

# Investigation Report on the Chinese Cobalt Market 2021-2025

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## Abstracts

The industry chain of cobalt mainly includes cobalt ore mining and dressing (upstream), cobalt smelting and processing (midstream) and terminal utilization of cobalt (downstream). In the upstream, Congo (Kinshasa) accounts for nearly half of the global cobalt ore reserves and production; in the midstream, China contributes nearly half to global production capacity and production volume of cobalt salts, cobalt and cobalt powder; in the downstream, cobalt is applied in batteries, high-temperature alloys, cemented carbides, magnetic materials, etc.

By the end of 2020, global cobalt reserves totaled about 7 million tons, 3.60 million tons or 50% of which were in Congo (Kinshasa). Australia, Cuba. Etc. accounted for 5% to 20% respectively while China only accounted for only about 1%.

In 2020, the global production volume of cobalt was about 140,000 tons, decreasing by nearly 3% YOY. The production volume of cobalt in Congo (Kinshasa) was about 95,000 tons, decreasing by nearly 5% YOY. Cobalt production declined consecutively in Congo (Kinshasa) from 2018 to 2020 because Luoyang Molybdenum' TFM copper and cobalt mine, the world's third largest cobalt mine, has reduced its production from 2019. Glencore' Mutanda, the world's largest mine, has been shut down for technical reforms for three consecutive years since 2020. At the same time, the new crown epidemic has affected the cobalt mining industry, resulting in insufficient cobalt supply, stimulating the rise of cobalt prices.

In recent years, global cobalt production stay above 130,000 tons per year and cobalt demand is also small. Therefore, cobalt prices can be easily manipulated to soar or slump, which is different from copper, aluminum, lead, zinc and other bulk commodities.

According to CRI' market research, cobalt is mostly used in battery materials. It is estimated that in 2020, more than 60% of global cobalt consumption was attributable to the materials for 3C batteries, energy storage batteries, power batteries for new energy vehicles and other batteries. With the advent of 5G smart phones, 3C electronic shipments and unit charge will increase in the future. Mobile phones and new energy vehicles will account for about 70% of China's cobalt applications.

If there is no major technological innovation, the cobalt demand from cemented carbides, high-temperature alloys and magnetic materials will remain stable in the next few years. And battery materials will be the largest growth driver for the cobalt demand from 2021 to 2025.

It is expected that li-ion batteries for electric vehicles will be the largest growth area for cobalt consumption in the battery sector. In recent years, the global production volume of electric vehicles has been growing fast at a growth rate far exceeding that of traditional vehicles. In 2020, the production volume of electric vehicles in China reached about 1.456 million units, increasing by 22% as compared to 2019. The demand for cobalt, an important raw material for electric vehicle batteries, will continue to grow. Power batteries have taken up the largest proportion of the downstream applications of cobalt.

As global new energy vehicle industry is developing rapidly, the global cobalt demand will also continue to rise. It is expected that from 2021 to 2025, the global production volume of new energy vehicles will grow at a CAGR of around 40%, the cobalt demand from ternary materials will grow at a CAGR of about 50% and the demand for energy storage lithium batteries will grow at a CAGR of nearly 50%. Meanwhile, ternary batteries will see an increase in penetration rate and their demand for cobalt will grow at a CAGR of 80%. The cobalt demand from 3C batteries and industrial batteries will maintain a CAGR of about 5%. Overall, the CAGR of global cobalt demand will stay around 10% from 2021 to 2025.

Topics covered:

Development environment for the cobalt industry

Supply of and demand for cobalt on global and Chinese markets

Analysis on major downstream industries of cobalt

Price trend of cobalt

Major cobalt mining and smelting enterprises and downstream enterprises in China and the world

Driving forces and market opportunities for the cobalt industry from 2021 to 2025

Threats and challenges to the cobalt industry from 2021 to 2025

Prospect of global and China's cobalt industries from 2021 to 2025

## Contents

### **1. BASIC CONCEPTS OF THE COBALT INDUSTRY**

- 1.1. Definition and Classification
  - 1.1.1. Definition
  - 1.1.2. Classification
- 1.2. Development of the Cobalt Industry
  - 1.2.1. Development of Global Cobalt Industry
  - 1.2.2. Development of China's Cobalt Industry
- 1.3. Functions and Applications of Cobalt
- 1.4. Methodology
  - 1.4.1. Parameters and Assumptions
  - 1.4.2. Data Sources
  - 1.4.3. About CRI

### **2. DEVELOPMENT ENVIRONMENT FOR GLOBAL AND CHINA'S COBALT INDUSTRIES**

- 2.1. Economic Environment
  - 2.1.1. Global Economy
  - 2.1.2. China's Economy
  - 2.1.3. Development of Global and China's New Energy Vehicle Industries
- 2.2. Policy Environment
- 2.3. Resource Environment
- 2.4. Development Environment for China's Non-ferrous Metal Industry
- 2.5. Major Downstream Applications of Cobalt
  - 2.5.1. Li-ion Power Batteries (New Energy Vehicles)
  - 2.5.2. Magnetic Materials
  - 2.5.3. Alloys

### **3. ANALYSIS ON GLOBAL AND CHINA'S COBALT INDUSTRIES**

- 3.1. Analysis on Cobalt Supply
  - 3.1.1. Cobalt Supply in the World, 2016-2020
  - 3.1.2. Cobalt Supply in China
- 3.2. Analysis on Cobalt Demand
  - 3.2.1. Cobalt Demand in the World
  - 3.2.2. Cobalt Demand in China

### 3.3. Analysis on Import and Export of Cobalt in China

#### 3.3.1. Cobalt Import

#### 3.3.2. Cobalt Export

### 3.4. Price Trend of Cobalt, 2021-2025

#### 3.4.1. Price Trend of Cobalt on the Global Market

#### 3.4.2. Price Trend of Cobalt on the Chinese Market

## 4. ANALYSIS ON INDUSTRY CHAIN OF COBALT

### 4.1. Composition of Industry Chain of Cobalt

### 4.2. Upstream Raw Materials

### 4.3. Cobalt Smelting

### 4.4. Downstream Industries

## 5. ANALYSIS ON COMPETITION IN THE COBALT INDUSTRY

### 5.1. Barriers to Entry in the Cobalt Industry

#### 5.1.1. Fund Barrier

#### 5.1.2. Technical Barrier

#### 5.1.3. Policy Barrier

#### 5.1.4. Raw Material Barrier

### 5.2. Competitive Landscape of the Cobalt Industry

#### 5.2.1. Bargaining Power of Upstream Raw Material Suppliers

#### 5.2.2. Bargaining Power of Downstream Customers

#### 5.2.3. Competition in the Cobalt Industry

#### 5.2.4. Potential Entrants to the Cobalt Industry

#### 5.2.5. Substitutes for Cobalt

## 6. MAJOR COBALT SMELTERS IN CHINA AND THE WORLD, 2020-2021

### 6.1. Major Cobalt Mining and Smelting Enterprises

#### 6.1.1. Glencore PLC

#### 6.1.2. Vale S.A.

#### 6.1.3. Eurasian Resources Group

#### 6.1.4. Zhejiang Huayou Cobalt Co., Ltd.

#### 6.1.5. Nanjing Hanrui Cobalt Co., Ltd.

#### 6.1.6. Jiangsu Cobalt Nickel Metal Co., Ltd.

#### 6.1.7. China Molybdenum Co., Ltd.

#### 6.1.8. Jinchuan Group Co., Ltd.

- 6.1.9. China Railway Resources Group Co., Ltd.
- 6.1.10. Ramu Nico Management (MCC) Limited
- 6.2. Downstream Material Producers
  - 6.2.1. GEM Co., Ltd.
  - 6.2.2. Ningbo Shanshan Co., Ltd.
  - 6.2.3. Beijing Easpring Material Technology Co., Ltd.
  - 6.2.4. Xiamen Tungsten Co., Ltd.
  - 6.2.5. Zhejiang Huayou Cobalt Co., Ltd.
  - 6.2.6. Hunan Brunp Recycling Technology Co., Ltd.
  - 6.2.7. Hunan Changyuan Lico Co., Ltd.
  - 6.2.8. Ningbo Jinhe New Materials Co., Ltd.
  - 6.2.9. Hunan Shenghua Technology Co., Ltd.
  - 6.2.10. Shen Zhen BTR New Energy Materials Inc.

## **7. PROSPECT OF GLOBAL AND CHINA'S COBALT INDUSTRIES, 2021-2025**

### 7.1. Factors Influencing Development of the Cobalt Industry

- 7.1.1. Driving Forces and Market Opportunities
- 7.1.2. Threats and Challenges

### 7.2. Forecast on Cobalt Supply, 2021-2025

### 7.3. Forecast on Cobalt Demand, 2021-2025

### 7.4. Trends of the Cobalt Industry

#### Selected Charts

Chart Cobalt Reserves in Major Regions of the World in 2020

Chart Policies on China's Cobalt Industry, 2016-2020

Chart Completed Fixed-asset Investment in China's Non-ferrous Metals Mining and Dressing Industry, 2016-2020

Chart Global Production Volume of Cobalt Ores, 2016-2020

Chart Global Production Volume of Refined Cobalt, 2016-2020

Chart Production Volume and Inventories of Cobalt in Major Cobalt Producing Countries

Chart Production Volume of Refined Cobalt in China, 2016-2020

Chart Production Volume of Cobalt Concentrates in China, 2016-2020

Chart Production Volume of Cobalt Ores in China, 2016-2020

Chart Consumption Volume of Cobalt in China and the World, 2016-2020

Chart Monthly Import Volume of Cobalt Ores and Concentrates in China, 2016-2020

Chart Import Volume of Cobalt Ores and Concentrates in China, 2016-2020

Chart Import Value of Cobalt Ores and Concentrates in China, 2016-2020

Chart Average Monthly Import Price of Cobalt Powder in China, 2016-2020

Chart Monthly Import Price of Refined Cobalt in China, 2016-2020

Chart Monthly Import Price of Cobaltic Oxide in China, 2016-2020  
Chart Monthly Import Price of Cobalt Hydroxide in China, 2016-2020  
Chart Monthly Import Price of Cobaltates in China, 2016-2020  
Chart Monthly Import Price of Cobalt Chloride, 2016-2020  
Chart Price of Cobalt Oxide in China, 2016-2020  
Chart Price of Electrolytic Cobalt in China, 2016-2020  
Chart Composition of Industry Chain of Cobalt  
Chart Global Distribution of Cobalt Reserves  
Chart Cobalt Resources Obtained by Chinese Enterprises from Congo (Kinshasa)  
Chart Global Consumption Volume of Lithium Batteries, 2016-2020  
Chart Operation Performance of Zhejiang Huayou Cobalt Co., Ltd., 2016-2020  
Chart Operation Performance of Nanjing Hanrui Cobalt Co., Ltd., 2016-2020  
Chart Forecast on Global Production Volume of Cobalt Ores, 2020-2025  
Chart Forecast on Consumption Volume of Cobalt in China and the World, 2020-2025

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