



POWERING THE FUTURE: ANDRITZ SOLUTIONS ACROSS THE BATTERY LIFECYCLE

BATTERY INNOVATIONS DAYS 2026

Graz, December 2-3, 2026

ANDRITZ



THE ANDRITZ JOURNEY – 170 YEARS OF INNOVATION

From Foundry to Global Technology Leadership

<p>▼</p> <p>1852</p> <p>Established by Josef Körösi as a foundry and machine works</p> 	<p>▼</p> <p>1922</p> <p>Foundation of ANDRITZ apprentice workshop</p> 	<p>▼</p> <p>1948</p> <p>Expanded to big turbines (Escher-Wyss)</p> 	<p>▼</p> <p>1951</p> <p>Start of manufacturing of complete paper machines</p> 	<p>▼</p> <p>1997</p> <p>ANDRITZ China founded</p> 	<p>▼</p> <p>2000</p> <p>Pulp technology (Ahlström Machinery)</p> 	<p>▼</p> <p>2001</p> <p>ANDRITZ Brazil founded</p> 	<p>▼</p> <p>2006</p> <p>Hydropower (VA TECH Hydro)</p> 	<p>▼</p> <p>2013</p> <p>Advanced metals technology (Schuler Group)</p> 	<p>▼</p> <p>2018</p> <p>Fabrics and Rolls (Xerium Technologies)</p> 	<p>▼</p> <p>2022</p> <p>Battery production (Sovema)</p> 
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OWNERSHIP

1852	1900	1938-1949	1950	1987	1999	2001	2003
Established by Josef Körösi	Gutmann Group	Expropriation	Creditanstalt-Bankverein	AGIV AG	Financial investors and the Custos private foundation	IPO – Listing on the Vienna Stock Exchange	 Custos private foundation increased its stake to 30% Wolfgang Leitner former CEO of ANDRITZ

BY THE NUMBERS – FINANCIAL STRENGTH



Key Financial Figures 2024

ORDER INTAKE
8.3 billion EUR
(2023: 8.6 billion EUR / -3%)

GROUP REVENUE
8.3 billion EUR
(2023: 8.7 billion EUR / -4%)

ORDER BACKLOG
9.75 billion EUR
(2023: 9.9 billion EUR / -1,2%)

EBITA
713 MEUR
(2023: 742 MEUR / -3,91%)

EBITA MARGIN
8.9%
(2023: 8.7%)

NET INCOME
(incl. non-controlling interests)
496.5 MEUR
(2023: 504 MEUR / -1.5%)

GLOBAL PRESENCE, LOCAL IMPACT



Close to our Customers in 80+ Countries



AROUND 30,000
EMPLOYEES WORLDWIDE



OVER 280
LOCATIONS



OVER 80
COUNTRIES

Size of pin reflects the number of ANDRITZ locations in the region

THE BATTERY VALUE CHAIN – ANDRITZ SOLUTIONS



From Slurry Preparation to Battery Recycling

SLURRY PREPARATION



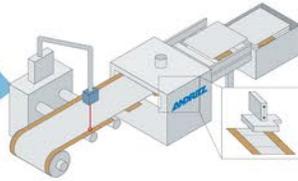
CAM Production

ELECTRODE MANUFACTURING

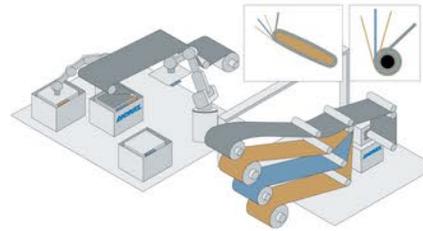


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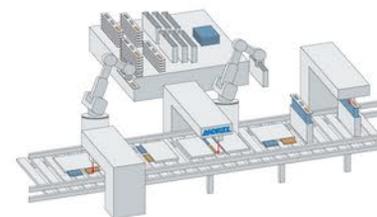
CELL ASSEMBLY



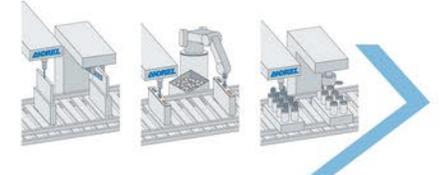
Notching and Separating



Stacking and Winding

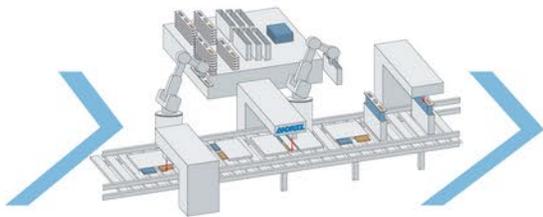


Can and Lid Production

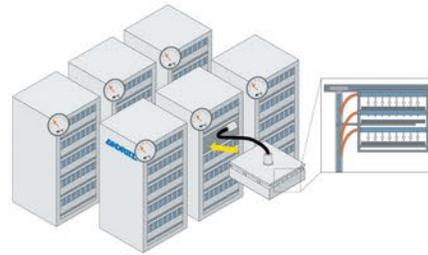


Electrolyte Filling

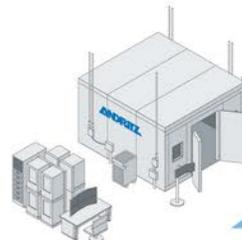
CELL FINISHING



Assembly Lines

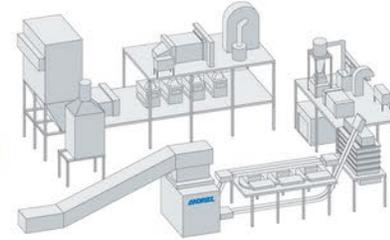


Formation



Testing

BATTERY RECYCLING



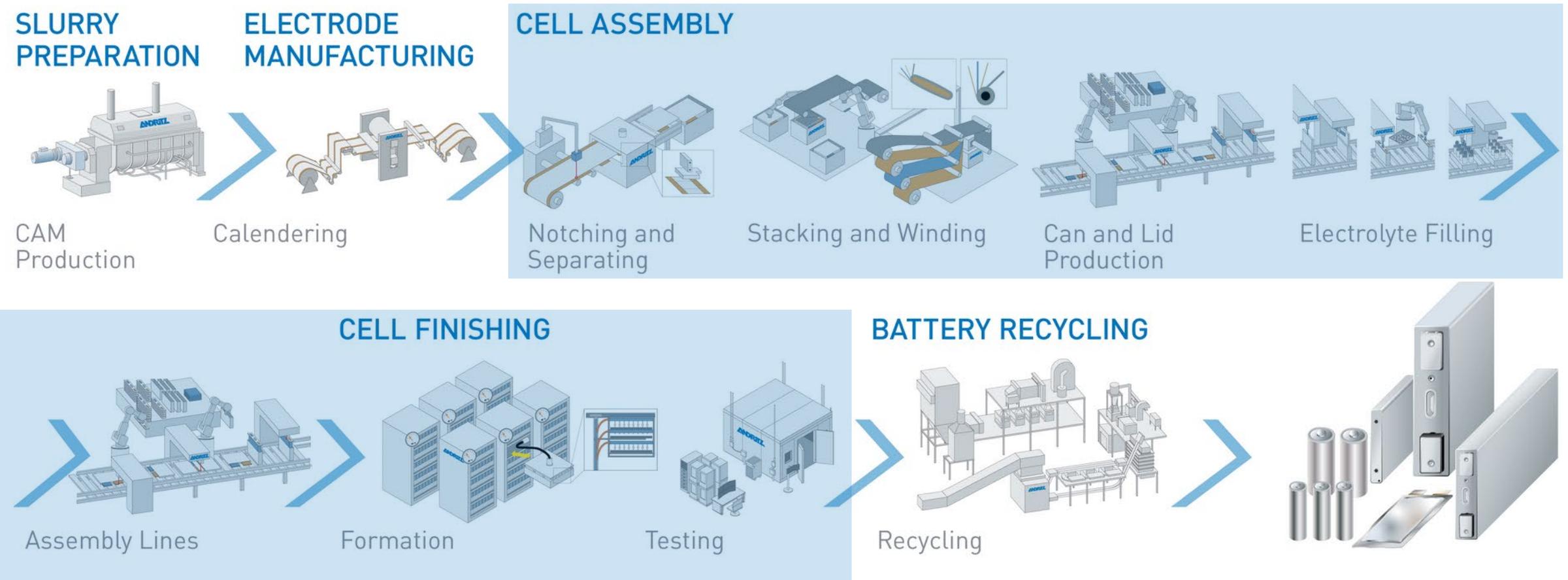
Recycling



THE BATTERY VALUE CHAIN – ANDRITZ SOLUTIONS



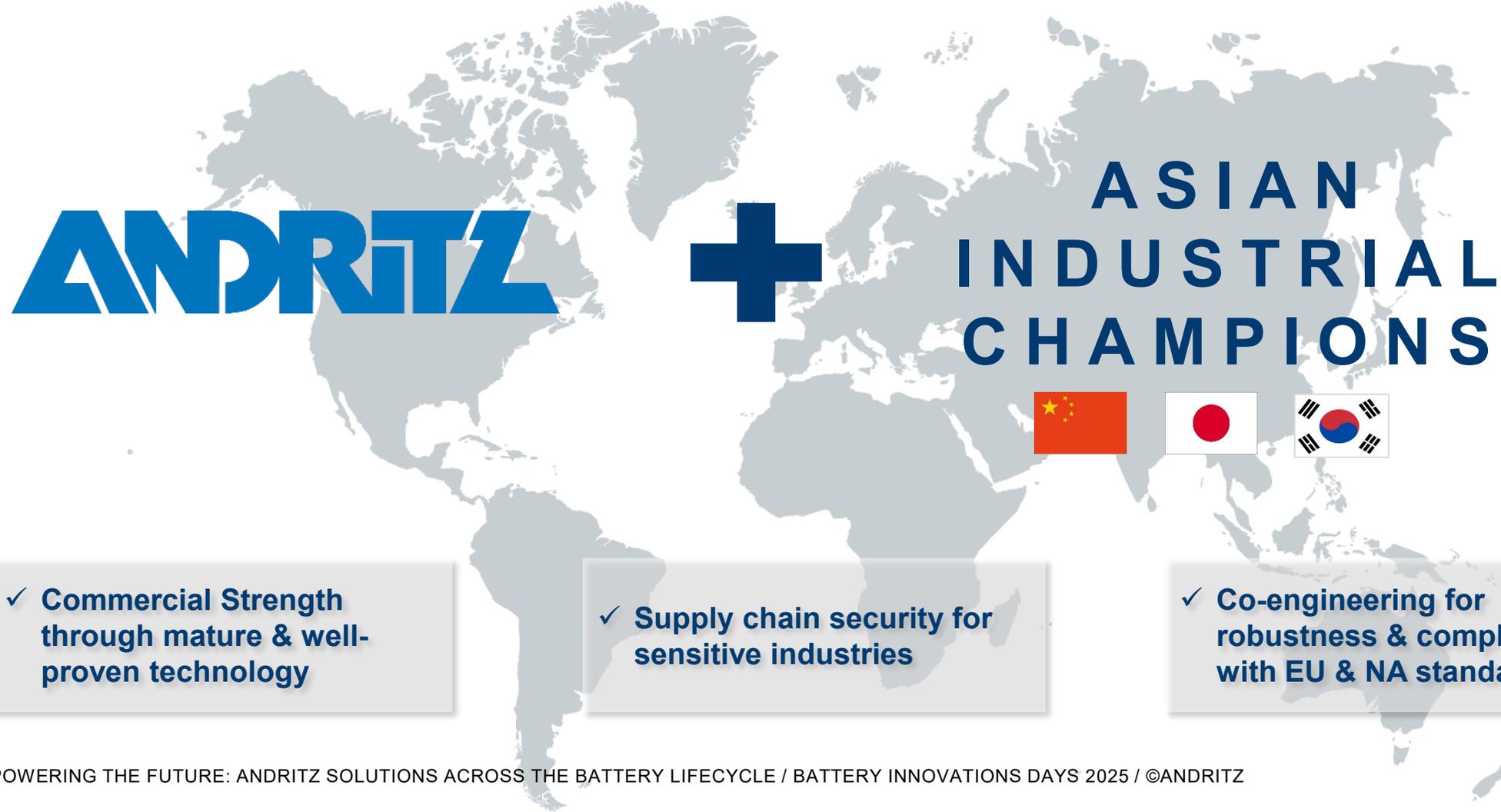
From Slurry Preparation to Battery Recycling





STRATEGIC PARTNERSHIPS IN BATTERY DEVELOPMENT

Cooperation with Asian Industrial Champions in the market



ANDRITZ



**ASIAN
INDUSTRIAL
CHAMPIONS**



✓ **Commercial Strength through mature & well-proven technology**

✓ **Supply chain security for sensitive industries**

✓ **Co-engineering for robustness & compliance with EU & NA standard**



FLAGSHIP PROJECTS MANUFACTURING EXCELLENCE

Examples of ANDRITZ Cell
Manufacturing Solutions

ROLL TO ROLL NOTCHING MACHINE

ASIAN MAJOR CELL MANUFACTURER

- Roll to roll notching
- 55 installed machines

ANDRITZ



Internal
technologies



Compliance to
CE regulations



Project
commissioning



Project
management

GIGA-SCALE CELL FORMATION PLANT

MAJOR CELL MANUFACTURER, GERMANY

- Formation plant for cylindrical cells.
- 4 formation chambers per module.
- Total: 200 chambers.
- Integration with fully automated intralogistics system.

ANDRITZ



Internal
technologies



Customer
support



Project
commissioning



Project
management

ELECTROLYTE FILLING MACHINE

GERMAN BATTERY CELL MANUFACTURER

- Suitable for prismatic cells
- 12 cells per cycle
- Automatic pin insertion
- Helium filling
- NG automatic sorting

ANDRITZ



Asian partner
identification



Co-engineering



Compliance to
CE regulations



Project
commissioning



Project
management





CELL ASSEMBLY PILOT LINE FOR LARGE-FORMAT POUCH CELLS

FRAUNHOFER FFB, MÜNSTER, GERMANY

- Flexible assembly line for the widest available range of pouch cell formats.
- Combines Z-Fold, Single Sheet Stacking, and Tab Welding in a single machine.
- Unique Electrode Pick&Place system that doesn't require compressed air.
- Includes Track & Trace functionality.
- Quick and simple format changeover.
- Efficient material transfer without manual handling.

ANDRITZ



**Project
commissioning**



**Project
management**



**Internal
technologies**

CELL ASSEMBLY PILOT LINE FOR SOLID STATE CELLS

GERMAN AUTOMOTIVE OEM

- Highly capable & flexible A-sample line for production of solid state pouch cells (100 cells/week, 3 formats).
- Automatic Punching and Stacking or integration of Electrode Magazine.
- Integrated Notching (Lithium-based) and Punching (for Sulfide-based) in one Machine.
- Track&Trace: Comprehensive cell Traceability and Quality Assurance.

ANDRITZ



Project
commissioning



Project
management



Internal
technologies

POUCH CELL ASSEMBLY LINE FOR PILOT PRODUCTION

SAFT, BORDEAUX, FRANCE

- Automated assembly line featuring standalone machine layout.
- Streamlined material transfer without operator handling.
- Multiple alignment checks during electrode punching and stacking.
- Camera-based quality inspection for electrodes.
- Control of stack thickness.
- Collaboration with the customer for in-house production via dry room rental agreement.

ANDRITZ



**Project
commissioning**



**Project
management**



**Internal
technologies**

INSTALLED PILOT LINES & PARTNERSHIPS



A Strong Network Across EU & USA

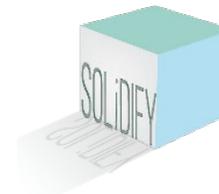
Battery Research Centers / Cell Manufacturers



Associations



Funded Projects



THE BATTERY VALUE CHAIN – ANDRITZ SOLUTIONS



From Slurry Preparation to Battery Recycling

SLURRY PREPARATION



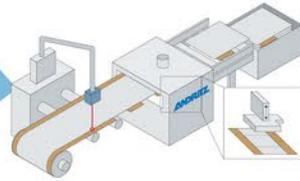
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ELECTRODE MANUFACTURING

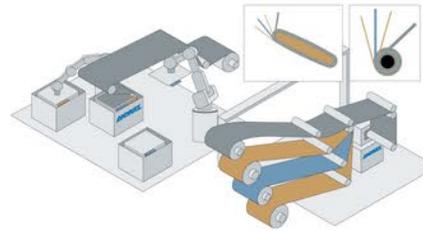


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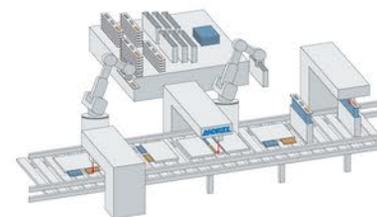
CELL ASSEMBLY



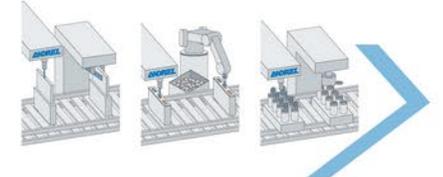
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Stacking and Winding

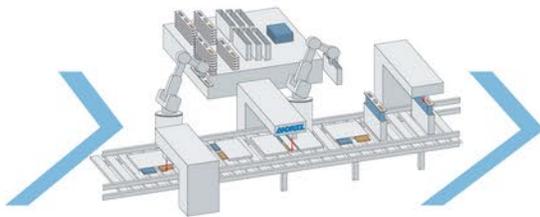


Can and Lid Production

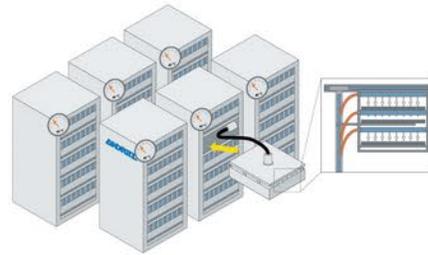


Electrolyte Filling

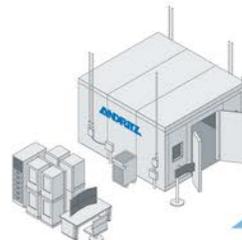
CELL FINISHING



Assembly Lines

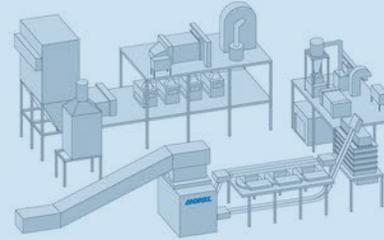


Formation



Testing

BATTERY RECYCLING



Recycling



BATTERY RECYCLING: THE KEY TO A SUSTAINABLE AND SECURE FUTURE



Market Imperative and Regulatory Drivers



Electrification is booming:
Millions of batteries will reach end-of-life.



EU regulation raises the bar:
Strict targets now mandate higher recycling and recovery.



Recycle to Secure Material:
Recycling reduces import dependency and ensures supply.



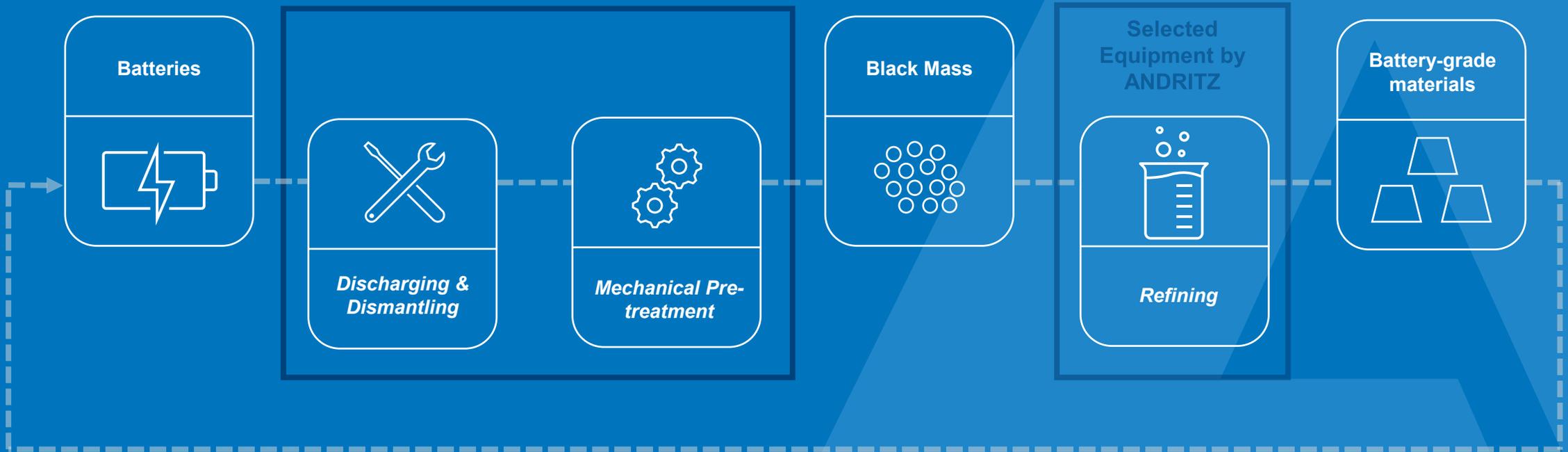
EOL: challenge and resource
Used batteries create both risk and value.

ANDRITZ AS A FRONT-END SUPPLIER IN BATTERY RECYCLING



From Battery to Black Mass: Transforming Batteries into Valuable Resources

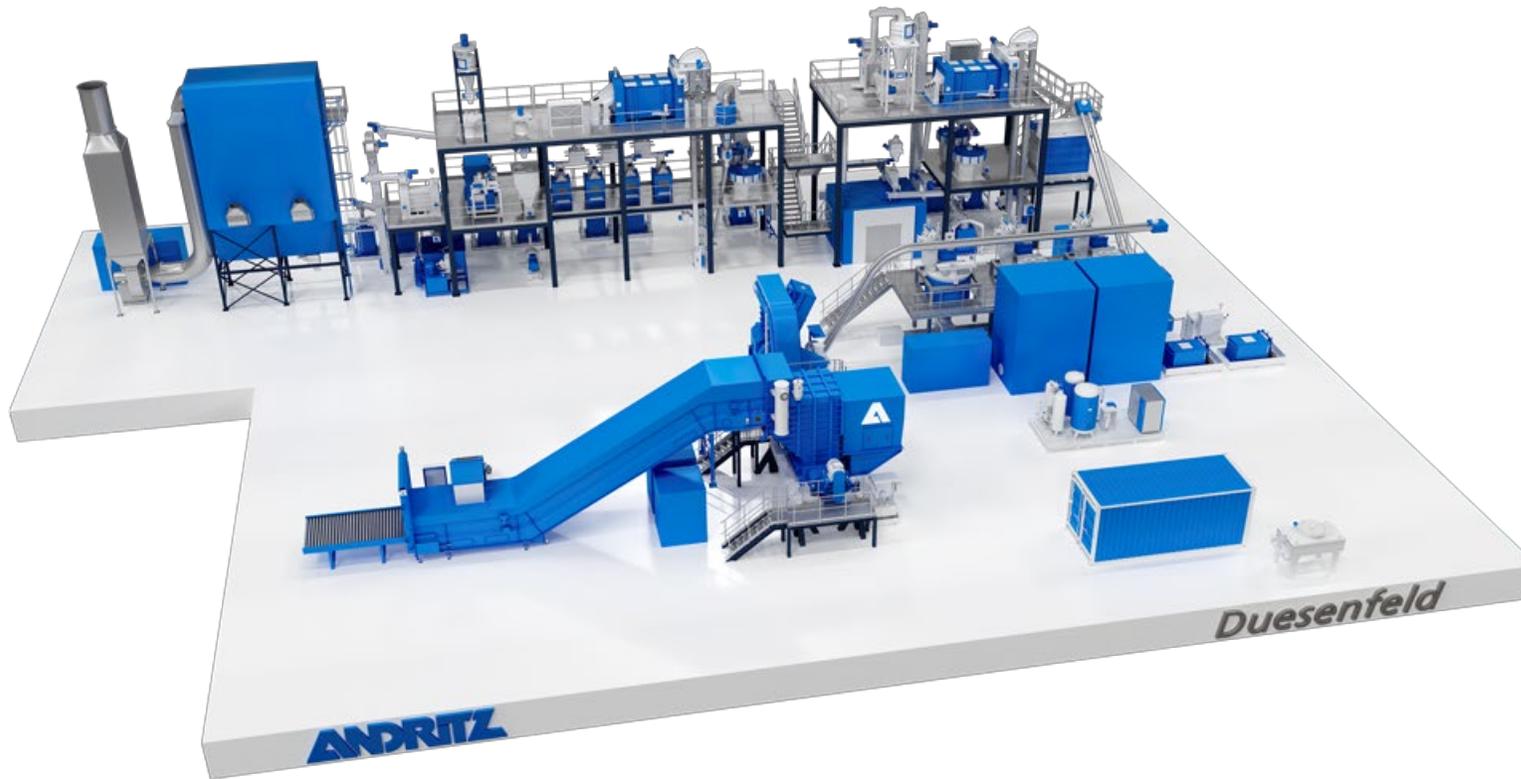
ANDRITZ Full Plant Solutions



ANDRITZ BATTERY RECYCLING SOLUTION

SAFE, EFFICIENT, PROVEN

From Discharging to Sorting – Maximum Resource Recovery



Recovered fractions:
Copper Foil | Aluminum Foil | Black Mass | Solvents | Heavy Parts | Separator Foil

Source: Duesenfeld



Standard layout of a lithium-ion battery recycling plant with a capacity of 2 t/h (~13,750 t/a).

CREATING CUSTOMER VALUE



One Integrated Solution – Built on Five Key Elements



Safety

Secure handling of spent batteries



Recovery

Maximize valuable material yield



Compliance

Meeting environmental regulation



Circularity

Reduce reliance on raw materials



Cost Control

Cost-Effective, Scalable Operations

Solutions for Battery Manufacturers, EV OEMs, & Recycling Companies

ANDRITZ RESPONSE TO CUSTOMER VALUE



Delivering Superior Technology and Proven Capability



Safety

Secure handling and operation of plant and materials



Recovery

Up to 95% recovery of valuable battery metals



Compliance

Already exceeding EU 2030 sustainability targets



Circularity

High-quality black mass as the starting point for maximum reuse



Cost Control

Modular, scalable plants with low OPEX for long-term profitability.

Proven Technology and in Commercial Operation for Years

SHAPING THE BATTERY VALUE CHAIN – MARKET INSIGHTS & ANDRITZ SOLUTIONS



From Cell Assembly to Battery Recycling – Addressing Today’s Challenges with Proven Technologies

	Market Outlook	ANDRITZ Solution
Cell Assembly & Finishing	<ul style="list-style-type: none"> • EU scaling challenges amid global competition • NA localization driven by policy and JVs • Global complexity from overcapacity & regulations 	<ul style="list-style-type: none"> ✓ Localized, premium manufacturing solutions for Europe ✓ Proven technology and strong local service network ✓ Reliable, compliant systems with engineering expertise
Battery Recycling	<ul style="list-style-type: none"> • Shift to high-quality recovery • Rise of LFP batteries requires flexibility • In-line recycling gaining traction 	<ul style="list-style-type: none"> ✓ Full-scope front-end recycling plants for premium black mass ✓ NMC & LFP-ready systems, scalable and EU-compliant ✓ Integrated solutions for scrap and end-of-life batteries



POWERING THE BATTERY VALUE CHAIN - TOGETHER

Full Solutions in Cell Assembly, Cell Finishing & Battery Recycling

- Europe is building strength—ANDRITZ is a key enabler.
- Supporting Asian manufacturers to localize in Europe.
- Closing the loop: advanced recycling for critical material independence.
- Proven technology, regulatory compliance, and customer-centric solutions.

ANDRITZ delivers full-scope solutions for cell assembly, finishing, and battery recycling—empowering a sustainable, competitive European battery industry.



Scan to learn more



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