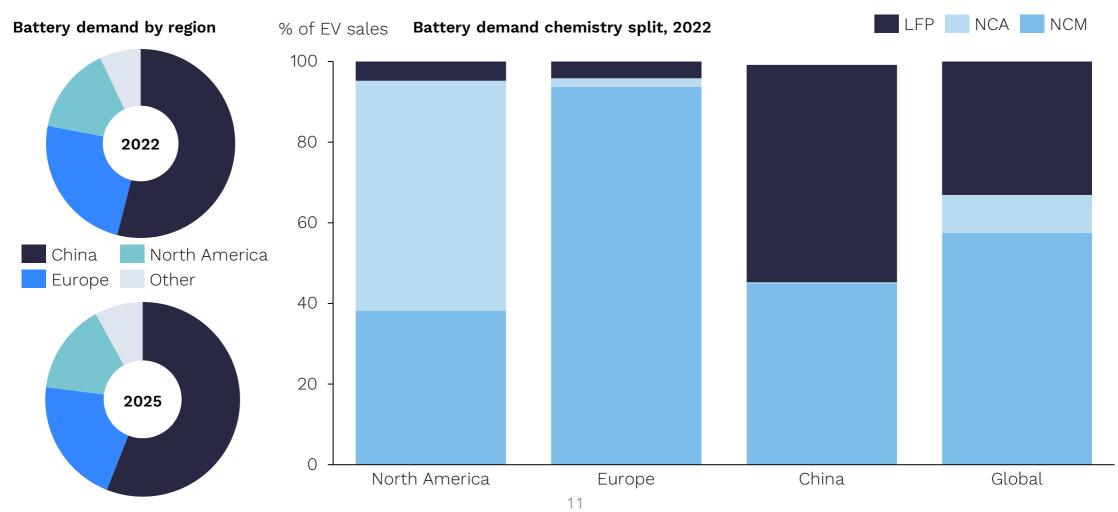
	LFP	NMC
Energy Density	•	•••
Power Density		• •
Stability	•••	•••
Lifespan	•••	• •
Cold Temperature Performance	•	•••
IRA Compliance	•	•••
••• Excellent	•• Good	Poor





Chemistry deployment varies significantly between regions



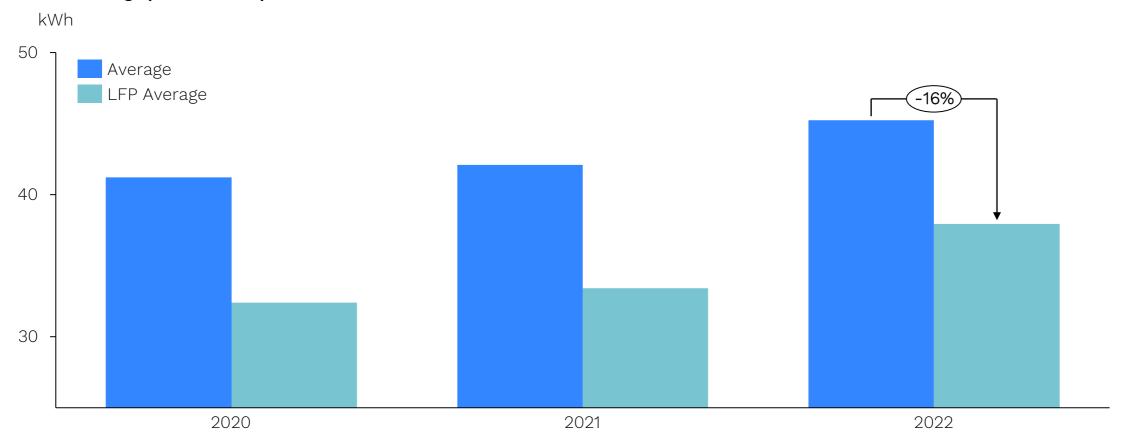


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Average pack sizes are smaller for LFP for nearly every vehicle segment in which it appears

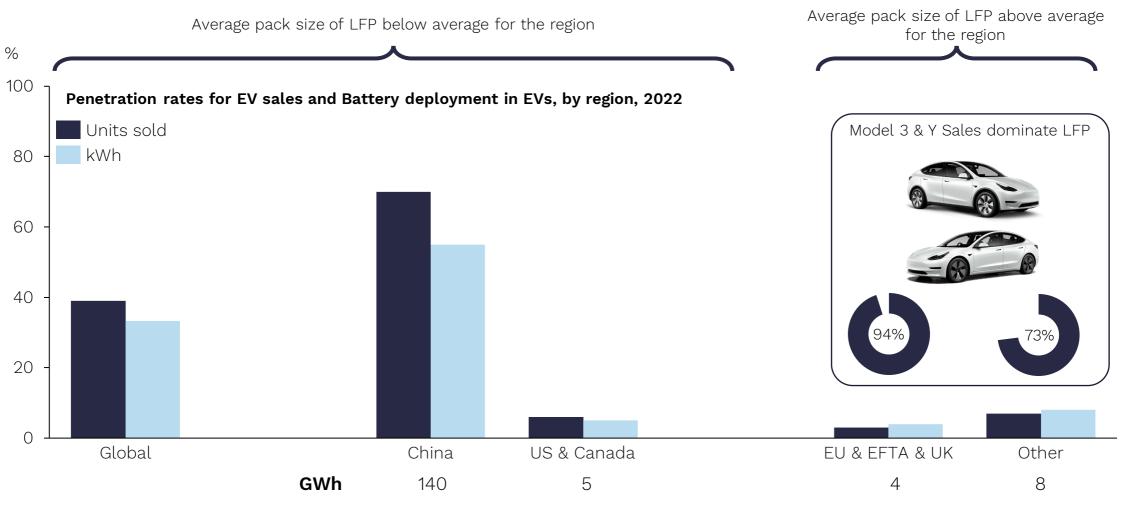


Average pack size comparison: LFP vs all Chemistries



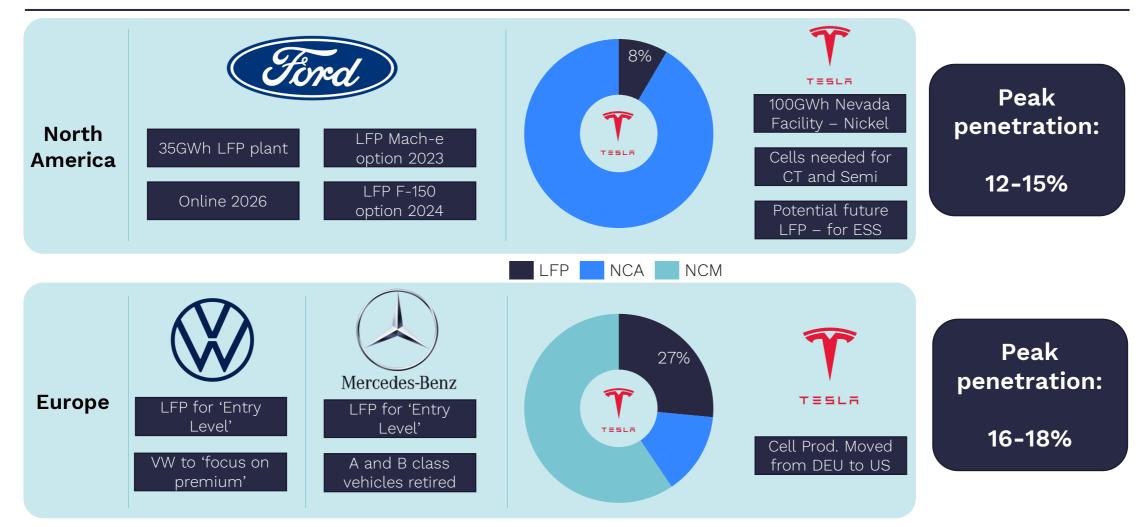
LFP penetration in vehicle sales is higher than in battery deployment, heavily weighted by China





LFP adoption in Europe and North America

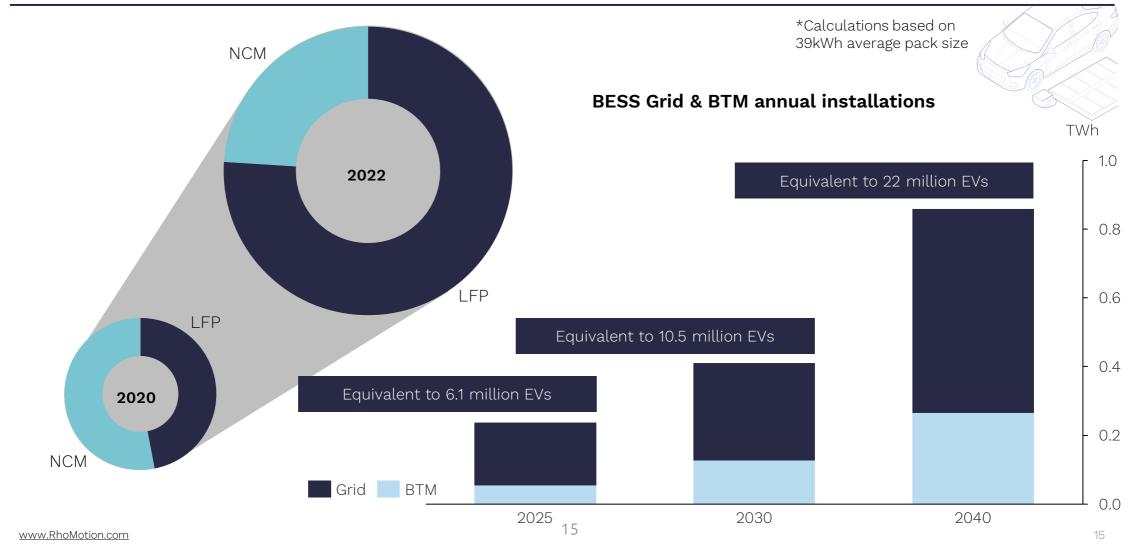




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ESS Battery demand is ~10-15% relative to the EV market and is quickly moving to LFP





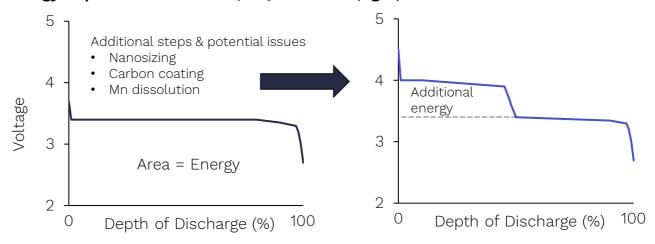
LMFP technology spotlight



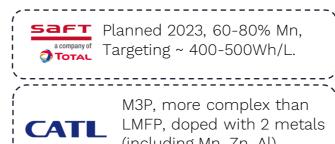
Next Generation LFP

- This quarter we have split out LMFP in the cathode chemistry forecast on the back of increased interest and announcements from cell manufacturers and OFMS.
- LFP is favoured by Chinese cell manufacturers, with its benefits in safety, cost and cycle life. Whilst there has been advancements optimising cell-to-pack, like with the BYD Han blade moduleless design (~140Wh/kg, 210Wh/L) there are still fundamental material limitations.
- The next opportunity is represented by LiM, Fe₁₋ _vPO₄ (LxFP), where iron (Fe) is partially substituted by other metals such as Mn, Zn and Al. CATL has claimed that M3P is ready for mass-production in 2023 and aims to supply the ~700km range BEVs with M3P cells in CTP 3.0 (Qilin) battery packs.
- In preparation for the future demand, CAM suppliers, such as Easpring and Dynanonic, have started to invest in LMFP cathode material projects.

Energy improvements - LFP (left) vs. LMFP (right)



Next Generation LFP cells - Short term, roadmaps



(including Mn, Zn, Al). Aiming for 210-230Wh/kg.



Others working on development of LMFP cells, some pilot production,

US Bipartisan Infrastructure Law and Inflation Reduction Act



EV purchase price by OEM and IRA eligibility

Based on just the assembly location and vehicle price criteria a majority of EVs on Vehicle price, sale in the US right now will not be eligible for the new tax credits under the IRA USD '000



20 companies awarded USD2.8 billion funding from the Infrastructure Law

Metal concentrates, salts



Cathode precursors

Recycling





Electrodes, binder, separator, electrolyte











NMC, LFP cathode active materials



Graphite anode active materials

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Silicon anode active materials



Lithium	2 million EVs	
Graphite	1.2 million EVs	
Nickel	400,000 EVs	
Binder	45% US demand	

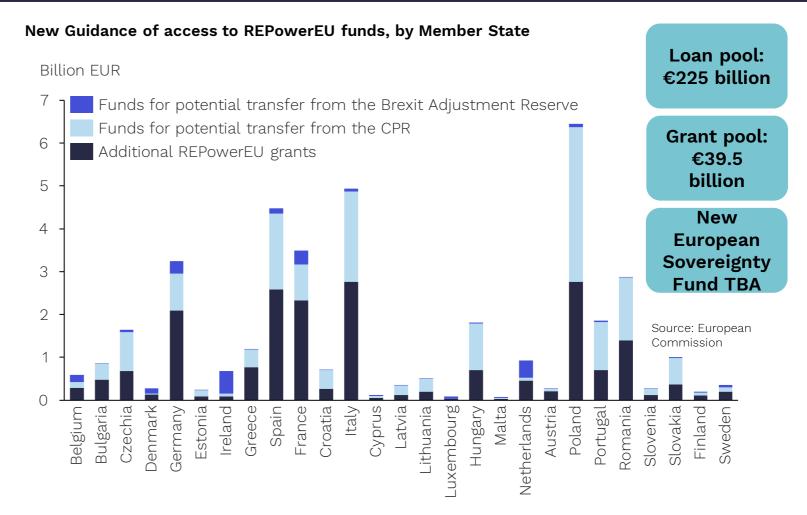
Source DoE

Europe responds to the IRA



The Four Pillars of the Green Deal Industrial Plan

- Simplify the regulatory environment – ease of permitting
- Financing through grants and loans
- Enhancing skills for net-zero related industries
- Facilitate open and fair trade to build supply chains



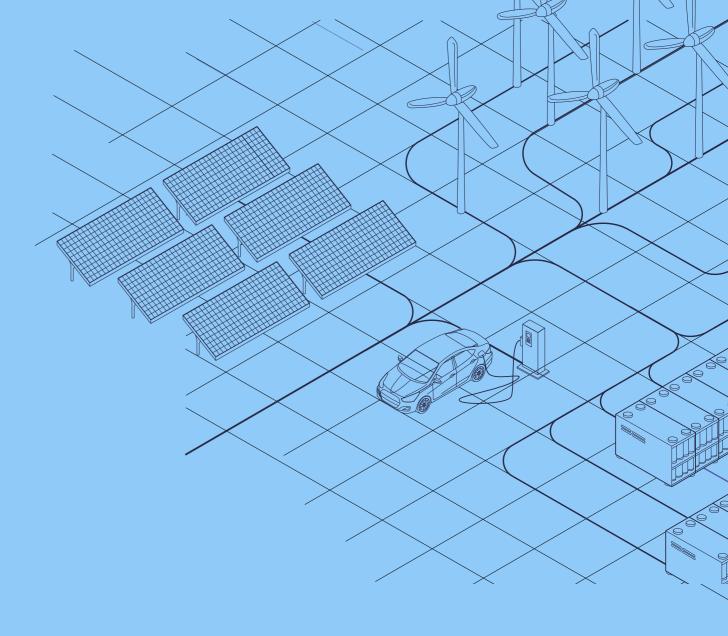
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Any Questions?

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