



Huayou Cobalt

Becoming a Global Leader of New Energy Li-ion Battery Materials

2022

Company Overview



- Founded in 2002, Listed in 2015, Market Cap ~US\$18 Bn (Aug 2022)
- A High-tech global cooperation, focusing on R&D and production of cobalt new materials and new energy Li-ion battery materials
- Resource Secured Aboard, Manufacturing in China, Serving the Global Market
- Diversified business segments across Resource, Refining and New Energy
- Vertically integrated production across whole value chain: Resource, Metallurgy, Precursors, Cathode Material, Lithium Battery and Battery Recycling
- By July 2022, Employees 23,005: 30%+ above Bachelor Degree; 73.35% Chinese, 26.65% Foreigners



Listed on SHSE (603799) in January 2015

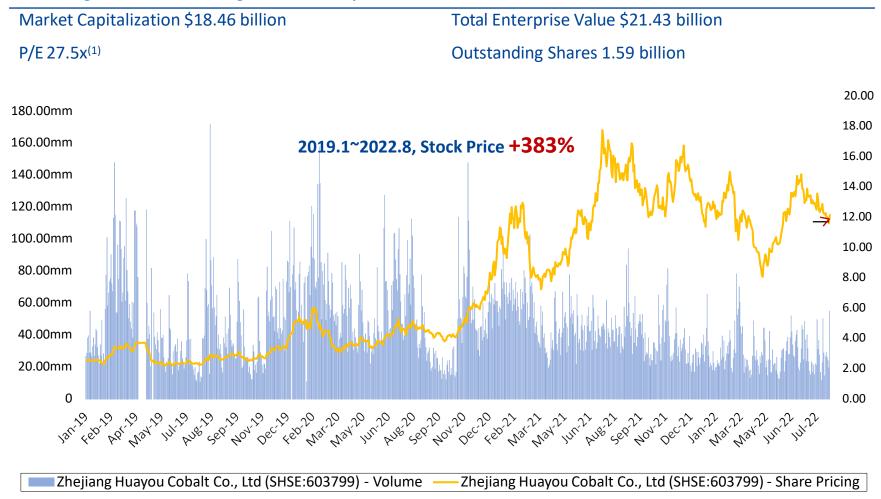


Congo: Cobalt & Copper Indonesia: Nickel & Cobalt Tongxiang, China: Headquater Quzhou, China: Manufacturing

Market Performance



As of August 22 2022, Closing Price \$ 12.21 per share

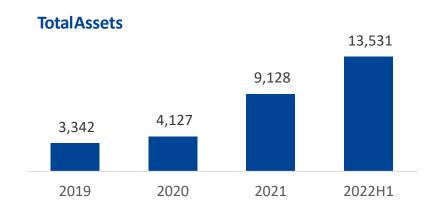


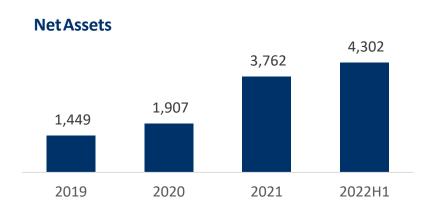
Financial Performance

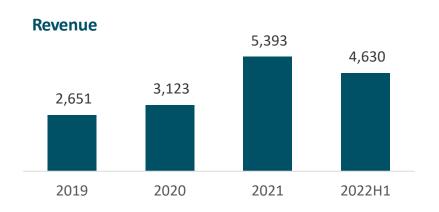


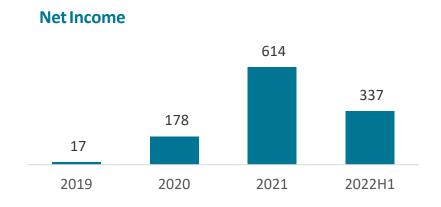
Strong Historical Financial Performance and High Operation Efficiency

(By million dollar)









Business Portfolio & Industry Chain



Company Business Segments (3+1)

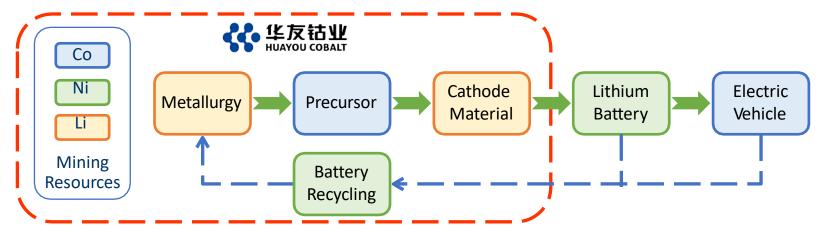
Huayou Recycling Huayou Resource Huayou New Material Huayou New Energy Nickel 145,000t NCM pCAM 150,000t Battery Handled 65,000t NCM CAM 150,000t **Cobalt Product** 47,000t Metal Recovery 31,000t Cobalt Nickel 7,500t Co₃O₄ 30,000t LCO 17,500t > Cobalt 2,500t 100,000t Copper Nickel Products 90,000t > Lithium 10,000t

- Forming an Integrated Industrial Chain around Li-ion Battery Material through 20+ years
 - Including Ni, Co, Li Resources Smelting Refining Precursor Cathode & Battery Recycling
 - Global Layout: Base in Tongxiang, Sourcing Aboard, Manufacturing Domestically & Overseas
- Serving Global Top-Tier Market With Honor and Confidence



-Cost Advantage of the Integrated Industrial Chain

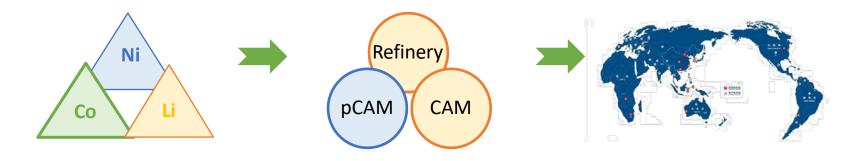
Company Business Segments (3+1)



Resource Secured Aboard

Manufacturing in Asia Pacific

Serving the Global Market





-Well Recognized by Worldwide Customers

Coverage of Global Mainstream Markets



European Market (EU and others)



Asian Market (China, Japan, South Korea and others)



American Market (US and others)





























































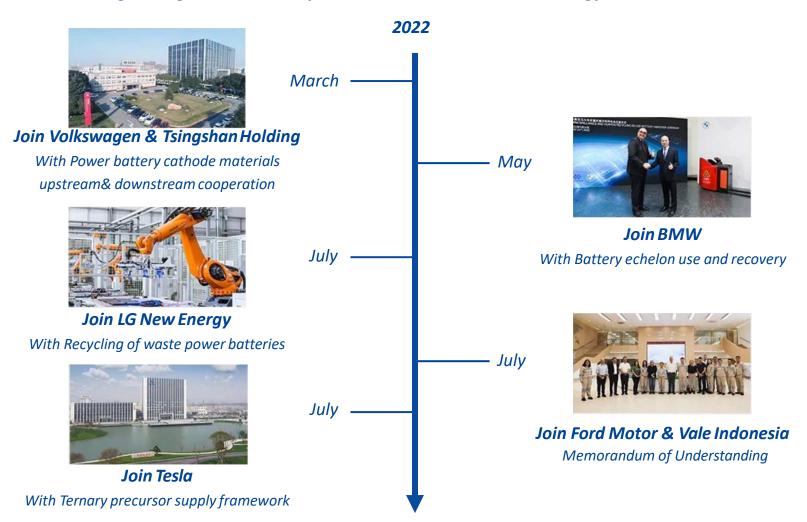






-Well Recognized by Worldwide Customers

- High-standard opening-up and strategic cooperation to make new breakthroughs;
- > Further strengthening worldwide competitiveness in the field of new energy lithium electric materials





-Tops in Global Rankings

Recent Accomplishments

- Coordinating Project Implementation, Industrial Layout and Operating Expansion
- Strengthening Domestic and International Dual Circulations



➤ Indonesia:

Huayue HPAL Hydrometallurgy Project reached design capacity in 2022H1



> Zimbabwe:

Arcadia Lithium Project started construction



> Chengdu, China:

B&M Science and Technology Phase 3 50,000 tons cathode material on trial production

➤ Huake Project:

Pyrometallurgy-Method Line put into trial production by June; Entire process aimed in 2022H2



Quzhou Project:

50,000 t/a battery-graded nickel sulfate & precursors entered trial production



➤ Guangxi Project:

Battery-graded 50,000 t/a NMC materials and 100,000 t/a precursors producing in order





-R&D Ability as a Highly-valued Asset, has been verified by Competing Markets



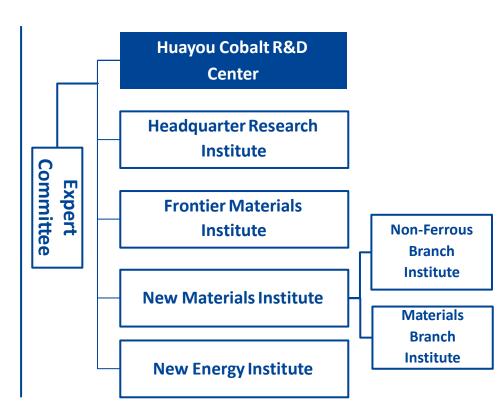
10,000 m² R&D Area

>1700 Professionals & Technical In R&D Team

280+ Core National patents including 174 authorized invention patents

39 Provincial or national certified/ registered technological achievements;

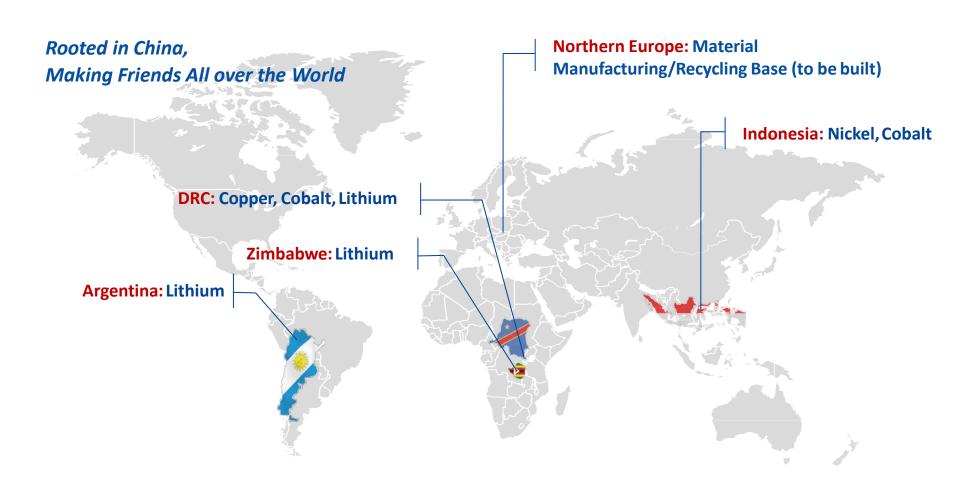
16 with global standard, **15** at national top level







-Assurance in Metal Resources



华友钴业 HUAYOU COBALT

-Assurance in Metal Resources-Copper & Cobalt

Cobalt and Copper in DRC

CDM Smelter in DRC

- Crude Cobalt Salt: 25,000 t Co/a
- ➤ Electrolytic Copper: 100,000 t Cu/a



Cobalt, Copper Smelter

Main Products





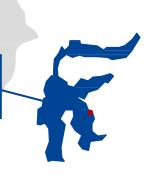


-Assurance in Metal Resources-Nickel & Cobalt

Nickel and Cobalt in Indonesia

Huayue HPAL Hydrometallurgy Project

Annual Capacity: Ni 60,000 t, Co 6,000 t





Huake Hi-Nickel Matte Project

Annual Capacity: Ni 45,000 t

Huafei HPAL Hydrometallurgy Project

Annual Capacity: Ni 120,000 t, Co 12,000 t

Huayue HPAL Project

Huafei HPAL Project

Huake Hi-Nickel Matte Project



华友钴业 HUAYOU COBALT

-Assurance in Metal Resources Lithium

Africa and Argentina: Lithium



DRC | Manono Lithium Project
Zimbabwe | Arcadia Lithium Mine





Project	Share-Holding	Description Notes
Arcadia Lithium Mine in Zimbabwe	90%	72.70 Mn tons @1.06% Li ₂ O (~1.9 Mn tons of LCE)
Manono Lithium Project in DRC	Equity Participation	260 Mn tons @1.63% Li ₂ O (~16 Mn tons of LCE)
Saline Lithium Resources in Argentina		
(Arizaro, Pocitos, Olaroz)	Equity Participation	73,000 ha



Rooted in China, Making Friends All over the World