

Synthetic anode graphite solutions for the Electric Vehicle and Battery Value Chain

~230 employees from 20+ nationalities growing towards 500 by 2027

Industrial pilot in operation since 2021

Full-scale production started at Via ONE in 2024 Developing largescale sustainable production in North America Our vision

Anode Graphite for the carbon neutral society

Our mission

Deliver the most efficient solution to reduce battery industry emissions

Our values

#### The Power of We

Synthetic anode graphite solutions for the Electric Vehicle and Battery Value Chain

~230 employees from 20+ nationalities growing towards 500 by 2027

Industrial pilot in operation since 2021

Full-scale production started at Via ONE in 2024 Developing largescale sustainable production in North America Our vision

Anode Graphite for the carbon neutral society

Our mission

Deliver the most efficient solution to reduce battery industry emissions

Our values

The Power of We

Synthetic anode graphite solutions for the Electric Vehicle and Battery Value Chain

~230 employees from 20+ nationalities growing towards 500 by 2027

Industrial pilot in operation since 2021
Full-scale production started at Via ONE in 2024

Developing largescale sustainable production in North America Our vision

Anode Graphite for the carbon neutral society

Our mission

Deliver the most efficient solution to reduce battery industry emissions

Our values

#### The Power of We

Synthetic anode graphite solutions for the Electric Vehicle and Battery Value Chain

~230 employees from 20+ nationalities growing towards 500 by 2027

Industrial pilot in operation since 2021

Full-scale production started at Via ONE in 2024 Developing large-scale sustainable production in North America

Our vision

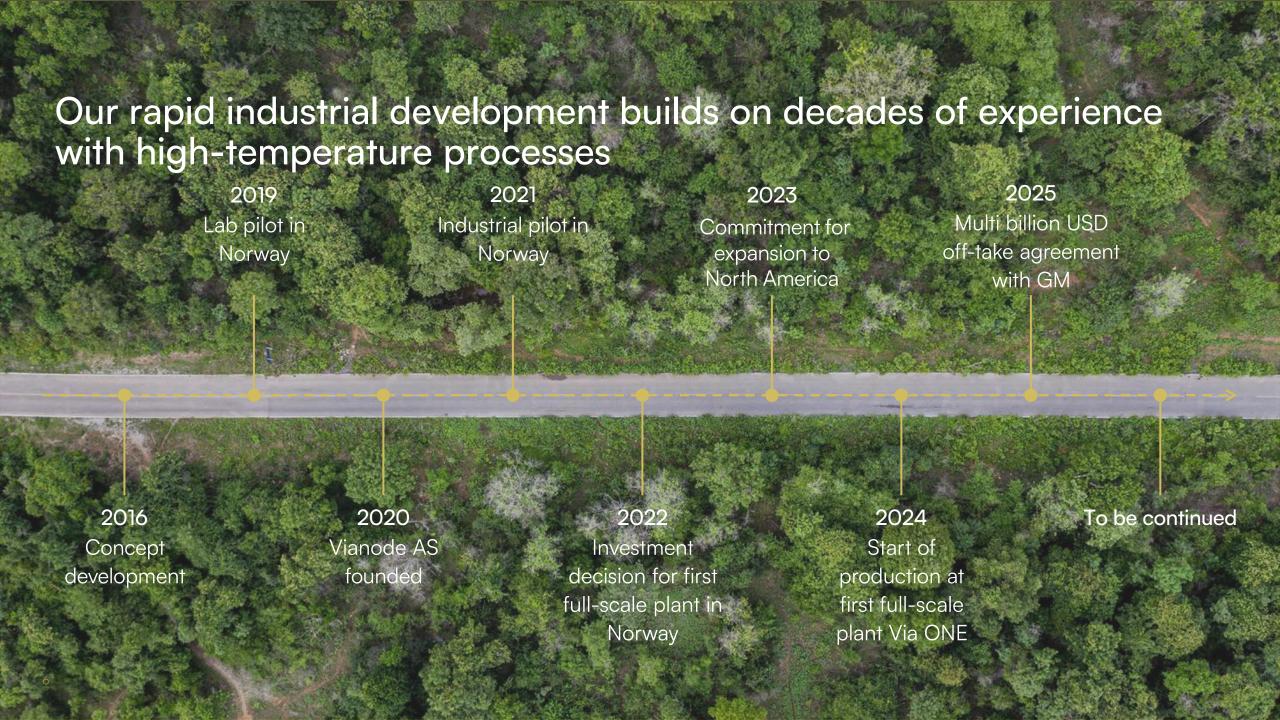
Anode Graphite for the carbon neutral society

Our mission

Deliver the most efficient solution to reduce battery industry emissions

Our values

#### The Power of We



#### Proprietary graphitization technology

Conventional synthetic graphite production





Vianode's breakthrough manufacturing solution





• **Product quality**: Controlled atmosphere inside the furnaces ensures superior quality of the final product



• Efficiency and performance:
Proprietary furnace technology
ensures homogeneous
temperature distribution, resulting
in 100% top-grade product, high
yield, and low energy
consumption

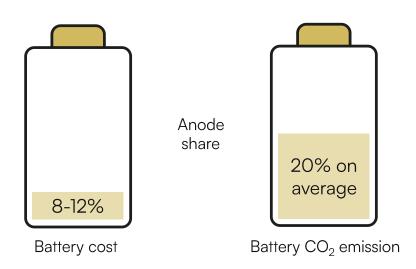


• Environmental impact: Closed furnaces capture all emissions, making the process the most environmentally friendly and contributing to more than a 90% reduction in CO2 footprint



# Synthetic graphite is the most efficient route to reduce the CO<sub>2</sub> footprint of batteries...

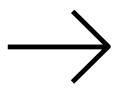
- Disproportion between share of cost and CO<sub>2</sub> emissions in traditional synthetic anode graphite
- Significant value creation potential for sustainable anode graphite solutions



# Our cradle-to-gate LCA shows a climate change impact of 1.9 kg. CO<sub>2</sub>e per kg. for scope 1-3



Clean, closed furnace production technology

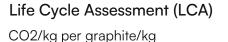


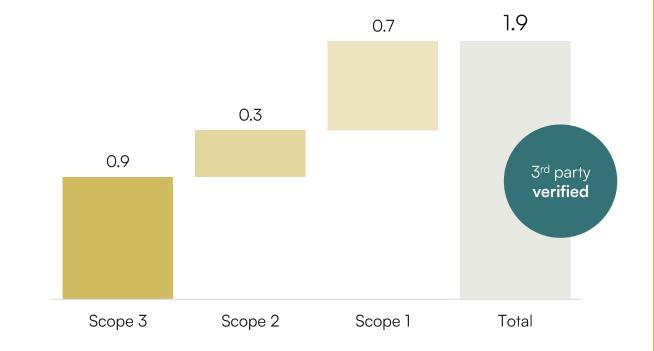


Reduced energy consumption



Renewable energy usage





### Vianode improves critical properties in batteries with cost-efficient solutions

Product family	Production process	Charge rate	<b>Capacity¹</b> mAh/g	Press density g/cc	<b>BET</b> m2/g	FCE %
Voyager	Our long-range, high-energy density anode graphite	0.5-1.5C	355+	1.65-1.70		
Cruiser	Optimally balanced anode graphite for charging speed and driving range	1.5-3C	350-355	1.55-1.65	0.8-1.1	~95%
Speedster	Anode graphite refined for the fastest charging	3C+	345-350	1.50-1.55		

Note: The typical characteristics are based on average results of control tests and are subject to normal variation. Accordingly, test data cannot be taken as established minimum or maximum specifications. 1. Average de-lithiation capacity at 0.1C | Source: Vianode analysis

#### Vianode's global manufacturing network

	Headquarter	Technol Lab	ogy Center PILOT	Via ONE	Via TWO	Via THREE
			Vianode	Vianode		
Location	Norway Oslo		orway iansand	Norway Herøya	North America	To be defined
Capacity	-	-	200 tons/year ~0.2GWh battery capacity <sup>1</sup> ~2.500 car <sup>2</sup>	2.000 tons/year ~2 GWh battery capacity <sup>1</sup> ~25.000 car <sup>2</sup>	73.000 tons/year ~73 GWh battery capacity ~1.000.000 car	~1.000.000 car
SOP	2023	2022	2021	2024	2027	2030
Key Points	Mainly administrative	•	ocess development production	200mUSD investment	IRA and USMCA compliant	To be continued

Via ONE — World's most sustainable anode graphite

- Operational full-scale production plant for final product qualification, operation improvements, and commercial deliveries
- 2,000t per year, possible to expand based on customer needs
- ISO9001 certified, ISO 14001 and ISO 45001 ongoing certification
- Plant can be converted to a recycling facility for graphite with additional capacity









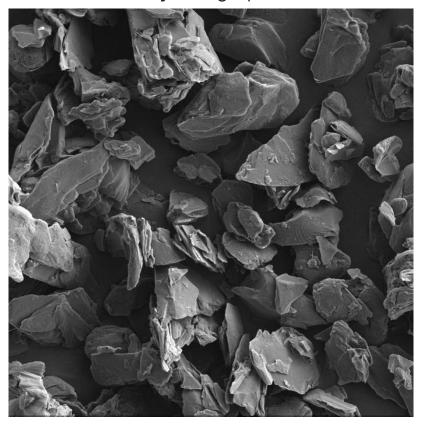


#### Turning a carbon waste product into battery-grade graphite

Graphite concentrate



Recycled graphite



# Recycling of graphite from production scrap

- Recycling of anode scrap is already achievable with at least equal technical properties and cell performance as the reference material
- The graphite concentrate from production scrap has low impurity content and is often easily traceable
- Since production scrap is available in volumes today, mastering this is a natural first step towards recycling at scale

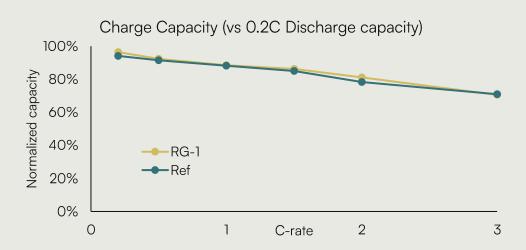
Parameter	Unit	Recycled	Reference
Capacity	mAh/g	355.4	355.1
First cycle efficiency	%	96.1	94.8
Charge rate	C-rate	2C	2C

#### Can you spot the difference?





Recycled



# General Motors has signed a USD multi-billion long-term supply agreement with Vianode



Strategic partnership: Vianode to supply highperformance anode graphite to GM for 7 years until 2033



Large-scale production: Manufacturing at Vianode's North American plant begins in 2027



Environmental impact: Vianode's graphite has a 90% lower CO<sub>2</sub> footprint than conventional methods



Usage: The material will be used by Ultium Cells LLC, GM's joint venture with LG Energy Solution, for next-generation EV batteries



This agreement with Vianode is a great example of GM's strategic effort to build a sustainable battery supply chain in North America.

Jeff Morrison
SVP of Global Purchasing and Supply Chain at GM



We are proud and honored that GM has chosen us as a strategic partner. This underlines Vianode's capability and our contribution to shaping the North American battery value chain.

Burkhard Straube CEO of Vianode

#### Vianode

vianode.com