

# Batteries enable the energy transition



Necessary for green transport and sustainable power generation

#### **Auto industry**

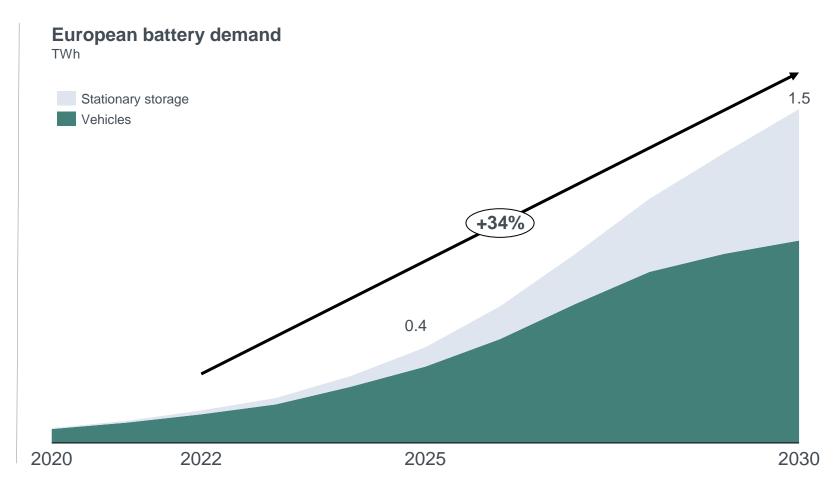
Replacing fossil fuels with electricity through batteries



#### Power generation and storage

Renewable energy storage to replace coal, oil and natural gas



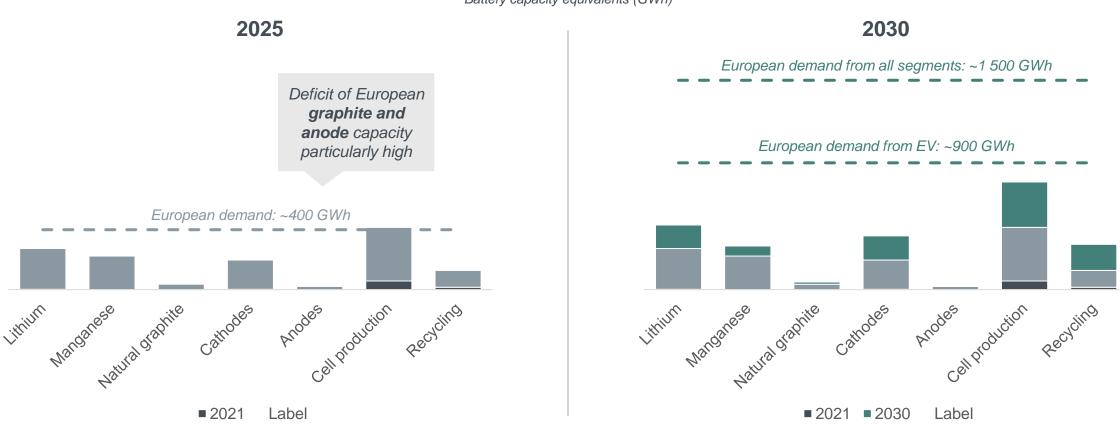


# Large gaps between announced supply and projected demand in Europe



#### Announced supply vs. forecasted demand in Europe

Battery capacity equivalents (GWh)



# Hydro aims to lead the way decarbonizing the industrial sector



1 Strengthen our position in low-carbon aluminium



2 Diversify and grow in new energy





# Hydro has contributed to building robust battery companies since 2017



Current positions Incoming assets

### Corvus e Energy

- Part-owner since 2017 Currently 24% ownership share
- Largest shareholder, board member and industrial partner

## hydrovolt "

- Founding partner and partowner (50%) since 2020
- Board membership and industrial partner

#### 2017

#### northvolt

- Part-owner since 2019, ~1% ownership share today
- Seat on investor advisory board

#### Vianode

- Signed partnership with Elkem and Altor in 2022, 30% ownership share
- Board membership with 2 seats, 1/3 of votes, industrial partner



# A full-scale industrial plant will produce material for 1,000,000

## Vianode

Meeting the need for a sustainable, localized European active battery material supply chain



- Localized active material production is critical for European battery production
- World-leading sustainability by efficient processing technology and access to renewable energy

#### Vianode

- Vianode has developed synthetic graphite products produced with up to 90% lower CO2 emissions
- A 1<sup>st</sup> phase plant will have 100 employees and produce graphite for more than 20,000 EVs a year



- Partnership with Elkem and Altor, Hydro's ownership share 30%
- Utilizing Hydro's industry scaling capabilities including project execution for large industrial projects, material and process competence as well as track record serving OEMs



# Hydrovolt

Europe's largest battery recycling plant



- Raw materials critical for energy transition
- Recycling an essential part of the solution
- Building on Norwegian EV market



- Working on European expansion plant location search ongoing, operations can start in 2024
- 2025 ambition: 150,000 EV batteries a year
- 2030 ambition: 500,000 EV batteries a year

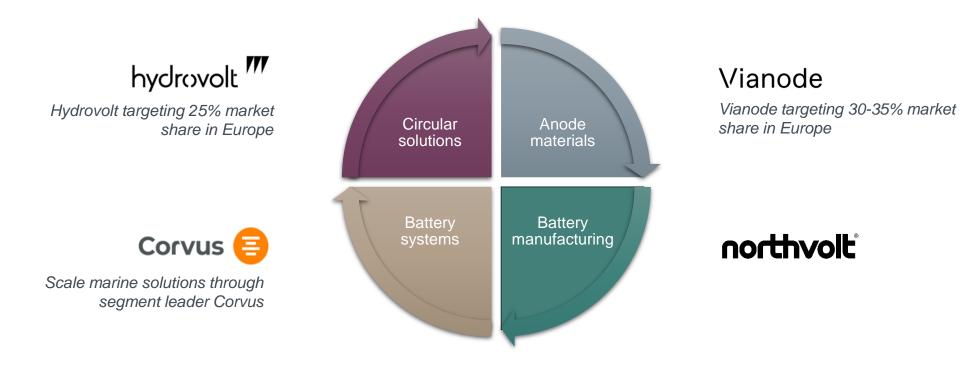


- Hydro co-founder, 50-50 JV with Northvolt. Enova support 43.5 MNOK
- Transferrable competence from a leading position within aluminum recycling. Will reuse the recycled aluminium from batteries
- Lead on build project including safety, expansion strategy, sustainability strategy

# Hydro Batteries strategy: Grow within circular solutions and anode materials, and scale front-runner Corvus



Develop a leading sustainable battery business by leveraging Hydro's capabilities and create winning plays



Emerging technology: Taking selective positions, mainly in circulation solutions and anode material

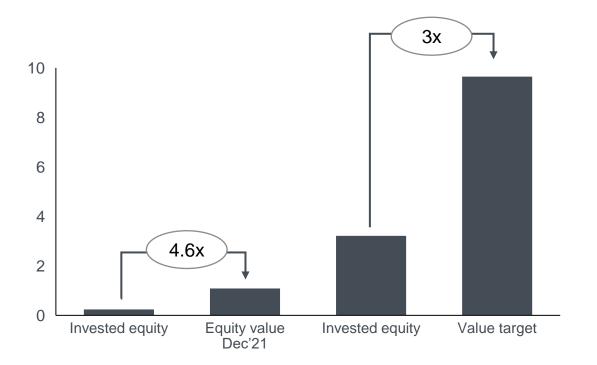
**Hydro platform:** Building on broader Hydro capabilities (industrialization, projects, energy, operations, technology), organizational support, and financing **Hydro foundation:** Mission, values, and group strategy, HSE, and sustainability

# Strong track-record and excellent pipeline



Targeting 3x value uplift on invested equity

## **Invested equity value - Batteries**NOK billions



- Valuation of initial investments has developed well
- Now focusing on executing growth within circular solutions and anode materials
- Investing with strong industrial and financial partners
- Long-term active industrial owner maturing options to take larger operational responsibility when synergies and attractiveness in place
- Target of 3x value uplift on invested equity



Industries that matter