

MES

Miracle Eternal Singapore

Our Goal: To Be Your Recycling
Battery Specialist Next Door



The rapid expansion of battery industry chain is propelled by the increasing penetration of EVs, amidst the global energy transition.



Cop27: Biden reconfirms US will meet target to reduce emissions by 50-52% below 2005 levels by 2030.

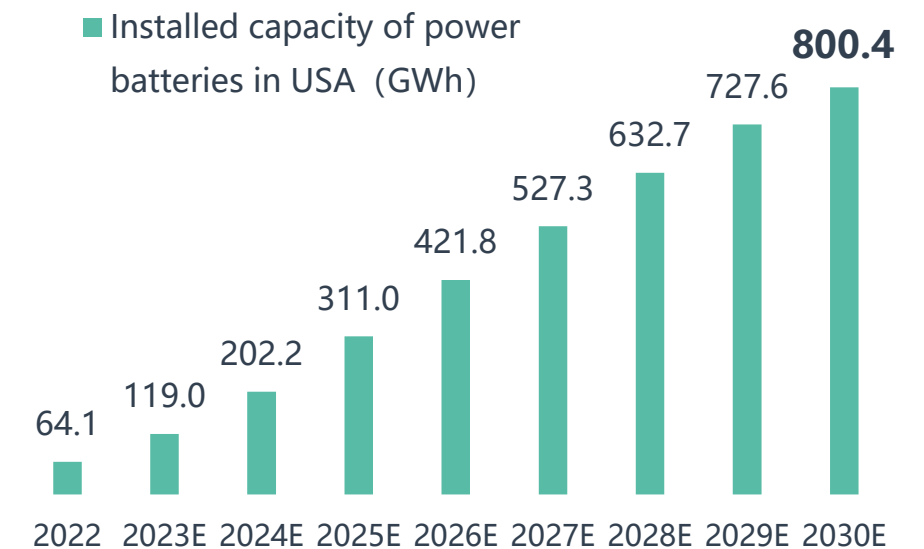
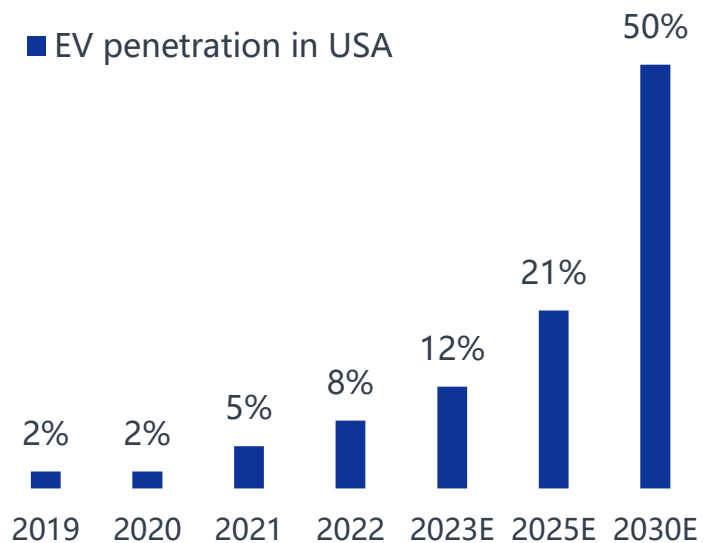
50-52%

Target proportion of EVs in new vehicles sales in 2030

50%

"Clean Energy Act"
EV purchase subsidy

100 billion dollars



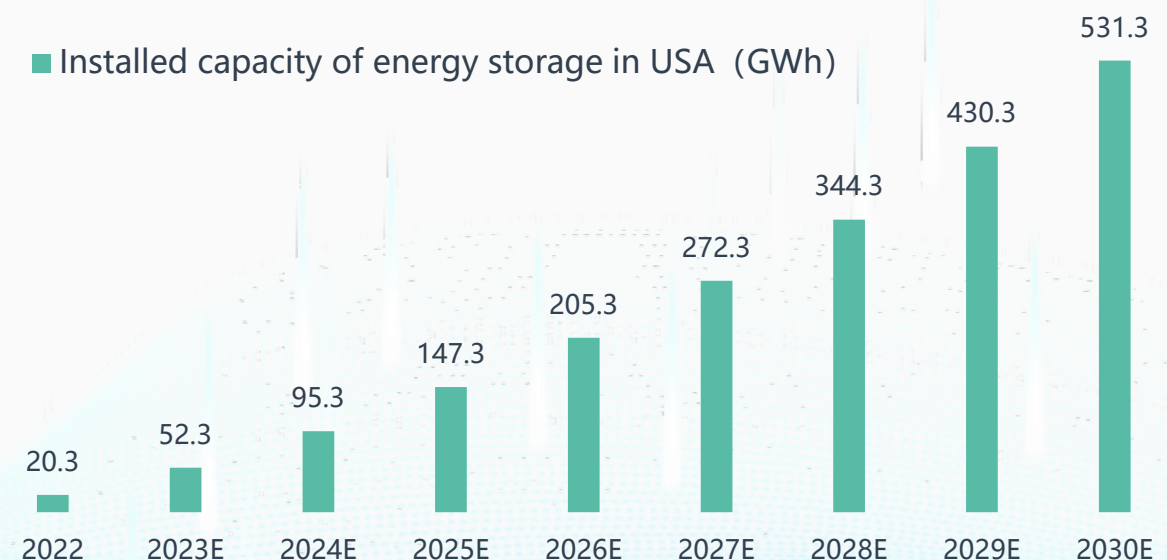
The energy storage market continues to thrive as a result of America's efforts in implementing robust policy subsidies and encouraging active market participation.

Front-of-meter energy storage

- New energy generation accounts for more than **20%**, and it is challenging for the aged power grid to absorb.
- 1MW+ projects can enjoy **30-70%** of ITC tax rebate subsidies, with outstanding economic value.

Behind the meter energy storage

- Power outages occur frequently in the United States.
- The ITC tax rebate will be increased from 23% to **30%** from 2023.



○ The market potential for battery recycling is substantial, and its value will further become prominent with the large-scale decommissioning of batteries.

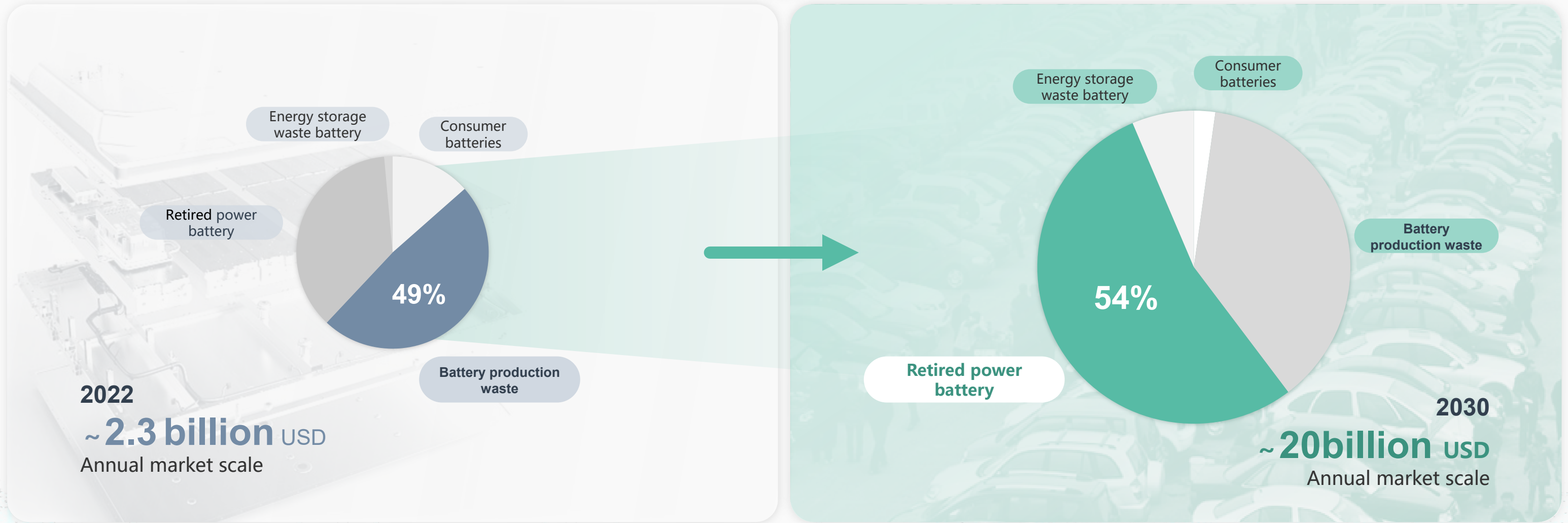
Previous

In future

2030

Battery production waste (Type B battery, scraps)

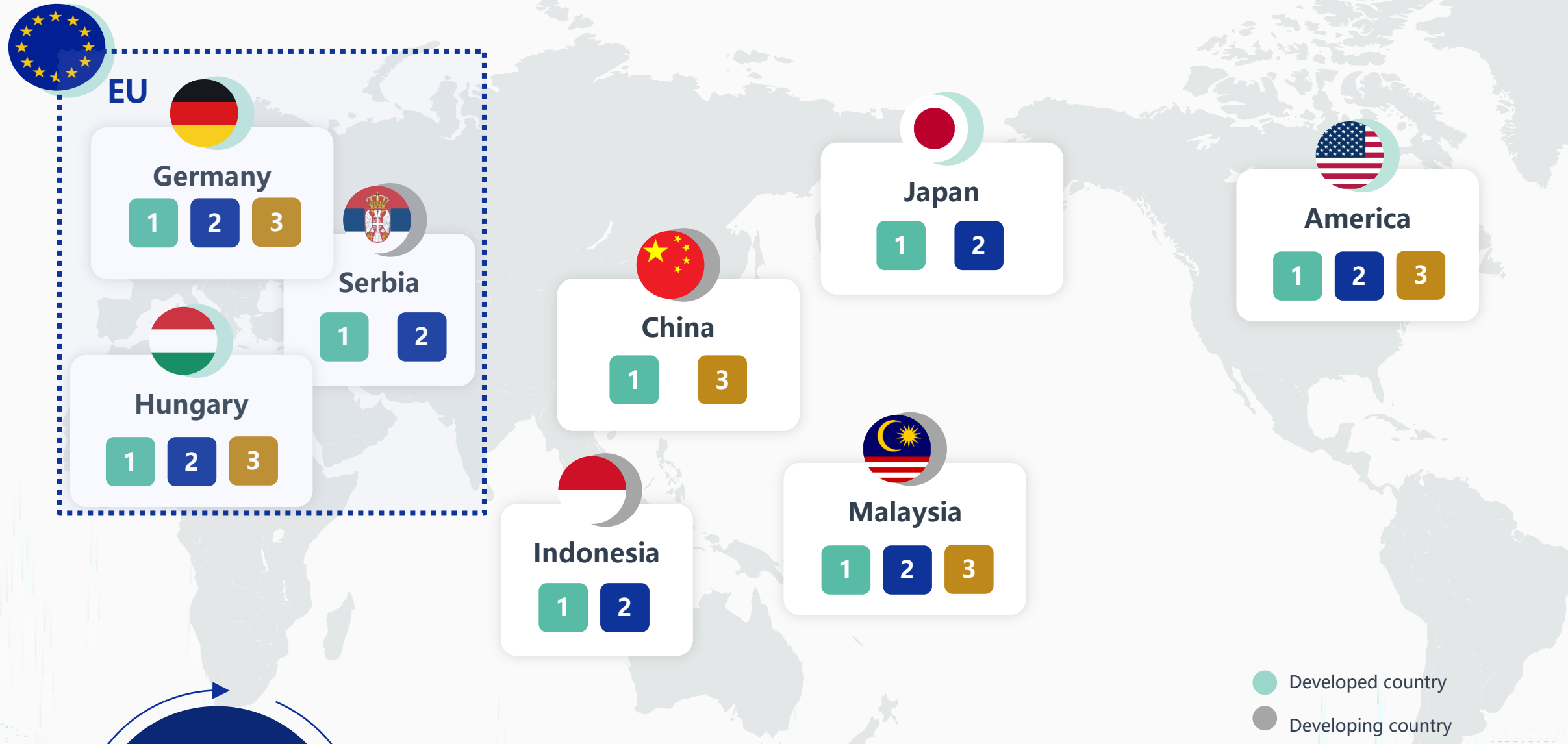
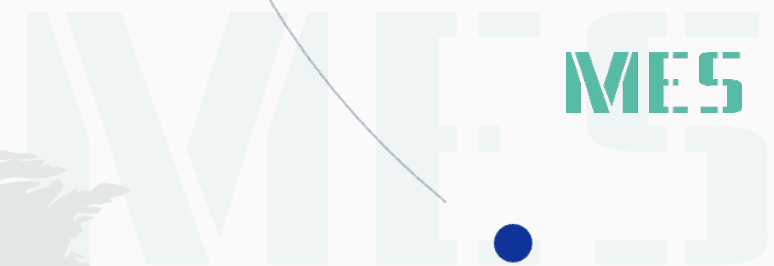
Retired batteries value



Global battery recycling market scale exceeds 15 billion USD.

Source: SNE Research, Iyiu research, Mitsui
The prices of overseas metal salts are: 115,000 yuan/ton of lithium carbonate, 26,000 yuan/ton of nickel sulfate and 32,000 yuan/ton of cobalt sulfate.

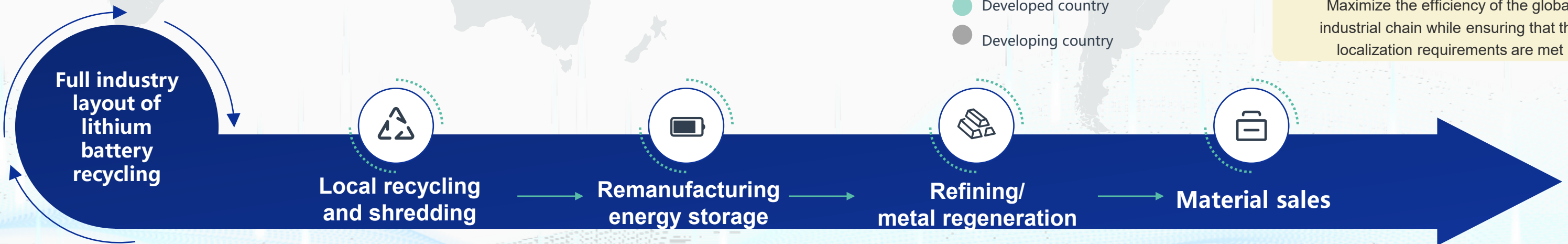
MES: A global lithium battery recycling service provider



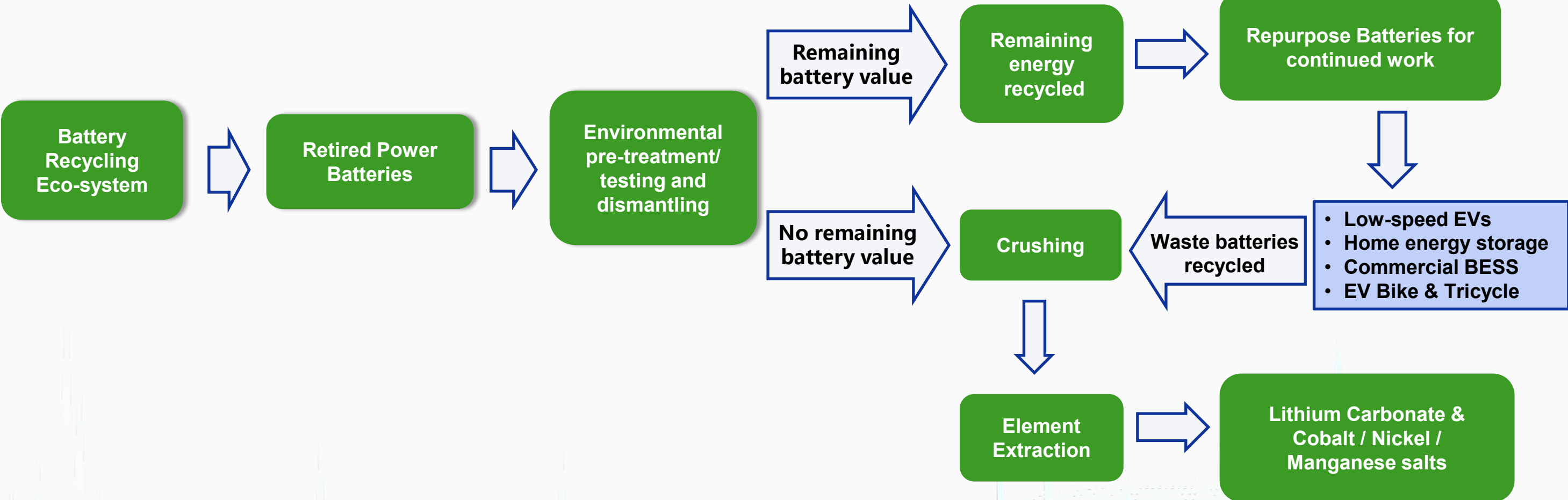
1 End-market
 Bind local resource channels in the form of JV, basing production on sales prospects
 Complete the closed loop of recycling in each area.

2 Localized shredding
 Deploy shredding capacity locally according to the partner's requirements

3 Globalized hydrometallurgy capacity
 Localization (30%) + Establish emerging market bases (70%)
 Maximize the efficiency of the global industrial chain while ensuring that the localization requirements are met



MES: Continuously expanding its presence in the global lithium battery recycling industry chain



Cobalt oxide Cobalt hydroxide Cobalt sulfate Nickel oxide Manganese sulfate Sodium sulfate
Lithium carbonate Nickel sulfate

○ Treatment Capacity: Advanced equipment and processes make MES the first choice for overseas partners



Industry-leading R&D Investment and Technical Reserves

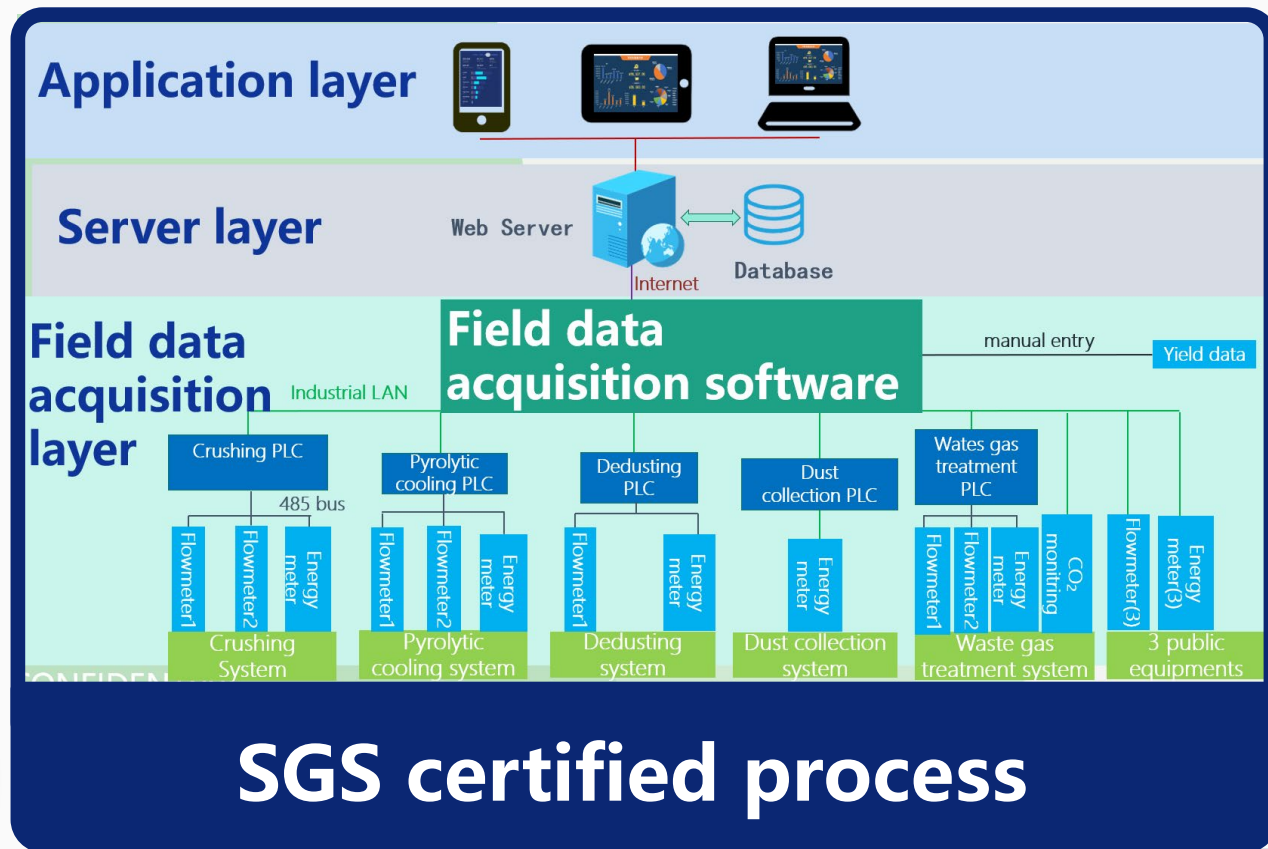
Industry's First Post-lithium Technology Path
The recovery rate of lithium carbonate/iron phosphate is 5% higher than industry average.

Independently Developed Shredding Equipment
Treatment capacity for scrapped batteries: 1.5 tons/h VS industry average <1 ton/h

Fully Automated Production Line
Reduce labor cost by 10-15%

Graphite Recycling
Full line of mental product recovery

○ Treatment Capacity (continued) : Segmented detection of carbon footprint, reduces the cost to meet the Eco-Friendly requirements in Europe and USA



Four ISO 14067:2018 Product Carbon Footprint Verification Statements are displayed, all issued by SGS-CSTC Standards Technical Services Co., Ltd. on December 28, 2023, for Jiangxi Miracle Golden Tiger Cobalt Co., Ltd.

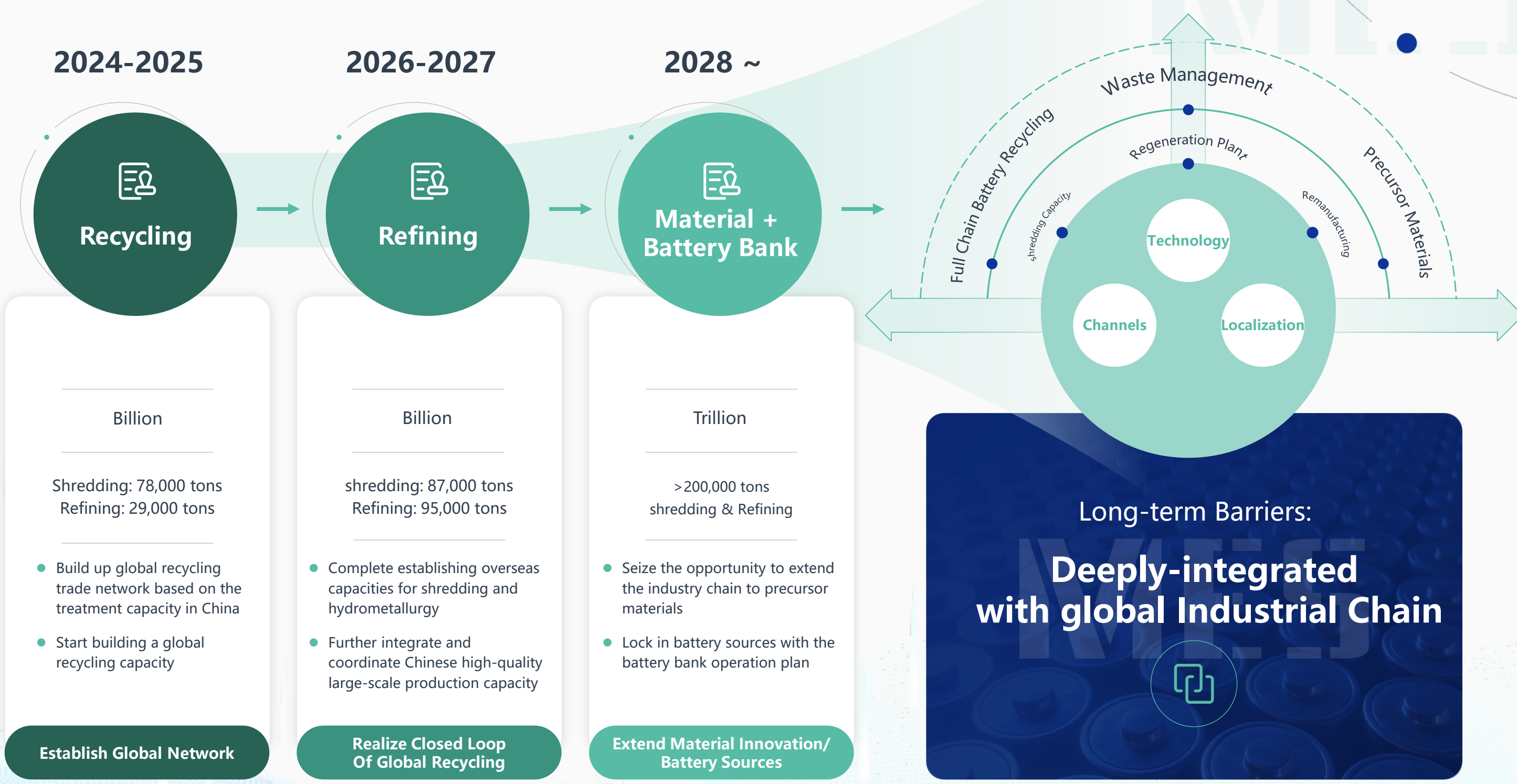
- Statement CN23/00006929:** Product Carbon Footprint Verification Statement for One metal ton nickel metal amount of nickel sulfate solution (MHP). Carbon footprint: 15,313.00 kg of CO₂ e.
- Statement CN23/00006928:** Product Carbon Footprint Verification Statement for One metal ton lithium carbonate for batteries (reclaimed materials). Carbon footprint: 26,051.08 kg of CO₂ e.
- Statement CN23/00006932:** Product Carbon Footprint Verification Statement for One metal ton cobalt metal amount of cobalt sulfate solution (recycle). Carbon footprint: 1,117.39 kg of CO₂ e.
- Statement CN23/00006928:** Product Carbon Footprint Verification Statement for One metal ton cobalt metal amount of cobalt sulfate oxide (recycle). Carbon footprint: 10,461.56 kg of CO₂ e.

We make our Equipment. We monitor all performance parameters including Carbon Emissions

We take the lead to accurately verify our carbon emissions; All raw materials are carbon traceable

Ability to quickly Retrofit Equipment to continuously adapt to evolving environmental demands

○ Vision: Becoming the leading global lithium recycling company



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MES



THANKS