





INTRODUCTION

Verkor, a battery manufacturing expert set to amplify low carbon batteries production in Southern Europe

- Verkor is a digital, smart & low carbon battery manufacturing company, developing a 16 GWh battery Gigafactory to be built from 2023, scaling up to 50 GWh by 2030
- Managed by a team of industry leaders & international battery experts
- Supported by the best-in-class consortium in intelligent manufacturing, battery materials and EV production
- High plant efficiency & process yields are ensured through scrap minimization, digitalization and real time data analysis, to deliver high competitiveness
- The first industrial milestone is the Verkor Innovation Centre (VIC), a 150 MWh smart pilot line and R&D lab located in Grenoble and operational in 2022







Initial production capacity of 16 GWh and then up to 50GWh



2,000+ direct jobs





+ ongoing convertible round

10,000 indirect jobs





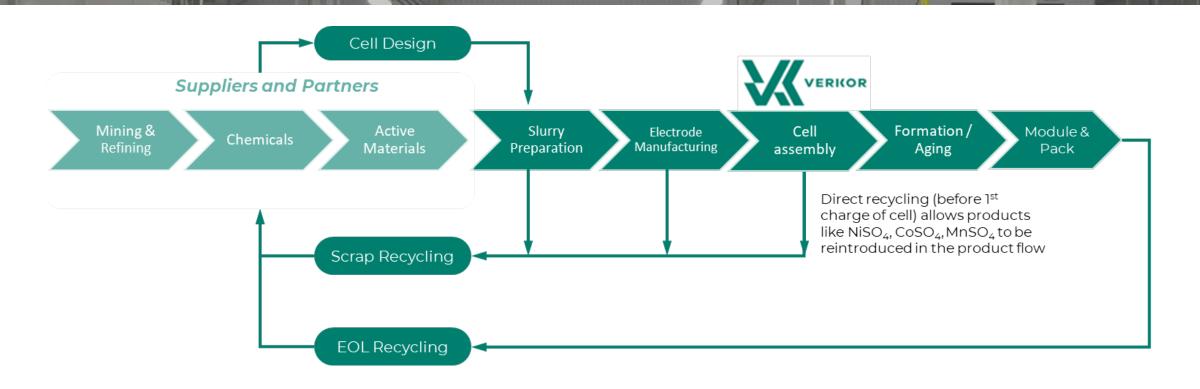
ARE SENT TO ASIA TO BE RECYCLED





A USED BATTERY IS THE BEST MINE FOR FUTURE MATERIALS

RECYCLING STRATEGY ACROSS THE PROCESS FLOW



100% SCRAP RECYCLING RATE WITH INHOUSE PROCESS AND PARTNERS



RECYCLING STRATEGY ECOSYSTEM BUILDING





Mature collecting infrastructure

Key Strengths

Wide reach to all black mass collected in Europe



KEY PLAYER 2

Hydro process champion

Key Strengths

Best-in-class hydrometallurgical process (less steps, best grades)



KEY PLAYER 3

Disruptive process

Key Strengths

Low CapEx and OpEx disruptive process vs. pyrolysis or hydrometallurgy



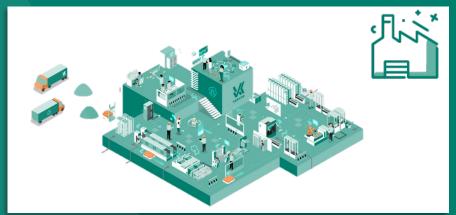
TECHNICAL ROADMAP

OFFERING QUICKLY A CELL THAT LIMIT MATERIAL USAGE

Verkor is focusing on deploying mature technologies:

- 1. Low Nickel and Cobalt chemistry
- 2. Fast Charge anode chemistry
- 3. Safe separator and electrolyte
- 4. Process high efficiency / low scrap
- 5. Dry Coating process
- 6. Digital excellence (traceability)





DRIVERS

KEY DRIVERS

TO BUILD A SUSTAINABLE MATERIAL STRATEGY







COMPETITIVE

GREEN

PREDICTABLE

- 1. Sustainable materials can be more competitive
- 2. "Green" is now a strong business case for battery customers
- 3. Regulation is leaning toward high recycling content

CONTEXT IS DRIVING EUROPEAN MANUFACURERS TOWARD SUSTAINABILITY FOR VERKOR, THE AIM IS TO REACH THE 2035 RECYCLED MATERIAL OBJECTIVE BEFORE 2030 AT A COMPARABLE COST



HOW TO ACCELERATE? A STRONG NEED FOR EU SOVEREIGNTY

Battery and battery materials are the Oil of the XXIst century

Verkor considers the right way for sustainability is to:



- 2. Build a strong recycling sector ("urban mining")
- 3. Support the battery industry in the constitution of strategic stocks









- → We need to move fast on an European legislative tools on the supply of critical materials (Thierry Breton's proposal to EIT Raw materials)
- → We need to legislate on the fact that end-of-life batteries and the black mass are not allowed to leave Europe
 - We need to secure financial means to support material stock at EU level



XX VERIOR

