

# 2023 Global Manufacturing Forecast

Iron Ores And Concentrates, Agglomerated  
(Excluding Roasted Iron Pyrites)

Industry - Materials



Product Code - 07101020

© Perry/Hope Partners



perry hope  
partners

Copyright © 2023 By Perry/Hope Partners  
Printed in USA

All rights reserved. This publication may not be reproduced, stored in any information or retrieval system or transmitted in whole or in part, in any form or by any means - electronic, mechanical, photocopying, recording or otherwise - without the express written permission of Perry/Hope Partners.

Note: Every effort has been made to verify and ensure the accuracy of the information within this publication. However, if any errors exist in this publication Perry/Hope Partners disclaims any liability for any loss or damage to any party as a result of the information or errors in this publication.

# Table of Contents

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Industry - Materials**

---

**User's Guide**

---

**Methodology**

---

**Executive Summary**

---

(Monetary, Employment, Gov't Policies Issues)

**Country Markets**

---

(Historical Data Trends and Geographic Data)

**Global Markets**

---

(Historical Data Trends)

**Regional Markets**

---

(Historical Data Trends)

<b>Country Name</b>	<b>Code</b>	<b>Country Name</b>	<b>Code</b>
Argentina	ARG	Nigeria	NGA
Australia	AUS	Norway	NOR
Austria	AUT	Pakistan	PAK
Bangladesh	BGD	Philippines	PHL
Belgium	BEL	Poland	POL
Brazil	BRA	Puerto Rico	PRI
Canada	CAN	Romania	ROU
Chile	CHL	Russian Federation	RUS
China	CHN	Saudi Arabia	SAU
Czech Republic	CZE	Singapore	SGP
Denmark	DNK	South Africa	ZAF
Egypt, Arab Rep.	EGY	Spain	ESP
Finland	FIN	Sweden	SWE
France	FRA	Switzerland	CHE
Germany	DEU	Thailand	THA
Hungary	HUN	Turkey	TUR
India	IND	United Arab Emirates	ARE
Indonesia	IDN	United Kingdom	GBR
Ireland	IRL	United States	USA
Israel	ISR	Venezuela, RB	VEN
Italy	ITA	Vietnam	VNM
Japan	JPN		
Korea, Rep.	KOR		
Malaysia	MYS		
Mexico	MEX		
Netherlands	NLD		

# Users' Guide

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

## Industry - Materials

---

### Scope of the Report

---

Growing interest in iron ores and concentrates. agglomerated (excluding roasted iron pyrites) produced in the materials industry are expected to drive the market.

The market study aims at estimating the market size and the growth potential of this market. Topics analyzed within the report include a detailed breakdown of the global markets for iron ores and concentrates. agglomerated (excluding roasted iron pyrites) by geography and historical trend. The scope of the report extends to sizing of the iron ores and concentrates. agglomerated (excluding roasted iron pyrites) market and global market trends with market data for 2021 as the base year, 2022 and 2023 as the estimate years and forecast for 2024 with projection of CAGR from 2024 to 2029.

Product shipments include the total value of all products produced and shipped by all producers. For selected products, this can represent value of receipts, value of production, or value of work done. Market data is provided in U.S. dollar value at global and regional levels, as well as local currencies for all countries.

### Report Coverage

---

The report focuses a detailed calculation of original equipment manufacturers and the related system providers. The study forecasts the market value of the iron ores and concentrates. agglomerated (excluding roasted iron pyrites) market.

Published annually, this report provides a unique and accurate estimate on market sizing for this equipment/material using a proprietary economic model that integrates historical trends (horizontal analysis) and longitudinal analysis of incorporated industries (vertical analysis).

Regional summaries include North America, Europe, Asia-Pacific, Latin America, Africa, and Middle East. Percent shares are presented for each region as a share of the global market.

Product shipments values are also broken down by geographic areas in the countries in the report for regions, districts, provinces, states and cities.

This report does not list key players/companies in the market but focuses on a top-down and outlook view of the market despite the existing and entering of market companies.

# Users' Guide

---

## **Benefits of the Report**

---

This report is primarily aimed at business professionals in fields related to the market. These may include manufacturers and their suppliers, financiers and investors, researchers with backgrounds in the market, marketing and sales professionals, and others.

This report may also prove valuable to professional analysts, investors, public policy advisors and others who are seeking a better understanding and definition of how iron ores and concentrates. agglomerated (excluding roasted iron pyrites) fit into the broader global market.

The report will help the market leaders and new entrants in this market with information on the closest approximations of the revenue numbers for the overall market. This report will help stakeholders understand the competitive landscape and gain more insights to better position their businesses and to plan market strategies. The report also helps stakeholders understand the opportunities of the market.

# Methodology

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Industry: Materials**

---

## **Definition: Metals & Mining**

---

### **Methodology**

---

The Global Manufacturing Forecast report series by Perry/Hope Partners features market sales of thousands of manufactured products in various industries such as transportation, hardware, electronics, electrical products, printing services and food products. The reports are published annually based on a unique methodology that uses robust data sources and detailed logarithms to estimate global markets for manufactured products. The main steps in the methodology are:

- Manufactured products definitions and historical data are primarily based on EuroStat's Prodcom database which is updated annually.
- Market sales for the European countries are used as a ratio to all other countries in the report by GDP and the percent of the total manufacturing sector as percent of the countries total GDP.
- Adjustments to estimates are both vertical (industry) analysis and horizontal (trend) analysis.
- Demographic breakdowns of regions, cities, states, districts and provinces are based on historical population and regional GDP data projected forward.

# Global Sales

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Countries (USD Millions)

Country Name	2018	2019	2020	2021	2022	2023	2024	2029
Argentina	0.1	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Australia	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Austria	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Bangladesh	0.0	0.0	0.1	0.1	0.1	0.2	0.2	0.5
Belgium	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Brazil	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Canada	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.6
Chile	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
China	3.1	3.0	4.6	4.9	6.0	7.0	8.1	12.6
Czech Republic	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Denmark	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Egypt, Arab Rep.	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.2
Finland	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
France	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.5
Germany	0.6	0.6	0.8	0.8	1.0	1.1	1.1	1.4
Hungary	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1
India	0.3	0.3	0.4	0.5	0.5	0.6	0.7	0.9
Indonesia	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.7
Ireland	0.1	0.1	0.2	0.2	0.2	0.3	0.4	0.7
Israel	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Italy	0.2	0.2	0.3	0.3	0.4	0.4	0.5	0.6
Japan	0.8	0.8	1.2	1.2	1.5	1.7	1.9	2.8
Korea, Rep.	0.4	0.3	0.5	0.5	0.6	0.6	0.7	0.9
Malaysia	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3
Mexico	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.4
Netherlands	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.3
Nigeria	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
Norway	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Pakistan	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Philippines	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
Poland	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Puerto Rico	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.1
Romania	0.0	0.0	0.0	0.1	0.1	0.1	0.1	0.1
Russian Federation	0.2	0.2	0.2	0.3	0.3	0.4	0.4	0.6
Saudi Arabia	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.2
Singapore	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3

# Global Sales

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Countries (USD Millions)

Country Name	2018	2019	2020	2021	2022	2023	2024	2029
South Africa	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
Spain	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2
Sweden	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Switzerland	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.4
Thailand	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.5
Turkey	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
United Arab Emirates	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.1
United Kingdom	0.2	0.2	0.3	0.3	0.3	0.3	0.4	0.4
United States	1.8	1.8	2.8	3.0	3.6	4.2	4.8	7.7
Venezuela, RB	0.0	0.0	0.0	0.0	0.0	0.1	0.1	0.1
Vietnam	0.0	0.0	0.1	0.1	0.1	0.1	0.1	0.3
GLOBAL	10.4	10.1	14.9	15.8	18.9	21.7	24.7	37.0

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Regional Sales

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

The market for this equipment in North America is estimated to be \$0.0 billion dollars in 2023 and is expected to change by 15.9 percent from 2022 to 2023. The market in the Asia-Pacific region for this equipment is estimated to be \$0.0 billion in 2023 and is forecast to change by 15.7 percent from 2023 to 2024. The European market is \$0.0 billion in 2023.

### Market Size by Year (US\$ Millions)

	2018	2019	2020	2021	2022	2023	2024	2029
North America	2.2	2.2	3.2	3.4	4.1	4.8	5.5	8.6
Latin America	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
Europe	1.9	1.8	2.6	2.6	3.1	3.4	3.8	5.0
Asia-Pacific	5.3	5.1	7.6	8.2	9.9	11.5	13.1	20.0
Middle East	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.3
Africa	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4
GLOBAL	9.7	9.4	13.8	14.7	17.6	20.2	22.9	34.2

### Regional Distribution

	2018	2019	2020	2021	2022	2023	2024	2029
North America	22.4%	23.1%	23.2%	23.4%	23.6%	23.8%	24.0%	25.2%
Latin America	2.1%	2.1%	1.7%	1.6%	1.4%	1.3%	1.2%	0.8%
Europe	19.4%	19.0%	18.6%	18.0%	17.5%	17.0%	16.5%	14.7%
Asia-Pacific	54.9%	54.7%	55.3%	55.9%	56.4%	56.9%	57.3%	58.4%
Middle East	1.2%	1.2%	1.2%	1.1%	1.1%	1.0%	1.0%	0.9%
Africa	0.7%	0.8%	0.8%	0.8%	0.8%	0.9%	0.9%	1.1%
GLOBAL	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%

### Year-to-Year Change

	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2029
North America		0.2%	48.2%	7.0%	20.5%	15.9%	14.4%	56.4%
Latin America		-2.9%	21.4%	-2.7%	8.5%	5.1%	3.1%	6.2%
Europe		-5.2%	44.5%	2.8%	15.9%	11.6%	10.3%	33.1%
Asia-Pacific		-3.1%	48.6%	7.6%	20.6%	15.7%	14.5%	52.1%
Middle East		-7.2%	49.3%	1.9%	13.5%	9.9%	7.8%	31.4%
Africa		11.5%	52.7%	7.5%	22.1%	18.3%	16.6%	93.2%
GLOBAL		-2.8%	47.2%	6.4%	19.4%	14.8%	13.6%	49.3%

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Argentina

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	52.7	0.51%		
2019	45.3	0.45%	2018-2019	-14.0%
2020	70.6	0.47%	2019-2020	56.0%
2021	63.5	0.40%	2020-2021	-10.1%
2022	70.2	0.37%	2021-2022	10.7%
2023	75.3	0.35%	2022-2023	7.2%
2024	79.2	0.32%	2023-2024	5.2%
2029	92.8	0.25%	CAGR 2024-2029	3.4%

<u>Pesos</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Pesos 000s)</u>	<u>Year-to-Year Change</u>	
2018	3,154.8		
2019	2,712.1	2018-2019	-14.0%
2020	4,229.8	2019-2020	56.0%
2021	3,802.2	2020-2021	-10.1%
2022	4,207.2	2021-2022	10.7%
2023	4,511.5	2022-2023	7.2%
2024	4,744.0	2023-2024	5.2%
2029	5,556.2	CAGR 2024-2029	3.4%

In 2023, sales for this product in Argentina is forecast to be \$0.1 million dollars. Sales are forecast to change by 5.2 percent in the next year (2023 to 2024). In 2023, sales will be 4.5 million Pesos and will change by 7.2 percent in the next year (2023 to 2024).

In 2029, sales for this product in Argentina is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 3.4 percent from 2024 to 2029. In 2029, sales will be 4.5 million Pesos and will change by 7.2 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Argentina

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regional Provinces (USD 000s)

	2021	2022	2023	2028
Buenos Aires	27.1	29.1	30.6	35.8
Catamarca	0.7	0.7	0.8	0.9
Chaco	1.9	2.0	2.1	2.5
Chubut	1.0	1.0	1.1	1.3
Ciudad Autónoma de Buenos Aires (	4.5	4.8	5.0	5.5
Córdoba	5.7	6.1	6.4	7.4
Corrientes	1.8	1.9	2.0	2.3
Entre Ríos	2.1	2.3	2.4	2.8
Formosa	1.0	1.1	1.1	1.3
Jujuy	1.2	1.3	1.4	1.6
La Pampa	0.6	0.6	0.6	0.7
La Rioja	0.7	0.7	0.8	0.9
Mendoza	3.0	3.3	3.4	4.0
Misiones	2.0	2.2	2.3	2.8
Neuquén	1.1	1.1	1.2	1.5
Río Negro	1.1	1.2	1.3	1.5
Salta	2.3	2.5	2.6	3.1
San Juan	1.2	1.3	1.4	1.6
San Luis	0.8	0.9	1.0	1.2
Santa Cruz	0.6	0.6	0.7	0.8
Santa Fe	5.4	5.7	6.0	6.9
Santiago del Estero	1.6	1.7	1.8	2.1
Tierra del Fuego	0.3	0.3	0.3	0.4
Tucumán	2.6	2.8	2.9	3.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Australia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

US Dollars	Market Sales	Pct. of Global	Year-to-Year Change	
Year	(USD 000s)	Market		
2018	66.1	0.64%		
2019	61.6	0.61%	2018-2019	-6.8%
2020	88.5	0.59%	2019-2020	43.6%
2021	87.8	0.55%	2020-2021	-0.8%
2022	98.7	0.52%	2021-2022	12.3%
2023	107.0	0.49%	2022-2023	8.5%
2024	114.2	0.46%	2023-2024	6.7%
2029	135.0	0.36%	CAGR 2024-2029	3.6%

Dollars	Market Sales	Year-to-Year Change	
Year	(Dollars 000s)		
2018	95.2		
2019	88.7	2018-2019	-6.8%
2020	127.4	2019-2020	43.6%
2021	126.5	2020-2021	-0.8%
2022	142.1	2021-2022	12.3%
2023	154.1	2022-2023	8.5%
2024	164.4	2023-2024	6.7%
2029	194.4	CAGR 2024-2029	3.6%

In 2023, sales for this product in Australia is forecast to be \$0.1 million dollars. Sales are forecast to change by 6.7 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Dollars and will change by 8.5 percent in the next year (2023 to 2024).

In 2029, sales for this product in Australia is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 3.6 percent from 2024 to 2029. In 2029, sales will be 0.2 million Dollars and will change by 8.5 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Australia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Adelaide	5.8	6.3	6.7	7.6
Brisbane	11.2	12.2	13.1	15.9
Cairns (Northern Beaches)	0.8	0.8	0.9	1.1
Canberra (NSW)	2.2	2.3	2.5	2.9
Central Coast (Gosford)	1.7	1.8	1.9	2.3
Darwin	0.6	0.6	0.6	0.7
Geelong	0.8	0.8	0.9	1.0
Gold Coast (NSW)	3.3	3.6	3.9	4.9
Hobart	0.9	1.0	1.0	1.2
Melbourne	21.1	22.8	24.4	28.8
Newcastle	1.6	1.7	1.8	2.0
Perth	10.0	10.9	11.7	14.4
Sunshine Coast (Caloundra)	1.3	1.4	1.5	1.9
Sydney	21.0	22.6	24.0	27.6
Toowoomba	0.5	0.5	0.6	0.7
Townsville (Thuringowa)	0.9	1.0	1.1	1.3
Wollongong	1.3	1.4	1.4	1.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Austria

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	61.6	0.59%		
2019	57.8	0.57%	2018-2019	-6.1%
2020	83.1	0.56%	2019-2020	43.7%
2021	87.8	0.56%	2020-2021	5.7%
2022	103.0	0.54%	2021-2022	17.2%
2023	116.1	0.54%	2022-2023	12.8%
2024	129.2	0.52%	2023-2024	11.3%
2029	177.5	0.48%	CAGR 2024-2029	7.5%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	54.8		
2019	51.5	2018-2019	-6.1%
2020	74.0	2019-2020	43.7%
2021	78.2	2020-2021	5.7%
2022	91.6	2021-2022	17.2%
2023	103.3	2022-2023	12.8%
2024	115.0	2023-2024	11.3%
2029	158.0	CAGR 2024-2029	7.5%

In 2023, sales for this product in Austria is forecast to be \$0.1 million dollars.

Sales are forecast to change by 11.3 percent in the next year (2023 to 2024). In 2023, sales will be 0.1 million Euros and will change by 12.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Austria is forecast to be \$0.2 million dollars.

The compound annual growth rate is projected to change by 7.5 percent from 2024 to 2029. In 2029, sales will be 0.1 million Euros and will change by 12.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Austria

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Amstetten	0.6	0.7	0.8	1.1
Baden	0.7	0.8	0.9	1.2
Bregenz	0.8	0.9	1.0	1.4
Dornbirn	1.2	1.4	1.6	2.2
Feldkirch	0.9	1.0	1.2	1.7
Graz	5.7	6.4	7.0	9.4
Hallein	0.6	0.7	0.7	1.1
Innsbruck	3.0	3.3	3.7	5.0
Judenburg	0.2	0.3	0.3	0.4
Kapfenberg	0.6	0.6	0.7	0.9
Klagenfurt am Wörthersee	2.5	2.8	3.1	4.3
Klosterneuburg	0.7	0.8	0.9	1.3
Krems an der Donau	0.6	0.7	0.8	1.1
Kufstein	0.5	0.5	0.6	0.8
Leoben	0.6	0.6	0.7	0.9
Leonding	0.7	0.8	0.9	1.2
Linz	4.6	5.2	5.7	7.6
Lustenau	0.6	0.7	0.7	1.1
Mödling	0.6	0.7	0.7	1.0
Saalfelden am Steinernen Meer	0.5	0.6	0.7	1.0
Salzburg	3.9	4.4	4.9	6.7
Spittal an der Drau	0.5	0.5	0.6	0.8
St. Pölten	1.3	1.4	1.6	2.2
Steyr	1.1	1.2	1.3	1.8
Telfs	0.6	0.6	0.7	1.1
Traun	0.7	0.8	0.9	1.2
Villach	1.7	1.9	2.1	2.9
Wels	1.6	1.9	2.1	2.9
Wien [Vienna]	41.9	47.2	52.4	71.5
Wiener Neustadt	1.1	1.2	1.3	1.9
Wolfsberg	0.7	0.8	0.9	1.2

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Bangladesh

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	39.3	0.38%		
2019	44.8	0.44%	2018-2019	14.0%
2020	90.8	0.61%	2019-2020	102.8%
2021	104.6	0.66%	2020-2021	15.2%
2022	139.9	0.74%	2021-2022	33.7%
2023	178.8	0.82%	2022-2023	27.8%
2024	226.9	0.92%	2023-2024	26.9%
2029	536.5	1.45%	CAGR 2024-2029	27.3%

<u>Takas</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Takas 000s)</u>	<u>Year-to-Year Change</u>	
2018	3,300.0		
2019	3,761.3	2018-2019	14.0%
2020	7,629.6	2019-2020	102.8%
2021	8,786.7	2020-2021	15.2%
2022	11,752.1	2021-2022	33.7%
2023	15,019.4	2022-2023	27.8%
2024	19,057.3	2023-2024	26.9%
2029	45,064.4	CAGR 2024-2029	27.3%

In 2023, sales for this product in Bangladesh is forecast to be \$0.2 million dollars. Sales are forecast to change by 26.9 percent in the next year (2023 to 2024). In 2023, sales will be 15 million Takas and will change by 27.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Bangladesh is forecast to be \$0.5 million dollars. The compound annual growth rate is projected to change by 27.3 percent from 2024 to 2029. In 2029, sales will be 15 million Takas and will change by 27.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Bangladesh

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Barisal	3.7	4.7	5.9	13.2
Chittagong	13.9	17.7	22.5	53.2
Brahmanbaria	1.3	1.7	2.2	5.1
Chittagong	3.8	4.9	6.2	14.9
Comilla	2.6	3.3	4.2	9.7
Noakhali	1.5	1.9	2.5	5.8
Dhaka	18.4	23.7	30.2	73.0
Dhaka	7.0	9.2	11.9	31.1
Gazipur	1.9	2.5	3.2	8.4
Kishoreganj	1.4	1.7	2.2	5.1
Narayanganj	1.5	2.0	2.6	6.3
Tangail	1.6	2.1	2.6	6.0
Mymensingh	5.1	6.6	8.3	19.1
Jalalpur	1.1	1.3	1.7	3.9
Mymensingh	2.4	3.1	3.9	9.0
Netrakona (Netrokona)	1.1	1.3	1.7	3.9
Khulna	7.4	9.4	11.8	27.1
Jessore	1.3	1.7	2.1	5.0
Khulna	1.1	1.4	1.7	3.9
Satkhira	0.9	1.2	1.5	3.5
Rajshahi	8.8	11.2	14.1	32.9
Bogra	1.6	2.0	2.6	5.9
Naogaon	1.2	1.5	1.9	4.4
Pabna	1.2	1.5	1.9	4.5
Rajshahi	1.3	1.6	2.1	4.9
Sirajganj	1.5	1.9	2.4	5.8
Rangpur	7.5	9.6	12.1	28.4
Dinajpur	1.4	1.8	2.3	5.4
Gaibandha	1.1	1.4	1.7	4.0
Kurigram	1.0	1.2	1.6	3.6
Rangpur	1.4	1.8	2.2	5.3
Sylhet	4.9	6.3	8.0	19.2
Habiganj	1.0	1.3	1.6	3.8
Sunamganj	1.2	1.6	2.0	4.7
Sylhet	1.7	2.2	2.9	7.0

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Belgium

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	53.3	0.51%		
2019	50.7	0.50%	2018-2019	-4.8%
2020	76.2	0.51%	2019-2020	50.3%
2021	77.4	0.49%	2020-2021	1.6%
2022	90.5	0.48%	2021-2022	16.8%
2023	101.6	0.47%	2022-2023	12.4%
2024	112.8	0.46%	2023-2024	10.9%
2029	153.5	0.41%	CAGR 2024-2029	7.2%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	47.4		
2019	45.1	2018-2019	-4.8%
2020	67.8	2019-2020	50.3%
2021	68.9	2020-2021	1.6%
2022	80.5	2021-2022	16.8%
2023	90.5	2022-2023	12.4%
2024	100.4	2023-2024	10.9%
2029	136.7	CAGR 2024-2029	7.2%

In 2023, sales for this product in Belgium is forecast to be \$0.1 million dollars.

Sales are forecast to change by 10.9 percent in the next year (2023 to 2024). In 2023, sales will be 0.1 million Euros and will change by 12.4 percent in the next year (2023 to 2024).

In 2029, sales for this product in Belgium is forecast to be \$0.2 million dollars.

The compound annual growth rate is projected to change by 7.2 percent from 2024 to 2029. In 2029, sales will be 0.1 million Euros and will change by 12.4 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Belgium

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Vlaams Gewest [Flanders]	26.2	29.4	32.7	44.5
Antwerpen [Antwerp]	7.3	8.2	9.1	12.4
Limburg	3.6	4.0	4.5	6.2
Oost-Vlaanderen	5.9	6.6	7.4	10.0
Vlaams-Brabant	4.6	5.2	5.7	7.9
West-Vlaanderen	4.8	5.4	6.0	8.1
Wallonia	14.6	16.4	18.2	24.7
Brabant Wallon	1.7	1.9	2.2	3.1
Hainaut	5.3	6.0	6.6	8.8
Liège	4.4	5.0	5.5	7.5
Luxembourg	1.2	1.3	1.5	2.0
Namur	2.0	2.3	2.5	3.5
Brussels Gewest [Brussels]	4.4	5.0	5.5	7.5
Bruxelles-Capitale [Brussels]	4.4	5.0	5.5	7.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Brazil

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	147.2	1.42%		
2019	148.9	1.47%	2018-2019	1.1%
2020	165.1	1.11%	2019-2020	10.9%
2021	166.0	1.05%	2020-2021	0.5%
2022	178.7	0.95%	2021-2022	7.7%
2023	186.5	0.86%	2022-2023	4.3%
2024	190.8	0.77%	2023-2024	2.3%
2029	194.1	0.52%	CAGR 2024-2029	0.3%

<u>Reals</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Reals 000s)</u>	<u>Year-to-Year Change</u>	
2018	614.0		
2019	620.7	2018-2019	1.1%
2020	688.4	2019-2020	10.9%
2021	692.0	2020-2021	0.5%
2022	745.3	2021-2022	7.7%
2023	777.5	2022-2023	4.3%
2024	795.7	2023-2024	2.3%
2029	809.2	CAGR 2024-2029	0.3%

In 2023, sales for this product in Brazil is forecast to be \$0.2 million dollars. Sales are forecast to change by 2.3 percent in the next year (2023 to 2024). In 2023, sales will be 0.8 million Reals and will change by 4.3 percent in the next year (2023 to 2024).

In 2029, sales for this product in Brazil is forecast to be \$0.2 million dollars. The compound annual growth rate is projected to change by 0.3 percent from 2024 to 2029. In 2029, sales will be 0.8 million Reals and will change by 4.3 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Brazil

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Acre	0.8	0.8	0.9	0.9
Alagoas	2.8	2.9	3.0	3.0
Amapá	0.8	0.8	0.9	1.0
Amazonas	3.6	3.8	4.0	4.2
Bahia	12.5	13.0	13.2	13.1
Ceará	7.8	8.2	8.4	8.5
Distrito Federal	2.6	2.8	2.9	3.1
Espírito Santo	3.4	3.6	3.6	3.7
Goiás	6.0	6.3	6.5	6.9
Maranhão	6.1	6.3	6.5	6.6
Mato Grosso	3.0	3.2	3.3	3.4
Mato Grosso do Sul	2.4	2.5	2.5	2.6
Minas Gerais	17.9	18.7	19.0	19.1
Pará	7.5	7.9	8.1	8.5
Paraíba	3.4	3.5	3.6	3.5
Paraná	9.6	10.0	10.2	10.3
Pernambuco	8.1	8.4	8.6	8.6
Piauí	2.8	2.9	2.9	2.9
Rio de Janeiro	14.6	15.2	15.5	15.6
Rio Grande do Norte	3.0	3.1	3.2	3.2
Rio Grande do Sul	9.6	9.9	10.1	10.0
Rondônia	1.5	1.6	1.6	1.7
Roraima	0.5	0.6	0.6	0.7
Santa Catarina	6.1	6.4	6.5	6.7
São Paulo	39.0	40.6	41.6	42.3
Sergipe	2.0	2.1	2.1	2.2
Tocantins	1.4	1.4	1.5	1.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Canada

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	168.5	1.62%		
2019	167.4	1.66%	2018-2019	-0.6%
2020	238.7	1.60%	2019-2020	42.5%
2021	254.3	1.61%	2020-2021	6.6%
2022	300.1	1.59%	2021-2022	18.0%
2023	341.3	1.57%	2022-2023	13.7%
2024	382.4	1.55%	2023-2024	12.1%
2029	562.0	1.52%	CAGR 2024-2029	9.4%

<u>Dollars</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dollars 000s)</u>	<u>Year-to-Year Change</u>	
2018	219.1		
2019	217.7	2018-2019	-0.6%
2020	310.3	2019-2020	42.5%
2021	330.6	2020-2021	6.6%
2022	390.1	2021-2022	18.0%
2023	443.7	2022-2023	13.7%
2024	497.1	2023-2024	12.1%
2029	730.6	CAGR 2024-2029	9.4%

In 2023, sales for this product in Canada is forecast to be \$0.3 million dollars.

Sales are forecast to change by 12.1 percent in the next year (2023 to 2024). In 2023, sales will be 0.4 million Dollars and will change by 13.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in Canada is forecast to be \$0.6 million dollars.

The compound annual growth rate is projected to change by 9.4 percent from 2024 to 2029. In 2029, sales will be 0.4 million Dollars and will change by 13.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Canada

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Alberta	36.3	41.7	47.2	73.0
British Columbia	39.3	44.7	50.1	73.6
Manitoba	10.8	12.3	13.8	20.1
New Brunswick	6.0	6.8	7.5	10.6
Newfoundland and Labrador	4.2	4.7	5.3	7.4
Northwest Territories	0.4	0.4	0.5	0.6
Nova Scotia	7.6	8.5	9.5	13.3
Nunavut	0.3	0.4	0.4	0.6
Ontario	116.0	131.9	147.7	216.8
Prince Edward Island	1.2	1.4	1.5	2.2
Québec [Quebec]	68.2	77.4	86.5	125.4
Saskatchewan	9.4	10.7	12.0	17.7
Yukon	0.3	0.4	0.4	0.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Chile

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	25.1	0.24%		
2019	22.1	0.22%	2018-2019	-11.7%
2020	26.5	0.18%	2019-2020	19.9%
2021	28.2	0.18%	2020-2021	6.3%
2022	31.0	0.16%	2021-2022	9.8%
2023	32.8	0.15%	2022-2023	5.9%
2024	34.2	0.14%	2023-2024	4.3%
2029	35.7	0.10%	CAGR 2024-2029	0.8%

<u>Pesos</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Pesos 000s)</u>	<u>Year-to-Year Change</u>	
2018	19,401.8		
2019	17,139.8	2018-2019	-11.7%
2020	20,548.7	2019-2020	19.9%
2021	21,846.7	2020-2021	6.3%
2022	23,986.4	2021-2022	9.8%
2023	25,407.0	2022-2023	5.9%
2024	26,494.5	2023-2024	4.3%
2029	27,618.7	CAGR 2024-2029	0.8%

In 2023, sales for this product in Chile is forecast to be \$0.0 million dollars. Sales are forecast to change by 4.3 percent in the next year (2023 to 2024). In 2023, sales will be 25.4 million Pesos and will change by 5.9 percent in the next year (2023 to 2024).

In 2029, sales for this product in Chile is forecast to be \$0.0 million dollars. The compound annual growth rate is projected to change by 0.8 percent from 2024 to 2029. In 2029, sales will be 25.4 million Pesos and will change by 5.9 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Chile

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Antofagasta	1.1	1.1	1.2	1.3
Arica y Parinacota	0.4	0.4	0.4	0.4
Atacama	0.5	0.5	0.6	0.6
Aisén	0.2	0.2	0.2	0.2
Biobío (Bío Bío)	3.5	3.7	3.9	4.0
Coquimbo	1.3	1.4	1.5	1.6
La Araucanía	1.7	1.8	1.8	1.9
O'Higgins	1.6	1.7	1.8	1.8
Los Lagos	1.5	1.5	1.6	1.7
Los Ríos	0.7	0.7	0.7	0.7
Magallanes y de la Antártica	0.3	0.3	0.3	0.3
Maule	1.8	1.9	2.0	2.0
Región Metro. de Santiago	12.7	13.5	14.0	14.7
Tarapacá	0.6	0.7	0.7	0.8
Valparaíso	3.1	3.3	3.5	3.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# China

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	3,088.1	29.77%		
2019	2,988.7	29.61%	2018-2019	-3.2%
2020	4,553.0	30.57%	2019-2020	52.3%
2021	4,919.5	31.09%	2020-2021	8.0%
2022	5,992.4	31.71%	2021-2022	21.8%
2023	6,991.9	32.22%	2022-2023	16.7%
2024	8,082.1	32.79%	2023-2024	15.6%
2029	12,622.9	34.12%	CAGR 2024-2029	11.2%

<u>RMBs</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(RMBs 000s)</u>	<u>Year-to-Year Change</u>	
2018	21,215.6		
2019	20,532.6	2018-2019	-3.2%
2020	31,279.1	2019-2020	52.3%
2021	33,796.6	2020-2021	8.0%
2022	41,167.5	2021-2022	21.8%
2023	48,034.4	2022-2023	16.7%
2024	55,523.9	2023-2024	15.6%
2029	86,719.2	CAGR 2024-2029	11.2%

In 2023, sales for this product in China is forecast to be \$7.0 million dollars.

Sales are forecast to change by 15.6 percent in the next year (2023 to 2024). In 2023, sales will be 48 million RMBs and will change by 16.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in China is forecast to be \$12.6 million dollars.

The compound annual growth rate is projected to change by 11.2 percent from 2024 to 2029. In 2029, sales will be 48 million RMBs and will change by 16.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# China

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Anhui	252.2	293.1	337.4	516.3
Beijing	95.0	112.7	132.5	224.6
Chongqing	121.2	140.5	161.4	244.1
Fujian	165.9	194.1	224.9	355.4
Gansu	113.1	131.9	152.4	237.4
Guangdong	497.7	587.4	686.8	1,134.6
Guangxi	196.6	228.9	264.0	407.1
Guizhou	150.2	174.7	201.4	309.5
Hainan	38.6	45.2	52.5	83.4
Hebei	315.1	367.8	425.3	665.3
Heilongjiang	157.2	182.5	210.0	320.0
Henan	405.6	472.2	544.7	841.4
Hubei	248.3	288.7	332.6	510.2
Hunan	276.8	321.9	370.8	568.7
Jiangsu	337.8	393.8	454.8	706.8
Jiangxi	192.3	224.4	259.3	404.7
Jilin	116.7	135.7	156.4	240.5
Liaoning	184.5	214.6	247.3	380.1
Nei Menggu [Inner Mongolia]	106.1	123.7	142.8	221.3
Ningxia	29.4	34.6	40.3	65.1
Qinghai	24.6	28.7	33.3	52.6
Shaanxi	161.0	187.6	216.6	335.7
Shandong	411.0	478.9	552.7	856.5
Shanghai	108.0	127.7	149.6	249.7
Shanxi	158.6	185.5	214.9	339.0
Sichuan	284.0	326.1	371.0	534.3
Tianjin	57.6	67.8	78.9	127.9
Xinjiang	102.4	120.4	140.4	228.4
Xizang [Tibet]	13.9	16.3	19.0	30.6
Yunnan	205.6	240.4	278.5	439.8
Zhejiang	232.6	271.9	314.9	496.0
Zhejiang	232.6	271.9	314.9	496.0

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Czech Republic

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	45.1	0.44%		
2019	44.6	0.44%	2018-2019	-1.1%
2020	63.4	0.43%	2019-2020	42.0%
2021	68.2	0.43%	2020-2021	7.6%
2022	81.4	0.43%	2021-2022	19.4%
2023	93.2	0.43%	2022-2023	14.4%
2024	105.6	0.43%	2023-2024	13.3%
2029	149.8	0.40%	CAGR 2024-2029	8.4%

<u>Korunas</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Korunas 000s)</u>	<u>Year-to-Year Change</u>	
2018	1,020.2		
2019	1,009.1	2018-2019	-1.1%
2020	1,432.5	2019-2020	42.0%
2021	1,541.5	2020-2021	7.6%
2022	1,840.6	2021-2022	19.4%
2023	2,105.6	2022-2023	14.4%
2024	2,385.9	2023-2024	13.3%
2029	3,385.8	CAGR 2024-2029	8.4%

In 2023, sales for this product in Czech Republic is forecast to be \$0.1 million dollars. Sales are forecast to change by 13.3 percent in the next year (2023 to 2024). In 2023, sales will be 2.1 million Korunas and will change by 14.4 percent in the next year (2023 to 2024).

In 2029, sales for this product in Czech Republic is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 8.4 percent from 2024 to 2029. In 2029, sales will be 2.1 million Korunas and will change by 14.4 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Czech Republic

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
South Bohemian Region	4.9	5.6	6.4	9.1
South Moravian Region	9.1	10.4	11.8	16.7
Karlovy Vary Region	2.3	2.6	3.0	4.2
Hradec Králové Region	4.2	4.8	5.4	7.6
Liberecký kraj [Liberec Region]	3.4	3.9	4.4	6.3
Moravian-Silesian Region	9.3	10.6	11.9	16.7
Olomouc Region	4.9	5.6	6.3	8.9
Pardubice Region	4.0	4.6	5.2	7.4
Plzeňský kraj [Plzeň Region]	4.4	5.1	5.8	8.2
Praha [Prague]	9.8	11.2	12.7	18.2
Central Bohemian Region	10.4	11.9	13.6	19.8
Ústecký kraj [Ústí Region]	6.3	7.2	8.2	11.5
Vysočina	3.9	4.5	5.1	7.1
Zlínský kraj [Zlín Region]	4.5	5.1	5.8	8.2

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Denmark

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	36.9	0.36%		
2019	37.2	0.37%	2018-2019	0.9%
2020	58.6	0.39%	2019-2020	57.4%
2021	59.5	0.38%	2020-2021	1.5%
2022	71.4	0.38%	2021-2022	20.0%
2023	82.3	0.38%	2022-2023	15.3%
2024	93.8	0.38%	2023-2024	13.9%
2029	143.8	0.39%	CAGR 2024-2029	10.7%

<u>Kroners</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Kroners 000s)</u>	<u>Year-to-Year Change</u>	
2018	247.4		
2019	249.5	2018-2019	0.9%
2020	392.7	2019-2020	57.4%
2021	398.5	2020-2021	1.5%
2022	478.2	2021-2022	20.0%
2023	551.5	2022-2023	15.3%
2024	628.2	2023-2024	13.9%
2029	963.6	CAGR 2024-2029	10.7%

In 2023, sales for this product in Denmark is forecast to be \$0.1 million dollars.

Sales are forecast to change by 13.9 percent in the next year (2023 to 2024). In 2023, sales will be 0.6 million Kroners and will change by 15.3 percent in the next year (2023 to 2024).

In 2029, sales for this product in Denmark is forecast to be \$0.1 million dollars.

The compound annual growth rate is projected to change by 10.7 percent from 2024 to 2029. In 2029, sales will be 0.6 million Kroners and will change by 15.3 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Denmark

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

---

	2021	2022	2023	2028
Hovedstaden [Capital Region]	22.4	25.8	29.5	45.7
Midtjylland [Mid Jutland]	16.2	18.7	21.3	32.8
Nordjylland [North Jutland]	7.3	8.4	9.5	14.5
Sjælland [Zealand]	10.3	11.9	13.5	20.6
Syddanmark [South Denmark]	15.1	17.4	19.8	30.2

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Egypt

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	32.4	0.31%		
2019	37.7	0.37%	2018-2019	16.2%
2020	70.5	0.47%	2019-2020	87.1%
2021	69.9	0.44%	2020-2021	-0.9%
2022	84.6	0.45%	2021-2022	20.9%
2023	98.2	0.45%	2022-2023	16.1%
2024	112.7	0.46%	2023-2024	14.8%
2029	174.8	0.47%	CAGR 2024-2029	11.0%

<u>Pounds</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Pounds 000s)</u>	<u>Year-to-Year Change</u>	
2018	512.4		
2019	595.7	2018-2019	16.2%
2020	1,114.6	2019-2020	87.1%
2021	1,105.1	2020-2021	-0.9%
2022	1,336.1	2021-2022	20.9%
2023	1,551.5	2022-2023	16.1%
2024	1,780.6	2023-2024	14.8%
2029	2,762.3	CAGR 2024-2029	11.0%

In 2023, sales for this product in Egypt is forecast to be \$0.1 million dollars.

Sales are forecast to change by 14.8 percent in the next year (2023 to 2024). In 2023, sales will be 1.6 million Pounds and will change by 16.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Egypt is forecast to be \$0.2 million dollars.

The compound annual growth rate is projected to change by 11 percent from 2024 to 2029. In 2029, sales will be 1.6 million Pounds and will change by 16.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Egypt

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Ad-Daqahiyah [Dakahlia]	5.7	6.6	7.6	11.7
Al-Baḥr al-Aḥmar [Red Sea]	0.3	0.4	0.5	0.8
Al-Buḥayrah [Beheira]	5.5	6.3	7.3	11.2
Al-Fayyūm [Fayoum]	3.2	3.8	4.4	7.0
Al-Gharbiyah [Gharbia]	4.4	5.1	5.8	8.8
Al-Iskandariyah [Alexandria]	4.6	5.3	6.1	9.3
Al-Ismā'īliyah [Ismailia]	1.2	1.4	1.6	2.5
Al-Jīzah [Giza]	7.8	9.1	10.5	16.7
Al-Minūfiyah [Monufia]	3.8	4.4	5.1	7.8
Al-Minyā	4.9	5.8	6.6	10.3
Al-Qāhirah [Cairo]	8.4	9.6	11.0	16.5
Al-Qalyūbyah [Qalyubia]	5.1	5.9	6.8	10.7
Al-Uqṣor [Luxor]	1.1	1.3	1.5	2.3
Al-Wādī al-Jadīd [New Valley]	0.2	0.3	0.3	0.5
Ash-Sharqiyah [Sharqia]	6.4	7.5	8.6	13.4
As-Suways [Suez]	0.7	0.8	0.9	1.4
Aswān	1.3	1.5	1.7	2.7
Asyūt	3.9	4.5	5.2	8.0
Banī Suwayf [Beni Suef]	2.8	3.3	3.8	6.0
Būr Sa'īd [Port Said]	0.7	0.8	0.9	1.4
Dumyāṭ [Damietta]	1.3	1.5	1.8	2.8
Kafr ash-Shaykh [Kafr el-Sheikh]	3.0	3.4	3.9	6.0
Maṭrūḥ [Matrouh]	0.4	0.5	0.5	0.9
Qinā [Qena]	2.8	3.3	3.8	5.8
Sawḥāj [Sohag]	4.4	5.1	5.9	9.2
Sīnā' al-Janūbiyah [South Sinai]	0.1	0.1	0.1	0.2
North Sinai	0.4	0.5	0.5	0.9

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Finland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	32.3	0.31%		
2019	30.3	0.30%	2018-2019	-6.3%
2020	45.7	0.31%	2019-2020	50.8%
2021	46.2	0.29%	2020-2021	1.0%
2022	53.9	0.29%	2021-2022	16.6%
2023	60.4	0.28%	2022-2023	12.1%
2024	66.9	0.27%	2023-2024	10.7%
2029	88.3	0.24%	CAGR 2024-2029	6.4%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	28.8		
2019	27.0	2018-2019	-6.3%
2020	40.7	2019-2020	50.8%
2021	41.1	2020-2021	1.0%
2022	47.9	2021-2022	16.6%
2023	53.8	2022-2023	12.1%
2024	59.5	2023-2024	10.7%
2029	78.5	CAGR 2024-2029	6.4%

In 2023, sales for this product in Finland is forecast to be \$0.1 million dollars.

Sales are forecast to change by 10.7 percent in the next year (2023 to 2024). In 2023, sales will be 0.1 million Euros and will change by 12.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Finland is forecast to be \$0.1 million dollars.

The compound annual growth rate is projected to change by 6.4 percent from 2024 to 2029. In 2029, sales will be 0.1 million Euros and will change by 12.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Finland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Åland [Åland Islands]	0.3	0.3	0.4	0.5
Etelä-Karjala [South Karelia]	1.2	1.4	1.5	1.9
South Ostrobothnia	1.8	2.0	2.2	2.9
Etelä-Savo [South Savonia]	1.4	1.6	1.7	2.1
Kainuu	0.7	0.8	0.8	1.0
Kanta-Häme [Tavastia Proper]	1.7	1.9	2.1	2.7
Central Ostrobothnia	0.7	0.7	0.8	1.1
Keski-Suomi [Central Finland]	2.7	3.0	3.3	4.4
Kymenlaakso (Kymmenedalen)	1.7	1.9	2.1	2.6
Lappi [Lapland]	1.7	1.9	2.1	2.6
Päijät-Häme [Päijänne Tavastia]	2.0	2.2	2.4	3.1
Pirkanmaa	5.0	5.7	6.3	8.4
Pohjanmaa [Ostrobothnia]	1.7	2.0	2.2	2.8
Pohjois-Karjala [North Karelia]	1.6	1.7	1.9	2.4
North Ostrobothnia	4.1	4.6	5.1	6.7
Pohjois-Savo [North Savonia]	2.4	2.6	2.9	3.7
Satakunta	2.1	2.3	2.6	3.3
Uusimaa (Nyland)	16.5	18.6	20.8	28.3
Southwest Finland	4.7	5.2	5.8	7.7

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# France

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	220.1	2.12%		
2019	213.5	2.12%	2018-2019	-3.0%
2020	291.3	1.96%	2019-2020	36.5%
2021	299.3	1.89%	2020-2021	2.8%
2022	342.1	1.81%	2021-2022	14.3%
2023	376.7	1.74%	2022-2023	10.1%
2024	408.9	1.66%	2023-2024	8.5%
2029	506.5	1.37%	CAGR 2024-2029	4.8%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	195.9		
2019	190.0	2018-2019	-3.0%
2020	259.3	2019-2020	36.5%
2021	266.4	2020-2021	2.8%
2022	304.5	2021-2022	14.3%
2023	335.3	2022-2023	10.1%
2024	363.9	2023-2024	8.5%
2029	450.8	CAGR 2024-2029	4.8%

In 2023, sales for this product in France is forecast to be \$0.4 million dollars.

Sales are forecast to change by 8.5 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million Euros and will change by 10.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in France is forecast to be \$0.5 million dollars.

The compound annual growth rate is projected to change by 4.8 percent from 2024 to 2029. In 2029, sales will be 0.3 million Euros and will change by 10.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# France

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Auvergne - Rhône - Alpes	41.5	45.7	49.7	61.8
Bourgogne [Burgundy]	14.8	16.2	17.5	21.3
Bretagne [Brittany]	17.3	19.0	20.6	25.6
Centre - Val de Loire	13.9	15.3	16.6	20.5
Corse [Corsica]	1.7	1.9	2.0	2.5
Grand Est	29.4	32.3	34.9	42.6
Hauts-de-France	31.6	34.7	37.5	45.7
Île-de-France	64.5	71.1	77.2	95.7
Normandie [Normandy]	17.9	19.7	21.3	26.2
Nouvelle-Aquitaine	30.8	34.0	36.8	45.6
Pyrénées-Méditerranée	31.1	34.4	37.5	47.4
Pays de la Loire	19.6	21.6	23.5	29.4
Provence - Alpes - Côte d'Azur	28.0	30.9	33.6	42.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Germany

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	643.3	6.20%		
2019	589.5	5.84%	2018-2019	-8.4%
2020	824.2	5.53%	2019-2020	39.8%
2021	845.0	5.34%	2020-2021	2.5%
2022	964.4	5.10%	2021-2022	14.1%
2023	1,058.8	4.88%	2022-2023	9.8%
2024	1,147.3	4.65%	2023-2024	8.4%
2029	1,372.4	3.71%	CAGR 2024-2029	3.9%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	572.5		
2019	524.7	2018-2019	-8.4%
2020	733.6	2019-2020	39.8%
2021	752.0	2020-2021	2.5%
2022	858.3	2021-2022	14.1%
2023	942.3	2022-2023	9.8%
2024	1,021.1	2023-2024	8.4%
2029	1,221.4	CAGR 2024-2029	3.9%

In 2023, sales for this product in Germany is forecast to be \$1.1 million dollars. Sales are forecast to change by 8.4 percent in the next year (2023 to 2024). In 2023, sales will be 0.9 million Euros and will change by 9.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Germany is forecast to be \$1.4 million dollars. The compound annual growth rate is projected to change by 3.9 percent from 2024 to 2029. In 2029, sales will be 0.9 million Euros and will change by 9.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Germany

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Baden-Württemberg	129.1	142.0	154.2	186.5
Bayern [Bavaria]	153.0	168.4	183.1	222.3
Berlin	41.1	45.2	49.0	58.9
Brandenburg	29.1	31.9	34.5	41.0
Bremen	7.9	8.6	9.3	11.1
Hamburg	21.2	23.4	25.4	30.7
Hessen [Hesse]	72.7	79.9	86.7	104.2
Western Pomerania	18.4	20.0	21.6	25.0
Niedersachsen [Lower Saxony]	93.4	102.5	111.2	133.2
North Rhine-Westphalia	209.0	229.3	248.4	296.2
Rheinland-Pfalz	47.8	52.5	57.0	68.3
Saarland	11.5	12.5	13.5	15.8
Sachsen [Saxony]	46.5	50.8	54.7	63.6
Sachsen-Anhalt [Saxony-Anhalt]	25.1	27.3	29.3	33.3
Schleswig-Holstein	34.1	37.5	40.7	49.2
Thüringen [Thuringia]	24.5	26.7	28.8	33.1

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Hungary

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	23.5	0.23%		
2019	22.6	0.22%	2018-2019	-3.8%
2020	32.4	0.22%	2019-2020	43.4%
2021	33.1	0.21%	2020-2021	2.3%
2022	38.6	0.20%	2021-2022	16.5%
2023	43.1	0.20%	2022-2023	11.7%
2024	47.7	0.19%	2023-2024	10.6%
2029	60.1	0.16%	CAGR 2024-2029	5.2%

<u>Forints</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Forints 000s)</u>	<u>Year-to-Year Change</u>	
2018	7,057.7		
2019	6,788.1	2018-2019	-3.8%
2020	9,735.5	2019-2020	43.4%
2021	9,954.7	2020-2021	2.3%
2022	11,598.0	2021-2022	16.5%
2023	12,951.5	2022-2023	11.7%
2024	14,320.3	2023-2024	10.6%
2029	18,067.9	CAGR 2024-2029	5.2%

In 2023, sales for this product in Hungary is forecast to be \$0.0 million dollars.

Sales are forecast to change by 10.6 percent in the next year (2023 to 2024). In 2023, sales will be 13 million Forints and will change by 11.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in Hungary is forecast to be \$0.1 million dollars.

The compound annual growth rate is projected to change by 5.2 percent from 2024 to 2029. In 2029, sales will be 13 million Forints and will change by 11.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Hungary

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Bács-Kiskun	2.0	2.2	2.5	3.1
Baranya	1.4	1.6	1.8	2.2
Békés	1.3	1.5	1.6	2.0
Borsod-Abaúj-Zemplén	2.6	2.9	3.1	3.9
Budapest	6.6	7.4	8.2	10.1
Csongrád	1.6	1.8	2.0	2.4
Fejér	1.7	1.9	2.1	2.6
Győr-Moson-Sopron	1.8	2.0	2.3	2.9
Hajdú-Bihar	2.1	2.4	2.6	3.3
Heves	1.2	1.3	1.4	1.8
Jász-Nagykun-Szolnok	1.5	1.6	1.8	2.2
Komárom-Esztergom	1.2	1.3	1.5	1.8
Nógrád	0.8	0.8	0.9	1.1
Pest	5.2	5.9	6.6	8.8
Somogy	1.2	1.3	1.5	1.8
Szabolcs-Szatmár-Bereg	2.2	2.5	2.7	3.4
Tolna	0.9	1.0	1.1	1.3
Vas	1.0	1.1	1.2	1.5
Veszprém	1.4	1.5	1.7	2.1
Zala	1.1	1.2	1.3	1.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# India

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	315.9	3.05%		
2019	299.0	2.96%	2018-2019	-5.3%
2020	430.5	2.89%	2019-2020	44.0%
2021	457.3	2.89%	2020-2021	6.2%
2022	541.6	2.87%	2021-2022	18.4%
2023	614.9	2.83%	2022-2023	13.5%
2024	691.1	2.80%	2023-2024	12.4%
2029	947.0	2.56%	CAGR 2024-2029	7.4%

<u>Rupees</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rupees Mills)</u>	<u>Year-to-Year Change</u>	
2018	22.4		
2019	21.2	2018-2019	-5.3%
2020	30.5	2019-2020	44.0%
2021	32.4	2020-2021	6.2%
2022	38.4	2021-2022	18.4%
2023	43.6	2022-2023	13.5%
2024	49.0	2023-2024	12.4%
2029	67.1	CAGR 2024-2029	7.4%

In 2023, sales for this product in India is forecast to be \$0.6 million dollars. Sales are forecast to change by 12.4 percent in the next year (2023 to 2024). In 2023, sales will be 0 million Rupees and will change by 13.5 percent in the next year (2023 to 2024).

In 2029, sales for this product in India is forecast to be \$0.9 million dollars. The compound annual growth rate is projected to change by 7.4 percent from 2024 to 2029. In 2029, sales will be 0 million Rupees and will change by 13.5 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# India

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Andhra Pradesh	21.4	24.2	27.0	36.0
Arunāchal Pradesh	0.6	0.7	0.8	1.1
Assam	13.8	15.6	17.6	23.9
Bihār	47.6	54.3	61.3	85.6
Chandīgarh	0.5	0.6	0.6	0.9
Chhattīsgarh	11.3	12.8	14.4	19.7
Goa	0.6	0.7	0.8	1.1
Gujarāt	27.1	30.8	34.6	47.5
Haryāna	11.6	13.2	14.9	20.7
Himāchal Pradesh	3.0	3.4	3.8	5.2
Jammu & Kashmīr	5.8	6.6	7.4	10.4
Jhārkhand	14.8	16.8	19.0	26.2
Karnāataka	26.9	30.5	34.2	46.3
Kerala	14.3	16.1	17.9	23.6
Madhya Pradesh	32.7	37.2	41.9	57.8
Mahārāshtra	50.4	57.2	64.3	88.0
Manipur	1.3	1.5	1.7	2.3
Meghālaya	1.4	1.6	1.8	2.5
Odisha (Orissa)	18.4	20.8	23.3	31.5
Punjab	12.3	14.0	15.7	21.3
Rājasthān	31.4	35.7	40.3	56.0
Tamil Nādu	31.0	35.1	39.2	52.7
Telangana	15.4	17.5	19.6	26.5
Tripura	1.6	1.8	2.0	2.8
Uttarākhnd (Uttaranchal)	4.5	5.1	5.7	7.8
Uttar Pradesh	90.6	103.1	116.1	160.5
West Bengal	40.2	45.5	51.1	69.1

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Indonesia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	165.3	1.59%		
2019	172.4	1.71%	2018-2019	4.3%
2020	248.1	1.67%	2019-2020	44.0%
2021	271.0	1.71%	2020-2021	9.2%
2022	329.3	1.74%	2021-2022	21.5%
2023	383.9	1.77%	2022-2023	16.6%
2024	442.7	1.80%	2023-2024	15.3%
2029	704.5	1.90%	CAGR 2024-2029	11.8%

<u>Rupiahs</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rupiahs Mill.)</u>	<u>Year-to-Year Change</u>	
2018	2,253.9		
2019	2,350.7	2018-2019	4.3%
2020	3,383.9	2019-2020	44.0%
2021	3,695.7	2020-2021	9.2%
2022	4,490.6	2021-2022	21.5%
2023	5,235.5	2022-2023	16.6%
2024	6,038.2	2023-2024	15.3%
2029	9,608.6	CAGR 2024-2029	11.8%

In 2023, sales for this product in Indonesia is forecast to be \$0.4 million dollars.

Sales are forecast to change by 15.3 percent in the next year (2023 to 2024). In 2023, sales will be 5.2 million Rupiahs and will change by 16.6 percent in the next year (2023 to 2024).

In 2029, sales for this product in Indonesia is forecast to be \$0.7 million dollars.

The compound annual growth rate is projected to change by 11.8 percent from 2024 to 2029. In 2029, sales will be 5.2 million Rupiahs and will change by 16.6 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Indonesia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Aceh	6.5	7.6	8.8	14.2
Bali	5.6	6.5	7.5	12.3
Banten	15.3	18.0	20.8	33.8
Bengkulu	2.5	3.0	3.5	5.7
Gorontalo	1.4	1.7	1.9	3.1
Jakarta	12.8	14.9	17.1	26.8
Jambi	4.6	5.5	6.4	10.6
Jawa Barat [West Java]	59.3	69.2	79.7	126.5
Jawa Tengah [Central Java]	42.8	49.7	56.9	88.0
Jawa Timur [East Java]	49.5	57.4	65.8	102.1
West Borneo	6.4	7.5	8.6	13.9
South Borneo	5.3	6.2	7.2	11.7
Central Borneo	3.4	4.1	4.7	7.9
East Borneo	4.8	5.6	6.5	11.0
North Borneo	0.7	0.9	1.0	1.5
Bangka Belitung Islands	1.8	2.1	2.4	4.0
Kepulauan Riau [Riau Islands]	2.6	3.1	3.7	6.3
Lampung	10.6	12.3	14.2	22.5
Maluku [Moluccas]	1.8	2.1	2.4	3.6
Northern Moluccas	1.5	1.7	2.0	3.2
Western Lesser Sunda Islands	6.4	7.5	8.6	13.9
Eastern Lesser Sunda Islands	6.9	8.1	9.3	15.3
Papua (Irian Jaya)	4.4	5.2	6.1	10.5
Papua Barat [West Papua]	1.1	1.3	1.6	2.6
Riau	8.8	10.4	12.2	20.8
Sulbar [West Sulawesi]	1.6	1.9	2.2	3.6
[South Sulawesi	10.7	12.5	14.3	22.3
Central Sulawesi	4.0	4.7	5.4	9.0
Southeast Sulawesi	3.5	4.1	4.8	8.2
North Sulawesi	2.8	3.2	3.7	5.5
Sumatera Barat [West Sumatra]	6.6	7.7	8.9	14.0
South Sumatra	10.1	11.8	13.6	21.4
North Sumatra	18.1	21.1	24.4	38.7
Yogyakarta	4.7	5.5	6.3	9.8

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Ireland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	98.9	0.95%		
2019	99.9	0.99%	2018-2019	0.9%
2020	173.4	1.16%	2019-2020	73.6%
2021	188.9	1.19%	2020-2021	9.0%
2022	240.4	1.27%	2021-2022	27.3%
2023	292.7	1.35%	2022-2023	21.8%
2024	353.5	1.43%	2023-2024	20.8%
2029	664.1	1.80%	CAGR 2024-2029	17.6%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	88.1		
2019	88.9	2018-2019	0.9%
2020	154.3	2019-2020	73.6%
2021	168.1	2020-2021	9.0%
2022	214.0	2021-2022	27.3%
2023	260.5	2022-2023	21.8%
2024	314.6	2023-2024	20.8%
2029	591.1	CAGR 2024-2029	17.6%

In 2023, sales for this product in Ireland is forecast to be \$0.3 million dollars.

Sales are forecast to change by 20.8 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million Euros and will change by 21.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Ireland is forecast to be \$0.7 million dollars.

The compound annual growth rate is projected to change by 17.6 percent from 2024 to 2029. In 2029, sales will be 0.3 million Euros and will change by 21.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Ireland

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Connacht	27.8	33.8	40.7	75.8
Leinster	133.9	163.3	197.6	374.9
Munster	63.6	77.2	92.9	171.8
Ulster (part of)	15.1	18.4	22.2	41.7

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Israel

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	35.4	0.34%		
2019	33.5	0.33%	2018-2019	-5.2%
2020	54.4	0.37%	2019-2020	62.1%
2021	56.4	0.36%	2020-2021	3.8%
2022	68.3	0.36%	2021-2022	20.9%
2023	79.1	0.36%	2022-2023	15.8%
2024	90.7	0.37%	2023-2024	14.8%
2029	136.8	0.37%	CAGR 2024-2029	10.2%

<u>Shekels</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Shekels 000s)</u>	<u>Year-to-Year Change</u>	
2018	120.3		
2019	114.0	2018-2019	-5.2%
2020	184.8	2019-2020	62.1%
2021	191.9	2020-2021	3.8%
2022	232.1	2021-2022	20.9%
2023	268.8	2022-2023	15.8%
2024	308.5	2023-2024	14.8%
2029	465.2	CAGR 2024-2029	10.2%

In 2023, sales for this product in Israel is forecast to be \$0.1 million dollars.

Sales are forecast to change by 14.8 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million Shekels and will change by 15.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Israel is forecast to be \$0.1 million dollars.

The compound annual growth rate is projected to change by 10.2 percent from 2024 to 2029. In 2029, sales will be 0.3 million Shekels and will change by 15.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Israel

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
HaDarom [Southern District]	10.8	12.6	14.5	22.6
HaMerkaz [Central District]	17.9	20.9	24.1	37.4
HaZafon [Northern District]	11.8	13.7	15.7	23.6
Hefa [Haifa]	8.0	9.2	10.5	15.4
Tel Aviv	10.7	12.2	13.8	19.5
Yerushalayim [Jerusalem]	9.0	10.5	12.0	18.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Italy

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	249.7	2.41%		
2019	233.3	2.31%	2018-2019	-6.6%
2020	331.2	2.22%	2019-2020	42.0%
2021	340.4	2.15%	2020-2021	2.8%
2022	389.8	2.06%	2021-2022	14.5%
2023	430.7	1.98%	2022-2023	10.5%
2024	468.4	1.90%	2023-2024	8.8%
2029	602.7	1.63%	CAGR 2024-2029	5.7%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	222.3		
2019	207.6	2018-2019	-6.6%
2020	294.8	2019-2020	42.0%
2021	303.0	2020-2021	2.8%
2022	346.9	2021-2022	14.5%
2023	383.3	2022-2023	10.5%
2024	416.9	2023-2024	8.8%
2029	536.4	CAGR 2024-2029	5.7%

In 2023, sales for this product in Italy is forecast to be \$0.4 million dollars. Sales are forecast to change by 8.8 percent in the next year (2023 to 2024). In 2023, sales will be 0.4 million Euros and will change by 10.5 percent in the next year (2023 to 2024).

In 2029, sales for this product in Italy is forecast to be \$0.6 million dollars. The compound annual growth rate is projected to change by 5.7 percent from 2024 to 2029. In 2029, sales will be 0.4 million Euros and will change by 10.5 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Italy

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Abruzzo	8.5	9.4	10.2	13.1
Basilicata	3.6	4.0	4.3	5.4
Calabria	12.4	13.6	14.7	18.5
Campania	37.5	41.4	44.9	57.4
Emilia-Romagna	29.0	32.1	35.0	45.6
Friuli-Venezia Giulia	7.8	8.6	9.4	11.9
Lazio [Latium]	37.5	41.6	45.4	59.1
Liguria	9.8	10.8	11.7	14.6
Lombardia [Lombardy]	65.0	72.0	78.5	102.2
Marche	10.0	11.1	12.1	15.6
Molise	2.0	2.2	2.3	2.9
Piemonte [Piedmont]	28.1	31.0	33.6	42.9
Puglia [Apulia]	26.0	28.7	31.1	39.5
Sardegna [Sardinia]	10.5	11.6	12.6	16.0
Sicilia [Sicily]	32.3	35.6	38.6	49.1
Toscana [Tuscany]	24.0	26.5	28.8	37.1
Trentino-Alto Adige	7.0	7.8	8.5	11.2
Umbria	5.8	6.4	7.0	9.0
Valle d'Aosta (Vallée d'Aoste)	0.8	0.9	1.0	1.3
Veneto [Venetia]	32.1	35.5	38.7	50.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Japan

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	820.6	7.91%		
2019	817.3	8.10%	2018-2019	-0.4%
2020	1,173.8	7.88%	2019-2020	43.6%
2021	1,248.3	7.89%	2020-2021	6.3%
2022	1,480.8	7.84%	2021-2022	18.6%
2023	1,689.3	7.78%	2022-2023	14.1%
2024	1,902.6	7.72%	2023-2024	12.6%
2029	2,791.2	7.54%	CAGR 2024-2029	9.3%

<u>Yen</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Yen Bills)</u>	<u>Year-to-Year Change</u>	
2018	90.3		
2019	89.9	2018-2019	-0.4%
2020	129.1	2019-2020	43.6%
2021	137.3	2020-2021	6.3%
2022	162.9	2021-2022	18.6%
2023	185.8	2022-2023	14.1%
2024	209.3	2023-2024	12.6%
2029	307.0	CAGR 2024-2029	9.3%

In 2023, sales for this product in Japan is forecast to be \$1.7 million dollars. Sales are forecast to change by 12.6 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Yen and will change by 14.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Japan is forecast to be \$2.8 million dollars. The compound annual growth rate is projected to change by 9.3 percent from 2024 to 2029. In 2029, sales will be 0.2 million Yen and will change by 14.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Japan

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Aichi	88.8	101.7	115.0	171.7
Akita	11.6	13.1	14.6	20.4
Aomori	15.0	17.0	19.0	27.0
Chiba	73.9	84.6	95.5	142.3
Ehime	15.8	17.9	20.1	28.7
Fukui	9.1	10.3	11.6	16.7
Fukuoka	58.9	67.2	75.7	111.1
Fukushima	22.5	25.5	28.6	40.9
Gifu	23.6	26.9	30.2	43.9
Gumma (Gunma)	23.0	26.2	29.4	42.8
Hiroshima	32.4	36.9	41.5	60.2
Hokkaidō	61.6	70.0	78.5	113.0
Hyōgo	65.3	74.6	84.0	123.6
Ibaraki	33.9	38.6	43.4	63.3
Ishikawa	13.2	15.0	16.9	24.5
Iwate	14.6	16.6	18.6	26.4
Kagawa	11.1	12.6	14.2	20.4
Kagoshima	18.9	21.4	24.0	34.3
Kanagawa	109.6	125.6	142.1	213.4
Kōchi	8.4	9.5	10.7	15.2
Kumamoto	20.4	23.2	26.0	37.6
Kyōto	30.1	34.3	38.6	56.2
Mie	21.3	24.3	27.3	39.8
Miyagi	26.9	30.7	34.5	50.4
Miyazaki	12.6	14.3	16.1	23.1
Nagano	24.3	27.7	31.1	44.9
Nagasaki	15.5	17.5	19.6	27.8
Nara	15.7	17.9	20.1	29.0
Niigata	26.3	29.8	33.4	47.9
Ōita	13.4	15.2	17.0	24.6
Okayama	22.1	25.2	28.3	41.2
Okinawa	16.9	19.3	21.9	32.8
Ōsaka	101.1	115.3	129.7	189.2
Saga	9.4	10.7	12.0	17.3
Saitama	85.3	97.5	110.1	163.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# South Korea

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	366.0	3.53%		
2019	326.0	3.23%	2018-2019	-10.9%
2020	479.2	3.22%	2019-2020	47.0%
2021	497.2	3.14%	2020-2021	3.7%
2022	577.7	3.06%	2021-2022	16.2%
2023	645.3	2.97%	2022-2023	11.7%
2024	711.8	2.89%	2023-2024	10.3%
2029	920.6	2.49%	CAGR 2024-2029	5.9%

<u>Won</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Won Mills)</u>	<u>Year-to-Year Change</u>	
2018	424.2		
2019	377.8	2018-2019	-10.9%
2020	555.4	2019-2020	47.0%
2021	576.2	2020-2021	3.7%
2022	669.5	2021-2022	16.2%
2023	747.9	2022-2023	11.7%
2024	825.0	2023-2024	10.3%
2029	1,067.0	CAGR 2024-2029	5.9%

In 2023, sales for this product in South Korea is forecast to be \$0.6 million dollars. Sales are forecast to change by 10.3 percent in the next year (2023 to 2024). In 2023, sales will be 0.7 million Won and will change by 11.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in South Korea is forecast to be \$0.9 million dollars. The compound annual growth rate is projected to change by 5.9 percent from 2024 to 2029. In 2029, sales will be 0.7 million Won and will change by 11.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# South Korea

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Busan (Pusan)	34.8	38.3	41.5	49.5
North Chungcheong	17.4	19.4	21.3	26.9
South Chungcheong	22.4	24.9	27.4	35.0
Daegu (Taegu)	27.0	29.9	32.7	40.3
Daejeon (Taejŏn)	18.6	20.8	23.0	30.1
Gangwon-do (Kangwŏn-do)	16.2	17.9	19.6	24.2
Gwangju (Kwangju)	18.2	20.3	22.5	29.3
Gyeonggi-do (Kyŏnggi-do)	167.0	190.0	213.4	301.6
North Gyeongsang	27.9	30.8	33.6	41.0
South Gyeongsang	36.9	41.2	45.3	57.7
Incheon (Inch'ŏn)	32.1	35.9	39.6	51.2
Jeju-do (Cheju-do)	6.1	6.8	7.5	9.4
Jeollabuk-do [North Jeolla]	18.4	20.3	22.1	26.6
Jeollanam-do [South Jeolla]	16.9	18.5	20.0	23.3
Sejong	0.9	1.0	1.1	1.4
Seoul (Sŏul)	104.1	115.0	125.4	152.9
Ulsan	12.9	14.4	15.8	20.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Malaysia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	61.7	0.60%		
2019	61.1	0.61%	2018-2019	-1.0%
2020	88.5	0.59%	2019-2020	44.9%
2021	97.2	0.61%	2020-2021	9.8%
2022	117.9	0.62%	2021-2022	21.3%
2023	137.5	0.63%	2022-2023	16.6%
2024	158.4	0.64%	2023-2024	15.2%
2029	256.3	0.69%	CAGR 2024-2029	12.4%

<u>Ringgits</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Ringgits 000s)</u>	<u>Year-to-Year Change</u>	
2018	250.6		
2019	248.2	2018-2019	-1.0%
2020	359.5	2019-2020	44.9%
2021	394.7	2020-2021	9.8%
2022	478.8	2021-2022	21.3%
2023	558.3	2022-2023	16.6%
2024	643.0	2023-2024	15.2%
2029	1,040.5	CAGR 2024-2029	12.4%

In 2023, sales for this product in Malaysia is forecast to be \$0.1 million dollars.

Sales are forecast to change by 15.2 percent in the next year (2023 to 2024). In 2023, sales will be 0.6 million Ringgits and will change by 16.6 percent in the next year (2023 to 2024).

In 2029, sales for this product in Malaysia is forecast to be \$0.3 million dollars.

The compound annual growth rate is projected to change by 12.4 percent from 2024 to 2029. In 2029, sales will be 0.6 million Ringgits and will change by 16.6 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Malaysia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Johor	13.6	15.8	18.2	29.1
Kedah	7.7	9.0	10.3	16.2
Kelantan	6.3	7.3	8.4	13.1
Kuala Lumpur	6.4	7.4	8.5	13.2
Labuan	0.4	0.4	0.5	0.8
Melaka [Malacca]	3.3	3.9	4.5	7.2
Negeri Sembilan	4.0	4.7	5.4	8.4
Pahang	5.9	6.9	7.9	12.3
Perak	8.7	10.0	11.4	17.2
Perlis	0.9	1.0	1.2	1.8
Pinang (Pulau Pinang) [Penang]	6.3	7.3	8.3	13.1
Putrajaya	0.4	0.5	0.6	1.4
Sabah	14.4	16.8	19.5	32.3
Sarawak	10.0	11.6	13.3	21.0
Selangor	25.4	30.0	35.1	60.5
Terengganu	4.2	4.9	5.6	8.7

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Mexico

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	168.8	1.63%		
2019	171.9	1.70%	2018-2019	1.8%
2020	221.1	1.48%	2019-2020	28.6%
2021	230.1	1.45%	2020-2021	4.1%
2022	260.4	1.38%	2021-2022	13.2%
2023	284.7	1.31%	2022-2023	9.3%
2024	306.1	1.24%	2023-2024	7.5%
2029	379.0	1.02%	CAGR 2024-2029	4.8%

<u>New Pesos</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(New Pesos 000s)</u>	<u>Year-to-Year Change</u>	
2018	3,156.6		
2019	3,214.1	2018-2019	1.8%
2020	4,133.8	2019-2020	28.6%
2021	4,303.2	2020-2021	4.1%
2022	4,869.9	2021-2022	13.2%
2023	5,323.8	2022-2023	9.3%
2024	5,723.3	2023-2024	7.5%
2029	7,087.5	CAGR 2024-2029	4.8%

In 2023, sales for this product in Mexico is forecast to be \$0.3 million dollars. Sales are forecast to change by 7.5 percent in the next year (2023 to 2024). In 2023, sales will be 5.3 million New Pesos and will change by 9.3 percent in the next year (2023 to 2024).

In 2029, sales for this product in Mexico is forecast to be \$0.4 million dollars. The compound annual growth rate is projected to change by 4.8 percent from 2024 to 2029. In 2029, sales will be 5.3 million New Pesos and will change by 9.3 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Mexico

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Aguascalientes	3.0	3.3	3.5	4.5
Baja California	8.5	9.4	10.2	13.4
Baja California Sur	1.8	2.0	2.2	3.0
Campeche	2.0	2.1	2.3	2.9
Chiapas	11.7	12.8	13.9	17.6
Chihuahua	7.9	8.6	9.3	11.4
Ciudad de México	18.4	19.9	21.1	24.6
Coahuila	6.4	7.1	7.6	9.4
Colima	1.6	1.7	1.8	2.3
Durango	3.5	3.8	4.1	4.9
Guanajuato	12.5	13.7	14.7	18.2
Guerrero	7.4	8.1	8.6	10.4
Hidalgo	6.1	6.7	7.2	8.9
Jalisco	16.9	18.4	19.8	24.4
México	36.5	40.0	43.1	54.0
Michoacán	9.2	10.0	10.7	12.7
Morelos	4.1	4.4	4.8	5.9
Nayarit	2.4	2.6	2.8	3.4
Nuevo León	11.2	12.3	13.3	16.7
Oaxaca	8.4	9.2	9.8	11.9
Puebla	13.6	14.8	15.9	19.7
Querétaro	4.7	5.2	5.7	7.4
Quintana Roo	4.2	4.8	5.3	7.5
San Luis Potosí	5.8	6.3	6.7	8.2
Sinaloa	6.1	6.6	7.0	8.4
Sonora	6.3	6.9	7.4	9.2
Tabasco	5.2	5.7	6.2	7.7
Tamaulipas	7.9	8.6	9.3	11.7
Tlaxcala	2.9	3.1	3.4	4.3
Veracruz	16.5	18.0	19.2	23.0
Yucatán	4.6	5.1	5.4	6.8
Zacatecas	3.2	3.4	3.6	4.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Netherlands

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	81.0	0.78%		
2019	76.7	0.76%	2018-2019	-5.4%
2020	116.0	0.78%	2019-2020	51.4%
2021	121.6	0.77%	2020-2021	4.8%
2022	145.4	0.77%	2021-2022	19.5%
2023	166.8	0.77%	2022-2023	14.7%
2024	189.3	0.77%	2023-2024	13.5%
2029	278.4	0.75%	CAGR 2024-2029	9.4%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	72.1		
2019	68.2	2018-2019	-5.4%
2020	103.3	2019-2020	51.4%
2021	108.2	2020-2021	4.8%
2022	129.4	2021-2022	19.5%
2023	148.5	2022-2023	14.7%
2024	168.4	2023-2024	13.5%
2029	247.8	CAGR 2024-2029	9.4%

In 2023, sales for this product in Netherlands is forecast to be \$0.2 million dollars. Sales are forecast to change by 13.5 percent in the next year (2023 to 2024). In 2023, sales will be 0.1 million Euros and will change by 14.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in Netherlands is forecast to be \$0.3 million dollars. The compound annual growth rate is projected to change by 9.4 percent from 2024 to 2029. In 2029, sales will be 0.1 million Euros and will change by 14.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Netherlands

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Drenthe	4.2	4.8	5.4	7.9
Flevoland	3.6	4.2	4.8	7.4
Fryslân (Friesland)	5.5	6.3	7.1	10.3
Gelderland	17.4	20.0	22.6	33.2
Groningen	4.9	5.6	6.4	9.3
Limburg	9.3	10.6	12.0	17.2
Noord-Brabant [North Brabant]	21.3	24.5	27.7	40.7
Noord-Holland [North Holland]	24.0	27.6	31.4	46.6
Overijssel	9.8	11.2	12.7	18.6
Utrecht	11.1	12.8	14.6	22.1
Zeeland [Zealand]	3.2	3.7	4.2	6.0
Zuid-Holland [South Holland]	30.9	35.5	40.3	59.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Nigeria

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	30.7	0.30%		
2019	40.4	0.40%	2018-2019	31.6%
2020	64.6	0.43%	2019-2020	60.0%
2021	72.3	0.46%	2020-2021	11.9%
2022	92.0	0.49%	2021-2022	27.3%
2023	113.2	0.52%	2022-2023	23.0%
2024	136.8	0.56%	2023-2024	20.9%
2029	307.9	0.83%	CAGR 2024-2029	25.0%

<u>Nairas</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Nairas 000s)</u>	<u>Year-to-Year Change</u>	
2018	11,102.1		
2019	14,611.0	2018-2019	31.6%
2020	23,377.8	2019-2020	60.0%
2021	26,167.5	2020-2021	11.9%
2022	33,307.0	2021-2022	27.3%
2023	40,968.7	2022-2023	23.0%
2024	49,538.1	2023-2024	20.9%
2029	111,448.8	CAGR 2024-2029	25.0%

In 2023, sales for this product in Nigeria is forecast to be \$0.1 million dollars. Sales are forecast to change by 20.9 percent in the next year (2023 to 2024). In 2023, sales will be 41 million Nairas and will change by 23 percent in the next year (2023 to 2024).

In 2029, sales for this product in Nigeria is forecast to be \$0.3 million dollars. The compound annual growth rate is projected to change by 25 percent from 2024 to 2029. In 2029, sales will be 41 million Nairas and will change by 23 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Nigeria

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Abia	1.7	2.0	2.4	5.2
Adamawa	2.0	2.5	3.0	6.6
Akwa Ibom	2.6	3.2	3.9	8.8
Anambra	2.6	3.2	3.9	8.5
Bauchi	3.1	3.8	4.6	10.5
Bayelsa	1.1	1.3	1.6	3.5
Benue	2.7	3.3	4.0	9.0
Borno	2.8	3.4	4.2	9.4
Cross River	1.8	2.2	2.7	6.0
Delta	2.7	3.3	4.0	9.0
Ebonyi	1.5	1.8	2.2	5.3
Edo	2.0	2.5	3.0	6.5
Ekiti	1.6	1.9	2.3	5.1
Enugu	2.1	2.6	3.1	6.9
Federal Capital Territory	1.8	2.3	2.9	8.3
Imo	2.6	3.2	3.8	8.5
Jigawa	2.8	3.4	4.1	9.0
Kaduna	3.9	4.8	5.8	12.9
Kano	6.2	7.7	9.3	20.9
Katsina	3.7	4.6	5.5	12.3
Kebbi	2.1	2.6	3.1	7.0
Kogi	2.1	2.6	3.1	7.0
Lagos	6.0	7.3	8.9	19.9
Niger	2.6	3.3	3.9	8.9
Ogun	2.5	3.1	3.7	8.3
Ondo	2.2	2.7	3.3	7.3
Osun	2.2	2.7	3.3	7.4
Oyo	3.7	4.6	5.5	12.5
Plateau	2.0	2.5	3.0	6.5
Rivers	3.5	4.3	5.2	11.7
Sokoto	2.4	2.9	3.5	7.8
Taraba	1.5	1.8	2.1	4.8
Yobe	1.6	1.9	2.3	5.3
Zamfara	2.1	2.6	3.2	7.2

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Norway

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	20.4	0.20%		
2019	20.0	0.20%	2018-2019	-2.1%
2020	27.8	0.19%	2019-2020	38.9%
2021	26.9	0.17%	2020-2021	-3.4%
2022	29.7	0.16%	2021-2022	10.4%
2023	31.7	0.15%	2022-2023	6.8%
2024	33.2	0.13%	2023-2024	4.9%
2029	37.3	0.10%	CAGR 2024-2029	2.4%

<u>Krones</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Krones 000s)</u>	<u>Year-to-Year Change</u>	
2018	179.9		
2019	176.1	2018-2019	-2.1%
2020	244.7	2019-2020	38.9%
2021	236.3	2020-2021	-3.4%
2022	260.9	2021-2022	10.4%
2023	278.6	2022-2023	6.8%
2024	292.3	2023-2024	4.9%
2029	327.9	CAGR 2024-2029	2.4%

In 2023, sales for this product in Norway is forecast to be \$0.0 million dollars. Sales are forecast to change by 4.9 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million Krones and will change by 6.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Norway is forecast to be \$0.0 million dollars. The compound annual growth rate is projected to change by 2.4 percent from 2024 to 2029. In 2029, sales will be 0.3 million Krones and will change by 6.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Norway

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Akershus	3.5	3.7	3.9	4.5
Aust-Agder	0.7	0.7	0.7	0.8
Buskerud	1.6	1.7	1.8	2.0
Finnmark (Finnmárku)	0.4	0.4	0.5	0.5
Hedmark	1.1	1.2	1.2	1.3
Hordaland	2.9	3.1	3.3	3.7
Møre og Romsdal	1.5	1.6	1.6	1.8
Nordland	1.3	1.4	1.5	1.6
Oppland	1.1	1.1	1.2	1.3
Oslo	3.8	4.1	4.3	5.0
Østfold	1.6	1.8	1.8	2.1
Rogaland	2.7	2.9	3.0	3.5
Sogn og Fjordane	0.6	0.6	0.7	0.7
Telemark	1.0	1.0	1.1	1.2
Troms (Romsa)	0.9	1.0	1.0	1.1
Trøndelag	2.6	2.7	2.9	3.2
Vest-Agder	1.0	1.1	1.2	1.3
Vestfold	1.4	1.5	1.6	1.8

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Pakistan

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	30.6	0.29%		
2019	27.1	0.27%	2018-2019	-11.5%
2020	40.4	0.27%	2019-2020	49.3%
2021	42.3	0.27%	2020-2021	4.7%
2022	48.8	0.26%	2021-2022	15.3%
2023	54.2	0.25%	2022-2023	11.1%
2024	59.3	0.24%	2023-2024	9.5%
2029	78.0	0.21%	CAGR 2024-2029	6.3%

<u>Rupees</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rupees 000s)</u>	<u>Year-to-Year Change</u>	
2018	4,711.8		
2019	4,172.2	2018-2019	-11.5%
2020	6,228.7	2019-2020	49.3%
2021	6,519.2	2020-2021	4.7%
2022	7,513.5	2021-2022	15.3%
2023	8,350.2	2022-2023	11.1%
2024	9,139.9	2023-2024	9.5%
2029	12,012.4	CAGR 2024-2029	6.3%

In 2023, sales for this product in Pakistan is forecast to be \$0.1 million dollars. Sales are forecast to change by 9.5 percent in the next year (2023 to 2024). In 2023, sales will be 8.4 million Rupees and will change by 11.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Pakistan is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 6.3 percent from 2024 to 2029. In 2029, sales will be 8.4 million Rupees and will change by 11.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Pakistan

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Balochistān	3.0	3.4	3.7	5.1
Tribal Areas	1.1	1.2	1.3	1.6
Islāmābād	0.5	0.6	0.6	0.9
Khyber Pakhtūnkhwā	7.1	7.9	8.7	11.6
Punjāb	25.8	28.6	31.2	40.6
Sindh	11.4	12.6	13.8	18.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Philippines

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	52.9	0.51%		
2019	54.5	0.54%	2018-2019	3.1%
2020	75.3	0.51%	2019-2020	38.1%
2021	83.2	0.53%	2020-2021	10.4%
2022	100.5	0.53%	2021-2022	20.9%
2023	116.6	0.54%	2022-2023	16.0%
2024	133.8	0.54%	2023-2024	14.8%
2029	204.0	0.55%	CAGR 2024-2029	10.5%

<u>Pesos</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Pesos 000s)</u>	<u>Year-to-Year Change</u>	
2018	2,686.3		
2019	2,770.7	2018-2019	3.1%
2020	3,827.0	2019-2020	38.1%
2021	4,224.4	2020-2021	10.4%
2022	5,107.9	2021-2022	20.9%
2023	5,922.8	2022-2023	16.0%
2024	6,796.8	2023-2024	14.8%
2029	10,362.6	CAGR 2024-2029	10.5%

In 2023, sales for this product in Philippines is forecast to be \$0.1 million dollars. Sales are forecast to change by 14.8 percent in the next year (2023 to 2024). In 2023, sales will be 5.9 million Pesos and will change by 16 percent in the next year (2023 to 2024).

In 2029, sales for this product in Philippines is forecast to be \$0.2 million dollars. The compound annual growth rate is projected to change by 10.5 percent from 2024 to 2029. In 2029, sales will be 5.9 million Pesos and will change by 16 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Philippines

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Luzon	57.7	67.0	77.0	118.2
Mindanao	24.1	27.9	32.1	49.0
Visayas	18.8	21.7	24.7	36.9

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Poland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	78.7	0.76%		
2019	77.5	0.77%	2018-2019	-1.5%
2020	112.8	0.76%	2019-2020	45.5%
2021	115.8	0.73%	2020-2021	2.7%
2022	136.5	0.72%	2021-2022	17.9%
2023	154.3	0.71%	2022-2023	13.0%
2024	172.5	0.70%	2023-2024	11.9%
2029	230.9	0.62%	CAGR 2024-2029	6.8%

<u>Zlotys</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Zlotys 000s)</u>	<u>Year-to-Year Change</u>	
2018	298.9		
2019	294.5	2018-2019	-1.5%
2020	428.5	2019-2020	45.5%
2021	440.2	2020-2021	2.7%
2022	518.7	2021-2022	17.9%
2023	586.2	2022-2023	13.0%
2024	655.6	2023-2024	11.9%
2029	877.5	CAGR 2024-2029	6.8%

In 2023, sales for this product in Poland is forecast to be \$0.2 million dollars. Sales are forecast to change by 11.9 percent in the next year (2023 to 2024). In 2023, sales will be 0.6 million Zlotys and will change by 13 percent in the next year (2023 to 2024).

In 2029, sales for this product in Poland is forecast to be \$0.2 million dollars. The compound annual growth rate is projected to change by 6.8 percent from 2024 to 2029. In 2029, sales will be 0.6 million Zlotys and will change by 13 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Poland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Dolnośląskie [Lower Silesia]	10.3	11.6	13.0	17.4
Kujawsko-Pomorskie	7.4	8.4	9.4	12.6
Łódzkie [Łódź]	8.8	9.9	11.1	14.7
Lubelskie [Lublin]	7.6	8.6	9.6	12.7
Lubuskie [Lubusz]	3.6	4.1	4.6	6.1
Małopolskie [Lesser Poland]	12.0	13.6	15.2	20.5
Mazowieckie [Mazovia]	19.0	21.5	24.1	32.6
Opolskie [Opole]	3.5	4.0	4.4	5.8
Podkarpackie [Subcarpathia]	7.6	8.6	9.6	12.8
Podlaskie [Podlachia]	4.2	4.8	5.3	7.1
Pomorskie [Pomerania]	8.2	9.3	10.5	14.2
Śląskie [Silesia]	16.2	18.2	20.3	27.0
Świętokrzyskie [Holy Cross]	4.5	5.0	5.6	7.4
Warmińsko-Mazurskie	5.1	5.8	6.5	8.7
Wielkopolskie [Greater Poland]	12.4	14.0	15.7	21.1
West Pomerania	6.1	6.9	7.7	10.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Puerto Rico

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	38.2	0.37%		
2019	38.8	0.38%	2018-2019	1.5%
2020	58.7	0.39%	2019-2020	51.4%
2021	60.5	0.38%	2020-2021	3.0%
2022	70.2	0.37%	2021-2022	16.1%
2023	78.7	0.36%	2022-2023	12.1%
2024	86.8	0.35%	2023-2024	10.3%
2029	121.3	0.33%	CAGR 2024-2029	8.0%

<u>Dollars</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dollars 000s)</u>	<u>Year-to-Year Change</u>	
2018	38.2		
2019	38.8	2018-2019	1.5%
2020	58.7	2019-2020	51.4%
2021	60.5	2020-2021	3.0%
2022	70.2	2021-2022	16.1%
2023	78.7	2022-2023	12.1%
2024	86.8	2023-2024	10.3%
2029	121.3	CAGR 2024-2029	8.0%

In 2023, sales for this product in Puerto Rico is forecast to be \$0.1 million dollars. Sales are forecast to change by 10.3 percent in the next year (2023 to 2024). In 2023, sales will be 0.1 million Dollars and will change by 12.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Puerto Rico is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 8 percent from 2024 to 2029. In 2029, sales will be 0.1 million Dollars and will change by 12.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Puerto Rico

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Culebra	0.0	0.0	0.0	0.1
Puerto Rico	70.0	78.4	86.5	120.9
Vieques	0.2	0.2	0.2	0.3

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Romania

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	36.1	0.35%		
2019	33.4	0.33%	2018-2019	-7.5%
2020	47.9	0.32%	2019-2020	43.4%
2021	51.4	0.32%	2020-2021	7.3%
2022	60.7	0.32%	2021-2022	18.2%
2023	68.6	0.32%	2022-2023	13.1%
2024	77.0	0.31%	2023-2024	12.1%
2029	100.9	0.27%	CAGR 2024-2029	6.2%

<u>New Leus</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(New Leus 000s)</u>	<u>Year-to-Year Change</u>	
2018	154.8		
2019	143.2	2018-2019	-7.5%
2020	205.3	2019-2020	43.4%
2021	220.3	2020-2021	7.3%
2022	260.4	2021-2022	18.2%
2023	294.5	2022-2023	13.1%
2024	330.2	2023-2024	12.1%
2029	432.7	CAGR 2024-2029	6.2%

In 2023, sales for this product in Romania is forecast to be \$0.1 million dollars.

Sales are forecast to change by 12.1 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million New Leus and will change by 13.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Romania is forecast to be \$0.1 million dollars.

The compound annual growth rate is projected to change by 6.2 percent from 2024 to 2029. In 2029, sales will be 0.3 million New Leus and will change by 13.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Romania

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Alba	1.0	1.1	1.3	1.6
Arad	1.3	1.5	1.6	2.2
Argeş	1.8	2.1	2.3	3.0
Bacău	1.8	2.1	2.3	3.0
Bihor	1.8	2.0	2.2	2.9
Botoşani	1.2	1.4	1.5	2.0
Braşov	1.7	1.9	2.1	2.8
Bucureşti [Bucharest]	5.7	6.4	7.2	9.5
Buzău	1.3	1.5	1.7	2.2
Cluj	2.2	2.5	2.8	3.7
Constanţa	2.1	2.4	2.7	3.5
Dâmboviţa	1.6	1.8	2.0	2.6
Dolj	2.0	2.2	2.5	3.2
Galaţi	1.6	1.8	2.0	2.6
Gorj	1.0	1.1	1.3	1.6
Hunedoara	1.2	1.3	1.5	1.9
Iaşi	2.5	2.8	3.1	4.2
Ilfov	1.5	1.7	2.0	3.0
Maramureş	1.4	1.6	1.8	2.4
Mureş	1.7	1.9	2.1	2.8
Neamţ	1.4	1.6	1.7	2.2
Olt	1.3	1.4	1.6	2.0
Prahova	2.3	2.6	2.9	3.7
Sălaj	0.7	0.7	0.8	1.1
Satu Mare	1.0	1.2	1.3	1.7
Sibiu	1.2	1.4	1.6	2.0
Suceava	1.9	2.2	2.5	3.3
Teleorman	1.1	1.2	1.3	1.7
Timiş	2.2	2.5	2.8	3.8
Tulcea	0.6	0.7	0.8	1.0
Vâlcea	1.1	1.2	1.4	1.8
Vaslui	1.2	1.3	1.5	1.9
Vrancea	1.0	1.1	1.3	1.7

Note: Sales for 2022-2023 are forecasts and sales 1

# Russia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	173.6	1.67%		
2019	171.4	1.70%	2018-2019	-1.3%
2020	235.8	1.58%	2019-2020	37.6%
2021	261.3	1.65%	2020-2021	10.8%
2022	311.6	1.65%	2021-2022	19.3%
2023	357.8	1.65%	2022-2023	14.8%
2024	405.2	1.64%	2023-2024	13.2%
2029	616.5	1.67%	CAGR 2024-2029	10.4%

<u>Rubles</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rubles 000s)</u>	<u>Year-to-Year Change</u>	
2018	10,696.6		
2019	10,556.0	2018-2019	-1.3%
2020	14,523.5	2019-2020	37.6%
2021	16,095.8	2020-2021	10.8%
2022	19,194.2	2021-2022	19.3%
2023	22,042.2	2022-2023	14.8%
2024	24,959.9	2023-2024	13.2%
2029	37,976.5	CAGR 2024-2029	10.4%

In 2023, sales for this product in Russia is forecast to be \$0.4 million dollars.

Sales are forecast to change by 13.2 percent in the next year (2023 to 2024). In 2023, sales will be 22 million Rubles and will change by 14.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in Russia is forecast to be \$0.6 million dollars.

The compound annual growth rate is projected to change by 10.4 percent from 2024 to 2029. In 2029, sales will be 22 million Rubles and will change by 14.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Russia

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Central Russia	82.7	95.0	107.5	163.6
Dal'nevostočnyj Federal'nyj	13.3	15.2	17.1	25.3
[Southern Russia	30.9	35.5	40.3	61.9
Volga	64.1	73.4	83.0	124.9
Northern Caucasus	22.9	26.6	30.5	48.9
Northwestern Russia	28.8	33.0	37.2	55.7
Siberia	41.7	47.9	54.1	81.6
Ural'skij Federal'nyj Okrug [Ural]	27.2	31.3	35.5	54.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Saudi Arabia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	80.4	0.78%		
2019	77.7	0.77%	2018-2019	-3.4%
2020	100.5	0.67%	2019-2020	29.3%
2021	113.7	0.72%	2020-2021	13.1%
2022	134.1	0.71%	2021-2022	18.0%
2023	152.3	0.70%	2022-2023	13.5%
2024	170.5	0.69%	2023-2024	12.0%
2029	244.3	0.66%	CAGR 2024-2029	8.6%

<u>Rials</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rials 000s)</u>	<u>Year-to-Year Change</u>	
2018	301.6		
2019	291.5	2018-2019	-3.4%
2020	376.9	2019-2020	29.3%
2021	426.4	2020-2021	13.1%
2022	502.9	2021-2022	18.0%
2023	571.0	2022-2023	13.5%
2024	639.5	2023-2024	12.0%
2029	916.0	CAGR 2024-2029	8.6%

In 2023, sales for this product in Saudi Arabia is forecast to be \$0.2 million dollars. Sales are forecast to change by 12 percent in the next year (2023 to 2024). In 2023, sales will be 0.6 million Rials and will change by 13.5 percent in the next year (2023 to 2024).

In 2029, sales for this product in Saudi Arabia is forecast to be \$0.2 million dollars. The compound annual growth rate is projected to change by 8.6 percent from 2024 to 2029. In 2029, sales will be 0.6 million Rials and will change by 13.5 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Saudi Arabia

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Al-Bāḥah	1.9	2.1	2.3	3.1
Northern Frontier	1.5	1.7	1.9	2.6
Al-Jawf (incl. Al-Qurayyāt)	2.2	2.5	2.8	4.0
Medina	8.9	10.1	11.3	16.2
Al-Qaṣīm [Al-Qaseem]	6.0	6.8	7.6	10.9
Ar-Riyād [Riyadh]	34.5	39.3	44.2	64.7
Eastern Region	20.1	22.9	25.6	36.6
'Asīr [Aseer]	9.1	10.3	11.4	15.9
Ḥā'il	2.9	3.2	3.6	5.0
Jīzān	6.7	7.6	8.5	12.1
Mecca	34.0	38.6	43.1	61.4
Najrān	2.5	2.9	3.2	4.6
Tabūk [Tabouk]	3.9	4.4	5.0	7.1

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Singapore

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	61.8	0.60%		
2019	56.9	0.56%	2018-2019	-7.9%
2020	81.3	0.55%	2019-2020	42.7%
2021	93.0	0.59%	2020-2021	14.5%
2022	113.9	0.60%	2021-2022	22.4%
2023	133.9	0.62%	2022-2023	17.6%
2024	155.7	0.63%	2023-2024	16.2%
2029	263.1	0.71%	CAGR 2024-2029	13.8%

<u>Dollars</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dollars 000s)</u>	<u>Year-to-Year Change</u>	
2018	82.8		
2019	76.3	2018-2019	-7.9%
2020	108.9	2019-2020	42.7%
2021	124.6	2020-2021	14.5%
2022	152.6	2021-2022	22.4%
2023	179.5	2022-2023	17.6%
2024	208.6	2023-2024	16.2%
2029	352.6	CAGR 2024-2029	13.8%

In 2023, sales for this product in Singapore is forecast to be \$0.1 million dollars.

Sales are forecast to change by 16.2 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Dollars and will change by 17.6 percent in the next year (2023 to 2024).

In 2029, sales for this product in Singapore is forecast to be \$0.3 million dollars.

The compound annual growth rate is projected to change by 13.8 percent from 2024 to 2029. In 2029, sales will be 0.2 million Dollars and will change by 17.6 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Singapore

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Central Region	17.6	20.3	23.1	34.9
East Region	13.1	15.1	17.2	26.1
North-East Region	17.9	21.1	24.6	41.9
North Region	11.0	12.9	14.9	24.6
West Region	17.9	20.9	24.0	38.0
Non-Resident Population	36.3	43.7	51.9	97.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# South Africa

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	34.6	0.33%		
2019	32.4	0.32%	2018-2019	-6.4%
2020	46.5	0.31%	2019-2020	43.6%
2021	47.1	0.30%	2020-2021	1.4%
2022	53.8	0.28%	2021-2022	14.2%
2023	59.3	0.27%	2022-2023	10.1%
2024	64.3	0.26%	2023-2024	8.5%
2029	80.8	0.22%	CAGR 2024-2029	5.1%

<u>Rands</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Rands 000s)</u>	<u>Year-to-Year Change</u>	
2018	497.7		
2019	466.0	2018-2019	-6.4%
2020	669.0	2019-2020	43.6%
2021	678.6	2020-2021	1.4%
2022	775.0	2021-2022	14.2%
2023	853.6	2022-2023	10.1%
2024	925.8	2023-2024	8.5%
2029	1,164.1	CAGR 2024-2029	5.1%

In 2023, sales for this product in South Africa is forecast to be \$0.1 million dollars. Sales are forecast to change by 8.5 percent in the next year (2023 to 2024). In 2023, sales will be 0.9 million Rands and will change by 10.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in South Africa is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 5.1 percent from 2024 to 2029. In 2029, sales will be 0.9 million Rands and will change by 10.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# South Africa

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

---

	2021	2022	2023	2028
Eastern Cape	6.0	6.5	6.9	8.1
Free State (Oranje Free State)	2.6	2.9	3.1	3.6
Gauteng	14.1	15.7	17.3	22.9
KwaZulu-Natal	10.4	11.4	12.3	15.1
Limpopo (Northern Transvaal)	5.3	5.8	6.3	7.6
Mpumalanga (Eastern Transvaal)	4.2	4.6	5.0	6.3
Northern Cape	1.1	1.2	1.3	1.6
North West	3.7	4.1	4.4	5.5
Western Cape	6.3	7.0	7.7	10.0

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Spain

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	127.3	1.23%		
2019	119.2	1.18%	2018-2019	-6.3%
2020	166.6	1.12%	2019-2020	39.8%
2021	165.0	1.04%	2020-2021	-1.0%
2022	185.1	0.98%	2021-2022	12.2%
2023	200.1	0.92%	2022-2023	8.1%
2024	213.2	0.86%	2023-2024	6.6%
2029	241.7	0.65%	CAGR 2024-2029	2.7%

<u>Euros</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Euros 000s)</u>	<u>Year-to-Year Change</u>	
2018	113.3		
2019	106.1	2018-2019	-6.3%
2020	148.3	2019-2020	39.8%
2021	146.8	2020-2021	-1.0%
2022	164.8	2021-2022	12.2%
2023	178.1	2022-2023	8.1%
2024	189.8	2023-2024	6.6%
2029	215.1	CAGR 2024-2029	2.7%

In 2023, sales for this product in Spain is forecast to be \$0.2 million dollars. Sales are forecast to change by 6.6 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Euros and will change by 8.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Spain is forecast to be \$0.2 million dollars. The compound annual growth rate is projected to change by 2.7 percent from 2024 to 2029. In 2029, sales will be 0.2 million Euros and will change by 8.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Spain

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Andalucía [Andalusia]	33.2	35.8	38.2	43.2
Aragón	5.1	5.5	5.9	6.6
Asturias	4.0	4.2	4.5	4.8
Canarias [Canary Islands]	8.6	9.4	10.0	11.7
Cantabria	2.3	2.5	2.6	2.9
Castilla-La Mancha	8.2	8.8	9.4	10.7
Castilla y León	9.3	10.0	10.5	11.4
Cataluña [Catalonia]	30.1	32.6	34.7	39.6
Ceuta	0.3	0.4	0.4	0.4
Comunitat Valenciana	20.0	21.6	23.1	26.5
Extremadura	4.2	4.5	4.7	5.2
Galicia	10.4	11.2	11.8	12.9
Illes Balears [Balearic Islands]	4.7	5.1	5.5	6.5
La Rioja	1.3	1.4	1.4	1.6
Madrid	26.2	28.4	30.4	35.0
Melilla	0.3	0.4	0.4	0.5
Murcia	6.0	6.5	7.0	8.2
Navarra [Navarre]	2.6	2.8	3.0	3.4
País Vasco [Basque Country]	8.4	9.1	9.6	10.5

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Sweden

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	57.8	0.56%		
2019	53.4	0.53%	2018-2019	-7.5%
2020	77.4	0.52%	2019-2020	44.9%
2021	76.7	0.48%	2020-2021	-1.0%
2022	86.1	0.46%	2021-2022	12.3%
2023	93.2	0.43%	2022-2023	8.2%
2024	99.4	0.40%	2023-2024	6.6%
2029	114.0	0.31%	CAGR 2024-2029	2.9%

<u>Kronas</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Kronas 000s)</u>	<u>Year-to-Year Change</u>	
2018	548.4		
2019	507.1	2018-2019	-7.5%
2020	734.9	2019-2020	44.9%
2021	727.8	2020-2021	-1.0%
2022	817.2	2021-2022	12.3%
2023	884.6	2022-2023	8.2%
2024	943.4	2023-2024	6.6%
2029	1,081.5	CAGR 2024-2029	2.9%

In 2023, sales for this product in Sweden is forecast to be \$0.1 million dollars. Sales are forecast to change by 6.6 percent in the next year (2023 to 2024). In 2023, sales will be 0.9 million Kronas and will change by 8.2 percent in the next year (2023 to 2024).

In 2029, sales for this product in Sweden is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 2.9 percent from 2024 to 2029. In 2029, sales will be 0.9 million Kronas and will change by 8.2 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Sweden

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Blekinge län	1.3	1.4	1.5	1.7
Dalarnas län	2.4	2.6	2.7	3.0
Gävleborgs län	2.4	2.5	2.7	3.0
Gotlands län	0.5	0.5	0.6	0.6
Hallands län	2.8	3.0	3.3	3.8
Jämtlands län	1.1	1.2	1.2	1.3
Jönköpings län	3.1	3.3	3.5	4.0
Kalmar län	2.0	2.2	2.3	2.6
Kronobergs län	1.7	1.8	1.9	2.1
Norrbottnens län	2.1	2.2	2.4	2.6
Örebro län	2.5	2.7	2.9	3.2
Östergötlands län	3.9	4.2	4.5	5.1
Skåne län	11.6	12.5	13.4	15.5
Södermanlands län	2.4	2.6	2.8	3.2
Stockholms län	20.0	21.8	23.4	27.6
Uppsala län	3.2	3.5	3.7	4.3
Värmlands län	2.3	2.5	2.7	2.9
Västerbottens län	2.3	2.4	2.6	2.9
Västernorrlands län	2.0	2.2	2.3	2.5
Västmanlands län	2.3	2.4	2.6	2.9
Västra Götalands län	14.3	15.5	16.5	18.8

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Switzerland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	102.4	0.99%		
2019	104.2	1.03%	2018-2019	1.8%
2020	160.9	1.08%	2019-2020	54.4%
2021	167.8	1.06%	2020-2021	4.3%
2022	199.9	1.06%	2021-2022	19.1%
2023	229.3	1.06%	2022-2023	14.7%
2024	259.3	1.05%	2023-2024	13.1%
2029	391.0	1.06%	CAGR 2024-2029	10.2%

<u>Swiss Francs</u>	<u>Market Sales</u>		
<u>Year</u>	<u>Swiss Francs 000s)</u>	<u>Year-to-Year Change</u>	
2018	98.3		
2019	100.1	2018-2019	1.8%
2020	154.5	2019-2020	54.4%
2021	161.1	2020-2021	4.3%
2022	191.9	2021-2022	19.1%
2023	220.1	2022-2023	14.7%
2024	249.0	2023-2024	13.1%
2029	375.3	CAGR 2024-2029	10.2%

In 2023, sales for this product in Switzerland is forecast to be \$0.2 million dollars.

Sales are forecast to change by 13.1 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Swiss Francs and will change by 14.7 percent in the next year (2023 to 2024).

In 2029, sales for this product in Switzerland is forecast to be \$0.4 million dollars.

The compound annual growth rate is projected to change by 10.2 percent from 2024 to 2029. In 2029, sales will be 0.2 million Swiss Francs and will change by 14.7 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# Switzerland

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Aargau [Argovia]	15.9	18.3	20.7	31.6
Appenzell Outer Rhodes	1.3	1.5	1.6	2.4
Appenzell Inner Rhodes	0.4	0.4	0.5	0.7
Basel-Landschaft	6.8	7.7	8.7	13.0
Basel-Stadt [Basel-City]	4.4	5.0	5.6	8.0
Bern	23.9	27.2	30.7	45.1
Fribourg	7.6	8.7	9.9	15.5
Genève [Geneva]	11.8	13.6	15.4	23.4
Glarus	0.9	1.1	1.2	1.7
Graubünden [Grisons]	4.7	5.4	6.0	9.0
Jura	1.7	2.0	2.2	3.2
Luzern	9.6	11.0	12.5	18.8
Neuchâtel	4.2	4.7	5.3	7.8
Nidwalden [Nidwald]	1.0	1.2	1.4	2.1
Obwalden [Obwald]	0.9	1.0	1.2	1.8
Schaffhausen	1.9	2.2	2.4	3.6
Schwyz	3.8	4.4	5.0	7.8
Solothurn	6.4	7.3	8.2	12.2
St. Gallen	11.9	13.6	15.4	23.0
Thurgau [Thurgovia]	6.5	7.4	8.4	12.8
Ticino	8.4	9.7	11.0	16.6
Uri	0.8	1.0	1.1	1.6
Valais	8.2	9.4	10.7	16.4
Vaud	18.7	21.4	24.3	37.0
Zug	3.0	3.5	4.0	6.2
Zürich [Zurich]	35.4	40.6	46.0	69.7

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Thailand

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	108.1	1.04%		
2019	109.0	1.08%	2018-2019	0.9%
2020	150.2	1.01%	2019-2020	37.8%
2021	170.0	1.07%	2020-2021	13.2%
2022	207.7	1.10%	2021-2022	22.1%
2023	243.2	1.12%	2022-2023	17.1%
2024	281.9	1.14%	2023-2024	15.9%
2029	450.2	1.22%	CAGR 2024-2029	11.9%

<u>Bahts</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Bahts 000s)</u>	<u>Year-to-Year Change</u>	
2018	3,275.7		
2019	3,303.7	2018-2019	0.9%
2020	4,551.3	2019-2020	37.8%
2021	5,152.5	2020-2021	13.2%
2022	6,293.7	2021-2022	22.1%
2023	7,369.0	2022-2023	17.1%
2024	8,542.5	2023-2024	15.9%
2029	13,639.6	CAGR 2024-2029	11.9%

In 2023, sales for this product in Thailand is forecast to be \$0.2 million dollars.

Sales are forecast to change by 15.9 percent in the next year (2023 to 2024). In 2023, sales will be 7.4 million Bahts and will change by 17.1 percent in the next year (2023 to 2024).

In 2029, sales for this product in Thailand is forecast to be \$0.5 million dollars.

The compound annual growth rate is projected to change by 11.9 percent from 2024 to 2029. In 2029, sales will be 7.4 million Bahts and will change by 17.1 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Thailand

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Market Sales by Regions (USD 000s)

---

	2021	2022	2023	2028
Bangkok Metropolitan	51.4	61.1	71.9	123.3
Central	9.4	11.0	12.7	19.7
Eastern	17.9	21.2	24.8	41.6
Northeastern (Isan)	55.2	63.8	73.2	110.1
Northern	34.4	40.1	46.1	70.9
Southern	28.5	33.4	38.7	61.9
Western	10.8	12.6	14.6	22.6

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Turkey

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	117.3	1.13%		
2019	108.8	1.08%	2018-2019	-7.2%
2020	162.4	1.09%	2019-2020	49.3%
2021	165.5	1.05%	2020-2021	1.9%
2022	187.9	0.99%	2021-2022	13.5%
2023	206.5	0.95%	2022-2023	9.9%
2024	222.7	0.90%	2023-2024	7.8%
2029	292.6	0.79%	CAGR 2024-2029	6.3%

<u>Liras</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Liras 000s)</u>	<u>Year-to-Year Change</u>	
2018	680.2		
2019	631.0	2018-2019	-7.2%
2020	941.9	2019-2020	49.3%
2021	960.1	2020-2021	1.9%
2022	1,089.6	2021-2022	13.5%
2023	1,197.6	2022-2023	9.9%
2024	1,291.5	2023-2024	7.8%
2029	1,697.0	CAGR 2024-2029	6.3%

In 2023, sales for this product in Turkey is forecast to be \$0.2 million dollars.

Sales are forecast to change by 7.8 percent in the next year (2023 to 2024). In 2023, sales will be 1.2 million Liras and will change by 9.9 percent in the next year (2023 to 2024).

In 2029, sales for this product in Turkey is forecast to be \$0.3 million dollars.

The compound annual growth rate is projected to change by 6.3 percent from 2024 to 2029. In 2029, sales will be 1.2 million Liras and will change by 9.9 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Turkey

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Adana	5.2	5.7	6.1	7.9
Ankara	12.7	14.1	15.2	20.4
Antalya	5.8	6.4	7.0	9.7
Aydın	2.4	2.7	2.9	3.6
Balıkesir	2.7	3.0	3.2	4.0
Bursa	7.1	7.8	8.5	11.5
Denizli	2.3	2.5	2.7	3.5
Diyarbakır	4.0	4.4	4.7	6.2
Erzurum	1.7	1.8	1.9	2.3
Eskişehir	1.9	2.1	2.3	2.9
Gaziantep	4.8	5.3	5.8	8.0
Hatay	3.6	4.0	4.3	5.6
İstanbul	37.2	41.4	45.2	63.1
İzmir	10.1	11.1	12.0	15.9
Kahramanmaraş	2.5	2.8	3.0	3.7
Kayseri	3.1	3.4	3.7	4.8
Kocaeli	4.5	5.0	5.4	7.5
Konya	4.9	5.4	5.7	7.2
Malatya	1.8	1.9	2.0	2.5
Manisa	3.2	3.5	3.7	4.7
Mardin	1.9	2.1	2.2	2.9
Mersin (İçel)	4.2	4.5	4.9	6.3
Muğla	2.2	2.4	2.6	3.5
Sakarya	2.2	2.5	2.6	3.4
Samsun	2.9	3.2	3.4	4.2
Şanlıurfa	4.8	5.3	5.7	7.9
Tekirdağ	2.4	2.6	2.9	4.0
Trabzon	1.7	1.9	2.0	2.4
Van	2.7	3.0	3.3	4.4

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# United Arab Emirates

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	29.4	0.28%		
2019	28.7	0.28%	2018-2019	-2.5%
2020	41.0	0.28%	2019-2020	42.8%
2021	43.3	0.27%	2020-2021	5.7%
2022	50.8	0.27%	2021-2022	17.2%
2023	57.4	0.26%	2022-2023	13.0%
2024	63.9	0.26%	2023-2024	11.3%
2029	91.7	0.25%	CAGR 2024-2029	8.7%

<u>Dirhams</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dirhams 000s)</u>	<u>Year-to-Year Change</u>	
2018	108.0		
2019	105.4	2018-2019	-2.5%
2020	150.4	2019-2020	42.8%
2021	158.9	2020-2021	5.7%
2022	186.3	2021-2022	17.2%
2023	210.6	2022-2023	13.0%
2024	234.4	2023-2024	11.3%
2029	336.7	CAGR 2024-2029	8.7%

In 2023, sales for this product in United Arab Emirates is forecast to be \$0.1 million dollars. Sales are forecast to change by 11.3 percent in the next year (2023 to 2024). In 2023, sales will be 0.2 million Dirhams and will change by 13 percent in the next year (2023 to 2024).

In 2029, sales for this product in United Arab Emirates is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 8.7 percent from 2024 to 2029. In 2029, sales will be 0.2 million Dirhams and will change by 13 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# United Arab Emirates

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

## **Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
Abū Ḥaby [Abu Dhabi]	15.7	17.6	19.4	26.7
'Ajmān	2.7	3.0	3.4	5.0
Al-Fujayrah [Fujairah]	1.4	1.6	1.8	2.5
Ash-Shāriqah [Sharjah]	10.2	11.5	12.9	19.0
Dubayy [Dubai]	17.8	20.3	22.7	33.7
Rā's al-Khaymah	2.4	2.7	3.0	4.1
Umm al-Qaywayn	0.5	0.6	0.7	0.9

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# United Kingdom

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	201.9	1.95%		
2019	192.1	1.90%	2018-2019	-4.8%
2020	282.8	1.90%	2019-2020	47.2%
2021	276.1	1.74%	2020-2021	-2.4%
2022	308.1	1.63%	2021-2022	11.6%
2023	332.1	1.53%	2022-2023	7.8%
2024	352.0	1.43%	2023-2024	6.0%
2029	406.6	1.10%	CAGR 2024-2029	3.1%

<u>Pounds</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Pounds 000s)</u>	<u>Year-to-Year Change</u>	
2018	153.4		
2019	146.0	2018-2019	-4.8%
2020	214.9	2019-2020	47.2%
2021	209.9	2020-2021	-2.4%
2022	234.1	2021-2022	11.6%
2023	252.4	2022-2023	7.8%
2024	267.5	2023-2024	6.0%
2029	309.0	CAGR 2024-2029	3.1%

In 2023, sales for this product in United Kingdom is forecast to be \$0.3 million dollars. Sales are forecast to change by 6 percent in the next year (2023 to 2024). In 2023, sales will be 0.3 million Pounds and will change by 7.8 percent in the next year (2023 to 2024).

In 2029, sales for this product in United Kingdom is forecast to be \$0.4 million dollars. The compound annual growth rate is projected to change by 3.1 percent from 2024 to 2029. In 2029, sales will be 0.3 million Pounds and will change by 7.8 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections



# United Kingdom

---

**Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)**

---

**Market Sales by Regions (USD 000s)**

---

	<b>2021</b>	<b>2022</b>	<b>2023</b>	<b>2028</b>
England	259.6	279.9	296.8	343.5
Northern Ireland	8.8	9.5	10.1	11.7
Scotland	25.1	27.0	28.5	32.5
Wales (Cymru)	14.6	15.7	16.6	18.9

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# United States

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	1,827.9	17.62%		
2019	1,830.6	18.14%	2018-2019	0.1%
2020	2,756.7	18.51%	2019-2020	50.6%
2021	2,957.7	18.69%	2020-2021	7.3%
2022	3,586.4	18.98%	2021-2022	21.3%
2023	4,179.7	19.26%	2022-2023	16.5%
2024	4,811.5	19.52%	2023-2024	15.1%
2029	7,662.6	20.71%	CAGR 2024-2029	11.9%

<u>Dollars</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dollars 000s)</u>	<u>Year-to-Year Change</u>	
2018	1,827.9		
2019	1,830.6	2018-2019	0.1%
2020	2,756.7	2019-2020	50.6%
2021	2,957.7	2020-2021	7.3%
2022	3,586.4	2021-2022	21.3%
2023	4,179.7	2022-2023	16.5%
2024	4,811.5	2023-2024	15.1%
2029	7,662.6	CAGR 2024-2029	11.9%

In 2023, sales for this product in United States is forecast to be \$4.2 million dollars. Sales are forecast to change by 15.1 percent in the next year (2023 to 2024). In 2023, sales will be 4.2 million Dollars and will change by 16.5 percent in the next year (2023 to 2024).

In 2029, sales for this product in United States is forecast to be \$7.7 million dollars. The compound annual growth rate is projected to change by 11.9 percent from 2024 to 2029. In 2029, sales will be 4.2 million Dollars and will change by 16.5 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# United States

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Alabama	53.3	61.9	71.0	110.9
Arizona	83.0	98.1	114.4	194.7
Arkansas	33.2	38.6	44.4	70.0
California	433.9	505.6	581.8	924.6
Colorado	64.0	75.2	87.3	145.1
Connecticut	38.5	44.6	51.0	78.2
Florida	235.8	276.7	320.8	528.9
Georgia	119.2	139.9	162.2	267.3
Illinois	139.2	161.2	184.3	283.9
Indiana	72.6	84.2	96.6	150.8
Iowa	33.6	39.0	44.6	68.8
Kentucky	48.6	56.4	64.7	101.1
Louisiana	49.9	57.7	66.0	101.3
Maryland	66.0	76.8	88.2	139.0
Massachusetts	73.0	84.5	96.7	149.3
Michigan	106.7	123.3	140.8	214.7
Minnesota	60.9	70.8	81.4	128.3
Mississippi	32.6	37.8	43.3	67.1
Missouri	66.7	77.4	88.7	138.3
Nevada	37.8	45.1	53.1	94.9
New Jersey	97.5	113.0	129.5	200.8
New York	212.0	245.3	280.3	430.2
North Carolina	116.1	136.1	157.6	258.0
Ohio	124.6	144.0	164.4	251.2
Oklahoma	42.7	49.7	57.0	89.7
Oregon	46.1	53.9	62.3	100.6
Pennsylvania	136.9	158.3	180.8	276.6
South Carolina	55.5	64.9	74.9	120.9
Tennessee	74.5	86.9	100.2	160.3
Texas	318.3	374.0	434.1	719.7
Utah	35.6	42.0	48.9	82.3
Virginia	93.7	109.3	125.9	201.4
Washington	82.5	96.6	111.7	182.0
Wisconsin	63.1	73.3	84.0	130.7

Note: Sales for 2022-2023 are forecasts and sales †

# Venezuela

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	31.3	0.30%		
2019	29.2	0.29%	2018-2019	-7.0%
2020	41.8	0.28%	2019-2020	43.3%
2021	42.9	0.27%	2020-2021	2.7%
2022	48.3	0.26%	2021-2022	12.5%
2023	52.6	0.24%	2022-2023	9.0%
2024	56.3	0.23%	2023-2024	6.9%
2029	70.9	0.19%	CAGR 2024-2029	5.2%

<u>Bolivars</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Bolivars 000s)</u>	<u>Year-to-Year Change</u>	
2018	312.8		
2019	291.0	2018-2019	-7.0%
2020	417.0	2019-2020	43.3%
2021	428.2	2020-2021	2.7%
2022	481.8	2021-2022	12.5%
2023	525.2	2022-2023	9.0%
2024	561.6	2023-2024	6.9%
2029	707.5	CAGR 2024-2029	5.2%

In 2023, sales for this product in Venezuela is forecast to be \$0.1 million dollars. Sales are forecast to change by 6.9 percent in the next year (2023 to 2024). In 2023, sales will be 0.5 million Bolivars and will change by 9 percent in the next year (2023 to 2024).

In 2029, sales for this product in Venezuela is forecast to be \$0.1 million dollars. The compound annual growth rate is projected to change by 5.2 percent from 2024 to 2029. In 2029, sales will be 0.5 million Bolivars and will change by 9 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Venezuela

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
Amazonas	0.3	0.3	0.4	0.5
Anzoátegui	2.7	3.0	3.2	4.1
Apure	0.9	1.0	1.1	1.4
Aragua	2.8	3.1	3.3	4.1
Barinas	1.5	1.6	1.8	2.3
Bolívar	2.7	3.0	3.2	4.1
Carabobo	3.9	4.2	4.5	5.7
Cojedes	0.6	0.6	0.7	0.9
Delta Amacuro	0.3	0.3	0.4	0.5
Dependencias Federales	0.0	0.0	0.0	0.0
Distrito Capital	3.0	3.2	3.4	3.9
Falcón	1.6	1.7	1.9	2.3
Guárico	1.4	1.5	1.6	2.0
Lara	3.1	3.4	3.6	4.5
Mérida	1.5	1.6	1.8	2.2
Miranda	4.8	5.2	5.6	7.0
Monagas	1.6	1.8	1.9	2.5
Nueva Esparta	0.9	1.0	1.1	1.5
Portuguesa	1.6	1.7	1.8	2.3
Sucre	1.6	1.7	1.8	2.2
Táchira	1.9	2.1	2.2	2.8
Trujillo	1.2	1.4	1.4	1.8
Vargas	0.6	0.6	0.6	0.8
Yaracuy	1.1	1.2	1.3	1.6
Zulia	6.6	7.2	7.7	9.9

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Vietnam

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Country

<u>US Dollars</u>	<u>Market Sales</u>	<u>Pct. of Global</u>		
<u>Year</u>	<u>(USD 000s)</u>	<u>Market</u>	<u>Year-to-Year Change</u>	
2018	31.3	0.30%		
2019	33.7	0.33%	2018-2019	7.8%
2020	66.7	0.45%	2019-2020	97.7%
2021	73.2	0.46%	2020-2021	9.7%
2022	95.2	0.50%	2021-2022	30.1%
2023	118.4	0.55%	2022-2023	24.4%
2024	146.1	0.59%	2023-2024	23.4%
2029	306.7	0.83%	CAGR 2024-2029	22.0%

<u>Dongs</u>	<u>Market Sales</u>		
<u>Year</u>	<u>(Dongs Mill.)</u>	<u>Year-to-Year Change</u>	
2018	727.2		
2019	783.7	2018-2019	7.8%
2020	1,549.4	2019-2020	97.7%
2021	1,699.4	2020-2021	9.7%
2022	2,210.3	2021-2022	30.1%
2023	2,748.5	2022-2023	24.4%
2024	3,391.6	2023-2024	23.4%
2029	7,122.4	CAGR 2024-2029	22.0%

In 2023, sales for this product in Vietnam is forecast to be \$0.1 million dollars.

Sales are forecast to change by 23.4 percent in the next year (2023 to 2024). In 2023, sales will be 2.7 million Dongs and will change by 24.4 percent in the next year (2023 to 2024).

In 2029, sales for this product in Vietnam is forecast to be \$0.3 million dollars.

The compound annual growth rate is projected to change by 22 percent from 2024 to 2029. In 2029, sales will be 2.7 million Dongs and will change by 24.4 percent from 2024 to 2029.

Source: Perry/Hope Partners

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Vietnam

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

### Market Sales by Regions (USD 000s)

	2021	2022	2023	2028
An Giang	2.2	2.7	3.3	6.8
Bắc Giang	1.7	2.1	2.5	5.2
Bến Tre	1.3	1.6	1.9	3.8
Bình Định	1.5	1.9	2.3	4.7
Bình Dương	2.2	2.9	3.7	9.1
Cần Thơ	1.3	1.6	2.0	4.0
Đắk Lắk	2.0	2.4	3.0	6.5
Đồng Nai	3.0	3.8	4.7	10.3
Đồng Tháp	1.7	2.1	2.6	5.3
Gia Lai	1.5	1.9	2.3	5.0
Hải Dương	1.8	2.2	2.7	5.6
Hải Phòng	2.0	2.5	3.1	6.4
Hà Nội (incl. Hà Tây) [Hanoi]	7.6	9.5	11.8	25.6
Hà Tĩnh	1.3	1.6	1.9	3.8
Kiên Giang	1.8	2.3	2.8	5.8
Lâm Đồng	1.3	1.7	2.0	4.3
Long An	1.5	1.9	2.3	4.8
Nam Định	1.9	2.3	2.8	5.6
Nghệ An	3.1	3.9	4.7	9.6
Phú Thọ	1.4	1.7	2.1	4.3
Quảng Nam	1.5	1.9	2.3	4.6
Quảng Ngãi	1.3	1.6	1.9	3.9
Sóc Trăng	1.3	1.7	2.1	4.2
Thái Bình	1.8	2.2	2.7	5.5
Thái Nguyên	1.3	1.6	1.9	4.0
Thanh Hóa	3.5	4.4	5.3	10.7
Ho Chi Minh City	8.8	11.1	13.8	30.7
Tiền Giang	1.8	2.2	2.7	5.5

Note: Sales for 2022-2023 are forecasts and sales for 2024-2029 projections

# Appendix

---

## Product - Iron ores and concentrates. Agglomerated (excluding roasted iron pyrites)

---

### Overview

PRODCOM statistics aim at providing a full picture at EU level of developments in industrial production for a given product or for an industry in a comparable manner across countries. This aim became more important together with the establishment of the single market in 1992, and with rapid changes occurring in Europe the statistical system had to adapt to these changes.

The acronym PRODCOM comes from the French “PRODUCTION COMMUNAUTAIRE” (Community Production). The PRODCOM list is updated each year by the PRODCOM Expert Group. The headings of the PRODCOM list are linked to those from the Combined Nomenclature (CN) used to compile International Trade in Goods statistics, which thus enables direct comparisons between industrial production statistics and trade statistics (see below). PRODCOM headings are coded using an eight-digit numerical code, the first six digits of which are identical to those of the Statistical Classification of Products by Activity (CPA) code. The PRODCOM list is therefore also fully consistent with the CPA, while further detailing the CPA product categories.

PRODCOM statistics are broken down to a detail level of almost 3900 products available in the PRODCOM list. The main indicators of the production sold during the calendar year are collected and published both in monetary (EUR) and physical (kg, m<sup>2</sup>, number of items, etc.) terms.

Eurostat releases in its database PRODCOM statistics for the EU as a whole as well as by Member State. The EU total excludes currently three EU Member States which are exempt from transmitting industrial production data given their small share in the EU total; these are Cyprus, Malta and Luxembourg.

### How are PRODCOM statistics measured?

As mentioned above, PRODCOM statistics are based upon data on manufacturing of goods produced by the enterprises on the national territory. These enterprises carry out one or more activities at one or more locations and may comprise one or more legal units. When an enterprise is active in more than one economic activity, then the value added and turnover that it generates, the persons it employs, and the values of all other statistical variables will be classified under the enterprise’s principal activity. The principal activity is normally the one that generates the largest amount of value added. For PRODCOM statistics, the survey population consists of enterprises whose principal activity or one of its secondary activities was manufacturing of goods during the reference period.

PRODCOM statistics are compiled from the enterprises that cover at least 90 % of the national production per NACE class and employ at least 20 people (different thresholds may nonetheless be adopted by countries in exceptional cases). The territory covered in each country refers to the specifications of the Nomenclature of Countries and Territories for the External Trade Statistics of the Community and Statistics of Trade between Member States.

### Indicator definitions for key PRODCOM statistics

PRODCOM statistics consist of the following set of indicators:

the physical volume of production sold during the survey period,  
the value of production sold during the survey period,

the physical volume of actual production during the survey period, including any production which is incorporated into the manufacture of other products from the same undertaking.

The national statistical institutes transmit this set of indicators to Eurostat on an annual basis, six months after the end of the reference year. Data are available in both NACE Rev. 1.1 and NACE Rev. 2 classifications until 2008 reference year and from reference year 2009 onwards only in NACE Rev.2.



# Appendix

---

## Which parts of the economy does PRODCOM cover?

The PRODCOM statistics cover the industrial production (with the exception of military products and some energy products) carried out by enterprises classified within the Sections B to C of NACE Rev. 2, which include:

- Section B - Mining and quarrying
  - Division 07 - Mining of metal ores
  - Division 08 - Other mining and quarrying
  - Division 09 - Mining support service activities
- Section C - Manufacture
  - Division 10 - Manufacture of food products
  - Division 11 - Manufacture of beverages
  - Division 12 - Manufacture of tobacco products
  - Division 13 - Manufacture of textiles
  - Division 14 - Manufacture of wearing apparel
  - Division 15 - Manufacture of leather and related products
  - Division 16 - Manufacture of wood and of products of wood and cork, except furniture
  - Division 17 - Manufacture of paper and paper products
  - Division 18 - Printing and reproduction of recorded media
  - Division 19 - Manufacture of coke and refined petroleum products
  - Division 20 - Manufacture of chemicals and chemical products
  - Division 21 - Manufacture of basic pharmaceutical products and pharmaceutical preparations
  - Division 22 - Manufacture of rubber and plastic products
  - Division 23 - Manufacture of other non-metallic mineral products
  - Division 24 - Manufacture of basic metals
  - Division 25 - Manufacture of fabricated metal products, except machinery and equipment
  - Division 26 - Manufacture of computer, electronic and optical products
  - Division 27 - Manufacture of electrical equipment
  - Division 28 - Manufacture of machinery and equipment n.e.c.
  - Division 29 - Manufacture of motor vehicles, trailers and semi-trailers
  - Division 30 - Manufacture of other transport equipment
  - Division 31 - Manufacture of furniture
  - Division 32 - Other manufacturing
  - Division 33 - Repair and installation of machinery and equipment

## Legislation

PRODCOM statistics are compiled under the legal basis provided by Council Regulation (EEC) NO 3924/1991 of 19 December 1991 and by Commission Regulation (EC) No 0912/2004 of 29 April 2004 implementing the Council Regulation (EEC) No 3924/91 on the establishment of a Community survey of industrial production. Additionally, a Commission Regulation updating the PRODCOM classification is available annually since 2003.

## Methodology

A summary of the methodology applied for PRODCOM statistics accompanies the data on Eurostat's website as a European Statistics Metadata System (ESMS) metadata file (prodcom\_esms). The national European Statistics Metadata System (ESMS) metadata files, employed by countries for PRODCOM statistics are available under the ESMS metadata file (prodcom\_esms).

Classifications

# Appendix

---

As mentioned above, the enterprises which are surveyed for PRODCOM statistics are classified according to their activity and assigned to a particular NACE code. The revised NACE Rev. 2 classification was adopted at the end of 2006, and is applicable to the PRODCOM Statistics since 2008 reference year. These changes in the classifications allowed a broader and more detailed collection of information to be compiled on industry, and provided the possibility to better identify new products from new areas of economic activity (such as technology-producing sectors).

Existing PRODCOM statistics presented in terms of NACE Rev. 1.1 will be maintained in the database for those users wishing to analyse historical series.

Before industrial production data collection could start, it was necessary to draw up a common list of products to be covered. Drawing up the PRODCOM list was a unique opportunity for Eurostat, the National Statistical Institutes and the European Trade Associations to work together to produce a classification that would work on the micro, national and European levels. The two main objectives of this work were to enable measuring the industrial production and to allow linking production statistics to trade statistics. As PRODCOM statistics have to be comparable with trade statistics, which are based on the CN, there had to be a close relationship between the two nomenclatures. Furthermore, the basic building blocks for PRODCOM are NACE (Rev. 2, as from 2008) and the CPA. Therefore, the PRODCOM list had to be developed in close association with these nomenclatures.

To understand how the different nomenclatures fit together, and their links to world-wide nomenclatures, it is useful to consider the diagram below which gives an overview of the revised system of integrated statistical classifications. This diagram shows the clear links between the PRODCOM list and the CN, which then links up to the HS at a world-wide level.

Diagram links: PRODCOM list, CN and HS

## Policy context

Industrial production statistics collected within PRODCOM are used as one of the data sources in a number of policy areas covered mainly by the work of the Directorate-General for Internal Market, Industry, Entrepreneurship and SMEs (GROW). The European Commission's enterprise policies aim to create a favourable environment for business to thrive within the EU, creating higher productivity, economic growth, jobs and wealth. Many of the policies that have been introduced in recent years have been aimed at reducing administrative burdens, stimulating innovation, encouraging sustainable production, and ensuring the smooth functioning of the EU's internal market.

At the European Council meeting of 26 March 2010, EU leaders set out their plan for Europe 2020, a strategy to enhance the competitiveness of the EU and to create more growth and jobs. The latest revision of the integrated economic and employment guidelines (revised as part of the Europe 2020 strategy for smart, sustainable and inclusive growth) includes a guideline to improve the business and consumer environment and modernise Europe's industrial base. Additional information about the Europe 2020 strategy can be found on the Europe 2020 website.

In October 2010, the European Commission presented a Communication on "An industrial policy for the globalisation era", establishing a strategic agenda and proposing broad cross-sectoral measures, as well as tailor-made actions for specific industries, mainly targeting so-called "green innovation" performance of various sectors. Prodcum statistics represent an important data input in order to take informed political decisions in these areas.

The central principles governing the internal market for services guarantee EU enterprises the freedom to establish themselves in other Member States, and the freedom to provide services on the territory of another EU Member State other than the one in which they are established. These central principles governing the internal market were set out in the EC Treaty. The objective of the Directive 0123/2006 of 12 December 2006 is to eliminate obstacles to trade in services, thus allowing the development of cross-border operations. It is intended to improve competitiveness, not just of service enterprises but also of European industry as a whole. In December 2006, the Directive was adopted by the European Parliament and the Council with transposition by the Member States required by the end of 2009. A comprehensive and structured listing of the legislative acts in force relating to industrial policy is available on Eurlex's website.