



World Mining Data 2024

Iron and Ferro-Alloy Metals

Non-Ferrous Metals

Precious Metals

Industrial Minerals

Mineral Fuels



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This publication is a statistical work. Due to the nature of this publication, only chapters 1-5 are accessible at this time. We are currently striving to expand the usability and accessibility of our publications. The graphic double page summarizes the major developments in global mining production based on data from this publication. The statistical data and underlying figures are available in Excel format and can be accessed on our homepage. If you are interested or if you would like to share any feedback on this brochure, please contact us at: wmd@bmf.gv.at.

Preface



Dr. Magnus Brunner, LL.M.
Federal Minister

Raw materials are the backbone of the economy. The sufficient supply of mineral raw materials under fair market conditions is essential for a sustainable and well-functioning economy. Although the geological availability of minerals is relatively high, occurring disruptions can lead to a shortfall of mineral resources. Smouldering geopolitical crises and wars in Ukraine and Gaza relentlessly demonstrate our vulnerability in a globalized world with its complex dependencies and widely ramified value chains.

Raw materials are necessary to secure our future viability and to solve the grand challenges in the fields of climate and energy, health, nutrition, mobility, digitalisation and security and defence. To foster the security of supply of commodities especially critical raw materials, fair trade, innovations along the entire value chain and the expansion of the circular economy are part of the solutions. Additionally, domestic production contributes to independence and strategic autonomy. A holistic and cross-policy approach is needed to meet these major challenges.

Fact-based knowledge of mineral production, market concentrations and production trends are the basis of foresighted policy and decision-making. This can help to identify potential short or medium-term supply risks. I am delighted that the annual publication "World Mining Data" has served as a valuable basis for commodity forecasts of renowned national and international institutions for 39 years. In this way, the Austrian Federal Ministry of Finance provides an important contribution to international resource policy.

I would like to express my sincere gratitude to Austrian representations abroad as well as to international institutions for their support and active participation regarding this publication.

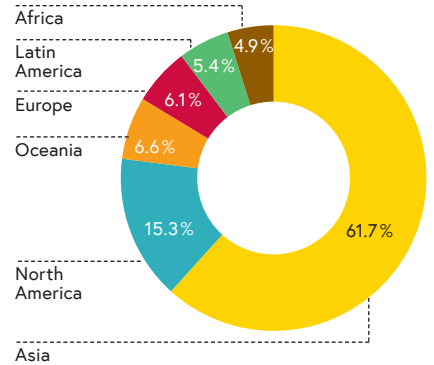
Dr. Magnus Brunner

Federal Minister of Finance

Minerals – Backbone of the economy

Major developments in global mining production based on World Mining Data 2024

Total mining production 2022 by continents



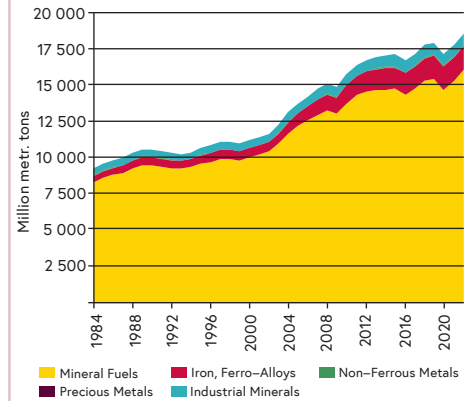
World mining production

2022
18.7 Billion metric tons

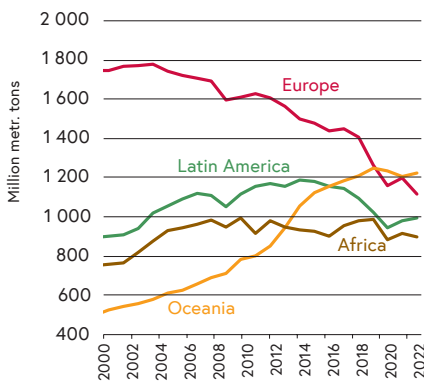
2000
11.3 Billion metric tons

1985
9.6 Billion metric tons

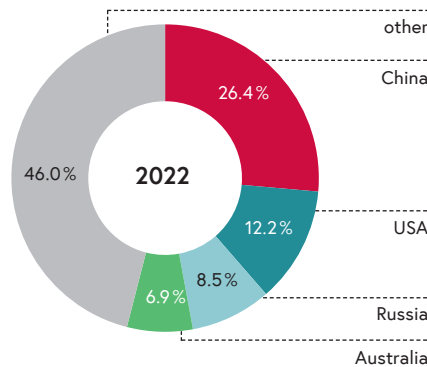
Total mining production 1984–2022



Minerals production: Oceania surpassed Latin America in 2016 and Europe in 2020



China, USA, Russia and Australia are the 4 biggest mining nations



Iron and Ferro-Alloy Metals

Ratio of Iron Ore to all other Ferro-Alloy Metals

97.0% to 3.0%

Growth rate of Cobalt production 2000/2022 (2018/2022)

287.4% (4.9%)

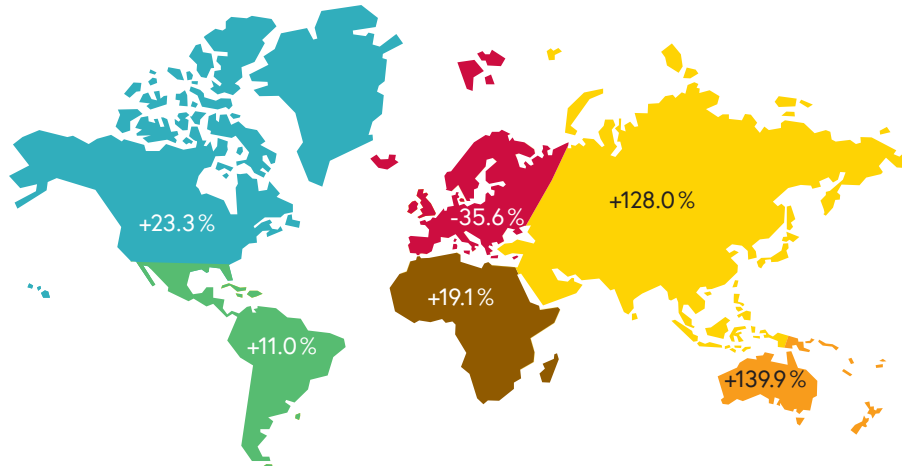
Growth rate of Nickel production 2000/2022 (2018/2022)

188.0% (36.6%)

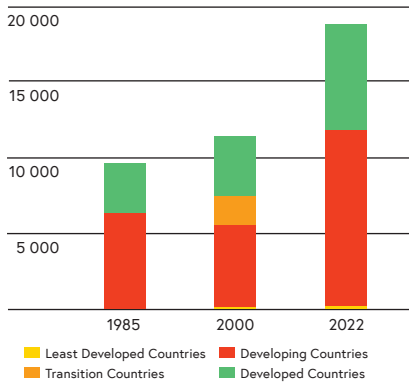
China is world's largest producer of 28 different commodities:

- 4 Iron and Ferro-Alloy Metals: Mo, Ti, W, V
- 14 Non-Ferrous Metals: Al, Sb, Bi, Cd, Ga, Ge, In, Pb, Hg, REE, Se, Te, Sn, Zn
- 1 Precious Metal: Au
- 7 Industrial Minerals: Fluorspar, Graphite, Gypsum, Magnesite, Phosphate Rock, Salt, Sulfur
- 2 Mineral Fuels: Steam Coal, Coking Coal

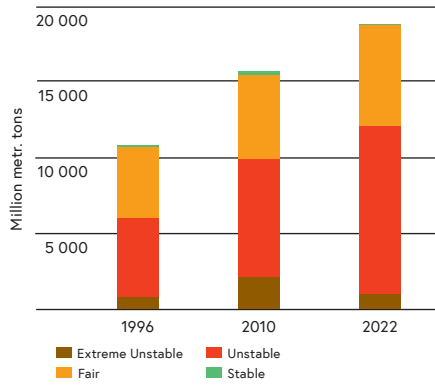
Δ 2000/2022 – declining production rates only in Europe since 2000



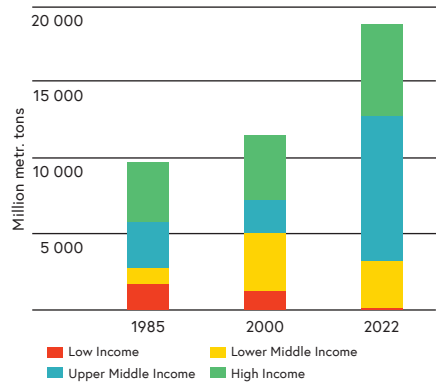
Development status of producer countries



Political stability of producer countries



Per capita income in USD – Mineral production contributes to wealth



Non-Ferrous Metals

Ratio of 4 base metals Al, Cu, Zn, Pb to all other Non-Ferrous Metals

99.0 % to 1.0 %

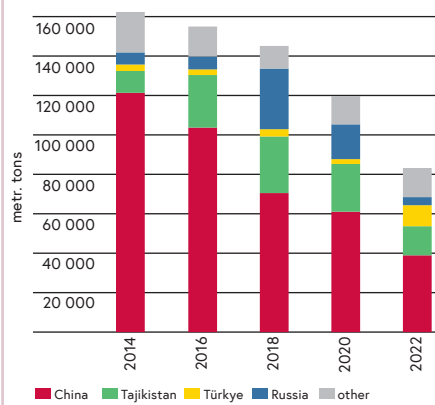
Growth rate of Non-Ferrous Metals production 2000/2022 (2018/2022)

119.3 % (6.5 %)

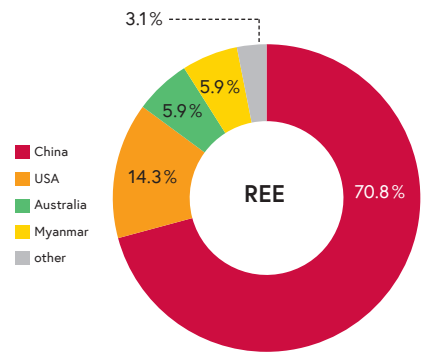
Growth rate of Aluminium production 2000/2022 (2018/2022)

179.8 % (6.8 %)

Heavy decline in Antimony production



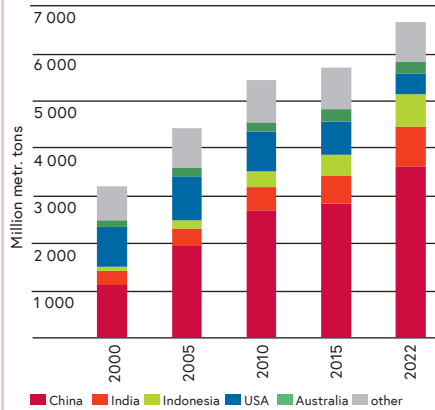
Largest 4 producer countries share 96.9% of Rare Earth Minerals production



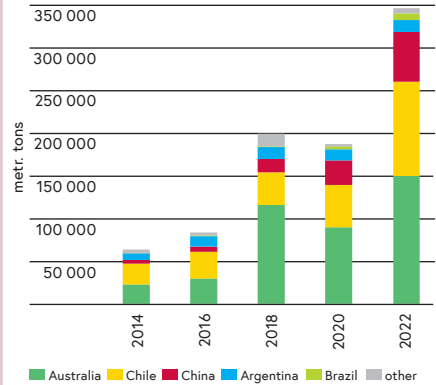
Big changes in production

	Δ 2000/2022	Δ 2018/2022
Lithium	1 169.4%	73.8%
Gallium	1 084.6%	90.7%
Cobalt	287.4%	4.9%
Antimony	-28.2%	-42.7%
Mercury	-29.1%	-64.6%
Asbestos	-38.8%	1.7%

Steady increase in Steam Coal production



Strong increase in Lithium production (Li₂O-Content)



Battery Materials: Mine production 2022 by major producer countries

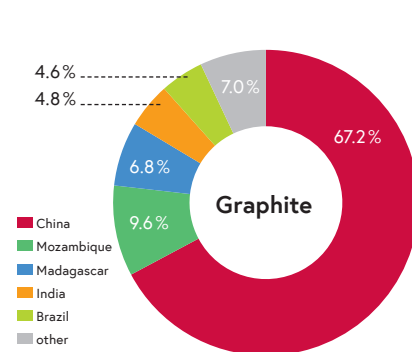
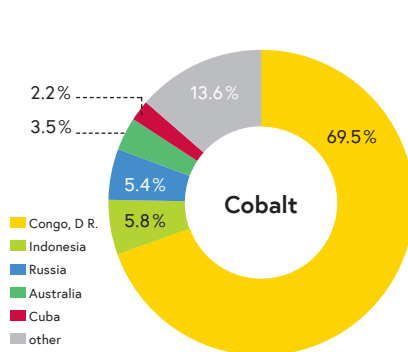
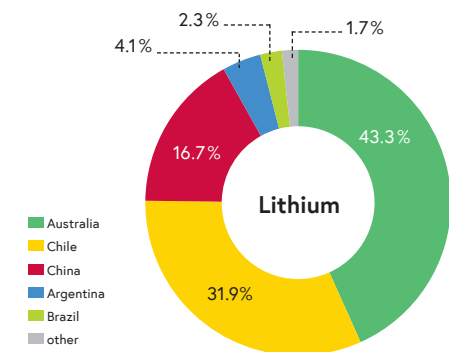


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1 Mineral Raw Materials

The mineral materials included in this report are arranged in five groups:

Iron and Ferro-Alloy Metals

Non-Ferrous Metals

Precious Metals

Industrial Minerals

Mineral Fuels

Iron and Ferro-Alloy Metals:

Iron, Chromium, Cobalt, Manganese, Molybdenum, Nickel, Niobium, Tantalum, Titanium, Tungsten, Vanadium

Non-Ferrous Metals:

Aluminium, Antimony, Arsenic, Bauxite, Beryllium, Bismuth, Cadmium, Copper, Gallium, Germanium, Indium, Lead, Lithium, Mercury, Rare Earth Minerals, Rhenium, Selenium, Tellurium, Tin, Zinc

Precious Metals:

Gold, Platinum-Group Metals (Palladium, Platinum, Rhodium), Silver

Industrial Minerals:

Asbestos, Baryte, Bentonite, Boron Minerals, Diamond (Gem/Industrial), Diatomite, Feldspar, Fluorspar, Graphite, Gypsum and Anhydrite, Kaolin (China-Clay), Magnesite, Perlite, Phosphate Rock (incl. Guano), Potash, Salt, Sulfur, Talc (incl. Steatite and Pyrophyllite), Vermiculite, Zircon

Mineral Fuels:

Steam Coal (incl. Anthracite and Sub-Bituminous Coal), Coking Coal, Lignite, Natural Gas, Petroleum (incl. Natural Gas Liquids), Oil Sands, Oil Shales, Uranium

2 Definitions

Mineral raw materials are mineral constituents of the earth's crust which are of economic value. In the most comprehensive sense this includes the so-called "mine output" as well as the output from processing at or near the mines (for instance, the up-grading of ores to concentrates).

Primary materials are marketable products obtained by processing crude minerals (usually up to the first processing stage only).

Contents of output are mostly calculated empirically (see Chapter 3).

Weights and Measures:

1 metric ton (metr. T)	=	1 000 kg
1 short ton (short t)	=	907.2 kg
1 long ton (long t)	=	1 016.047 kg
1 pound (lb)	=	0.4536 kg
1 troy ounce (oz)	=	31.1035 g
1 carat (ct)	=	200 mg

Conversion table:

Volume units:

1 cubic foot (ft ³)	=	cubic meter (m ³) x 0.028317
1 cubic meter (m ³)	=	cubic foot (ft ³) x 35.31467
1 US (=petroleum) barrel (bbl)	=	42 liquid US gallons = 158.98 l
1 flask mercury	=	76 lb = 34.5 kg

Conversion for salt brine:

$$1 \text{ m}^3 \times 0.3 = 1 \text{ metr. t}$$

Conversion factor for natural gas (approximate method):

$$1 \text{ m}^3 \approx 0.8 \text{ kg} = 0.0008 \text{ metr. t}$$

Conversion for crude petroleum (approximate method):

7.33 bbl (barrel)	=	1 metr. t
1 bbl	=	0.1364 metr. t
1 bbl/d	≈	49.8 metr. t/a

Conversion factor for lignite (metr. t to TCE = tons of coal equivalent):

Greece, North Macedonia	0.19
Afghanistan, Algeria, Argentina, Bangladesh, Belgium, Belarus, Bhutan, Botswana, Brazil, Burundi, Central African Republic, Chile, Colombia, Costa Rica, Cuba, Czechia, Dominican Republic, Ecuador, Egypt, Eswatini, Ethiopia, Falkland/Malvinas Islands, Finland, Georgia, Germany, Haiti, Honduras, Indonesia, Iran, Ireland, Israel, Jamaica, Kazakhstan, Korea North, Korea South, Kyrgyzstan, Malawi, Malaysia, Mali, Mexico, Mongolia, Morocco, Mozambique, Nepal, Netherlands, New Caledonia, Niger, Norway, Oman, Poland, Rwanda, Sierra Leone, Slovakia, South Africa, Spain, Sri Lanka, St. Vincent/Grenadine, Sweden, Taiwan, Tajikistan, Tanzania, Turkmenistan, Remaining Eastern Asia (SWL), Remaining Eastern Europe, former USSR/CIS, Ukraine, United Kingdom, Uruguay, Uzbekistan, Venezuela, Zaire, Zambia, Zimbabwe	0.30
Bosnia-Herzegovina, Croatia, Kosovo, Serbia and Montenegro, Slovenia, former Yugoslavia	0.32
Australia, Cambodia, Denmark, India, Japan, Laos, Madagascar, Myanmar, Nigeria, Pakistan, Peru, Philippines, Romania, Thailand, Türkiye, Vietnam	0.33
Italy	0.36
China, France, Hungary	0.40
Russia	0.45
Albania, Austria, Bulgaria, Canada, New Zealand, United States of America	0.50
Portugal	0.58

Conversion factor for steam coal, coking coal (metr. t to TCE = tons of coal equivalent):

Czechia, Albania	0.60
Indonesia	0.65
Armenia, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Ukraine, Uzbekistan	0.66
Cameroon, Chile, Ecuador, Pakistan, St. Vincent/Grenadines, Sweden	0.70
India	0.71
China, Remaining Eastern Asia	0.72
Croatia, Serbia and Montenegro, former Yugoslavia	0.76
Spain	0.77
Japan, Nigeria	0.78

Afghanistan, Algeria, Argentina, Bangladesh, Bhutan, Bolivia, Bosnia-Herzegovina, Botswana, Brazil, Bulgaria, Burundi, Cambodia, Central African Republic, Costa Rica, Cuba, Denmark, Dominican Republic, Egypt, Eswatini, Ethiopia, Falkland/Malvinas Islands, Finland, Greece, Haiti, Honduras, Hungary, Iran, Ireland, Israel, Italy, Jamaica, Korea North, Korea South, Laos, Madagascar, Malawi, Malaysia, Mali, Mexico, Moldova, Mongolia, Morocco, Mozambique, Myanmar, Nepal, New Caledonia, New Zealand, Niger, Norway, Oman, Peru, Philippines, Portugal, Remaining Asia, Romania, Russia, Rwanda, Sierra Leone, Sri Lanka, Taiwan, Tanzania, Thailand, Tunisia, Uruguay, Venezuela, Vietnam, Zaire, Zambia, Zimbabwe	0.80
United Kingdom	0.82
France, Poland, Remaining Africa, South Africa	0.85
Belgium, United States of America	0.86
Australia	0.90
Türkiye	0.91
Germany, Colombia	0.94
Canada	0.95

Sources and accuracy of data (see chapter 6.4):

- 1 reported figure
- 2 estimated figure
- 3 provisional figure

- a Questionnaire
- b US Geological Survey (USGS)
- c Kimberley Process Certification Scheme (KPCS)
- d World Nuclear Association (WNA)
- e National statistics
- f Metallgesellschaft (until 1998)
- m OECD and ECE
- n Others (Company reports etc.)
- o Oil & Gas Journal
- p International Energy Agency (IEA)
- q International Consultative Group (ICG)
- r BP plc
- s British Geological Survey (BGS)

3 Details on Contents, Weights, Measures and Values

Mineral raw materials and ore bodies with significant variations in valuable mineral content have been calculated to obtain the actually useable mineral content, e.g. highly variable Fe-contents of iron carbonates and iron oxides. Production figures throughout this report do not (unless otherwise specified) refer to crude ore (ROM/run of mine) or concentrate produced from it, but indicate the content of recoverable valuable elements and compounds.

Total world production figures (chapter 6.1) do not include Bauxite production as Bauxite is the base raw material in Aluminium production. Production figures for Bauxite can be found in commodity and country statistics (chapter 6.2 ff.).

Iron and Ferro-Alloy Metals:

Iron	Fe	metr. t
Chromium	Cr ₂ O ₃	metr. t
Cobalt	Co	metr. t
Manganese	Mn	metr. t
Molybdenum	Mo	metr. t
Nickel	Ni	metr. t
Niobium	Nb ₂ O ₅	metr. t
Tantalum	Ta ₂ O ₅	metr. t
Titanium	TiO ₂	metr. t
Tungsten	W	metr. t
Vanadium	V	metr. t

Non-Ferrous Metals

Aluminium	Al, primary	metr. t
Antimony	Sb	metr. t
Arsenic	As ₂ O ₃	metr. t
Bauxite	crude ore	metr. t
Beryllium	concentrate	metr. t
Bismuth	Bi	metr. t
Cadmium	Cd	metr. t
Copper	Cu	metr. t
Gallium	Ga	metr. t
Germanium	Ge	metr. t
Indium	In	metr. t
Lead	Pb	metr. t
Lithium	Li ₂ O	metr. t
Mercury	Hg	metr. t
Rare Earth Minerals	REO	metr. t
Rhenium	Re	kg
Selenium	Se	metr. t
Tellurium	Te	metr. t
Tin	Sn	metr. t
Zinc	Zn	metr. t

Precious Metals:

Gold	Au	kg
Palladium	Pd	kg
Platinum	Pt	kg
Rhodium	Rh	kg
Silver	Ag	kg

Industrial Minerals:

Asbestos		metr. t
Baryte		metr. t
Bentonite		metr. t
Boron Minerals		metr. t
Diamonds (Gem)		ct
Diamonds (Industrial)		ct
Diatomite		metr. t
Feldspar		metr. t
Fluorspar		metr. t
Graphite		metr. t
Gypsum and Anhydrite		metr. t
Kaolin (China-Clay)		metr. t
Magnesite		metr. t
Perlite		metr. t
Phosphate Rock	P ₂ O ₅	metr. t
Potash	K ₂ O	metr. t
Salt (Rock Salt, Brines, Marine Salt)		metr. t
Sulfur (elementar and industrial Sulfur)		metr. t
Talc, Steatite and Pyrophyllite		metr. t
Vermiculite		metr. t
Zircon	concentrate	metr. t

Mineral Fuels:

Steam coal (incl. Anthracite, bituminous and sub-bituminous Coal)		metr. t
Coking Coal		metr. t
Lignite		metr. t
Natural Gas	marketed prod.	Mio m ³
Petroleum (incl. Nat. Gas Liquids)	gross prod.	metr. t
Oil Sands	gross prod.	metr. t
Oil Shales		metr. t
Uranium	U ₃ O ₈	metr. t

Commodity Prices:

Sources of annual averages:

- Fastmarkets Metal Bulletin
- Fastmarkets Industrial Minerals
- BGR-Rohstoffdatenbank, 2023; Bundesanstalt für Geowissenschaften und Rohstoffe, Deutschland
- U.S. Geological Survey
- Kitco Metals Inc.
- Metal-Prices
- Cameco Corporation
- IEA: Coal Information
- U.S. Energy Information Administration / Monthly Energy

4 Regional and Sectoral Groups

4.1 Development Status of Producer Countries

An attempt was made to identify the development status of all countries that produce mineral raw materials. The different producer countries were classified according to international standards considering in particular UNCTAD and IIASA classifications. The classification has been adopted for statistical convenience only (see fig. 5).

Important note: The designations "developing" and "developed" are intended for statistical convenience and do not necessarily express a judgement about the stage reached by a particular country or area in the development process. Where the designations "economy" or "country" appear in tables, they cover countries, territories, cities and areas.

Developed, developing countries:

According to OECD GLOSSARY OF STATISTICAL TERMS

There is no established convention for the designation of "developed" and "developing" countries or areas in the United Nations system. In common practice, Japan and Korea South in Asia, Canada and the United States in northern America, Australia and New Zealand in Oceania and Europe are considered "developed" regions or areas. In international trade statistics, the Southern African Customs Union is also treated as developed region and Israel as a developed country; countries emerging from the former Yugoslavia are treated as developed countries; countries of Eastern Europe and former USSR countries in Europe are treated as developed countries; and former USSR countries in Asia are treated as developing countries.

For detailed list of developed and developing countries see

<https://unstats.un.org/unsd/methodology/m49/>

Source: United Nations. Standard country or Area Codes for Statistical Use. Series M, No. 49, Rev. 4 (United Nations publication, Sales No. M.98.XVII.9).

Least Developed Countries:

According to OECD GLOSSARY OF STATISTICAL TERMS

According to the General Assembly, on the recommendation of the Committee for Development Policy, countries listed below are included in the list of the least developed countries (year in brackets indicates the inclusion in the group):

Africa: Angola (1994), Benin (1971), Burkina Faso (1971), Burundi (1971), Central African Republic (1975), Chad (1971), Comoros (1977), Congo, D.R. (1991), Djibouti (1982), Eritrea (1994), Ethiopia (1971), Gambia (1975), Guinea (1971), Guinea-Bissau (1981), Lesotho (1971), Liberia (1990), Madagascar (1991), Malawi (1971), Mali (1971), Mauritania (1986), Mozambique (1988), Niger (1971), Rwanda (1971), Sao Tome and Principe (1982), Senegal (2000), Sierra Leone (1982), Somalia (1971), South Sudan (2012), Sudan (1971), Tanzania (1971), Togo (1982), Uganda (1971), Zambia (1991)

Asia and the Pacific: Afghanistan (1971), Bangladesh (1975), Bhutan (1971), Cambodia (1991), Kiribati (1986), Laos P.D.R. (1971), Myanmar (1987), Nepal (1971), Solomon Islands (1991), East Timor (2003), Tuvalu (1986), Yemen (1971)

Latin America and the Caribbean: Haiti (1971)

Source: United Nations. Office of the High Representative for the Least Developed Countries, Landlocked Developing Countries and Small Island Developing States (OHRLLS).

United Nations webpage <https://www.un.org/ohrlls>

Economies in Transition:

According to UNCTAD HANDBOOK OF STATISTICS (2021) the category "Economies in Transition" is no longer used. As of 2022 Asean countries of this former category are treated as developing countries and European countries are treated as developed countries.

Asia: Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

Europe: Albania, Belarus, Bosnia-Herzegovina, Kosovo, North Macedonia, Moldova, Montenegro, Russia, Serbia, Ukraine

4.2 Regional Groups of Producer Countries

CPE: (Centrally Planned Economies)

China, Cuba, Korea North, Mongolia, Vietnam

World Regions: (according to IIASA/UN)

CAS - Central Asia: Kazakhstan, Kyrgyzstan, Tajikistan, Turkmenistan, Uzbekistan

CPA - Centrally Planned Asia & China: Cambodia, China, Korea North, Laos, Mongolia, Vietnam

EEU - Eastern Europe: Albania, Bosnia-Herzegovina, Bulgaria, Croatia, Czechia, Hungary, Kosovo, North Macedonia, Montenegro, Poland, Romania, Slovakia, Slovenia, former Yugoslavia

FSU - Former Soviet Union: Armenia, Azerbaijan, Belarus, Estonia, Georgia, Latvia, Lithuania, Moldova, Russian Federation, Ukraine

LAM - Latin America: Antigua & Barbuda, Argentina, Bahamas, Barbados, Belize, Bolivia, Brazil, Chile, Colombia, Costa Rica, Cuba, Dominica, Dominican Republic, Ecuador, El Salvador, French Guiana, Grenada, Guadeloupe, Guatemala, Guyana, Haiti, Honduras, Jamaica, Martinique, Mexico, Netherlands Antilles, Nicaragua, Panama, Paraguay, Peru, St. Kitts & Nevis, St. Lucia, St. Vincent, Suriname, Trinidad & Tobago, Uruguay, Venezuela

MEA - Middle East: Bahrain, Iran, Iraq, Israel, Jordan, Kuwait, Lebanon, Oman, Qatar, Saudi Arabia, Syria, United Arab Emirates, Yemen

NAF - North Africa: Algeria, Egypt, Libya, Morocco, Sudan, Tunisia

NAM - North America: Bermuda, Canada, Puerto Rico, Virgin Islands, United States of America

PAO - Pacific OECD: Australia, Japan, New Zealand

PAS - Pacific Asia: American Samoa, Brunei, East Timor, Fiji, French Polynesia, Indonesia, Kiribati, Korea South, Malaysia, Myanmar, New Caledonia, Papua New Guinea, Phillippines, Singapore, Solomon Islands, Taiwan, Thailand, Tonga, Vanuatu, Western Samoa

SAS - South Asia: Afghanistan, Bangladesh, Bhutan, India, Maldives, Nepal, Pakistan, Sri Lanka

SSA - Sub-Saharan Africa: Angola, Benin, Botswana, British Indian Ocean Territory, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo D.R., Congo Rep., Cote d'Ivoire, Djibouti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauritania, Mauritius, Mayotte, Mozambique, Namibia, Niger, Nigeria, Réunion, Rwanda, St. Helena, Sao Tomé and Príncipe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, South Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe

WEU - Western Europe: Andorra, Austria, Azores, Belgium, Canary Islands, Cyprus, Denmark, Faroe Islands, Finland, France, Germany, Gibraltar, Greece, Greenland, Iceland, Ireland, Isle of Man, Italy, Liechtenstein, Luxembourg, Madeira, Malta, Monaco, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, Türkiye, United Kingdom

Apart from these, the memberships of various countries in different economic blocks or other cartel-like associations were taken into consideration.

4.3 Economic Blocks or Cartel-like Associations

Economic blocks or cartel-like associations were included as follows (in alphabetical order, year of entry in brackets):

ACP Countries: African, Caribbean and Pacific group of states linked to the European Communities as signatory to the Georgetown Agreement and the Lomé Conventions

Africa: Angola, Benin, Botswana, Burkina Faso, Burundi, Cameroon, Cape Verde, Central African Republic, Chad, Comoros, Congo D.R., Congo Rep., Côte d'Ivoire, Djibuti, Equatorial Guinea, Eritrea, Eswatini, Ethiopia, Gabon, Gambia, Ghana, Guinea, Guinea-Bissau, Kenya, Lesotho, Liberia, Madagascar, Malawi, Mali, Mauretania, Mauritius, Mozambique,

Namibia, Niger, Nigeria, Rwanda, Sao Tome and Principe, Senegal, Seychelles, Sierra Leone, Somalia, South Africa, Sudan, Tanzania, Togo, Uganda, Zambia, Zimbabwe

Caribbean: Antigua-Barbuda, Bahamas, Barbados, Belize, Cuba, Dominica, Dominican Republic, Grenada, Guyana, Haiti, Jamaica, St. Kitts-Nevis, St. Lucia, St. Vincent-Grenadines, Suriname, Trinidad and Tobago

Pacific: Cook Islands, Fiji, Kiribati, Marshall Islands, Micronesia, Nauru, Niue, East Timor, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu, Vanuatu

ASEAN Countries: Association of South East Asian Nations

Brunei (1984), Cambodia (1999), Indonesia, Laos (1997), Malaysia, Myanmar (1997), Philippines, Singapore, Thailand, Vietnam (1995)

BRICS Countries:

A 2001 report by Goldman Sachs chief economist Jim O'Neill created the modern term for the four major emerging economies with annual growth rates in economic performance of 5 to 10%. BRICS stands for the initials of the countries of Brazil, Russia, India and China. South Africa joined in 2011. Egypt, Ethiopia, Iran and United Arab Emirates joined in 2024.

EC (EU): European Community

Austria (1995), Belgium (1952/58), Bulgaria (2007), Croatia (2013), Cyprus (2004), Czechia (2004), Denmark (1973), Estonia (2004), Finland (1995), France (1952/58), Germany (1952/58), Greece (1981), Hungary (2004), Ireland (1973), Italy (1952/58), Latvia (2004), Lithuania (2004), Luxemburg (1952/58), Malta (2004), Netherlands (1952/58), Poland (2004), Portugal (1986), Romania (2007), Slovakia (2004), Slovenia (2004), Spain (1986), Sweden (1995), United Kingdom (1973-2020)

EFTA: European Free Trade Association

Austria (until 1994), Denmark (until 1973), Finland (until 1994), Iceland, Liechtenstein, Norway, Portugal (until 1986), Sweden (until 1994), Switzerland, United Kingdom (until 1973)

G7: Group of the Most Important Industrialized Countries

G7 (1976): Canada, Germany, France, Italy, Japan, United Kingdom, United States of America, Russia (1998-2013)

MERCOSUR (Mercado Comun del Sur): Common Market of the South

Treaty since January 1, 1995 between Argentina, Brazil, Paraguay and Uruguay establishing a common market; Venezuela 2006-2017; associated members: Bolivia, Chile, Colombia, Ecuador, Guyana, Peru, Suriname

OECD: Organization for Economic Cooperation and Development

Australia (1971), Austria (1961), Belgium (1961), Canada (1961), Chile (2010), Colombia (2020), Costa Rica (2021), Czechia (1995), Denmark (1961), Estonia (2010), Finland (1969), France (1961), Germany (1961), Greece (1961), Hungary (1996), Iceland (1961), Ireland (1961), Israel (2010), Italy (1961), Japan (1964), Korea South (1996), Latvia (2016), Lithuania (2018), Luxemburg (1961), Mexico (1994), Netherlands (1961), New Zealand (1973), Norway (1961), Poland (1996), Portugal (1961), Slovakia (2000), Slovenia (2010), Spain (1961), Sweden (1961), Switzerland (1961), Türkiye (1961), United Kingdom (1961), United States of America (1961)

SADC: Southern African Development Community

Angola, Botswana, Comoros (2017), Congo D.R. (1997), Eswatini, Lesotho, Madagascar (2005-2009, 2014), Malawi, Mauritius (1995), Mozambique, Namibia (1990), Seychelles (1997-2004, 2008) South Africa (1994), Tanzania, Zambia, Zimbabwe

USMCA: United States-Mexico-Canada Agreement (former NAFTA)

Canada, Mexico, United States of America

USMCA was established on July 1, 2020 (NAFTA: January 1, 1994 - June 30, 2020).

4.4 Political Stability of Producer Countries

The worldwide Governance Indicators rely on 31 data sources, including surveys of enterprises and citizens and expert polls, gathered from 25 different organizations around the world (D. KAUFMANN, A. KRAAY & M. MASTRUZZI 2010). These provide data derived from hundreds of questions about governance. Before aggregation is carried out each question is mapped to one of six dimensions of governance: (1) Voice and Accountability; (2) Political Stability and Absence of Violence; (3) Government Effectiveness; (4) Regulatory Quality; (5) Rule of Law; (6) Control of Corruption.

Definition of political stability and absence of violence: A measure of the perception of the likelihood that the government will be destabilized or overthrown by unconstitutional or violent means, including political violence and terrorism.

The values of measurement are indexed with a mean of zero and a standard deviation of one in each period. Virtually all scores lie between -2.5 and +2.5, with higher scores corresponding to better outcomes. The aggregate estimates convey no information about trends in global averages of governance but they are, of course, informative about changes in individual countries over time.

Classes of political stability used in WMD: Estimates ≤ -1.25 : extremely unstable; ≤ 0 to -1.25 : unstable; > 0 to $+1.25$: fair; $\geq +1.25$: stable; (see fig. 6).

More information:

Kaufmann, Daniel, Kraay, Aart and Mastruzzi, Massimo, The Worldwide Governance Indicators: Methodology and Analytical Issues (September 2010). World Bank Policy Research Working Paper No. 5430. Available at SSRN: <https://ssrn.com/abstract=1682130>

4.5 Minerals Production by GNI (Gross National Income) of Producer Countries in USD

For analytical purposes, World Bank member economies and all other economies with populations of more than 30 000 inhabitants have been grouped annually according to GNI. Economies are classified annually among income groups to gross national income (GNI) per capita, using the World Bank Atlas method of calculation. The groups are: L low income, LM lower middle income, UM upper middle income, H high income.

Year	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993
	see 1987									
L	-	-	-	≤ 480	≤ 545	≤ 580	≤ 610	≤ 635	≤ 675	≤ 695
LM	-	-	-	≤ 1 940	≤ 2 200	≤ 2 335	≤ 2 465	≤ 2 555	≤ 2 695	≤ 2 785
UM	-	-	-	≤ 6 000	≤ 6 000	≤ 6 000	≤ 7 620	≤ 7 910	≤ 8 355	≤ 8 625
H	-	-	-	> 6 000	> 6 000	> 6 000	>7 620	> 7 910	> 8 355	> 8 625
Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
L	≤ 725	≤ 765	≤ 785	≤ 785	≤ 760	≤ 755	≤ 755	≤ 745	≤ 735	≤ 765
LM	≤ 2 895	≤ 3 035	≤ 3 115	≤ 3 125	≤ 3 030	≤ 2 995	≤ 2 995	≤ 2 975	≤ 2 935	≤ 3 035
UM	≤ 8 955	≤ 9 385	≤ 9 645	≤ 9 655	≤ 9 360	≤ 9 265	≤ 9 265	≤ 9 205	≤ 9 075	≤ 9 385
H	> 8 955	> 9 385	> 9 645	> 9 655	> 9 360	> 9 265	> 9 265	>9 205	> 9 075	> 9 385
Year	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
L	≤ 825	≤ 875	≤ 905	≤ 935	≤ 975	≤ 995	≤ 1 005	≤ 1 025	≤ 1 035	≤ 1 045
LM	≤ 3 255	≤ 3 465	≤ 3 595	≤ 3 705	≤ 3 855	≤ 3 945	≤ 3 975	≤ 4 035	≤ 4 085	≤ 4 125
UM	≤ 10 065	≤ 10 725	≤ 11 115	≤ 11 455	≤ 11 905	≤ 12 195	≤ 12 275	≤ 12 475	≤ 12 615	≤ 12 745
H	> 10 065	> 10 725	> 11 115	> 11 455	> 11 905	> 12 195	> 12 275	> 12 475	> 12 615	> 12 745
Year	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
L	≤ 1 045	≤ 1 025	≤ 1 005	≤ 995	≤ 1 025	≤ 1 035	≤ 1 045	≤ 1 085	≤ 1 135	
LM	≤ 4 125	≤ 4 035	≤ 3 955	≤ 3 895	≤ 3 995	≤ 4 045	≤ 4 095	≤ 4 255	≤ 4 465	
UM	≤ 12 735	≤ 12 475	≤ 12 235	≤ 12 055	≤ 12 375	≤ 12 535	≤ 12 695	≤ 13 205	≤ 13 845	
H	> 12 735	> 12 475	> 12 235	> 12 055	> 12 375	> 12 535	> 12 695	> 13 205	> 13 845	

From: World Bank Analytical Classification World Development Indicators GNI per capita in USD: <https://blogs.worldbank.org/team/world-bank-data-team>

4.6 Concentration of Producer Countries

The Herfindahl-Hirschman Index (HHI) is a commonly accepted and used measure of market concentration. It is calculated by squaring the market share of each firm competing in the market and then summing the resulting numbers. Only one firm means 100% market share. In this case the HHI would equal 10 000 (100^2), indicating a monopoly. A market consisting of 4 companies with shares of 50%, 30%, 15% and 5%, results in a HHI of $50^2+30^2+15^2+5^2=3\ 650$. The HHI takes into account the relative size and distribution of the firms in a market and approaches zero when a market consists of a large number of firms of relatively equal size. The HHI increases both as the number of firms in the market decreases and as the disparity in size between those firms increases.

In the United States markets, in which the HHI varies between 1 000 and 1 800 points, are considered to be moderately concentrated, and those in which the HHI is in excess of 1 800 points are considered to be concentrated. In the EU the threshold for concentrated markets is 2 000.

In chapter 6.5 the concentration of producer countries is calculated by the HHI similarly to the firms index (see fig. 3). To avoid misunderstandings with the “classical” HHI, the countries concentration index is named as ${}_{(mod)}HHI_{(ct)}$.

5 Data Capture

Data collection relating to mineral raw materials has been carried out through evaluation of questionnaires sent to the National Committees of member countries of the World Mining Congress as well as to other bodies such as Embassies, Foreign Trade Representatives etc. Other official mining statistics, where publically available, have also been used; for example, data gathered by the BGS (World Mineral Production) and the USGS have proven very useful for cross-checks.

For the present publication the complete data set has been reviewed carefully. Despite a diligent search of all sources, there are some producing areas where data is unavailable. In such instances, careful estimates of production figures have been made.

Although data processing has been done automatically, the possibility of human error at the data entry stage exists. Since the database is being continuously updated the compilers would be grateful to learn of any corrections and additions that can be made.

Deadline for this report: February 28, 2024

Data received later than February 28, 2024 will be implemented in the next edition of this report.

Please send any remarks to:

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christian.reichl@bmf.gv.at

World Mining Data is also available on:

<https://www.bmf.gv.at/en/topics/mining/mineral-resources-policy/wmd.html>

<https://www.world-mining-data.info/>

Disclaimer:

World Mining Data is provided as a public service by the Federal Ministry of Finance (BMF). The information presented does not necessarily reflect the views of the BMF and as such is not an official record.

The BMF makes no guarantee, either express or implied, concerning the accuracy, completeness, or reliability of the information.

Charts

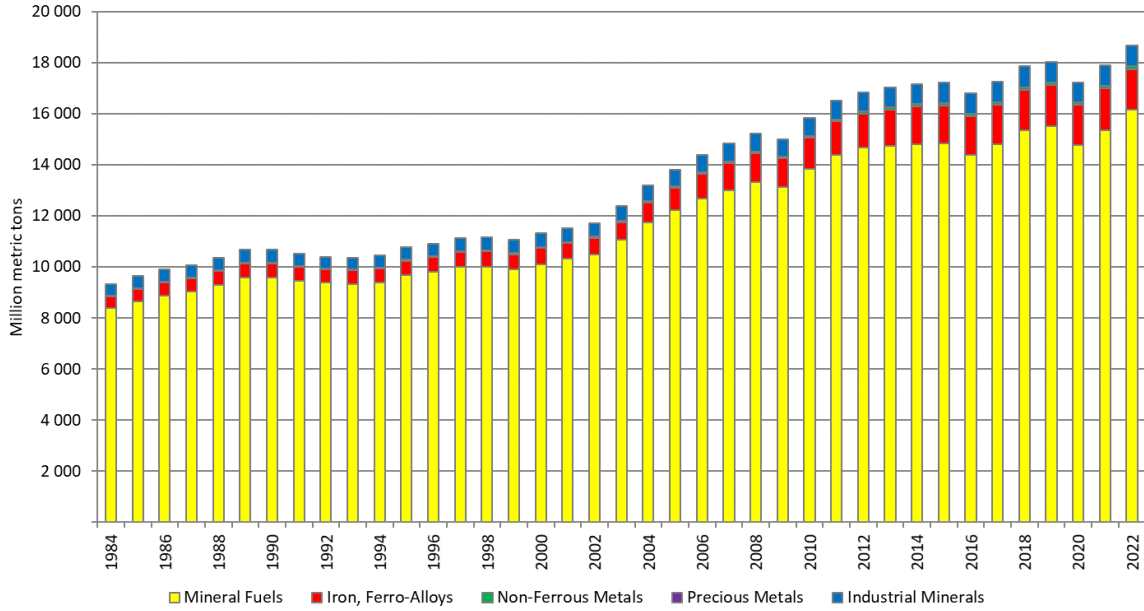


Fig. 1: World mining production 1984 - 2022 by groups of minerals (without construction minerals, in Million metr. t)

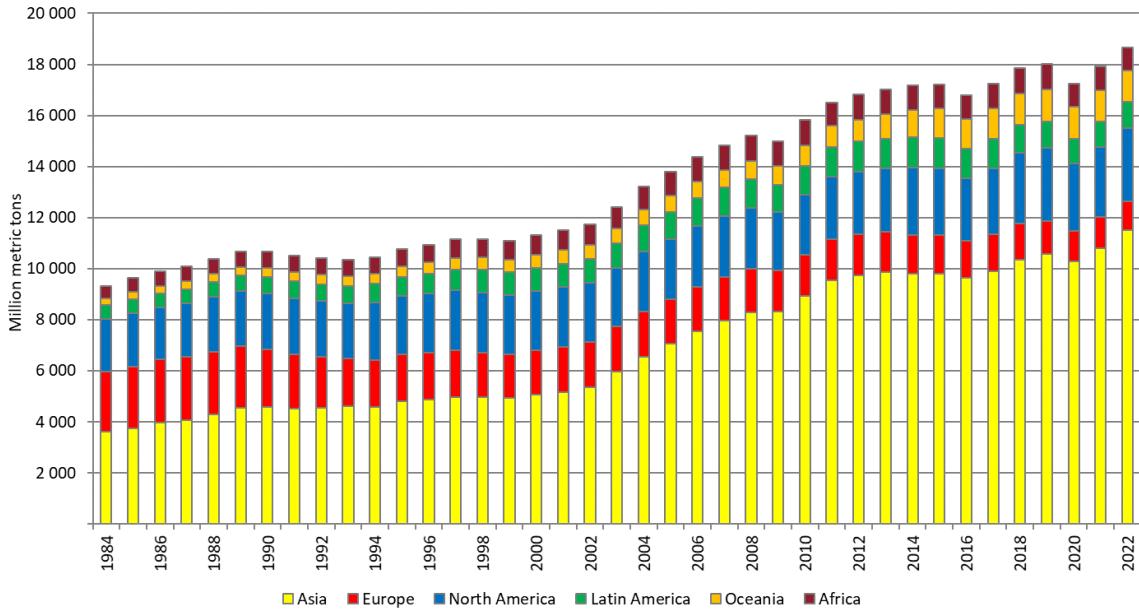


Fig. 2: World mining production 1984 - 2022 by continents (without construction minerals, in Million metr. t)

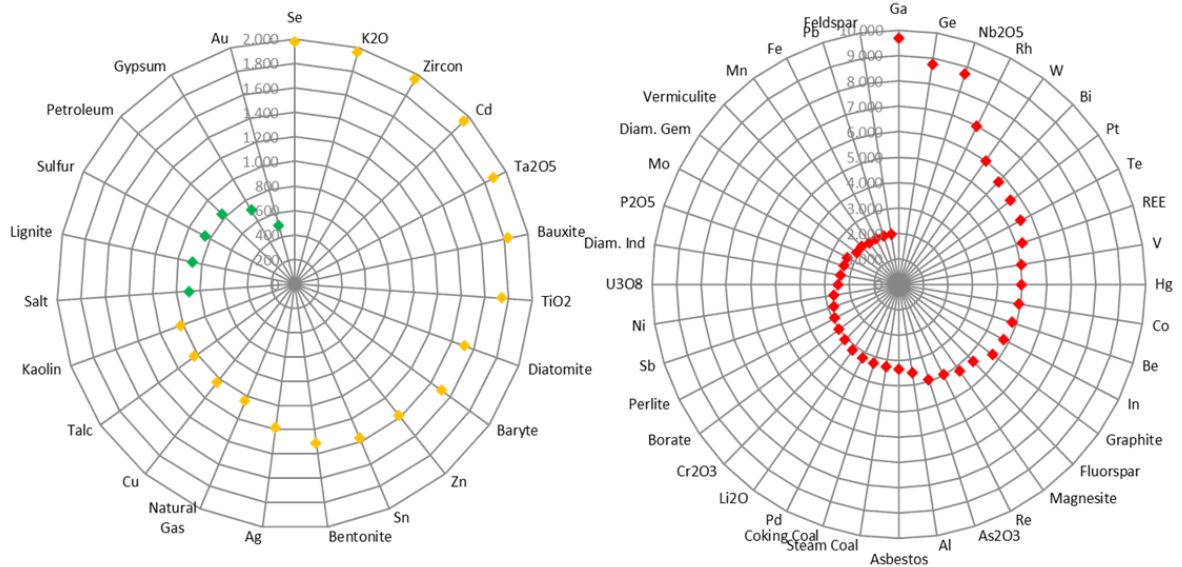


Fig. 3: Concentration of Producer Countries, Herfindahl-Hirschman Indices in 2022
 left figure: HHI < 2 000 (Country Concentration \diamond low, \diamond moderate)
 right figure: HHI > 2 000 (Country Concentration \diamond high)

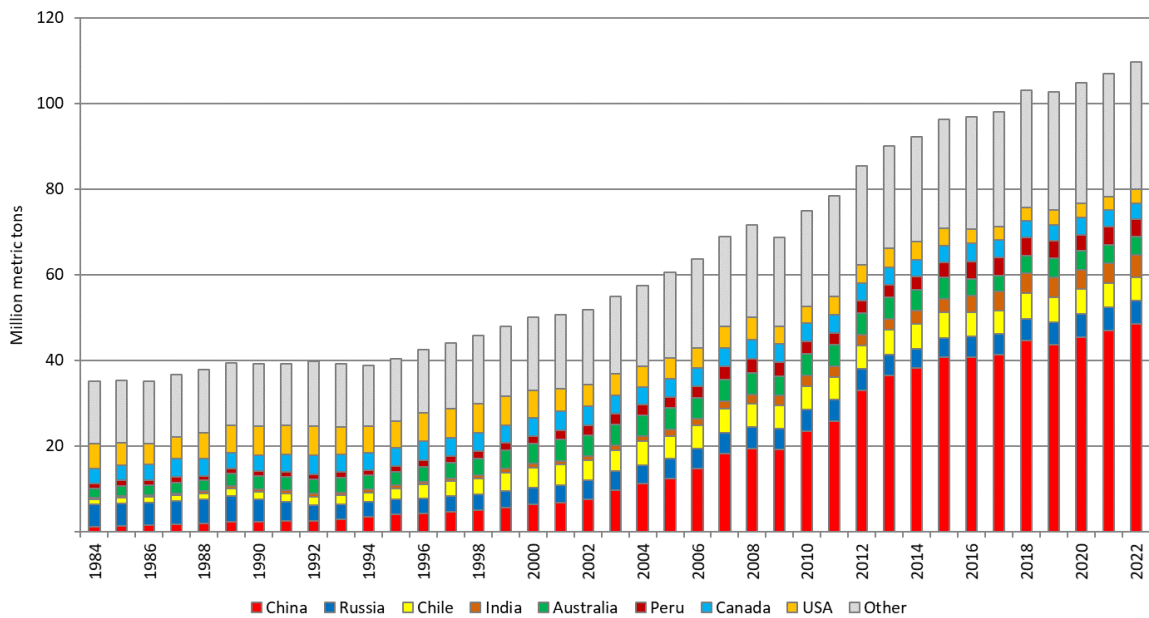


Fig. 4: World mining production 1984 - 2022 by groups of minerals: Non-Ferrous Metals by largest producer countries (in Million metr. t)

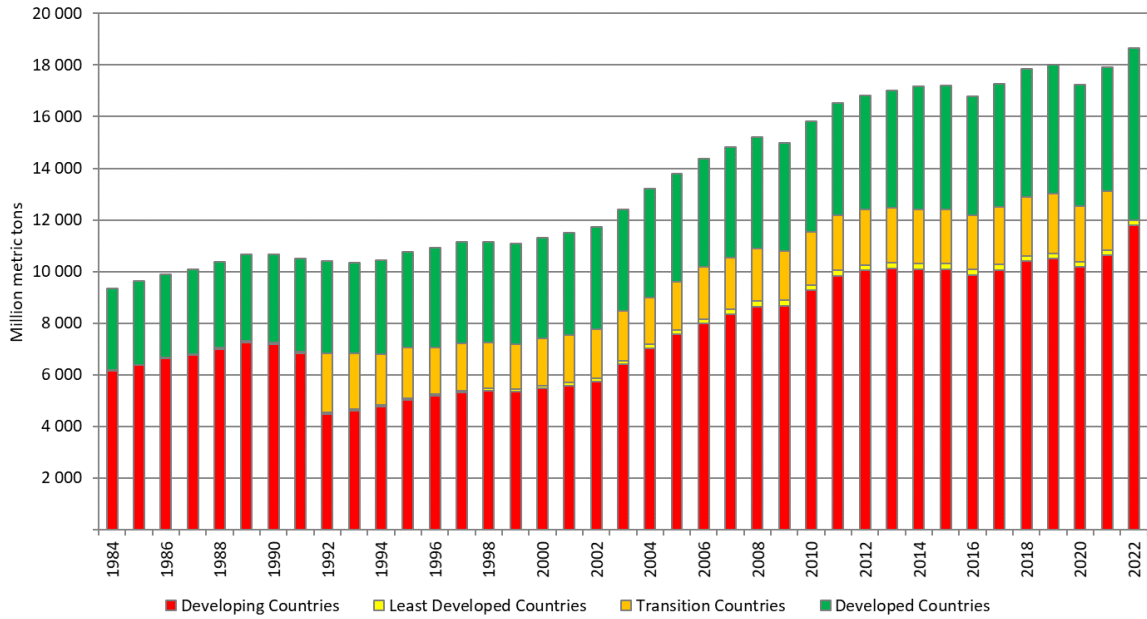


Fig. 5: World mining production 1984 - 2022 by development status of the producer countries (the category "Economies in Transition" is no longer used, without construction minerals, in Million metr. t)

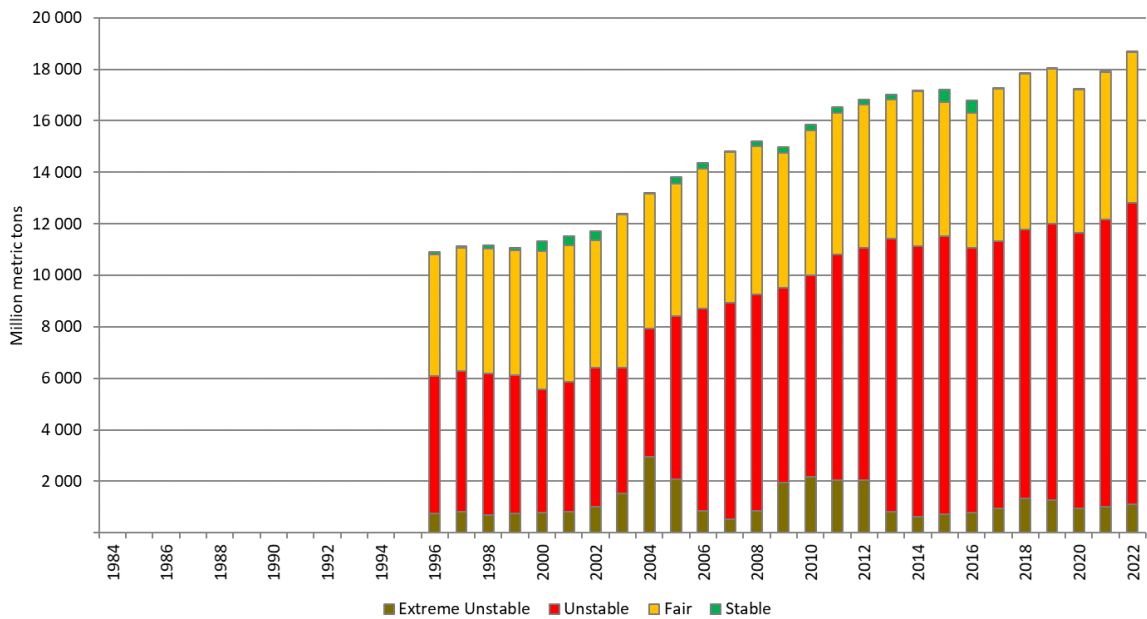


Fig. 6: World mining production 1984 - 2022 by political stability of the producer countries (without construction minerals, in Million metr. t)
 Estimates of political stability of producer countries: WORLD BANK, Governance matters IX

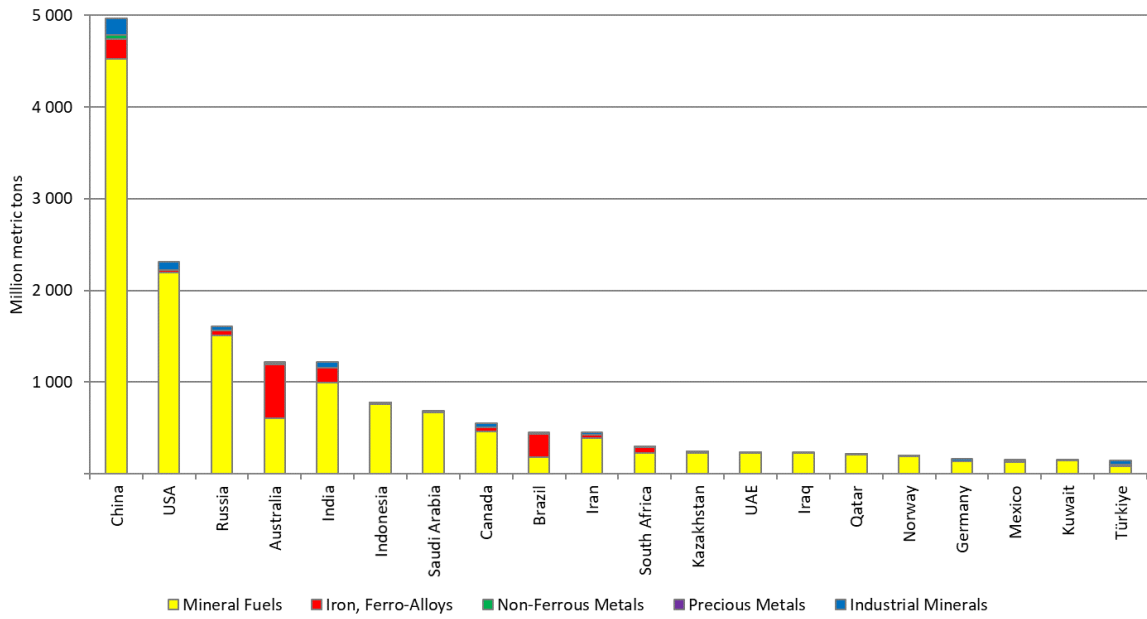


Fig. 7: 20 largest producer countries 2022 (without construction minerals, in Million metr. t)

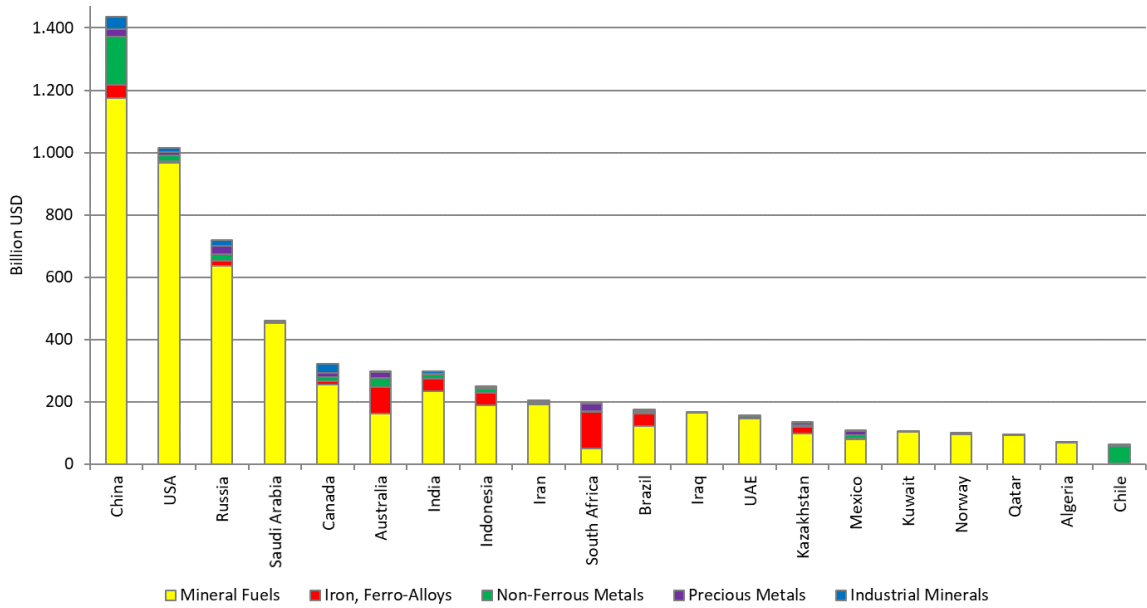


Fig. 8: 20 largest producer countries 2022 (without construction minerals, in Billion USD)

6 World Production of Mineral Raw Materials

6.1 Total World Production

6.1.1 Total Minerals Production, by Continents

	(not including bauxite) in metr. t				
	1984	1985	1986	1987	1988
Africa	491 277 838	553 611 145	560 389 452	558 162 223	578 429 601
Asia	3 621 311 795	3 739 473 268	3 967 356 364	4 077 926 753	4 279 286 059
Europe	2 343 687 167	2 434 569 522	2 471 557 140	2 485 274 829	2 472 914 295
Latin America	562 918 109	566 395 211	573 958 486	563 610 024	591 044 007
North America	2 059 724 620	2 071 063 053	2 027 980 977	2 072 705 805	2 141 270 229
Oceania	254 010 287	280 261 932	292 796 449	322 233 565	304 067 006
Total	9 332 929 816	9 645 374 131	9 894 038 868	10 079 913 199	10 367 011 197
	1989	1990	1991	1992	1993
Africa	611 700 950	629 191 234	645 653 677	631 548 263	641 442 391
Asia	4 535 660 970	4 575 870 072	4 532 820 491	4 552 094 570	4 617 161 822
Europe	2 424 486 765	2 260 313 985	2 123 060 349	1 988 491 302	1 874 985 573
Latin America	613 513 369	646 514 806	663 144 692	670 905 309	686 940 025
North America	2 164 117 026	2 203 364 391	2 184 274 275	2 181 844 083	2 143 538 949
Oceania	332 116 920	347 898 842	362 385 522	374 707 983	386 115 067
Total	10 681 596 000	10 663 153 330	10 511 339 006	10 399 591 510	10 350 183 827
	1994	1995	1996	1997	1998
Africa	652 593 419	686 972 850	680 883 877	713 277 901	720 075 978
Asia	4 593 040 086	4 820 268 566	4 880 406 639	4 969 566 025	4 967 282 473
Europe	1 826 668 411	1 833 548 690	1 832 372 740	1 827 942 589	1 747 147 595
Latin America	720 466 025	746 479 446	777 575 760	814 134 583	887 199 743
North America	2 262 153 843	2 273 227 243	2 316 670 697	2 351 638 894	2 356 329 541
Oceania	392 630 850	415 408 333	429 772 081	462 884 590	477 138 947
Total	10 447 552 634	10 775 905 128	10 917 681 794	11 139 444 582	11 155 174 277

	1999	2000	2001	2002	2003
Africa	732 165 377	765 733 161	773 456 477	781 715 961	833 951 331
Asia	4 929 839 618	5 051 164 647	5 170 060 483	5 355 827 787	5 970 984 174
Europe	1 721 201 321	1 755 973 081	1 753 407 523	1 777 355 518	1 778 623 013
Latin America	879 241 004	908 631 865	916 258 957	922 162 854	955 349 598
North America	2 327 927 155	2 324 941 284	2 357 596 851	2 322 570 961	2 283 577 245
Oceania	484 477 447	515 493 083	542 815 415	560 044 299	573 950 955
Total	11 074 851 922	11 321 937 121	11 513 595 706	11 719 677 380	12 396 436 316
	2004	2005	2006	2007	2008
Africa	890 333 467	944 557 106	957 844 493	975 719 824	996 725 521
Asia	6 538 129 535	7 067 753 045	7 554 057 409	7 955 801 973	8 290 257 889
Europe	1 788 545 139	1 749 879 233	1 728 775 009	1 717 633 543	1 700 370 530
Latin America	1 033 685 411	1 068 298 139	1 105 968 273	1 131 869 785	1 122 218 524
North America	2 355 162 356	2 343 744 813	2 381 080 452	2 371 567 898	2 403 886 981
Oceania	597 642 134	629 117 525	643 031 154	673 978 453	708 088 184
Total	13 203 498 042	13 803 349 861	14 370 756 790	14 826 571 476	15 221 547 629
	2009	2010	2011	2012	2013
Africa	963 712 118	1 009 671 531	929 025 242	993 631 415	964 096 118
Asia	8 324 850 637	8 922 128 223	9 530 841 778	9 735 700 418	9 857 873 162
Europe	1 606 084 844	1 621 739 125	1 638 512 869	1 618 131 898	1 574 048 804
Latin America	1 065 802 292	1 128 449 576	1 168 479 625	1 181 829 248	1 167 601 636
North America	2 295 422 815	2 355 466 902	2 432 757 654	2 440 184 070	2 494 737 892
Oceania	728 764 460	800 407 137	817 035 306	865 332 604	960 268 124
Total	14 984 637 166	15 837 862 494	16 516 652 474	16 834 809 653	17 018 625 736
	2014	2015	2016	2017	2018
Africa	947 213 151	939 891 370	917 431 272	969 336 568	992 890 333
Asia	9 797 198 274	9 814 647 700	9 639 296 662	9 900 716 575	10 344 225 115
Europe	1 509 058 657	1 487 088 979	1 449 092 801	1 458 393 654	1 417 120 749
Latin America	1 200 296 147	1 193 233 598	1 168 897 526	1 156 309 936	1 108 664 497
North America	2 644 933 240	2 632 654 028	2 444 041 926	2 576 112 052	2 767 013 306
Oceania	1 067 618 639	1 137 794 792	1 167 402 099	1 195 631 041	1 220 890 765
Total	17 166 318 108	17 205 310 467	16 786 162 286	17 256 499 826	17 850 804 765
	2019	2020	2021	2022	2023
Africa	1 000 819 848	897 591 371	929 772 071	912 073 161	
Asia	10 585 466 792	10 290 673 229	10 808 598 948	11 517 083 948	
Europe	1 276 730 954	1 173 402 747	1 210 907 409	1 130 487 458	
Latin America	1 038 624 846	959 357 811	993 673 222	1 008 920 892	
North America	2 867 156 561	2 661 995 836	2 742 777 080	2 866 498 720	
Oceania	1 259 314 244	1 248 518 897	1 219 875 873	1 236 708 695	
Total	18 028 113 245	17 231 539 891	17 905 604 603	18 671 772 874	

6.1.2 Total Minerals Production, by World Regions (according to IIASA/UN)

(not including bauxite)

in metr. t

	1984	1985	1986	1987	1988
CAS	0	0	0	0	0
CPA	1 080 874 782	1 147 022 610	1 186 312 689	1 229 899 880	1 295 690 825
EEU	636 434 074	645 554 466	664 780 323	676 584 195	687 098 406
FSU	2 008 662 916	2 051 073 642	2 128 802 679	2 179 903 214	2 169 791 690
LAM	562 888 109	566 363 466	573 922 198	563 573 736	591 007 707
MEA	617 646 032	602 866 147	684 533 208	699 535 348	815 939 476
NAF	174 049 767	217 905 160	215 653 776	216 323 715	220 463 124
NAM	2 059 754 620	2 071 094 798	2 028 017 265	2 072 742 093	2 141 306 529
PAO	279 878 265	305 796 402	317 751 191	343 737 308	323 796 437
PAS	191 860 151	199 771 817	210 248 332	212 834 248	222 882 475
SAS	239 428 915	250 496 548	275 180 380	284 930 463	307 781 867
SSA	317 228 071	335 705 985	344 735 676	341 838 508	357 966 477
WEU	1 164 224 114	1 251 723 090	1 264 101 151	1 258 010 491	1 233 286 184
Total	9 332 929 816	9 645 374 131	9 894 038 868	10 079 913 199	10 367 011 197
	1989	1990	1991	1992	1993
CAS	0	0	0	278 896 061	261 685 653
CPA	1 386 721 186	1 419 909 262	1 440 822 996	1 478 667 364	1 528 180 835
EEU	663 945 884	594 929 160	568 068 077	527 688 425	481 370 927
FSU	2 177 826 838	2 108 198 188	1 970 059 731	1 482 944 278	1 407 816 504
LAM	613 477 069	646 478 806	663 108 692	670 868 309	686 903 025
MEA	913 189 412	932 910 023	922 324 208	1 028 328 290	1 077 885 738
NAF	230 573 878	250 061 489	260 688 687	249 164 947	247 976 735
NAM	2 164 153 326	2 203 400 391	2 184 310 275	2 181 881 083	2 143 575 949
PAO	350 718 282	364 676 182	379 144 108	388 882 686	396 034 077
PAS	236 864 923	247 065 328	269 264 299	280 970 870	295 649 284
SAS	321 613 319	344 310 203	366 070 717	373 570 728	384 199 829
SSA	381 127 072	379 129 745	384 964 990	382 383 316	393 465 656
WEU	1 241 384 811	1 172 084 553	1 102 512 226	1 075 345 153	1 045 439 615
Total	10 681 596 000	10 663 153 330	10 511 339 006	10 399 591 510	10 350 183 827
	1994	1995	1996	1997	1998
CAS	220 144 489	209 024 514	207 762 674	196 666 341	189 926 351
CPA	1 610 825 986	1 747 522 163	1 819 538 088	1 780 092 908	1 733 623 584
EEU	473 397 401	473 390 011	475 878 616	465 843 197	426 658 869
FSU	1 256 946 449	1 286 922 247	1 194 807 771	1 251 396 651	1 236 193 893
LAM	720 428 525	746 441 946	777 538 760	814 098 083	887 163 743
MEA	1 083 252 906	1 095 219 497	1 106 598 639	1 181 328 983	1 237 913 427
NAF	251 073 843	262 416 382	248 183 472	257 594 302	257 192 208
NAM	2 262 191 343	2 273 264 743	2 316 707 697	2 351 675 394	2 356 365 541
PAO	403 090 498	426 137 006	439 819 631	470 860 516	484 180 957
PAS	299 751 830	325 072 506	345 222 599	354 962 566	349 096 410
SAS	404 686 390	434 661 185	453 450 881	476 071 333	464 113 974
SSA	401 519 576	424 556 468	432 700 405	455 683 599	462 883 770
WEU	1 060 243 398	1 071 276 460	1 099 472 561	1 083 170 709	1 069 861 550
Total	10 447 552 634	10 775 905 128	10 917 681 794	11 139 444 582	11 155 174 277

	1999	2000	2001	2002	2003
CAS	193 706 481	226 468 590	247 586 222	260 778 696	279 344 945
CPA	1 668 947 828	1 664 434 707	1 720 144 645	1 870 093 489	2 261 640 548
EEU	405 146 760	418 950 400	421 696 895	414 317 871	415 186 873
FSU	1 221 889 847	1 244 468 946	1 245 374 547	1 298 774 135	1 352 606 566
LAM	879 205 004	908 631 865	916 258 957	922 162 854	955 349 598
MEA	1 230 015 392	1 309 455 652	1 315 170 315	1 268 525 741	1 376 116 140
NAF	274 893 639	291 278 229	292 003 404	295 825 223	323 298 425
NAM	2 327 963 155	2 324 941 284	2 357 596 851	2 322 570 961	2 283 577 245
PAO	491 972 708	523 604 770	552 323 332	565 875 177	580 217 768
PAS	363 765 792	360 158 440	376 225 284	389 342 271	414 650 548
SAS	484 445 067	503 113 142	524 386 470	555 615 559	595 343 890
SSA	457 271 738	474 454 932	481 453 073	485 890 738	510 652 906
WEU	1 075 628 511	1 071 976 164	1 063 375 711	1 069 904 665	1 048 450 864
Total	11 074 851 922	11 321 937 121	11 513 595 706	11 719 677 380	12 396 436 316
	2004	2005	2006	2007	2008
CAS	284 388 632	301 319 252	316 958 207	328 540 462	346 827 310
CPA	2 576 768 289	2 896 704 233	3 173 101 445	3 409 450 916	3 588 924 450
EEU	413 527 928	400 633 752	402 819 211	396 346 738	403 576 085
FSU	1 415 223 481	1 484 092 797	1 556 651 618	1 634 919 377	1 628 590 422
LAM	1 033 685 411	1 068 298 139	1 105 968 273	1 131 869 785	1 122 218 524
MEA	1 488 239 728	1 533 598 147	1 556 703 482	1 568 640 370	1 651 999 489
NAF	339 847 316	362 782 695	377 028 093	382 239 724	387 374 745
NAM	2 355 162 356	2 343 744 813	2 381 080 452	2 371 567 898	2 403 886 981
PAO	604 163 558	635 551 551	649 306 983	681 162 720	715 323 680
PAS	448 977 937	480 119 406	537 883 395	555 571 308	562 518 156
SAS	643 835 864	691 978 045	737 812 235	785 124 909	824 863 266
SSA	550 486 151	581 774 411	580 816 400	593 480 100	609 350 776
WEU	1 049 191 391	1 022 752 620	994 626 996	987 657 169	976 093 745
Total	13 203 498 042	13 803 349 861	14 370 756 790	14 826 571 476	15 221 547 629
	2009	2010	2011	2012	2013
CAS	318 530 746	338 809 282	361 795 261	370 278 581	369 401 334
CPA	3 691 362 985	4 007 881 522	4 358 888 169	4 427 754 535	4 522 239 615
EEU	381 261 225	378 598 610	408 545 344	398 179 554	376 852 952
FSU	1 552 186 383	1 660 776 235	1 707 793 556	1 722 979 641	1 720 998 657
LAM	1 065 802 292	1 128 449 576	1 168 479 625	1 181 829 248	1 167 601 636
MEA	1 570 797 617	1 680 725 599	1 819 424 670	1 861 463 539	1 857 727 819
NAF	367 604 086	371 797 046	297 612 352	338 676 664	307 211 628
NAM	2 295 422 815	2 355 466 902	2 432 757 654	2 440 184 070	2 494 737 892
PAO	735 812 535	807 368 816	823 479 539	871 771 210	966 457 109
PAS	607 783 754	662 179 127	743 666 102	809 207 315	835 900 144
SAS	887 883 635	891 533 102	877 403 823	878 380 623	890 370 909
SSA	596 108 032	637 874 485	631 412 890	654 954 751	656 884 490
WEU	914 081 061	916 402 192	885 393 489	879 149 922	852 241 551
Total	14 984 637 166	15 837 862 494	16 516 652 474	16 834 809 653	17 018 625 736

	2014	2015	2016	2017	2018
CAS	369 086 001	359 109 931	346 487 462	370 404 971	390 132 834
CPA	4 426 614 376	4 350 056 075	3 987 500 135	4 101 864 503	4 289 098 924
EEU	360 145 005	372 004 057	359 799 460	362 336 644	348 772 269
FSU	1 692 868 480	1 687 852 992	1 697 239 942	1 782 663 228	1 852 899 953
LAM	1 200 296 147	1 193 233 598	1 168 897 526	1 156 309 936	1 108 664 497
MEA	1 887 242 854	1 981 202 853	2 085 619 072	2 065 125 657	2 096 404 020
NAF	277 857 418	267 208 739	275 191 825	305 996 390	327 843 296
NAM	2 644 933 240	2 632 654 028	2 444 041 926	2 576 112 052	2 767 013 306
PAO	1 071 645 982	1 139 677 034	1 169 252 314	1 197 591 593	1 223 509 785
PAS	826 552 892	783 418 976	803 482 606	834 000 900	876 377 784
SAS	921 198 062	965 467 748	1 020 839 293	1 048 533 561	1 112 233 434
SSA	669 355 733	672 682 631	642 239 447	663 340 178	665 047 037
WEU	818 521 918	800 741 805	785 571 278	792 220 213	792 807 626
Total	17 166 318 108	17 205 310 467	16 786 162 286	17 256 499 826	17 850 804 765
	2019	2020	2021	2022	2023
CAS	386 021 850	367 226 981	386 150 141	381 089 936	
CPA	4 455 579 390	4 506 735 769	4 748 446 112	5 105 351 042	
EEU	330 670 121	290 717 549	303 265 205	313 758 331	
FSU	1 870 939 085	1 740 157 268	1 839 926 722	1 737 544 089	
LAM	1 038 624 846	959 357 811	993 673 222	1 008 920 892	
MEA	2 043 234 953	1 948 230 709	1 994 450 329	2 134 999 184	
NAF	332 613 326	270 260 784	329 339 560	317 933 781	
NAM	2 867 156 561	2 661 995 836	2 742 777 080	2 866 498 720	
PAO	1 261 276 704	1 250 068 012	1 221 258 404	1 236 362 883	
PAS	929 085 079	869 314 125	870 670 152	981 142 728	
SAS	1 124 506 442	1 070 631 128	1 175 833 192	1 293 811 290	
SSA	668 206 522	627 330 587	600 432 511	594 139 380	
WEU	720 198 366	669 513 332	699 381 973	700 220 618	
Total	18 028 113 245	17 231 539 891	17 905 604 603	18 671 772 874	

6.1.3 Total Minerals Production, by Development Status of Producer Countries

(not including bauxite)
in metr. t

	1984	1985	1986	1987	1988
Developed C.	3 149 213 568	3 248 042 606	3 221 526 218	3 287 603 881	3 317 831 500
Transition C.	0	0	0	0	0
Developing C.	6 159 602 914	6 375 829 605	6 639 234 821	6 755 555 590	7 002 264 892
Least Developed C.	24 113 334	21 501 920	33 277 829	36 753 728	46 914 805
Total	9 332 929 816	9 645 374 131	9 894 038 868	10 079 913 199	10 367 011 197

	1989	1990	1991	1992	1993
Developed C.	3 372 372 850	3 415 864 741	3 605 216 660	3 578 620 438	3 525 046 456
Transition C.	0	0	7 001 748	2 288 481 585	2 149 919 544
Developing C.	7 255 130 175	7 190 516 931	6 845 319 296	4 478 000 553	4 619 740 025
Least Developed C.	54 092 975	56 771 658	53 801 302	54 488 934	55 477 802
Total	10 681 596 000	10 663 153 330	10 511 339 006	10 399 591 510	10 350 183 827
	1994	1995	1996	1997	1998
Developed C.	3 658 030 769	3 701 646 668	3 867 182 258	3 911 530 283	3 901 447 762
Transition C.	1 950 488 339	1 969 336 772	1 798 379 745	1 836 494 053	1 781 242 793
Developing C.	4 775 365 117	5 031 257 725	5 175 105 513	5 312 027 496	5 389 931 117
Least Developed C.	63 668 409	73 663 963	77 014 278	79 392 750	82 552 605
Total	10 447 552 634	10 775 905 128	10 917 681 794	11 139 444 582	11 155 174 277
	1999	2000	2001	2002	2003
Developed C.	3 880 033 363	3 917 626 648	3 974 382 743	3 961 772 614	3 918 787 749
Transition C.	1 755 536 975	1 818 133 949	1 842 028 326	1 905 811 340	1 934 426 788
Developing C.	5 343 956 118	5 486 077 228	5 587 000 473	5 730 320 141	6 418 526 073
Least Developed C.	95 325 466	100 099 296	110 184 164	121 773 285	124 695 706
Total	11 074 851 922	11 321 937 121	11 513 595 706	11 719 677 380	12 396 436 316
	2004	2005	2006	2007	2008
Developed C.	4 213 973 929	4 188 952 460	4 197 413 923	4 289 657 104	4 336 703 204
Transition C.	1 802 300 074	1 881 120 158	2 015 916 499	2 009 852 899	2 033 740 153
Developing C.	7 039 196 306	7 560 589 275	7 980 373 944	8 332 453 370	8 645 694 683
Least Developed C.	148 027 733	172 687 968	177 052 424	194 608 103	205 409 589
Total	13 203 498 042	13 803 349 861	14 370 756 790	14 826 571 476	15 221 547 629
	2009	2010	2011	2012	2013
Developed C.	4 174 761 431	4 298 664 985	4 344 262 497	4 422 748 862	4 532 015 769
Transition C.	1 928 652 281	2 054 455 717	2 130 703 579	2 149 422 327	2 142 229 971
Developing C.	8 679 504 573	9 274 846 830	9 844 927 702	10 065 710 187	10 129 883 003
Least Developed C.	201 718 881	209 894 962	196 758 696	196 928 277	214 496 993
Total	14 984 637 166	15 837 862 494	16 516 652 474	16 834 809 653	17 018 625 736
	2014	2015	2016	2017	2018
Developed C.	4 755 200 944	4 797 145 811	4 595 894 260	4 767 228 620	4 957 430 086
Transition C.	2 103 612 208	2 098 534 453	2 100 703 320	2 205 040 768	2 292 630 236
Developing C.	10 088 179 168	10 098 258 677	9 873 116 280	10 061 865 007	10 395 924 345
Least Developed C.	219 325 788	211 371 526	216 448 426	222 365 431	204 820 098
Total	17 166 318 108	17 205 310 467	16 786 162 286	17 256 499 826	17 850 804 765
	2019	2020	2021	2022	2023
Developed C.	4 999 915 408	4 698 741 987	4 788 131 384	6 670 095 234	
Transition C.	2 313 707 983	2 167 717 975	2 283 620 041	0	
Developing C.	10 514 263 623	10 177 429 650	10 650 077 460	11 810 565 592	
Least Developed C.	200 226 231	187 650 279	183 775 718	191 112 048	
Total	18 028 113 245	17 231 539 891	17 905 604 603	18 671 772 874	

6.1.4 Total Minerals Production, by Country Groups and Economic Blocks

(not including bauxite)
in metr. t

	1984	1985	1986	1987	1988
ACP	140 716 271	151 949 530	154 004 089	152 731 687	160 849 315
ASEAN	160 417 272	167 109 416	176 498 545	179 491 698	189 624 040
BRICS	0	0	0	0	0
CPE	1 081 847 083	1 148 153 791	1 187 484 674	1 231 117 592	1 296 654 410
EC	667 433 246	724 285 498	778 526 057	765 918 701	741 105 727
EFTA	86 501 629	90 794 412	94 085 678	101 824 013	108 301 907
G7	2 631 523 836	2 690 779 307	2 651 279 886	2 678 929 345	2 727 616 585
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	3 186 091 963	3 293 324 653	3 275 412 465	3 341 472 804	3 364 611 874
SADC	17 935 614	18 448 131	22 266 329	27 368 846	32 221 336
	1989	1990	1991	1992	1993
ACP	183 831 380	183 003 894	189 058 026	196 916 158	195 773 537
ASEAN	207 122 705	222 096 617	246 758 858	258 532 954	271 523 978
BRICS	0	0	0	0	0
CPE	1 387 686 508	1 420 981 827	1 441 606 223	1 479 769 606	1 529 405 170
EC	726 811 162	713 212 294	899 802 813	848 963 697	820 492 751
EFTA	127 328 938	131 079 908	138 682 527	155 402 174	161 077 230
G7	2 719 956 270	2 746 702 086	2 906 700 415	2 852 393 720	2 782 019 540
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	3 433 609 010	3 474 450 475	3 665 834 154	3 645 967 109	3 584 901 605
SADC	32 532 417	34 481 813	34 374 885	36 256 605	33 922 716
	1994	1995	1996	1997	1998
ACP	193 517 244	202 500 957	212 517 124	218 599 890	480 286 475
ASEAN	278 632 414	323 124 810	346 336 893	361 326 482	360 371 902
BRICS	0	0	0	0	0
CPE	1 612 268 258	1 749 177 103	1 821 212 913	1 781 742 497	1 735 596 249
EC	810 422 706	830 631 556	835 014 310	810 193 130	793 392 866
EFTA	178 119 640	167 198 965	191 230 993	196 755 754	190 974 345
G7	2 890 864 001	2 905 879 615	2 944 282 748	2 959 745 223	4 026 600 474
MERCOSUR	0	237 744 912	241 754 188	258 158 580	276 046 988
NAFTA/USMCA	2 471 519 210	2 479 037 674	2 539 711 961	2 580 709 852	2 593 191 794
OECD	3 934 697 616	4 054 480 852	4 401 741 949	4 453 322 458	4 435 701 420
SADC	257 535 416	277 796 119	281 762 373	299 455 912	304 739 026

	1999	2000	2001	2002	2003
ACP	481 367 798	506 054 757	513 198 714	523 640 619	556 103 671
ASEAN	377 113 262	377 104 718	397 866 605	414 935 396	444 204 441
BRICS	0	0	3 451 167 909	3 694 041 059	4 178 820 953
CPE	1 671 544 919	1 667 680 499	1 723 512 951	1 874 392 063	2 266 139 859
EC	795 356 622	786 159 755	774 671 132	782 355 532	759 900 398
EFTA	194 749 270	206 691 249	212 922 426	218 397 044	221 357 270
G7	3 990 479 133	3 987 937 488	4 006 251 222	4 016 333 569	4 010 573 889
MERCOSUR	282 748 724	305 879 670	301 536 799	318 735 895	332 243 088
NAFTA/USMCA	2 559 448 246	2 558 431 251	2 593 370 345	2 558 828 271	2 532 086 511
OECD	4 401 668 065	4 433 484 070	4 488 644 900	4 465 626 674	4 436 022 529
SADC	305 753 050	305 765 038	307 466 314	319 218 257	328 807 074
	2004	2005	2006	2007	2008
ACP	599 412 463	632 512 679	648 443 044	665 369 079	679 617 730
ASEAN	492 731 179	529 611 096	591 312 077	612 391 011	616 303 293
BRICS	4 612 848 255	5 045 888 677	5 436 683 402	5 810 738 805	6 019 544 331
CPE	2 580 696 285	2 900 180 890	3 176 703 257	3 412 691 115	3 592 419 686
EC	1 041 340 682	1 002 525 360	966 282 239	1 030 585 249	1 006 918 511
EFTA	223 187 755	214 901 567	208 170 789	200 006 268	203 721 928
G7	4 127 325 296	4 146 823 017	4 216 918 915	4 265 534 274	4 266 652 349
MERCOSUR	361 091 110	384 188 065	628 913 827	652 236 026	646 652 940
NAFTA/USMCA	2 607 837 537	2 598 634 254	2 633 342 309	2 620 247 444	2 636 651 391
OECD	4 532 312 682	4 522 752 028	4 538 826 689	4 538 724 036	4 574 159 324
SADC	341 465 580	365 950 912	367 087 253	384 621 611	403 968 407
	2009	2010	2011	2012	2013
ACP	667 058 646	710 030 437	693 766 050	705 597 234	709 033 373
ASEAN	669 148 945	725 237 317	808 541 996	871 646 181	898 891 900
BRICS	6 076 129 645	6 536 173 481	6 925 035 098	7 329 924 164	7 422 619 423
CPE	3 694 151 041	4 010 804 745	4 361 661 139	4 430 421 348	4 524 283 678
EC	937 470 944	935 845 478	939 073 765	917 634 268	883 152 009
EFTA	200 145 508	193 287 487	182 613 943	187 123 786	179 012 688
G7	4 063 970 879	4 211 410 300	4 313 813 143	4 320 057 786	4 356 376 221
MERCOSUR	594 891 174	640 389 557	653 339 655	655 377 112	635 772 996
NAFTA/USMCA	2 519 249 757	2 581 823 945	2 659 873 455	2 670 956 435	2 724 273 183
OECD	4 399 938 448	4 587 682 820	4 665 761 516	4 717 365 395	4 836 837 504
SADC	397 770 207	412 907 945	405 408 384	424 111 445	430 067 458
	2014	2015	2016	2017	2018
ACP	721 555 773	723 949 503	689 153 617	710 130 064	711 733 594
ASEAN	887 945 476	850 296 057	871 995 075	902 123 306	951 784 948
BRICS	7 385 435 178	7 377 055 081	7 053 442 302	7 325 134 934	7 634 196 136
CPE	4 429 043 431	4 348 091 516	3 977 278 165	4 091 189 518	4 275 738 406
EC	848 791 698	826 240 213	781 160 970	788 282 549	768 638 000
EFTA	180 353 090	189 222 630	190 505 921	194 038 527	186 758 101
G7	3 003 904 422	2 987 034 485	2 784 010 009	2 912 754 036	3 102 275 920
MERCOSUR	663 919 488	686 405 815	678 372 999	685 507 343	643 382 720
NAFTA/USMCA	2 867 107 764	2 831 965 728	2 637 908 828	2 752 911 752	2 939 439 303
OECD	5 048 081 708	5 058 509 065	4 867 025 339	5 017 928 347	5 226 334 483
SADC	441 997 410	435 491 881	424 062 020	441 151 601	438 543 416

	2019	2020	2021	2022	2023
ACP	715 553 941	673 307 022	644 072 620	648 724 652	
ASEAN	1 008 301 529	941 652 191	945 944 405	1 057 988 201	
BRICS	7 796 681 451	7 659 903 236	8 110 125 569	8 533 471 839	
CPE	4 442 660 500	4 493 795 204	4 733 942 685	5 088 367 275	
EC	684 379 824	584 104 030	534 614 881	542 780 971	
EFTA	175 983 707	187 606 342	192 118 881	193 481 428	
G7	3 161 394 725	2 922 134 618	3 013 174 104	3 138 298 662	
MERCOSUR	586 822 879	553 863 109	583 980 716	582 984 489	
NAFTA/USMCA	3 026 462 622	2 820 229 763	2 899 155 999	3 023 868 223	
OECD	5 256 177 446	5 073 840 687	5 166 379 510	5 317 264 423	
SADC	431 156 200	399 810 516	391 296 364	395 245 434	

6.1.5 Total Minerals Production, by Political Stability of Producer Countries

(not including bauxite)
in metr. t

	1996	1997	1998	1999	2000
Stable	93 988 822	86 660 123	104 515 654	101 407 295	386 194 631
Fair	4 742 799 162	4 761 233 104	4 860 047 942	4 849 751 962	5 358 541 544
Unstable	5 313 386 963	5 474 066 157	5 518 639 931	5 381 947 067	4 795 681 500
Extreme Unstable	767 506 847	817 485 198	671 970 750	741 745 598	781 519 446
Total	10 917 681 794	11 139 444 582	11 155 174 277	11 074 851 922	11 321 937 121
	2001	2002	2003	2004	2005
Stable	355 190 957	349 875 134	19 963 414	49 270 953	244 902 434
Fair	5 297 186 974	4 945 559 276	5 964 849 270	5 213 389 979	5 135 760 264
Unstable	5 042 971 666	5 419 199 116	4 873 746 055	4 978 182 501	6 330 954 094
Extreme Unstable	818 246 109	1 005 043 854	1 537 877 577	2 962 654 609	2 091 733 069
Total	11 513 595 706	11 719 677 380	12 396 436 316	13 203 498 042	13 803 349 861
	2006	2007	2008	2009	2010
Stable	237 915 847	25 179 583	209 989 308	218 606 014	212 765 789
Fair	5 421 174 894	5 878 354 400	5 739 075 887	5 239 842 998	5 628 122 445
Unstable	7 846 146 953	8 385 166 759	8 437 378 169	7 563 891 179	7 837 369 709
Extreme Unstable	865 519 096	537 870 734	835 104 265	1 962 296 975	2 159 604 551
Total	14 370 756 790	14 826 571 476	15 221 547 629	14 984 637 166	15 837 862 494
	2011	2012	2013	2014	2015
Stable	195 904 880	205 993 312	198 571 422	36 777 495	484 595 097
Fair	5 500 474 885	5 576 375 607	5 398 319 161	5 988 126 939	5 211 515 883
Unstable	8 777 781 618	9 002 037 118	10 619 706 764	10 523 318 402	10 776 805 224
Extreme Unstable	2 042 491 091	2 050 403 616	802 028 389	618 095 272	732 394 263
Total	16 516 652 474	16 834 809 653	17 018 625 736	17 166 318 108	17 205 310 467

	2016	2017	2018	2019	2020
Stable	487 963 172	12 593 796	11 969 925	11 737 733	10 796 290
Fair	5 233 522 454	5 902 420 006	6 052 024 719	6 016 700 808	5 570 204 117
Unstable	10 270 906 955	10 378 652 554	10 453 083 693	10 716 014 443	10 694 830 485
Extreme Unstable	793 769 705	962 833 470	1 333 726 428	1 283 660 261	955 708 999
Total	16 786 162 286	17 256 499 826	17 850 804 765	18 028 113 245	17 231 539 891
	2021	2022	2023	2024	2025
Stable	10 223 891	22 525 552			
Fair	5 721 230 058	5 851 322 632			
Unstable	11 158 776 513	11 681 855 748			
Extreme Unstable	1 015 374 141	1 116 068 942			
Total	17 905 604 603	18 671 772 874			

6.1.6 Total Minerals Production, by Groups of Commodities

(not including bauxite)
in metr. t

	1984	1985	1986	1987	1988
Iron and Ferro-Alloys	463 653 286	510 052 413	514 514 946	527 743 082	545 104 841
Non-Ferrous Metals	35 084 585	35 280 131	35 134 266	36 715 179	37 771 629
Precious Metals	14 609	15 039	14 972	15 754	16 744
Industrial Minerals	460 034 310	468 017 624	478 274 132	493 253 351	505 107 009
Mineral Fuels	8 374 143 026	8 632 008 924	8 866 100 552	9 022 185 833	9 279 010 974
Total	9 332 929 816	9 645 374 131	9 894 038 868	10 079 913 199	10 367 011 197
	1989	1990	1991	1992	1993
Iron and Ferro-Alloys	563 035 654	553 138 430	554 426 795	518 351 544	527 354 970
Non-Ferrous Metals	39 457 040	39 158 801	39 133 368	39 714 334	39 121 393
Precious Metals	17 189	17 418	17 000	17 352	16 581
Industrial Minerals	508 179 916	495 266 552	473 973 296	466 022 788	453 542 362
Mineral Fuels	9 570 906 201	9 575 572 129	9 443 788 547	9 375 485 492	9 330 148 521
Total	10 681 596 000	10 663 153 330	10 511 339 006	10 399 591 510	10 350 183 827
	1994	1995	1996	1997	1998
Iron and Ferro-Alloys	546 473 894	577 003 628	564 412 774	590 662 477	593 354 759
Non-Ferrous Metals	38 758 449	40 425 344	42 593 880	44 044 133	45 872 155
Precious Metals	15 937	16 863	17 370	18 567	19 575
Industrial Minerals	476 448 258	493 200 047	501 553 390	518 080 782	504 542 436
Mineral Fuels	9 385 856 096	9 665 259 246	9 809 104 380	9 986 638 623	10 011 385 352
Total	10 447 552 634	10 775 905 128	10 917 681 794	11 139 444 582	11 155 174 277

	1999	2000	2001	2002	2003
Iron and Ferro-Alloys	582 302 931	627 277 484	596 561 401	642 377 488	692 928 163
Non-Ferrous Metals	47 973 981	49 999 012	50 557 341	51 770 272	54 904 665
Precious Metals	19 871	21 041	21 628	21 769	21 737
Industrial Minerals	532 629 932	539 434 881	537 057 554	542 008 604	589 890 476
Mineral Fuels	9 911 925 207	10 105 204 703	10 329 397 782	10 483 499 247	11 058 691 275
Total	11 074 851 922	11 321 937 121	11 513 595 706	11 719 677 380	12 396 436 316
	2004	2005	2006	2007	2008
Iron and Ferro-Alloys	787 207 372	858 612 467	962 486 244	1 062 444 383	1 118 889 629
Non-Ferrous Metals	57 518 485	60 526 878	63 650 568	68 904 072	71 643 411
Precious Metals	22 637	23 216	22 932	23 447	24 044
Industrial Minerals	633 680 934	656 649 518	679 234 001	693 087 370	700 324 866
Mineral Fuels	11 725 068 614	12 227 537 782	12 665 363 045	13 002 112 204	13 330 665 679
Total	13 203 498 042	13 803 349 861	14 370 756 790	14 826 571 476	15 221 547 629
	2009	2010	2011	2012	2013
Iron and Ferro-Alloys	1 101 178 811	1 222 460 413	1 307 546 257	1 319 742 852	1 401 138 299
Non-Ferrous Metals	68 786 771	74 867 975	78 343 726	85 347 468	90 029 211
Precious Metals	25 518	26 726	26 912	28 178	29 501
Industrial Minerals	673 767 824	712 395 753	738 269 292	750 190 882	777 390 214
Mineral Fuels	13 140 878 242	13 828 111 627	14 392 466 287	14 679 500 273	14 750 038 511
Total	14 984 637 166	15 837 862 494	16 516 652 474	16 834 809 653	17 018 625 736
	2014	2015	2016	2017	2018
Iron and Ferro-Alloys	1 490 475 340	1 494 383 822	1 502 497 657	1 553 694 406	1 569 972 069
Non-Ferrous Metals	92 242 695	96 175 016	96 885 520	98 018 426	102 941 338
Precious Metals	30 646	31 820	31 842	30 684	31 479
Industrial Minerals	782 293 722	787 412 351	788 595 572	799 251 353	822 248 101
Mineral Fuels	14 801 275 705	14 827 307 458	14 398 151 695	14 805 504 957	15 355 611 779
Total	17 166 318 108	17 205 310 467	16 786 162 286	17 256 499 826	17 850 804 765
	2019	2020	2021	2022	2023
Iron and Ferro-Alloys	1 600 806 525	1 567 983 503	1 639 314 934	1 596 441 379	
Non-Ferrous Metals	102 686 644	104 791 462	106 903 214	109 628 835	
Precious Metals	31 850	30 088	30 251	30 305	
Industrial Minerals	807 510 301	780 284 769	809 852 539	815 542 097	
Mineral Fuels	15 517 077 925	14 778 450 069	15 349 503 665	16 150 130 258	
Total	18 028 113 245	17 231 539 891	17 905 604 603	18 671 772 874	

6.1.7 Mineral Fuels

6.1.7.1 Total Production in metr. t

	1984	1985	1986	1987	1988
Steam Coal	2 533 847 298	2 657 655 703	2 736 201 444	2 807 598 921	2 875 175 476
Coking Coal	576 335 300	581 727 250	588 503 000	591 240 000	623 772 000
Lignite	1 116 926 583	1 169 139 745	1 198 670 590	1 221 212 296	1 189 135 195
Petroleum Total	2 769 993 046	2 793 543 482	2 886 611 912	2 882 336 628	3 006 733 425
Petroleum Oil Sands	8 347 400	10 814 300	13 852 000	14 766 100	16 470 800
Natural Gas	1 344 622 400	1 397 570 400	1 424 738 400	1 489 236 000	1 555 657 600
Oil Shales	32 357 240	32 310 047	31 310 014	30 492 137	28 466 360
Uranium	61 159	62 297	65 192	69 851	70 918
Total	8 374 143 026	8 632 008 924	8 866 100 552	9 022 185 833	9 279 010 974
	1989	1990	1991	1992	1993
Steam Coal	2 946 751 117	2 966 282 356	2 930 112 414	2 950 616 811	2 882 685 358
Coking Coal	623 715 700	637 815 000	600 629 000	526 685 580	511 572 000
Lignite	1 257 275 539	1 165 582 805	1 080 729 202	1 014 076 878	957 904 090
Petroleum Total	3 104 331 760	3 149 671 237	3 147 685 027	3 196 071 169	3 218 379 949
Petroleum Oil Sands	17 980 000	18 510 800	18 777 200	19 617 900	20 237 800
Natural Gas	1 610 295 200	1 629 505 600	1 658 865 600	1 663 157 600	1 733 213 600
Oil Shales	28 468 938	26 655 905	25 718 314	24 835 014	26 355 156
Uranium	67 947	59 226	48 990	42 440	38 368
Total	9 570 906 201	9 575 572 129	9 443 788 547	9 375 485 492	9 330 148 521
	1994	1995	1996	1997	1998
Steam Coal	3 011 660 645	3 147 120 817	3 256 100 430	3 273 956 374	3 225 017 149
Coking Coal	522 679 000	551 083 000	520 918 000	529 874 000	495 575 000
Lignite	920 213 062	904 348 282	882 773 312	883 849 311	861 735 746
Petroleum Total	3 189 910 583	3 251 473 414	3 274 753 153	3 406 937 738	3 509 675 999
Petroleum Oil Sands	21 344 000	23 031 100	23 962 800	28 400 500	31 770 100
Natural Gas	1 719 076 800	1 794 533 600	1 857 552 800	1 874 728 000	1 904 060 000
Oil Shales	22 278 784	16 659 899	16 965 358	17 251 305	15 281 589
Uranium	37 222	40 234	41 327	41 895	39 869
Total	9 385 856 096	9 665 259 246	9 809 104 380	9 986 638 623	10 011 385 352
	1999	2000	2001	2002	2003
Steam Coal	3 163 284 905	3 169 221 186	3 335 095 533	3 440 490 303	3 791 073 723
Coking Coal	480 835 000	475 326 000	475 450 000	478 070 000	527 816 120
Lignite	848 370 347	862 776 576	890 548 501	891 817 623	878 293 662
Petroleum Total	3 449 855 456	3 581 551 235	3 580 531 566	3 561 524 520	3 702 073 702
Petroleum Oil Sands	33 866 500	44 441 000	50 443 100	63 151 600	66 369 900
Natural Gas	1 956 240 800	2 002 115 200	2 033 502 400	2 096 815 200	2 142 354 400
Oil Shales	13 301 711	14 172 936	14 227 015	14 739 077	17 037 785
Uranium	36 988	41 570	42 767	42 524	41 883
Total	9 911 925 207	10 105 204 703	10 329 397 782	10 483 499 247	11 058 691 275

	2004	2005	2006	2007	2008
Steam Coal	4 127 007 942	4 387 272 606	4 664 879 497	4 848 257 117	5 018 892 543
Coking Coal	600 995 201	680 609 428	716 826 531	794 213 709	801 224 094
Lignite	894 070 195	934 846 769	949 111 979	957 520 005	983 195 678
Petroleum Total	3 886 190 188	3 935 792 890	3 962 232 373	3 944 285 280	3 984 885 851
Petroleum Oil Sands	83 717 200	80 995 800	90 087 100	94 861 200	95 744 700
Natural Gas	2 200 730 400	2 272 442 400	2 356 186 400	2 439 281 600	2 524 384 000
Oil Shales	16 027 336	16 524 485	16 079 794	18 505 726	18 031 734
Uranium	47 352	49 204	46 471	48 767	51 779
Total	11 725 068 614	12 227 537 782	12 665 363 045	13 002 112 204	13 330 665 679
	2009	2010	2011	2012	2013
Steam Coal	5 148 155 149	5 397 763 695	5 743 171 410	5 854 777 988	5 894 706 486
Coking Coal	824 599 040	943 566 350	1 018 552 520	1 025 682 310	1 084 780 600
Lignite	833 407 466	847 584 916	891 323 386	894 761 867	856 633 855
Petroleum Total	3 880 338 072	3 972 887 814	4 006 098 450	4 112 540 147	4 125 754 481
Petroleum Oil Sands	102 879 100	110 453 500	116 257 300	129 172 900	135 662 800
Natural Gas	2 438 430 400	2 647 440 800	2 713 752 000	2 771 966 400	2 766 716 800
Oil Shales	15 888 442	18 805 092	19 505 132	19 701 365	21 375 653
Uranium	59 673	62 960	63 389	70 196	70 636
Total	13 140 878 242	13 828 111 627	14 392 466 287	14 679 500 273	14 750 038 511
	2014	2015	2016	2017	2018
Steam Coal	5 820 055 359	5 668 110 299	5 243 275 026	5 531 843 735	5 839 294 209
Coking Coal	1 118 855 146	1 090 745 410	1 048 119 557	1 022 714 054	1 037 804 421
Lignite	818 200 727	820 582 221	814 324 735	820 800 439	800 482 271
Petroleum Total	4 201 563 869	4 361 196 443	4 384 524 493	4 386 748 554	4 494 932 415
Petroleum Oil Sands	135 882 800	158 197 900	159 356 500	169 006 100	176 864 600
Natural Gas	2 820 633 600	2 866 094 400	2 891 151 200	3 020 792 800	3 160 240 000
Oil Shales	21 899 496	20 506 638	16 682 046	22 534 973	22 794 380
Uranium	67 508	72 047	74 638	70 402	64 083
Total	14 801 275 705	14 827 307 458	14 398 151 695	14 805 504 957	15 355 611 779
	2019	2020	2021	2022	2023
Steam Coal	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262	
Coking Coal	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724	
Lignite	734 488 961	637 327 140	684 793 315	716 390 598	
Petroleum Total	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061	
Petroleum Oil Sands	176 766 200	167 943 300	182 022 400	197 386 500	
Natural Gas	3 260 994 400	3 168 742 400	3 300 572 800	3 326 707 200	
Oil Shales	16 628 394	13 054 894	12 674 826	14 700 441	
Uranium	64 278	55 718	55 981	55 972	
Total	15 517 077 925	14 778 450 069	15 349 503 665	16 150 130 258	

6.1.7.2 Total Production in tons of coal equivalent (TCE)

	1984	1985	1986	1987	1988
Steam Coal	1 984 545 701	2 079 192 762	2 141 039 784	2 196 329 711	2 242 644 959
Coking Coal	439 443 133	444 515 598	447 335 300	449 367 430	475 163 000
Lignite	360 814 032	378 669 882	388 743 522	396 852 134	387 609 598
Petroleum Total	3 955 550 070	3 989 180 092	4 122 081 810	4 115 976 705	4 293 615 331
Petroleum Oil Sands	11 920 087	15 442 820	19 780 656	21 085 991	23 520 302
Natural Gas	1 820 618 730	1 892 310 322	1 929 095 794	2 016 425 544	2 106 360 390
Oil Shales	9 804 244	9 789 944	9 486 934	9 239 118	8 625 307
Uranium	1 009 123 500	1 027 900 500	1 075 668 000	1 152 541 500	1 170 147 000
Total	9 579 899 410	9 821 559 100	10 113 451 144	10 336 732 142	10 684 165 585
	1989	1990	1991	1992	1993
Steam Coal	2 297 280 349	2 315 215 405	2 288 562 315	2 317 552 470	2 258 599 130
Coking Coal	476 202 417	491 603 770	464 654 390	420 806 373	410 518 480
Lignite	408 804 798	380 691 779	351 909 015	350 948 625	329 597 560
Petroleum Total	4 432 985 753	4 497 730 526	4 494 894 219	4 563 989 629	4 595 846 567
Petroleum Oil Sands	25 675 440	26 433 422	26 813 842	28 014 361	28 899 578
Natural Gas	2 180 339 701	2 206 350 582	2 246 104 022	2 251 915 390	2 346 771 214
Oil Shales	8 626 088	8 076 739	7 792 649	7 525 009	7 985 612
Uranium	1 121 125 500	977 229 000	808 335 000	700 260 000	633 072 000
Total	10 925 364 606	10 876 897 801	10 662 251 610	10 612 997 496	10 582 390 563
	1994	1995	1996	1997	1998
Steam Coal	2 358 469 294	2 464 103 157	2 546 357 455	2 565 416 915	2 533 580 943
Coking Coal	421 238 500	440 288 110	418 180 290	425 195 980	397 855 170
Lignite	315 782 790	312 043 680	301 350 828	303 744 060	292 480 864
Petroleum Total	4 555 192 313	4 643 104 035	4 676 347 502	4 865 107 090	5 011 817 327
Petroleum Oil Sands	30 479 232	32 888 411	34 218 878	40 555 914	45 367 703
Natural Gas	2 327 629 987	2 429 798 494	2 515 126 491	2 538 381 712	2 578 097 240
Oil Shales	6 750 472	5 047 949	5 140 503	5 227 145	4 630 321
Uranium	614 163 000	663 861 000	681 895 500	691 267 500	657 838 500
Total	10 599 226 356	10 958 246 425	11 144 398 569	11 394 340 402	11 476 300 365
	1999	2000	2001	2002	2003
Steam Coal	2 485 286 615	2 486 362 511	2 617 453 259	2 690 425 262	2 940 149 416
Coking Coal	387 598 740	382 944 550	382 572 830	382 254 240	419 362 296
Lignite	289 654 797	293 377 469	303 758 682	302 211 847	297 611 763
Petroleum Total	4 926 393 591	5 114 455 164	5 112 999 076	5 085 857 015	5 286 561 246
Petroleum Oil Sands	48 361 362	63 461 748	72 032 747	90 180 485	94 776 217
Natural Gas	2 648 750 043	2 710 863 981	2 753 362 250	2 839 087 781	2 900 747 858
Oil Shales	4 030 418	4 294 400	4 310 786	4 465 940	5 162 449
Uranium	610 302 000	685 905 000	705 655 500	701 646 000	691 069 500
Total	11 352 016 204	11 678 203 075	11 880 112 383	12 005 948 085	12 540 664 528

	2004	2005	2006	2007	2008
Steam Coal	3 192 583 057	3 384 032 805	3 584 539 581	3 714 753 241	3 837 647 360
Coking Coal	473 987 057	533 191 273	557 593 175	618 648 219	624 698 083
Lignite	304 057 870	319 852 059	326 631 993	329 756 850	339 373 308
Petroleum Total	5 549 479 588	5 620 312 247	5 658 067 829	5 632 439 380	5 690 416 995
Petroleum Oil Sands	119 548 162	115 662 002	128 644 379	135 461 794	136 723 432
Natural Gas	2 979 788 962	3 076 887 010	3 190 276 386	3 302 787 286	3 418 015 936
Oil Shales	4 856 283	5 006 919	4 872 178	5 607 235	5 463 615
Uranium	781 308 000	811 866 000	766 771 500	804 655 500	854 353 500
Total	13 286 060 817	13 751 148 313	14 088 752 642	14 408 647 711	14 769 968 797
	2009	2010	2011	2012	2013
Steam Coal	3 921 037 917	4 093 694 167	4 340 393 395	4 411 200 248	4 436 292 606
Coking Coal	635 657 384	732 783 510	785 922 232	791 664 822	836 729 076
Lignite	280 791 804	288 408 437	303 452 261	302 947 507	289 922 083
Petroleum Total	5 541 122 767	5 673 283 798	5 720 708 587	5 872 707 330	5 891 577 399
Petroleum Oil Sands	146 911 355	157 727 598	166 015 424	184 458 901	193 726 478
Natural Gas	3 301 634 762	3 584 634 843	3 674 420 208	3 753 242 506	3 746 134 547
Oil Shales	4 814 198	5 697 943	5 910 055	5 969 514	6 476 823
Uranium	984 604 500	1 038 840 000	1 045 918 500	1 158 234 000	1 165 494 000
Total	14 669 663 332	15 417 342 698	15 876 725 238	16 295 965 927	16 372 626 534
	2014	2015	2016	2017	2018
Steam Coal	4 389 774 731	4 271 411 939	3 944 351 852	4 154 974 673	4 371 207 778
Coking Coal	864 214 794	844 124 892	812 581 204	798 688 055	809 748 828
Lignite	278 440 353	280 122 416	279 424 269	280 914 207	273 269 323
Petroleum Total	5 999 833 205	6 227 788 521	6 261 100 976	6 264 276 935	6 418 763 489
Petroleum Oil Sands	194 040 638	225 906 601	227 561 082	241 340 711	252 562 649
Natural Gas	3 819 137 894	3 880 691 818	3 914 618 725	4 090 153 451	4 278 964 960
Oil Shales	6 635 547	6 213 511	5 054 660	6 828 097	6 906 697
Uranium	1 113 882 000	1 188 775 500	1 231 527 000	1 161 633 000	1 057 369 500
Total	16 471 918 524	16 699 128 597	16 448 658 686	16 757 468 418	17 216 230 575
	2019	2020	2021	2022	2023
Steam Coal	4 449 207 288	4 255 148 533	4 501 277 623	4 889 857 758	
Coking Coal	823 173 017	802 034 670	802 403 978	807 053 601	
Lignite	253 426 249	222 868 268	238 892 277	251 349 025	
Petroleum Total	6 409 808 326	5 991 530 237	6 062 858 578	6 325 898 715	
Petroleum Oil Sands	252 422 134	239 823 032	259 927 987	281 867 922	
Natural Gas	4 415 386 418	4 290 477 210	4 468 975 571	4 504 361 549	
Oil Shales	5 038 403	3 955 633	3 840 472	4 454 234	
Uranium	1 060 587 000	919 347 000	923 686 500	923 538 000	
Total	17 416 626 701	16 485 361 551	17 001 934 999	17 706 512 882	

6.1.8 Total Minerals Production 2022, by Country

6.1.8.1 by Production in metr. t

Country	Total (incl. Bauxite)	Iron, Ferro-Alloys	Non-Ferrous Metals	Precious Metals	Industrial Minerals	Mineral Fuels
China	5 038 785 218	217 290 602	48 477 058	3 853	173 531 300	4 525 182 405
United States	2 316 410 664	24 939 600	3 246 107	1 196	91 403 393	2 196 807 788
Russia	1 612 152 492	56 586 173	5 503 754	1 892	37 905 716	1 505 442 957
Australia	1 321 311 762	588 202 029	4 196 538	1 472	19 547 182	608 886 187
India	1 244 257 269	161 046 850	5 163 943	715	59 923 467	994 290 588
Indonesia	800 312 947	4 603 000	1 236 812	396	2 534 265	763 129 800
Saudi Arabia	697 561 533	351 700	875 763	21	17 396 049	673 008 000
Canada	550 100 636	42 768 175	3 763 117	562	38 342 554	465 226 228
Brazil	483 161 516	251 992 408	1 298 526	158	17 867 412	180 394 318
Iran	457 715 465	37 095 990	1 264 636	57	32 065 634	386 333 620
South Africa	291 567 745	57 521 422	1 031 594	374	3 099 445	229 914 910
Kazakhstan	251 229 451	14 561 605	1 189 960	1 143	7 639 912	223 660 931
United Arab Emirates	236 268 370	0	2 650 000	0	6 105 000	227 513 370
Iraq	230 193 350	0	0	0	1 340 000	228 853 350
Qatar	211 554 395	0	637 975	0	3 150 000	207 766 420
Norway	191 993 369	1 359 081	1 424 991	0	250 697	188 958 600
Germany	166 835 929	86 000	341 879	7	29 267 202	137 140 841
Mexico	157 369 503	11 203 424	2 136 112	7 216	19 753 451	124 269 300
Kuwait	151 579 000	0	0	0	1 328 500	150 250 500
Türkiye	148 936 490	13 448 900	472 090	174	46 697 005	86 245 353
Algeria	147 937 200	1 074 000	900	0	3 647 500	143 214 800
Poland	118 831 183	830	421 606	1 317	6 364 120	112 043 310
Colombia	112 754 954	265 846	6 918	88	1 146 773	111 293 850
Nigeria	107 328 470	30 052	116 410	3	91 105	107 090 900
Guinea	103 723 499	197 900	0	86	0	0
Oman	96 545 840	167 800	394 780	0	9 608 760	86 374 500
Malaysia	90 885 331	3 428 224	963 831	2	454 002	85 909 447
Egypt	84 204 274	11 000	250 000	14	2 432 000	81 511 260
Turkmenistan	77 369 780	0	0	0	452 980	76 916 800
United Kingdom	74 896 951	0	38 100	1	5 981 510	68 877 340
Vietnam	72 940 833	1 443 997	80 019	2	2 118 115	65 298 700
Venezuela	66 888 599	4 575 000	8 430	9	690 000	60 845 160
Argentina	65 277 312	0	436 740	923	1 937 049	62 902 600
Libya	63 245 020	0	0	0	429 500	62 815 520
Angola	61 542 932	38 280	0	0	480 372	61 024 280
Azerbaijan	61 270 470	0	36 016	16	623 238	60 611 200
Thailand	56 511 846	118 181	85	0	13 723 267	42 670 313
Uzbekistan	49 860 124	1 211	208 265	324	890 000	48 760 324
Pakistan	49 819 268	350 770	67 581	0	6 188 374	43 142 543
Ukraine	47 959 688	22 906 800	0	0	2 744 946	22 307 942
Bulgaria	40 420 253	0	163 878	35	4 649 260	35 607 080
Czechia	39 447 475	0	0	0	3 733 000	35 714 475
Peru	37 938 854	12 969 583	4 124 748	3 181	3 850 148	16 991 194
Serbia	36 742 985	0	220 628	18	306 969	36 215 370
Mongolia	33 050 408	4 292 556	318 126	92	499 634	27 940 000
Chile	32 040 030	11 105 428	5 465 331	1 305	14 240 506	1 227 460
Romania	31 235 421	5 900	210 274	19	2 439 605	28 579 623
Trinidad and Tobago	24 912 510	0	0	0	0	24 912 510
Bahrain	24 444 911	0	1 600 111	0	128 780	22 716 020
Ecuador	24 254 344	0	115 100	44	500	24 138 700

Spain	21 786 955	415	217 784	59	21 537 387	31 310
Bangladesh	21 694 236	0	0	0	1 832 000	19 862 236
Mozambique	20 935 909	1 387 301	587 731	1	478 930	18 467 363
Laos	20 584 430	1 076 900	65 696	32	2 812 668	16 629 134
Philippines	20 400 092	453 100	62 300	85	773 093	19 111 514
Netherlands	19 862 192	0	574	0	5 893 118	13 968 500
Sweden	19 712 117	18 799 000	512 687	430	400 000	0
Greece	19 172 291	1 700	192 052	35	3 464 892	14 340 293
Israel	18 965 978	0	0	0	3 396 110	15 569 868
Korea, North	18 255 150	1 649 940	55 150	60	250 000	16 300 000
Bosnia-Herzegovina	16 628 873	771 530	153 389	0	1 297 363	13 736 665
Myanmar	16 466 258	216 730	88 980	0	266 748	15 893 800
Bolivia	15 656 532	217 721	632 246	1 267	576 088	14 229 210
Gabon	15 231 301	4 529 000	0	1	0	10 702 300
Guyana	14 643 746	105 800	0	15	0	13 832 300
Congo, Rep.	14 009 077	20 200	27 877	0	0	13 961 000
Estonia	13 967 000	0	0	0	0	13 967 000
Italy	12 886 028	0	0	0	5 735 744	7 150 284
Brunei	12 789 960	0	0	0	0	12 789 960
Morocco	12 264 993	36 347	121 452	200	12 043 000	63 994
Ghana	12 082 622	919 800	55 592	117	300 000	10 033 900
Equatorial Guinea	11 869 330	0	0	0	0	11 869 330
France	10 769 757	0	380 019	0	9 658 038	613 700
New Zealand	9 000 198	2 280 000	335 871	11	55 500	6 328 816
Mauritania	8 548 731	8 465 400	13 313	18	70 000	0
Kosovo	8 262 577	300	8 842	0	0	8 253 435
Belarus	7 770 000	0	0	0	6 000 000	1 770 000
Syria	7 495 840	0	0	0	612 000	6 883 840
Hungary	7 370 640	0	0	0	124 006	7 246 634
Tunisia	7 364 300	140 000	0	0	3 843 300	3 381 000
South Sudan	6 947 860	0	0	0	0	6 947 860
Japan	6 529 277	0	3 169	8	4 429 000	2 097 100
Papua New Guinea	6 418 727	84 539	75 834	154	0	6 258 200
Chad	6 160 600	0	0	0	0	6 160 600
Jordan	6 146 680	0	0	0	6 012 180	134 500
North Macedonia	5 897 993	0	78 925	16	226 717	5 592 335
Korea, South	5 520 318	413 016	9 112	7	4 275 682	822 501
Cameroon	5 217 970	0	62 770	0	0	5 155 200
Tanzania	5 211 661	25 500	3 501	71	839 049	4 302 619
Denmark	5 062 155	0	0	0	770 955	4 291 200
Zimbabwe	4 917 558	685 379	13 708	70	32 981	4 185 420
Austria	4 809 930	1 036 680	0	0	2 755 211	1 018 039
Jamaica	4 458 700	0	0	0	94 000	0
Kyrgyzstan	4 135 170	0	7 525	45	53 000	4 074 600
Congo, D.R.	3 828 547	121 968	2 556 645	32	2	1 149 900
Cote d'Ivoire	3 713 759	399 510	0	49	0	3 314 200
Cuba	3 635 666	50 600	84 700	0	525 166	2 975 200
Yemen	3 410 350	0	0	0	70 000	3 340 350
Sudan	2 917 994	1 450	0	44	384 500	2 532 000
Botswana	2 818 408	0	34 201	31	323 308	2 460 868
Slovenia	2 770 770	0	19 211	0	2 410	2 749 149
Tajikistan	2 671 311	0	202 631	20	49 000	2 419 660
Liberia	2 640 012	2 640 000	0	12	0	0
Zambia	2 333 089	73 688	795 148	3	640 800	823 450
Sierra Leone	2 308 819	1 391 275	0	0	7 200	0
Montenegro	2 213 356	0	52 616	0	0	1 722 535
Finland	2 196 544	437 566	91 735	45	1 667 198	0
Slovakia	2 142 723	0	72 154	0	1 149 725	920 844
Croatia	1 543 001	0	0	0	381 252	1 144 000
Senegal	1 517 657	298 368	0	16	1 216 073	3 200
Albania	1 376 961	384 970	3 470	0	108 239	880 282
Ireland	1 259 448	0	117 445	3	110 000	1 032 000

Namibia	1 251 970	10 600	51 173	12	1 183 568	6 617
Afghanistan	1 146 475	19 100	0	0	462 375	665 000
Portugal	1 138 639	448	237 977	78	900 136	0
Niger	1 015 813	0	0	3	0	1 015 810
Suriname	837 520	0	0	20	0	837 500
Cyprus	774 832	0	0	0	774 832	0
Switzerland	752 665	0	0	0	752 665	0
Iceland	735 394	0	730 394	0	5 000	0
Guatemala	714 725	52 600	12	0	255 313	406 800
Bahamas	633 380	0	0	0	633 380	0
Madagascar	614 108	347 965	2 620	2	263 521	0
Dominican Republic	587 131	29 223	10 845	95	442 810	0
Togo	570 464	0	0	4	570 460	0
Bhutan	561 756	2 230	0	0	400 923	158 603
Georgia	487 374	160 000	6 400	27	126 000	194 947
Eritrea	483 680	0	137 627	53	346 000	0
Kenya	399 022	336 490	0	1	62 531	0
Panama	373 271	0	350 438	91	22 742	0
Taiwan	319 386	0	0	0	240 986	78 400
Armenia	282 677	10 991	78 614	23	193 049	0
Moldova	274 852	0	0	0	270 200	4 652
Sri Lanka	224 952	18 025	0	0	206 927	0
Ethiopia	216 522	515	0	7	216 000	0
Eswatini	215 581	0	0	0	0	215 581
New Caledonia	201 721	201 721	0	0	0	0
Honduras	175 632	0	40 600	32	135 000	0
Christmas Island	128 340	0	0	0	128 340	0
Nauru	97 500	0	0	0	97 500	0
Nicaragua	94 899	0	0	34	94 865	0
Lithuania	91 537	0	0	0	64 497	27 040
Uganda	86 255	61 638	35	0	24 582	0
Malawi	62 756	590	0	0	0	62 166
Cambodia	35 003	0	0	3	35 000	0
El Salvador	30 000	0	0	0	30 000	0
Fiji	28 801	28 800	0	1	0	0
Barbados	26 330	0	0	0	0	26 330
Uruguay	25 256	2 220	0	0	23 036	0
Burkina Faso	22 945	0	22 880	65	0	0
Costa Rica	14 643	0	0	1	14 642	0
Paraguay	10 500	0	0	0	10 500	0
Nepal	9 040	0	0	0	2 113	6 927
Rwanda	5 242	2 105	3 135	2	0	0
Lebanon	3 000	0	0	0	3 000	0
Cape Verde	2 600	0	0	0	2 600	0
Malta	2 000	0	0	0	2 000	0
Belgium	1 219	0	1 219	0	0	0
Mauritius	674	0	0	0	674	0
Benin	500	0	0	0	500	0
Burundi	189	108	80	1	0	0
Mali	75	0	0	75	0	0
Central African Republic	2	0	0	2	0	0
French Guiana	1	0	0	1	0	0
Total	19 068 526 845	1 596 441 379	109 628 836	30 305	815 542 097	16 150 130 258

6.1.8.2 by Value in Million USD (not included Diamonds)

Country	Total (incl. Bauxite)	Iron, Ferro-Alloys	Non-Ferrous Metals	Precious Metals	Industrial Minerals	Mineral Fuels
China	1 437 938	42 951	152 717	24 153	39 980	1 175 314
United States	1 014 955	5 075	17 586	11 561	12 675	968 059
Russia	720 184	15 896	20 974	26 596	18 856	637 607
Saudi Arabia	459 643	43	2 845	717	2 620	453 194
Canada	322 324	9 753	13 475	13 677	30 292	255 127
Australia	301 556	85 339	27 335	18 370	3 228	163 466
India	298 444	39 599	14 669	576	8 582	234 112
Indonesia	248 330	42 137	10 712	5 813	579	187 993
Iran	204 869	6 351	5 499	468	2 238	190 277
South Africa	195 468	115 256	3 243	24 583	1 307	51 078
Brazil	177 947	40 800	6 461	4 875	3 604	121 007
Iraq	165 965	0	0	0	53	165 912
United Arab Emirates	155 464	0	7 168	0	1 093	147 203
Kazakhstan	136 280	21 970	7 087	8 223	1 912	96 930
Mexico	108 657	2 827	11 297	13 503	2 286	78 744
Kuwait	104 381	0	0	0	236	104 145
Norway	98 866	358	3 855	0	39	94 614
Qatar	94 110	0	1 726	0	564	91 821
Algeria	69 386	130	3	8	270	68 975
Chile	64 323	3 225	54 702	2 686	3 304	406
Nigeria	62 385	106	569	176	27	61 507
Oman	51 679	1 799	1 068	0	122	48 690
Colombia	49 637	1 108	61	3 014	100	45 353
Peru	46 822	2 875	27 863	7 775	835	7 474
Angola	43 280	103	0	5	35	43 137
Libya	41 932	0	0	0	34	41 898
Malaysia	39 860	1 384	2 709	106	61	35 594
Egypt	38 632	17	676	794	352	36 793
United Kingdom	37 797	0	103	16	793	36 885
Argentina	36 491	0	2 109	3 013	283	31 086
Venezuela	35 518	554	23	521	112	34 279
Congo, D.R.	33 138	7 482	23 095	1 710	0	851
Türkiye	32 748	17 933	2 168	1 896	5 596	5 076
Azerbaijan	32 445	0	113	198	33	32 100
Turkmenistan	26 870	0	0	0	120	26 749
Uzbekistan	22 263	50	1 500	6 269	526	13 918
Gabon	22 177	14 348	0	62	0	7 767
Vietnam	22 013	1 131	675	66	490	19 499
Poland	21 312	21	3 532	967	842	15 949
Ecuador	19 794	0	1 015	1 005	0	17 774
Philippines	16 804	9 780	553	1 719	128	4 625
Ghana	16 086	2 914	150	6 726	45	6 221
Pakistan	15 226	881	311	0	636	13 397
Bahrain	15 106	0	4 328	0	23	10 754
Germany	14 691	10	932	6	8 079	5 664
Zimbabwe	13 499	7 669	332	4 358	10	1 130
Thailand	12 464	17	3	0	619	11 825
Mongolia	11 934	642	2 531	1 174	150	7 438
Bolivia	11 748	73	2 634	3 941	231	4 869
Guyana	11 474	335	0	876	0	10 236
Ukraine	10 761	4 042	0	0	309	6 410
Congo, Rep.	10 117	2	139	9	0	9 966
Israel	9 079	0	0	0	4 603	4 477
Guinea	8 950	24	0	4 992	0	0
Belarus	8 690	0	0	0	7 460	1 230
Trinidad and Tobago	8 682	0	0	0	0	8 682
Mozambique	8 453	1 220	1 602	73	560	4 997

Zambia	7 847	338	7 015	197	115	182
Papua New Guinea	7 324	1 589	669	2 528	0	2 539
Finland	6 912	5 489	468	615	340	0
Myanmar	6 862	905	1 511	27	26	4 393
Cote d'Ivoire	6 209	1 891	0	2 798	0	1 520
Bangladesh	6 044	0	0	0	275	5 769
Equatorial Guinea	5 827	0	0	0	0	5 827
Romania	5 754	19	645	42	237	4 812
Brunei	5 720	0	0	0	0	5 720
New Caledonia	5 278	5 278	0	0	0	0
Sweden	5 179	2 275	2 072	762	70	0
South Sudan	5 141	0	0	0	0	5 141
Netherlands	5 080	0	2	0	884	4 194
Albania	4 778	4 204	31	0	5	538
Italy	4 768	0	0	0	687	4 082
Korea, North	4 730	275	169	614	69	3 602
Chad	4 559	0	0	0	0	4 559
Tanzania	4 457	3	40	3 306	43	1 064
Sudan	4 348	16	0	2 421	37	1 874
Mali	4 182	0	0	4 182	0	0
Syria	4 160	0	0	0	124	4 036
Jordan	4 003	0	0	0	3 959	44
Morocco	3 902	190	627	150	2 915	19
Serbia	3 861	0	1 849	438	48	1 527
Cuba	3 610	1 383	251	0	82	1 894
New Zealand	3 606	276	909	389	9	2 024
Laos	3 540	130	493	559	1 708	649
Spain	3 533	17	1 422	120	1 965	9
Burkina Faso	3 452	0	80	3 372	0	0
Panama	3 408	0	3 092	313	3	0
Bulgaria	3 282	0	1 187	512	702	881
Cameroon	3 196	0	170	10	0	3 016
Denmark	2 836	0	0	0	153	2 683
France	2 655	0	1 032	0	1 173	446
Yemen	2 407	0	0	0	8	2 399
Tunisia	2 350	17	0	0	571	1 761
Estonia	2 277	0	0	0	0	2 277
Dominican Republic	2 175	755	66	1 341	9	0
Mauritania	2 168	1 024	117	1 025	1	0
Kyrgyzstan	2 113	0	67	1 622	4	421
Czechia	2 008	0	0	0	559	1 448
Iceland	1 976	0	1 976	0	1	0
Tajikistan	1 914	0	818	542	6	548
Madagascar	1 877	1 499	19	116	244	0
Japan	1 867	0	50	285	764	768
Suriname	1 751	0	0	1 131	0	620
Guatemala	1 642	1 359	0	0	8	275
Senegal	1 621	289	0	882	448	1
Namibia	1 553	34	177	434	182	727
Greece	1 387	44	522	124	308	344
Armenia	1 383	454	655	258	15	0
Hungary	1 279	0	0	0	10	1 269
Korea, South	1 185	179	71	12	740	183
Portugal	1 158	15	984	55	104	0
Bosnia-Herzegovina	1 040	93	417	0	175	330
Niger	1 040	0	0	151	0	889
Liberia	998	319	0	678	0	0
Austria	991	155	0	0	304	532
Botswana	941	0	302	47	48	544
Georgia	931	507	56	300	5	63
Eritrea	839	0	570	220	48	0
Nicaragua	692	0	0	684	9	0

Ireland	686	0	390	2	1	293
Croatia	594	0	0	0	18	575
Kenya	533	433	0	33	68	0
Afghanistan	496	207	0	0	133	156
North Macedonia	445	0	260	45	6	134
Slovakia	411	0	195	23	156	37
Ethiopia	384	23	0	342	18	0
Togo	360	0	0	208	152	0
Sierra Leone	352	294	0	9	15	0
Rwanda	333	119	98	116	0	0
Honduras	266	0	125	132	10	0
Kosovo	230	8	24	0	0	198
Montenegro	206	0	148	0	0	41
Cambodia	197	0	0	192	5	0
Jamaica	168	0	0	0	2	0
Slovenia	119	0	52	0	0	67
Bahamas	95	0	0	0	95	0
Central African Republic	87	0	0	87	0	0
Switzerland	67	0	0	0	67	0
Taiwan	64	0	0	0	41	23
Burundi	60	4	3	53	0	0
French Guiana	53	0	0	53	0	0
Costa Rica	52	0	0	46	6	0
Sri Lanka	51	16	0	0	35	0
Eswatini	48	0	0	0	0	48
Bhutan	40	0	0	0	5	35
Fiji	38	3	0	34	0	0
Christmas Island	34	0	0	0	34	0
Lithuania	32	0	0	0	12	20
Nauru	26	0	0	0	26	0
Malawi	25	0	0	11	0	14
Uganda	18	9	1	0	8	0
Cyprus	16	0	0	0	16	0
Barbados	16	0	0	0	0	16
Belgium	12	0	12	0	0	0
Solomon Islands	7	0	0	7	0	0
Moldova	6	0	0	0	3	3
El Salvador	5	0	0	0	5	0
Uruguay	3	0	0	0	3	0
Nepal	2	0	0	0	1	2
Paraguay	1	0	0	0	1	0
Total	7 509 892	540 368	474 054	241 932	188 072	6 050 389

6.2 World Production of Mineral Raw Materials, by Mineral Raw Materials

6.2.1 Iron and Ferro-Alloy Metals

Commodity	2018	2019	2020	2021	2022	Change 18/22 in %
	in metr. t					
Iron	1 524 626 218	1 552 451 620	1 524 700 263	1 591 934 663	1 547 952 593	1.53
Chromium	15 188 744	15 779 216	11 969 552	14 721 408	15 259 786	0.47
Cobalt	158 317	124 425	129 651	134 692	166 030	4.87
Manganese	19 609 756	21 164 890	19 618 004	20 513 388	20 284 488	3.44
Molybdenum	270 100	277 180	284 890	271 138	265 460	-1.72
Nickel	2 377 719	2 690 477	2 490 804	2 852 212	3 248 896	36.64
Niobium	109 023	134 961	93 508	121 909	118 209	8.43
Tantalum	2 037	1 645	1 705	1 760	1 726	-15.27
Titanium	7 461 118	7 994 529	8 504 299	8 564 701	8 942 994	19.86
Tungsten	84 090	88 859	85 051	88 794	85 926	2.18
Vanadium	84 947	98 723	105 776	110 269	115 271	35.70

6.2.2 Non-Ferrous Metals

Commodity	2018	2019	2020	2021	2022	Change 18/22 in %
	in metr. t					
Aluminium	64 443 051	63 230 201	65 404 146	67 049 920	68 825 618	6.80
Antimony	145 002	134 659	119 911	91 920	83 031	-42.74
Arsenic	51 737	55 243	52 298	54 695	56 404	9.02
Bauxite	337 381 921	363 687 031	379 030 232	379 388 070	396 753 970	17.60
Beryllium	6 111	5 927	6 240	6 561	6 803	11.32
Bismuth	10 886	9 033	9 513	11 117	10 276	-5.60
Cadmium	27 173	25 089	25 564	25 529	23 003	-15.35
Copper	20 675 762	20 633 412	21 074 917	21 447 064	22 225 410	7.49
Gallium	323	374	304	431	616	90.71
Germanium	106	95	96	142	139	31.13
Indium	831	918	943	916	1 008	21.30
Lead	4 623 263	4 906 459	4 727 874	4 600 155	4 693 950	1.53
Lithium	198 967	192 108	187 000	232 576	345 829	73.81
Mercury	2 864	2 324	2 308	1 810	1 015	-64.56
Rare Earths	182 193	203 365	229 162	269 003	296 837	62.92
Rhenium	47	44	38	42	54	14.89
Selenium	3 196	3 533	3 279	3 733	3 735	16.86
Tellurium	649	529	459	742	681	4.93
Tin	316 929	294 333	277 997	263 576	292 351	-7.76
Zinc	12 252 248	12 988 998	12 669 413	12 843 283	12 762 076	4.16

6.2.3 Precious Metals

Commodity	2018	2019	2020	2021	2022	Change 18/22 in %
	in kg					
Gold	3 366 881	3 313 010	3 202 464	3 214 975	3 323 144	-1.30
Palladium	223 387	224 007	189 369	212 773	202 012	-9.57
Platinum	189 221	186 805	162 783	189 389	183 022	-3.28
Rhodium	22 938	23 734	20 640	24 409	22 731	-0.90
Silver	27 677 375	28 101 057	26 517 217	26 609 813	26 584 338	-3.95

6.2.4 Industrial Minerals

Commodity	2018	2019	2020	2021	2022	Change 18/22 in %
	in metr. t (Diamonds in ct)					
Asbestos	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065	1.68
Baryte	9 627 288	9 510 043	7 841 612	8 358 423	8 278 342	-14.01
Bentonite	21 816 554	21 808 546	18 924 776	18 831 902	18 643 439	-14.54
Boron	4 492 429	4 293 276	3 601 490	4 922 770	5 346 091	19.00
Diam. (Gem)	83 476 428	79 229 838	62 236 568	74 591 091	79 406 684	-4.88
Diam. (Ind)	63 943 594	57 116 250	45 274 222	43 169 910	43 544 788	-31.90
Diatomite	2 310 207	2 299 083	2 198 777	2 496 243	2 495 769	8.03
Feldspar	35 049 802	31 001 138	29 786 115	36 028 557	39 519 883	12.75
Fluorspar	6 952 064	7 704 798	7 802 895	8 445 583	9 236 417	32.86
Graphite	1 562 542	1 605 838	1 388 356	1 662 844	1 727 486	10.56
Gypsum	167 914 389	160 425 685	166 592 509	175 565 537	176 988 399	5.40
Kaolin	45 412 692	44 272 825	42 703 696	44 395 375	45 102 316	-0.68
Magnesite	28 946 437	27 338 804	28 254 847	28 053 958	26 695 729	-7.78
Perlite	2 720 771	2 831 336	3 156 181	3 839 560	3 161 142	16.19
Phosphates	68 816 090	68 617 150	67 491 740	72 449 210	70 787 780	2.87
Potash	43 443 845	42 215 857	44 739 197	46 333 692	41 957 518	-3.42
Salt	289 866 124	291 324 072	267 348 730	269 444 228	271 885 414	-6.20
Sulfur	81 705 154	81 485 409	78 799 437	77 998 083	82 768 889	1.30
Talc	8 328 009	7 797 170	6 856 317	7 809 434	7 800 585	-6.33
Vermiculite	438 951	424 421	416 638	456 936	502 825	14.55
Zircon	1 607 468	1 417 320	1 249 168	1 457 826	1 385 984	-13.78

6.2.5 Mineral Fuels

Commodity	2018	2019	2020	2021	2022	Change 18/22 in %
	in metr. t (Nat. Gas in Mio m ³)					
Steam Coal	5 839 294 209	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262	13.38
Coking Coal	1 037 804 421	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724	0.39
Hard Coal (Tot)	6 877 098 630	7 016 240 599	6 763 520 451	7 105 707 459	7 662 374 986	11.42
Lignite	800 482 271	734 488 961	637 327 140	684 793 315	716 390 598	-10.51
Coal (Tot)	7 677 580 901	7 750 729 560	7 400 847 591	7 790 500 774	8 378 765 584	9.13
Petroleum	4 494 932 415	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061	-1.45
Nat. Gas	3 950 300	4 076 243	3 960 928	4 125 716	4 158 384	5.27
Oil Sands*	176 864 600	176 766 200	167 943 300	182 022 400	197 386 500	11.60
Oil Shales	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441	-35.51
Uranium	64 083	64 278	55 718	55 981	55 972	-12.66

*Oil Sands as part of Petroleum

6.3 World Production of Mineral Raw Materials, by Development Status, Income, Political Stability of the Producer Countries (according to World Bank), Country Groups and Economic Blocks

6.3.1 Iron and Ferro-Alloy Metals

Iron (Fe-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	645 682 451	654 833 302	653 339 889	660 531 873	753 975 659
Developing C.	751 877 577	757 893 028	728 659 154	787 738 070	780 270 934
Least Developed C.	10 450 040	11 396 940	12 222 140	15 099 120	13 706 000
Transition C.	116 616 150	128 328 350	130 479 080	128 565 600	0
Total	1 524 626 218	1 552 451 620	1 524 700 263	1 591 934 663	1 547 952 593
Annual per capita income:					
High Income	655 137 239	663 762 546	663 852 155	672 033 677	686 154 850
Upper Middle Income	680 475 159	666 073 384	626 443 758	647 909 666	621 623 893
Lower Middle Income	183 570 500	217 741 340	229 417 140	265 658 930	234 593 860
Low Income	5 443 320	4 874 350	4 987 210	6 332 390	5 579 990
Total	1 524 626 218	1 552 451 620	1 524 700 263	1 591 934 663	1 547 952 593
Political stability:					
Stable	2 100 000	1 915 000	2 260 000	2 200 000	2 280 000
Fair	661 842 259	672 988 446	670 546 835	679 936 707	692 014 940
Unstable	785 410 419	790 510 834	816 854 028	873 137 996	789 575 183
Extreme Unstable	75 273 540	87 037 340	35 039 400	36 659 960	64 082 470
Total	1 524 626 218	1 552 451 620	1 524 700 263	1 591 934 663	1 547 952 593
Country groups and economic blocks:					
ACP	58 663 800	58 238 260	47 845 110	60 662 150	54 099 100
ASEAN	6 125 390	7 956 930	9 175 030	10 577 140	8 440 320
BRICS	738 946 625	739 331 932	698 788 586	746 720 882	719 822 747
CPE	218 165 920	229 635 230	234 342 660	224 370 560	219 943 140
EC	19 385 032	20 498 770	21 181 540	21 147 830	19 920 770
EFTA	1 129 900	1 069 700	1 014 700	1 057 500	1 105 900
G7	63 448 700	64 098 900	61 190 500	65 730 400	66 846 900
MERCOSUR	289 678 235	257 404 732	247 049 876	269 442 192	255 571 067
NAFTA/USMCA	71 778 610	74 336 070	71 869 600	79 073 500	77 724 200
OECD	672 814 129	682 626 006	687 792 015	695 254 607	708 916 300
SADC	48 287 700	47 074 610	36 207 780	47 744 060	41 446 270

Chromium (Cr₂O₃ - Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	483 400	504 010	471 410	472 890	978 010
Developing C.	11 751 084	12 238 456	9 107 992	11 922 158	14 251 826
Least Developed C.	76 460	45 750	12 600	15 300	29 950
Transition C.	2 877 800	2 991 000	2 377 550	2 311 060	0
Total	15 188 744	15 779 216	11 969 552	14 721 408	15 259 786
Annual per capita income:					
High Income	837 030	797 050	654 130	668 430	556 210
Upper Middle Income	11 909 064	12 261 606	9 239 552	11 468 688	12 073 476
Lower Middle Income	2 379 150	2 674 810	2 063 270	2 568 990	2 600 150
Low Income	63 500	45 750	12 600	15 300	29 950
Total	15 188 744	15 779 216	11 969 552	14 721 408	15 259 786
Political stability:					
Stable	0	0	0	0	0
Fair	1 169 630	1 181 250	880 780	919 130	943 610
Unstable	12 697 174	12 901 116	10 930 362	13 651 908	14 086 786
Extreme Unstable	1 321 940	1 696 850	158 410	150 370	229 390
Total	15 188 744	15 779 216	11 969 552	14 721 408	15 259 786
Country groups and economic blocks:					
ACP	8 052 550	8 227 090	6 128 020	8 322 230	8 637 960
ASEAN	20 260	14 570	14 040	12 290	59 000
BRICS	9 802 324	9 618 106	7 220 902	9 805 388	10 006 476
CPE	26 830	54 250	68 440	76 120	69 050
EC	483 400	504 010	471 410	472 890	391 410
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	219 724	199 256	226 762	248 108	218 626
NAFTA/USMCA	0	0	0	0	0
OECD	1 630 000	2 032 710	1 558 810	1 700 790	1 851 710
SADC	7 980 800	8 141 630	6 057 960	8 256 500	8 584 860

Cobalt

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	12 343	12 734	11 854	10 919	19 591
Developing C.	20 908	19 459	20 357	20 404	27 388
Least Developed C.	116 366	82 832	87 740	95 369	119 051
Transition C.	8 700	9 400	9 700	8 000	0
Total	158 317	124 425	129 651	134 692	166 030

Annual per capita income:

High Income	14 447	14 437	14 051	12 419	12 361
Upper Middle Income	18 070	17 692	16 947	16 555	26 300
Lower Middle Income	11 200	10 735	11 229	10 349	8 570
Low Income	114 600	81 561	87 424	95 369	118 799
Total	158 317	124 425	129 651	134 692	166 030

Political stability:

Stable	0	0	0	0	0
Fair	19 109	16 534	15 754	14 966	14 443
Unstable	27 236	29 112	27 306	26 715	36 216
Extreme Unstable	111 972	78 779	86 591	93 011	115 371
Total	158 317	124 425	129 651	134 692	166 030

Country groups and economic blocks:

ACP	126 051	90 976	96 434	102 777	126 129
ASEAN	3 950	4 100	4 600	5 300	13 000
BRICS	12 811	13 427	12 797	10 355	11 000
CPE	8 100	6 800	6 100	5 800	5 350
EC	1 377	1 454	1 559	1 084	1 235
EFTA	0	0	0	0	0
G7	6 088	5 539	4 669	4 603	3 563
MERCOSUR	4	0	0	0	0
NAFTA/USMCA	6 088	5 539	4 669	4 603	3 563
OECD	12 602	12 849	12 104	13 319	12 691
SADC	117 776	84 261	89 593	96 022	119 542

Manganese

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	3 519 470	3 268 490	3 364 480	3 284 060	3 478 050
Developing C.	14 642 196	16 357 470	14 878 544	15 921 328	16 478 698
Least Developed C.	257 990	445 630	281 580	288 700	327 740
Transition C.	1 190 100	1 093 300	1 093 400	1 019 300	0
Total	19 609 756	21 164 890	19 618 004	20 513 388	20 284 488

Annual per capita income:

High Income	3 525 490	3 280 990	3 359 230	3 280 760	3 191 650
Upper Middle Income	12 362 036	13 681 680	12 974 184	13 754 608	13 892 778
Lower Middle Income	3 716 870	4 199 440	3 283 590	3 420 160	3 194 680
Low Income	5 360	2 780	1 000	57 860	5 380
Total	19 609 756	21 164 890	19 618 004	20 513 388	20 284 488

Political stability:

Stable	0	0	0	0	0
Fair	4 222 680	5 385 640	4 404 980	4 569 460	8 119 360
Unstable	14 389 091	14 570 040	14 888 414	15 620 458	11 490 748
Extreme Unstable	997 985	1 209 210	324 610	323 470	674 380
Total	19 609 756	21 164 890	19 618 004	20 513 388	20 284 488

Country groups and economic blocks:

ACP	10 244 170	11 643 290	10 987 658	12 789 726	13 255 540
ASEAN	878 860	1 036 215	764 610	673 890	675 140
BRICS	9 060 855	10 183 974	9 042 629	9 438 652	9 351 264
CPE	1 295 100	1 456 000	1 339 100	1 047 000	974 000
EC	5 150	9 290	8 450	6 600	5 900
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	1 310 825	1 452 034	932 721	597 456	529 664
NAFTA/USMCA	209 023	232 957	258 045	225 703	220 745
OECD	3 753 243	3 532 057	4 179 885	3 918 103	3 712 555
SADC	5 693 160	6 484 810	6 062 228	7 187 206	7 231 370

Molybdenum

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	46 448	47 986	55 080	43 380	37 813
Developing C.	215 069	219 010	215 050	213 294	227 647
Least Developed C.	0	0	0	0	0
Transition C.	8 583	10 184	14 760	14 464	0
Total	270 100	277 180	284 890	271 138	265 460
Annual per capita income:					
High Income	107 154	103 011	114 872	92 807	81 740
Upper Middle Income	159 056	170 349	162 732	169 824	173 163
Lower Middle Income	3 330	3 290	7 186	8 407	9 937
Low Income	560	530	100	100	620
Total	270 100	277 180	284 890	271 138	265 460
Political stability:					
Stable	0	0	0	0	0
Fair	110 098	105 501	117 762	95 782	84 520
Unstable	155 862	167 519	163 592	171 206	174 960
Extreme Unstable	4 140	4 160	3 536	4 150	5 980
Total	270 100	277 180	284 890	271 138	265 460

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	100 682	106 659	97 677	104 291	109 250
CPE	101 560	107 690	98 960	105 675	110 950
EC	0	0	0	0	0
EFTA	0	1	1	1	1
G7	46 448	47 985	55 079	42 971	35 746
MERCOSUR	364	0	0	0	0
NAFTA/USMCA	66 713	69 679	75 656	62 865	55 075
OECD	127 869	124 705	135 449	112 701	101 069
SADC	0	0	0	0	0

Nickel

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	419 871	404 932	405 787	376 444	585 284
Developing C.	1 659 104	1 994 989	1 805 439	2 213 561	2 614 329
Least Developed C.	50 954	50 436	34 668	51 057	49 283
Transition C.	247 790	240 120	244 910	211 150	0
Total	2 377 719	2 690 477	2 490 804	2 852 212	3 248 896

Annual per capita income:

High Income	636 096	613 117	605 162	562 728	563 365
Upper Middle Income	628 473	1 643 559	634 862	604 454	2 214 719
Lower Middle Income	1 079 946	400 065	1 240 872	1 652 073	435 075
Low Income	33 204	33 736	9 908	32 957	35 737
Total	2 377 719	2 690 477	2 490 804	2 852 212	3 248 896

Political stability:

Stable	0	0	0	0	0
Fair	492 285	481 342	477 552	456 025	441 153
Unstable	1 854 124	2 190 195	1 991 252	2 378 087	2 798 143
Extreme Unstable	31 310	18 940	22 000	18 100	9 600
Total	2 377 719	2 690 477	2 490 804	2 852 212	3 248 896

Country groups and economic blocks:

ACP	210 158	213 038	185 940	210 889	217 578
ASEAN	1 014 316	1 373 725	1 167 611	1 577 659	1 948 200
BRICS	446 253	437 678	445 053	414 534	438 270
CPE	147 963	149 674	151 048	148 600	152 400
EC	64 212	56 525	51 409	47 673	47 451
EFTA	170	135	120	350	190
G7	195 467	189 521	184 914	177 545	160 766
MERCOSUR	65 254	55 761	68 097	75 988	79 370
NAFTA/USMCA	195 467	189 521	184 914	177 545	160 766
OECD	433 431	409 672	482 301	452 855	447 380
SADC	94 290	96 597	64 056	81 016	83 443

Niobium (Nb₂O₅-Content)

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	7 700	6 800	6 400	7 650	7 349
Developing C.	99 755	126 831	85 682	112 925	110 100
Least Developed C.	899	671	809	686	760
Transition C.	669	659	617	648	0
Total	109 023	134 961	93 508	121 909	118 209
Annual per capita income:					
High Income	7 700	6 800	6 400	7 650	6 800
Upper Middle Income	100 243	127 320	86 219	113 433	110 589
Lower Middle Income	181	170	80	140	60
Low Income	899	671	809	686	760
Total	109 023	134 961	93 508	121 909	118 209
Political stability:					
Stable	0	0	0	0	0
Fair	7 945	7 005	6 560	7 810	6 995
Unstable	100 257	127 334	86 271	113 442	110 592
Extreme Unstable	821	622	677	657	622
Total	109 023	134 961	93 508	121 909	118 209
Country groups and economic blocks:					
ACP	1 080	841	889	826	820
ASEAN	0	0	0	0	0
BRICS	100 243	127 320	86 219	113 433	110 589
CPE	20	20	30	30	40
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	7 700	6 800	6 400	7 650	6 800
MERCOSUR	99 554	126 641	85 572	112 755	110 000
NAFTA/USMCA	7 700	6 800	6 400	7 650	6 800
OECD	7 700	6 800	6 400	7 650	6 800
SADC	619	444	582	489	537

Tantalum (Ta₂O₅-Content)

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	40	98	66	89	83
Developing C.	720	607	569	692	589
Least Developed C.	1 233	908	1 010	940	1 054
Transition C.	44	32	60	39	0
Total	2 037	1 645	1 705	1 760	1 726

Annual per capita income:

High Income	40	98	66	89	59
Upper Middle Income	516	509	541	570	470
Lower Middle Income	248	130	88	161	143
Low Income	1 233	908	1 010	940	1 054
Total	2 037	1 645	1 705	1 760	1 726

Political stability:

Stable	0	0	0	0	0
Fair	447	415	307	335	363
Unstable	604	592	577	606	499
Extreme Unstable	986	638	821	819	864
Total	2 037	1 645	1 705	1 760	1 726

Country groups and economic blocks:

ACP	1 463	1 028	1 090	1 100	1 194
ASEAN	27	2	1	1	4
BRICS	489	507	540	569	466
CPE	100	135	180	180	92
EC	0	18	16	19	19
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	345	340	300	350	350
NAFTA/USMCA	0	0	0	0	0
OECD	40	98	66	89	59
SADC	710	519	694	580	634

Titanium (TiO₂-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 771 620	1 641 745	1 640 580	1 637 130	1 873 440
Developing C.	3 752 908	4 239 824	4 712 719	4 474 181	4 936 306
Least Developed C.	1 349 640	1 485 310	1 582 270	1 941 290	2 133 248
Transition C.	586 950	627 650	568 730	512 100	0
Total	7 461 118	7 994 529	8 504 299	8 564 701	8 942 994
Annual per capita income:					
High Income	1 888 870	1 804 535	1 798 920	1 637 130	1 690 240
Upper Middle Income	3 068 558	3 534 154	3 967 859	3 875 236	4 300 241
Lower Middle Income	1 441 990	1 451 560	1 446 990	1 421 355	1 104 263
Low Income	1 061 700	1 204 280	1 290 530	1 630 980	1 848 250
Total	7 461 118	7 994 529	8 504 299	8 564 701	8 942 994

Political stability:

Stable	0	0	0	0	0
Fair	2 023 720	2 205 175	1 805 200	1 650 600	1 711 420
Unstable	4 882 273	5 214 294	5 820 099	5 780 441	5 644 804
Extreme Unstable	555 125	575 060	879 000	1 133 660	1 586 770
Total	7 461 118	7 994 529	8 504 299	8 564 701	8 942 994

Country groups and economic blocks:

ACP	2 600 790	2 811 970	2 788 680	3 095 500	3 458 538
ASEAN	134 873	119 674	146 124	169 506	193 561
BRICS	3 091 790	3 661 350	4 132 540	4 010 650	4 404 200
CPE	2 054 250	2 419 580	3 051 560	3 012 650	3 316 380
EC	0	0	0	0	0
EFTA	176 370	211 280	229 780	295 610	252 990
G7	720 000	650 000	580 000	540 000	740 000
MERCOSUR	73 090	81 650	61 940	75 100	53 000
NAFTA/USMCA	720 000	650 000	580 000	540 000	740 000
OECD	1 895 045	1 810 665	1 805 375	1 644 210	1 697 100
SADC	1 827 300	2 103 100	2 104 600	2 381 600	2 737 000

Tungsten (W-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	3 408	1 854	1 787	2 263	3 934
Developing C.	76 625	82 725	79 611	82 519	80 067
Least Developed C.	1 726	1 747	1 359	1 844	1 925
Transition C.	2 331	2 533	2 294	2 168	0
Total	84 090	88 859	85 051	88 794	85 926
Annual per capita income:					
High Income	3 408	1 854	1 787	2 263	1 934
Upper Middle Income	70 690	77 726	74 075	71 162	68 032
Lower Middle Income	7 046	6 532	7 500	13 515	12 545
Low Income	2 946	2 747	1 689	1 854	3 415
Total	84 090	88 859	85 051	88 794	85 926
Political stability:					
Stable	0	0	0	0	0
Fair	9 874	8 160	2 812	3 928	3 780
Unstable	73 692	80 144	81 859	84 568	81 917
Extreme Unstable	524	555	380	298	229
Total	84 090	88 859	85 051	88 794	85 926

Country groups and economic blocks:

ACP	1 618	1 669	1 327	1 836	1 965
ASEAN	5 136	4 968	6 107	11 833	10 907
BRICS	70 580	77 689	73 986	71 104	67 922
CPE	74 721	81 266	77 865	80 565	78 193
EC	3 398	1 824	1 687	2 103	1 754
EFTA	0	0	0	0	0
G7	890	0	0	0	0
MERCOSUR	346	306	262	301	302
NAFTA/USMCA	45	15	32	0	50
OECD	3 453	1 869	1 819	2 263	1 984
SADC	176	297	146	122	165

Vanadium (V-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
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Development status:

Developed C.	0	460	17	0	21 000
Developing C.	67 895	79 883	86 226	90 211	94 271
Least Developed C.	0	0	0	0	0
Transition C.	17 052	18 380	19 533	20 058	0
Total	84 947	98 723	105 776	110 269	115 271

Annual per capita income:

High Income	0	460	17	0	0
Upper Middle Income	84 505	98 187	105 659	110 169	115 221
Lower Middle Income	442	76	100	100	50
Low Income	0	0	0	0	0
Total	84 947	98 723	105 776	110 269	115 271

Political stability:

Stable	0	0	0	0	0
Fair	0	460	17	0	0
Unstable	84 947	98 263	105 759	110 269	115 271
Extreme Unstable	0	0	0	0	0
Total	84 947	98 723	105 776	110 269	115 271

Country groups and economic blocks:

ACP	7 691	8 062	8 584	8 799	8 872
ASEAN	0	0	0	0	0
BRICS	84 947	98 263	105 759	110 269	115 271
CPE	53 200	64 700	69 960	74 100	78 100
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	460	17	0	0
MERCOSUR	6 562	7 045	7 582	7 212	7 249
NAFTA/USMCA	0	460	17	0	0
OECD	0	460	17	0	0
SADC	7 691	8 062	8 584	8 799	8 872

6.3.2 Non-Ferrous Metals

Aluminium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	9 966 544	9 986 053	10 117 338	10 064 754	13 436 143
Developing C.	49 560 121	48 282 385	50 371 450	52 005 898	54 802 275
Least Developed C.	571 125	564 756	571 125	564 756	587 200
Transition C.	4 345 261	4 397 007	4 344 233	4 414 512	0
Total	64 443 051	63 230 201	65 404 146	67 049 920	68 825 618
Annual per capita income:					
High Income	15 106 110	15 723 534	15 723 864	15 744 943	15 107 803
Upper Middle Income	44 378 662	42 803 164	44 394 140	45 992 590	48 015 702
Lower Middle Income	4 291 354	4 037 947	4 715 017	4 747 631	5 114 913
Low Income	666 925	665 556	571 125	564 756	587 200
Total	64 443 051	63 230 201	65 404 146	67 049 920	68 825 618
Political stability:					
Stable	1 072 156	1 034 097	1 025 303	1 028 992	1 066 265
Fair	13 769 926	13 389 301	13 643 630	13 921 550	12 816 468
Unstable	49 092 278	48 391 587	49 667 967	50 905 267	53 672 934
Extreme Unstable	508 691	415 216	1 067 246	1 194 111	1 269 951
Total	64 443 051	63 230 201	65 404 146	67 049 920	68 825 618
Country groups and economic blocks:					
ACP	1 393 892	1 394 614	1 387 341	1 365 295	1 423 562
ASEAN	979 306	993 457	1 200 789	1 101 577	1 183 774
BRICS	45 674 181	44 258 289	46 030 537	47 505 700	49 760 200
CPE	36 831 000	35 361 600	37 080 400	38 503 200	40 144 300
EC	2 204 107	2 090 562	2 024 431	1 964 929	1 295 260
EFTA	2 026 478	1 994 616	2 031 319	2 126 040	2 154 965
G7	4 784 341	4 928 987	5 127 083	5 021 314	4 665 448
MERCOSUR	1 163 300	1 098 634	1 004 900	1 148 279	1 219 368
NAFTA/USMCA	3 821 041	3 979 803	4 145 327	4 044 550	3 906 236
OECD	9 757 025	9 783 827	9 925 631	9 850 555	9 128 524
SADC	1 285 125	1 281 756	1 288 125	1 278 756	1 305 200

Antimony

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	2 178	2 034	3 905	3 382	6 685
Developing C.	79 306	76 164	67 784	51 568	72 866
Least Developed C.	2 970	4 870	6 600	3 110	3 480
Transition C.	60 548	51 591	41 622	33 860	0
Total	145 002	134 659	119 911	91 920	83 031
Annual per capita income:					
High Income	2 178	2 034	3 905	3 382	2 294
Upper Middle Income	106 889	94 677	81 283	55 853	55 142
Lower Middle Income	7 045	8 048	34 723	32 685	25 595
Low Income	28 890	29 900	0	0	0
Total	145 002	134 659	119 911	91 920	83 031
Political stability:					
Stable	0	0	0	0	0
Fair	2 753	2 500	3 905	3 622	2 544
Unstable	134 374	123 214	108 324	83 435	73 367
Extreme Unstable	7 875	8 945	7 682	4 863	7 120
Total	145 002	134 659	119 911	91 920	83 031
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	3 215	5 266	6 912	3 378	3 732
BRICS	101 224	90 093	78 527	51 230	43 391
CPE	70 641	68 818	61 307	41 748	39 252
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	5	2	2	2	2
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	305	291	138	415	634
OECD	6 048	6 138	6 611	8 005	13 566
SADC	0	0	0	0	0

Arsenic

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	1 045	1 045	1 040	1 040	1 540
Developing C.	50 192	54 096	50 758	52 855	54 864
Least Developed C.	0	0	0	0	0
Transition C.	500	102	500	800	0
Total	51 737	55 243	52 298	54 695	56 404

Annual per capita income:

High Income	1 045	1 045	1 040	1 040	1 040
Upper Middle Income	44 876	49 017	43 514	46 672	49 879
Lower Middle Income	5 816	5 181	7 744	6 983	5 485
Low Income	0	0	0	0	0
Total	51 737	55 243	52 298	54 695	56 404

Political stability:

Stable	0	0	0	0	0
Fair	1 045	1 045	1 040	40	40
Unstable	50 692	54 198	51 258	54 655	56 364
Extreme Unstable	0	0	0	0	0
Total	51 737	55 243	52 298	54 695	56 404

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	24 500	24 102	24 500	24 800	24 500
CPE	24 000	24 000	24 000	24 000	24 000
EC	1 000	1 000	1 000	1 000	1 000
EFTA	0	0	0	0	0
G7	45	45	40	40	40
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	1 045	1 045	1 040	1 040	1 040
SADC	0	0	0	0	0

Bauxite (crude ore)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	98 061 428	109 092 037	105 209 462	104 651 103	109 620 133
Developing C.	161 762 598	168 718 283	171 721 695	173 718 609	182 642 476
Least Developed C.	63 168 287	73 299 243	89 982 714	88 881 229	104 491 361
Transition C.	14 389 608	12 577 468	12 116 361	12 137 129	0
Total	337 381 921	363 687 031	379 030 232	379 388 070	396 753 970

Annual per capita income:

High Income	102 967 428	114 219 037	110 437 389	110 300 103	108 435 633
Upper Middle Income	131 806 546	149 434 254	126 181 933	126 010 694	154 196 529
Lower Middle Income	41 085 860	27 968 527	53 296 081	54 234 186	133 196 881
Low Income	61 522 087	72 065 213	89 114 829	88 843 087	924 927
Total	337 381 921	363 687 031	379 030 232	379 388 070	396 753 970

Political stability:

Stable	0	0	0	0	0
Fair	114 457 890	125 847 524	115 363 767	111 559 262	107 104 316
Unstable	221 142 021	234 612 303	262 516 602	266 817 511	287 839 543
Extreme Unstable	1 782 010	3 227 204	1 149 863	1 011 297	1 810 111
Total	337 381 921	363 687 031	379 030 232	379 388 070	396 753 970

Country groups and economic blocks:

ACP	76 228 355	85 365 161	99 580 877	96 360 263	110 439 063
ASEAN	15 183 235	21 193 301	30 064 610	29 928 764	32 938 499
BRICS	133 874 619	133 727 827	129 925 348	133 408 547	136 452 400
CPE	74 320 700	77 023 700	73 610 000	72 500 000	78 300 000
EC	1 714 135	1 514 225	1 566 211	1 384 699	1 309 068
EFTA	0	0	0	0	0
G7	538 500	275 660	139 936	142 764	130 580
MERCOSUR	32 469 000	31 987 900	32 897 800	35 971 600	32 378 694
NAFTA/USMCA	399 700	154 900	16 440	0	12 580
OECD	98 727 790	111 333 175	107 876 948	107 451 474	103 896 700
SADC	9 919	8 024	32 486	45 994	55 504

Beryllium (concentrates)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	4 170	4 050	4 160	4 380	4 330
Developing C.	1 324	1 760	1 762	1 760	1 860
Least Developed C.	617	117	318	421	613
Transition C.	0	0	0	0	0
Total	6 111	5 927	6 240	6 561	6 803
Annual per capita income:					
High Income	4 170	4 050	4 160	4 380	4 330
Upper Middle Income	1 289	1 759	1 760	1 760	1 860
Lower Middle Income	42	8	4	0	7
Low Income	610	110	316	421	606
Total	6 111	5 927	6 240	6 561	6 803
Political stability:					
Stable	0	0	0	0	0
Fair	4 207	4 070	4 180	4 406	4 357
Unstable	1 869	1 856	1 978	1 825	1 915
Extreme Unstable	35	1	82	330	531
Total	6 111	5 927	6 240	6 561	6 803

Country groups and economic blocks:

ACP	652	118	320	421	613
ASEAN	0	0	0	0	0
BRICS	1 289	1 759	1 760	1 760	1 860
CPE	1 250	1 750	1 750	1 750	1 850
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4 170	4 050	4 160	4 380	4 330
MERCOSUR	39	9	10	10	10
NAFTA/USMCA	4 170	4 050	4 160	4 380	4 330
OECD	4 170	4 050	4 160	4 380	4 330
SADC	563	82	112	366	558

Bismuth

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	576	544	574	478	480
Developing C.	10 136	8 241	8 622	10 342	9 796
Least Developed C.	0	0	0	0	0
Transition C.	174	248	317	297	0
Total	10 886	9 033	9 513	11 117	10 276

Annual per capita income:

High Income	576	544	574	478	480
Upper Middle Income	7 632	7 570	7 889	8 543	7 852
Lower Middle Income	2 678	919	1 050	2 096	1 944
Low Income	0	0	0	0	0
Total	10 886	9 033	9 513	11 117	10 276

Political stability:

Stable	0	0	0	0	0
Fair	3 215	1 461	574	478	480
Unstable	7 671	7 572	8 939	10 639	9 796
Extreme Unstable	0	0	0	0	0
Total	10 886	9 033	9 513	11 117	10 276

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	2 639	917	993	2 067	1 938
BRICS	7 015	7 046	7 545	8 045	7 500
CPE	9 639	7 917	8 493	10 067	9 438
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	576	544	574	478	480
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	318	255	4	0	0
OECD	889	795	574	478	480
SADC	0	0	0	0	0

Cadmium

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	6 790	6 285	6 789	10 672	10 999
Developing C.	18 095	16 354	15 825	11 887	12 004
Least Developed C.	0	0	0	0	0
Transition C.	2 288	2 450	2 950	2 970	0
Total	27 173	25 089	25 564	25 529	23 003
Annual per capita income:					
High Income	11 577	9 920	10 578	10 329	9 684
Upper Middle Income	15 159	14 769	14 386	14 580	12 669
Lower Middle Income	237	250	450	470	500
Low Income	200	150	150	150	150
Total	27 173	25 089	25 564	25 529	23 003
Political stability:					
Stable	0	0	0	0	0
Fair	11 964	10 235	10 889	10 672	9 999
Unstable	15 209	14 854	14 675	14 857	13 004
Extreme Unstable	0	0	0	0	0
Total	27 173	25 089	25 564	25 529	23 003
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	11 850	11 450	11 100	11 050	9 720
CPE	10 549	10 150	10 150	10 150	8 850
EC	2 098	1 994	2 176	1 939	1 439
EFTA	380	370	344	390	420
G7	4 430	4 337	4 391	4 391	4 112
MERCOSUR	374	530	146	50	20
NAFTA/USMCA	3 237	2 886	2 989	3 092	3 186
OECD	12 884	10 872	11 556	11 380	10 858
SADC	0	0	0	0	0

Copper

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	3 595 537	3 609 781	3 510 480	3 347 414	4 598 404
Developing C.	12 830 764	12 627 396	12 853 905	13 333 020	14 237 244
Least Developed C.	2 478 101	2 664 817	2 931 610	2 931 671	3 389 762
Transition C.	1 771 360	1 731 418	1 778 922	1 834 959	0
Total	20 675 762	20 633 412	21 074 917	21 447 064	22 225 410

Annual per capita income:

High Income	9 364 932	9 497 031	9 202 210	9 265 234	9 058 199
Upper Middle Income	7 421 225	7 719 257	7 413 532	7 468 372	8 733 421
Lower Middle Income	2 608 256	1 929 492	2 722 486	1 936 503	1 898 845
Low Income	1 281 349	1 487 632	1 736 689	2 776 955	2 534 945
Total	20 675 762	20 633 412	21 074 917	21 447 064	22 225 410

Political stability:

Stable	0	0	0	0	0
Fair	10 864 255	10 032 703	9 849 305	10 496 946	10 267 047
Unstable	7 977 220	8 519 893	8 989 625	8 595 326	9 109 675
Extreme Unstable	1 834 287	2 080 816	2 235 987	2 354 792	2 848 688
Total	20 675 762	20 633 412	21 074 917	21 447 064	22 225 410

Country groups and economic blocks:

ACP	2 339 342	2 505 093	2 794 585	2 944 199	3 527 130
ASEAN	1 080 623	812 487	881 949	952 925	1 082 846
BRICS	2 954 172	2 940 204	3 273 686	3 310 661	3 246 647
CPE	1 968 530	2 005 670	2 265 790	2 303 360	2 231 240
EC	913 358	867 382	860 748	807 012	798 288
EFTA	0	0	0	0	0
G7	1 768 062	1 817 282	1 781 750	1 739 410	1 810 849
MERCOSUR	403 197	363 268	353 258	335 923	297 653
NAFTA/USMCA	2 464 591	2 530 946	2 582 029	2 521 486	2 638 971
OECD	10 088 404	10 060 062	10 043 528	9 758 484	9 583 178
SADC	2 171 022	2 335 226	2 649 473	2 822 552	3 407 648

Gallium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	3	3	3	5	10
Developing C.	308	358	292	420	606
Least Developed C.	0	0	0	0	0
Transition C.	12	13	9	6	0
Total	323	374	304	431	616
Annual per capita income:					
High Income	6	5	5	5	5
Upper Middle Income	311	364	295	425	611
Lower Middle Income	6	5	4	1	0
Low Income	0	0	0	0	0
Total	323	374	304	431	616

Political stability:

Stable	0	0	0	0	0
Fair	6	5	5	5	5
Unstable	311	364	299	426	611
Extreme Unstable	6	5	0	0	0
Total	323	374	304	431	616

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	311	364	295	425	611
CPE	305	356	290	420	606
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	3	3	3	3	3
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	6	5	5	5	5
SADC	0	0	0	0	0

Germanium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	4	4	4	4	9
Developing C.	95	85	86	132	130
Least Developed C.	0	0	0	0	0
Transition C.	7	6	6	6	0
Total	106	95	96	142	139
Annual per capita income:					
High Income	4	4	4	4	4
Upper Middle Income	101	90	91	137	135
Lower Middle Income	1	1	1	1	0
Low Income	0	0	0	0	0
Total	106	95	96	142	139
Political stability:					
Stable	0	0	0	0	0
Fair	4	4	4	4	4
Unstable	101	90	92	138	135
Extreme Unstable	1	1	0	0	0
Total	106	95	96	142	139

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	101	90	91	137	135
CPE	95	85	86	132	130
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	4	4	4	4	4
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	2	2	2	2	2
OECD	4	4	4	4	4
SADC	0	0	0	0	0

Indium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	191	189	187	358	333
Developing C.	635	722	745	547	675
Least Developed C.	0	0	0	0	0
Transition C.	5	7	11	11	0
Total	831	918	943	916	1 008

Annual per capita income:

High Income	426	414	397	358	323
Upper Middle Income	404	503	545	557	684
Lower Middle Income	1	1	1	1	1
Low Income	0	0	0	0	0
Total	831	918	943	916	1 008

Political stability:

Stable	0	0	0	0	0
Fair	426	414	397	338	304
Unstable	405	504	546	578	704
Extreme Unstable	0	0	0	0	0
Total	831	918	943	916	1 008

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	399	496	538	550	677
CPE	395	490	528	540	667
EC	63	58	60	58	38
EFTA	0	0	0	0	0
G7	171	169	167	148	124
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	58	61	61	44	39
OECD	426	414	397	358	323
SADC	0	0	0	0	0

Lead

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	936 453	1 001 919	1 003 850	971 366	1 173 581
Developing C.	3 234 630	3 465 410	3 348 582	3 228 651	3 502 569
Least Developed C.	25 260	35 340	28 890	18 620	17 800
Transition C.	426 920	403 790	346 552	381 518	0
Total	4 623 263	4 906 459	4 727 874	4 600 155	4 693 950
Annual per capita income:					
High Income	914 105	980 506	985 726	949 638	869 554
Upper Middle Income	3 162 725	3 405 993	3 162 503	3 014 547	3 163 491
Lower Middle Income	464 293	442 240	555 645	610 970	635 905
Low Income	82 140	77 720	24 000	25 000	25 000
Total	4 623 263	4 906 459	4 727 874	4 600 155	4 693 950
Political stability:					
Stable	0	0	0	0	0
Fair	1 035 796	1 075 906	1 058 296	1 038 846	950 854
Unstable	3 414 227	3 619 843	3 533 584	3 421 532	3 560 310
Extreme Unstable	173 240	210 710	135 994	139 777	182 786
Total	4 623 263	4 906 459	4 727 874	4 600 155	4 693 950
Country groups and economic blocks:					
ACP	82 689	108 806	87 038	116 854	137 640
ASEAN	50 640	57 290	48 280	36 155	43 160
BRICS	2 487 415	2 550 631	2 419 379	2 430 254	2 437 242
CPE	2 119 200	2 184 000	2 049 500	2 045 450	2 035 310
EC	192 008	212 326	208 809	188 910	181 365
EFTA	0	0	0	0	0
G7	297 974	288 758	300 870	295 439	272 347
MERCOSUR	35 537	35 483	18 951	23 405	26 903
NAFTA/USMCA	528 743	660 714	769 256	567 570	701 218
OECD	1 220 964	1 423 572	1 535 732	1 315 529	1 380 175
SADC	39 409	49 256	36 938	41 354	52 240

Lithium (Li₂O-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	126 364	109 060	90 800	116 330	151 695
Developing C.	72 566	83 005	96 155	116 200	194 133
Least Developed C.	0	0	0	0	0
Transition C.	37	43	45	45	0
Total	198 967	192 108	187 000	232 575	345 828

Annual per capita income:

High Income	165 214	154 000	140 530	181 390	262 000
Upper Middle Income	30 533	35 288	45 530	49 085	80 018
Lower Middle Income	3 220	2 820	940	2 100	3 810
Low Income	0	0	0	0	0
Total	198 967	192 108	187 000	232 575	345 828

Political stability:

Stable	0	0	0	0	0
Fair	179 624	154 000	140 530	194 260	262 000
Unstable	19 293	38 098	46 470	38 295	83 808
Extreme Unstable	50	10	0	20	20
Total	198 967	192 108	187 000	232 575	345 828

Country groups and economic blocks:

ACP	3 810	2 660	860	1 690	3 560
ASEAN	0	0	0	0	0
BRICS	16 123	21 618	32 910	36 215	65 808
CPE	15 300	19 000	28 800	30 500	57 900
EC	914	710	280	225	210
EFTA	0	0	0	0	0
G7	10 250	2 650	1 220	2 505	1 640
MERCOSUR	14 596	16 245	16 685	18 540	22 073
NAFTA/USMCA	10 250	2 650	1 220	2 505	1 640
OECD	165 214	154 000	140 530	181 390	262 000
SADC	3 760	2 650	860	1 670	3 540

Mercury

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	15	15	15	15	25
Developing C.	2 591	2 148	2 065	1 442	990
Least Developed C.	0	0	0	0	0
Transition C.	258	161	228	353	0
Total	2 864	2 324	2 308	1 810	1 015

Annual per capita income:

High Income	18	15	15	15	15
Upper Middle Income	2 633	2 196	2 093	1 470	667
Lower Middle Income	93	22	200	325	333
Low Income	120	91	0	0	0
Total	2 864	2 324	2 308	1 810	1 015

Political stability:

Stable	0	0	0	0	0
Fair	68	15	15	15	15
Unstable	2 796	2 309	2 293	1 795	1 000
Extreme Unstable	0	0	0	0	0
Total	2 864	2 324	2 308	1 810	1 015

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	2 353	2 096	2 023	1 430	647
CPE	2 303	2 046	1 993	1 400	637
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	15	15	15	15	15
MERCOSUR	50	50	0	0	0
NAFTA/USMCA	245	65	85	55	35
OECD	248	65	85	55	35
SADC	0	0	0	0	0

Rare Earth Minerals (REO-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	32 556	45 280	57 943	64 383	62 197
Developing C.	123 610	134 970	142 960	171 210	214 490
Least Developed C.	23 431	20 495	25 596	31 134	20 150
Transition C.	2 596	2 620	2 663	2 276	0
Total	182 193	203 365	229 162	269 003	296 837
Annual per capita income:					
High Income	32 556	45 280	57 943	64 383	60 159
Upper Middle Income	124 096	135 070	143 123	170 886	213 928
Lower Middle Income	22 510	19 620	23 500	29 700	20 150
Low Income	3 031	3 395	4 596	4 034	2 600
Total	182 193	203 365	229 162	269 003	296 837
Political stability:					
Stable	0	0	0	0	0
Fair	33 546	45 350	57 953	64 413	60 469
Unstable	127 616	140 720	149 913	177 356	218 818
Extreme Unstable	21 031	17 295	21 296	27 234	17 550
Total	182 193	203 365	229 162	269 003	296 837

Country groups and economic blocks:

ACP	3 031	3 395	4 596	4 034	2 600
ASEAN	21 390	17 170	21 010	27 130	17 860
BRICS	125 216	137 520	145 613	173 456	216 218
CPE	120 000	132 000	140 000	168 000	210 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	14 000	27 620	38 503	42 413	42 499
MERCOSUR	510	380	450	580	1 580
NAFTA/USMCA	14 000	27 620	38 503	42 413	42 499
OECD	32 556	45 280	57 943	64 383	60 159
SADC	2 400	3 200	4 300	3 900	2 600

Rhenium

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
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Development status:

Developed C.	14 510	14 130	15 410	15 691	15 237
Developing C.	28 552	26 503	17 049	21 331	38 743
Least Developed C.	0	0	0	0	0
Transition C.	3 380	3 110	4 260	5 540	0
Total	46 442	43 743	36 719	42 562	53 980

Annual per capita income:

High Income	40 562	38 133	29 959	34 522	45 540
Upper Middle Income	5 380	4 810	5 760	5 670	5 440
Lower Middle Income	500	800	1 000	2 370	3 000
Low Income	0	0	0	0	0
Total	46 442	43 743	36 719	42 562	53 980

Political stability:

Stable	0	0	0	0	0
Fair	40 562	38 133	29 959	34 522	45 540
Unstable	5 880	5 610	6 760	8 040	8 440
Extreme Unstable	0	0	0	0	0
Total	46 442	43 743	36 719	42 562	53 980

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	3 500	3 500	4 500	4 500	4 500
CPE	2 500	2 500	2 500	2 500	2 500
EC	6 290	5 770	6 580	6 401	4 367
EFTA	0	0	0	0	0
G7	8 220	8 360	8 830	9 290	8 870
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	8 220	8 360	8 830	9 290	8 870
OECD	40 562	38 133	29 959	34 522	45 540
SADC	0	0	0	0	0

Selenium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 739	1 730	1 635	1 606	1 882
Developing C.	1 206	1 550	1 399	1 803	1 853
Least Developed C.	0	0	0	0	0
Transition C.	251	253	245	324	0
Total	3 196	3 533	3 279	3 733	3 735
Annual per capita income:					
High Income	1 739	1 730	1 635	1 606	1 672
Upper Middle Income	1 312	1 656	1 484	1 817	1 808
Lower Middle Income	145	147	160	310	255
Low Income	0	0	0	0	0
Total	3 196	3 533	3 279	3 733	3 735
Political stability:					
Stable	0	0	0	0	0
Fair	1 767	1 730	1 635	1 406	1 472
Unstable	1 429	1 803	1 644	2 327	2 263
Extreme Unstable	0	0	0	0	0
Total	3 196	3 533	3 279	3 733	3 735
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	100	100	100	200	200
BRICS	1 132	1 460	1 335	1 650	1 620
CPE	930	1 250	1 120	1 400	1 400
EC	734	744	727	717	732
EFTA	0	0	0	0	0
G7	1 305	1 286	1 208	1 189	1 240
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	344	373	274	304	371
OECD	1 846	1 857	1 741	1 741	1 813
SADC	0	0	0	0	0

Tellurium

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	132	109	141	147	178
Developing C.	480	380	260	530	503
Least Developed C.	0	0	0	0	0
Transition C.	37	40	58	65	0
Total	649	529	459	742	681

Annual per capita income:

High Income	128	106	137	144	135
Upper Middle Income	519	421	319	593	543
Lower Middle Income	2	2	3	5	3
Low Income	0	0	0	0	0
Total	649	529	459	742	681

Political stability:

Stable	0	0	0	0	0
Fair	132	109	141	147	138
Unstable	517	420	318	595	543
Extreme Unstable	0	0	0	0	0
Total	649	529	459	742	681

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	515	418	315	590	540
CPE	480	380	260	530	500
EC	49	44	46	44	36
EFTA	0	0	0	0	0
G7	83	65	95	103	102
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	25	15	25	35	34
OECD	128	106	137	144	135
SADC	0	0	0	0	0

Tin

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	7 283	7 947	8 337	9 087	12 883
Developing C.	240 649	230 539	216 205	198 062	207 019
Least Developed C.	67 466	53 376	50 896	53 110	72 449
Transition C.	1 531	2 471	2 559	3 317	0
Total	316 929	294 333	277 997	263 576	292 351
Annual per capita income:					
High Income	7 283	7 947	8 337	9 087	9 376
Upper Middle Income	128 708	202 860	138 195	132 698	176 354
Lower Middle Income	168 402	69 598	114 644	103 679	76 206
Low Income	12 536	13 928	16 821	18 112	30 415
Total	316 929	294 333	277 997	263 576	292 351

Political stability:

Stable	0	0	0	0	0
Fair	20 532	20 966	14 172	15 753	17 721
Unstable	224 975	216 434	209 624	191 138	198 570
Extreme Unstable	71 422	56 933	54 201	56 685	76 060
Total	316 929	294 333	277 997	263 576	292 351

Country groups and economic blocks:

ACP	20 386	20 853	23 068	25 652	39 692
ASEAN	147 175	125 548	97 078	80 205	109 468
BRICS	106 208	102 934	113 925	101 998	87 925
CPE	92 616	91 675	101 720	90 821	75 550
EC	412	209	219	315	375
EFTA	0	0	0	0	0
G7	220	0	0	0	0
MERCOSUR	17 591	14 867	16 893	15 517	17 019
NAFTA/USMCA	0	0	0	0	0
OECD	7 283	7 947	8 570	9 087	9 376
SADC	8 956	11 015	14 947	16 400	28 157

Zinc

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	3 066 990	3 135 014	3 063 960	2 983 393	3 288 127
Developing C.	8 121 483	8 831 215	8 616 798	8 830 151	9 288 012
Least Developed C.	240 529	244 477	228 395	241 490	185 937
Transition C.	823 246	778 292	760 260	788 249	0
Total	12 252 248	12 988 998	12 669 413	12 843 283	12 762 076

Annual per capita income:

High Income	3 103 840	3 152 844	3 106 042	3 013 608	2 941 021
Upper Middle Income	7 291 587	8 012 197	7 695 185	7 739 109	7 680 970
Lower Middle Income	1 519 282	1 490 560	1 626 961	1 832 676	1 955 098
Low Income	337 539	333 397	241 225	257 890	184 987
Total	12 252 248	12 988 998	12 669 413	12 843 283	12 762 076

Political stability:

Stable	0	0	0	0	0
Fair	3 362 038	3 398 051	3 258 233	3 152 962	3 095 296
Unstable	8 494 923	9 158 375	9 107 691	9 405 331	9 316 303
Extreme Unstable	395 287	432 572	303 489	284 990	350 477
Total	12 252 248	12 988 998	12 669 413	12 843 283	12 762 076

Country groups and economic blocks:

ACP	445 316	570 741	527 112	553 971	552 622
ASEAN	48 420	53 145	43 710	37 080	54 745
BRICS	4 935 302	5 496 180	5 409 938	5 578 633	5 569 628
CPE	3 849 200	4 351 080	4 190 030	4 258 690	4 173 420
EC	791 245	775 340	779 055	729 676	701 747
EFTA	0	0	0	0	0
G7	1 128 964	1 022 353	969 995	934 187	969 147
MERCOSUR	191 823	178 279	182 632	166 101	159 070
NAFTA/USMCA	1 791 319	1 881 547	1 978 247	1 677 113	1 846 132
OECD	3 923 595	4 130 308	4 223 804	3 914 324	3 978 146
SADC	147 486	251 394	238 381	251 044	276 378

6.3.3 Precious Metals

Gold

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
Development status:					
Developed C.	779 618	761 221	744 551	737 377	1 051 093
Developing C.	1 693 095	1 636 611	1 473 686	1 448 917	1 842 451
Least Developed C.	378 555	352 623	409 471	449 530	429 600
Transition C.	515 613	562 555	574 756	579 151	0
Total	3 366 881	3 313 010	3 202 464	3 214 975	3 323 144
Annual per capita income:					
High Income	819 502	806 683	781 992	776 989	776 885
Upper Middle Income	1 513 443	1 613 444	1 464 622	1 440 883	1 576 030
Lower Middle Income	764 383	608 696	628 743	629 406	723 523
Low Income	269 553	284 187	327 107	367 697	246 706
Total	3 366 881	3 313 010	3 202 464	3 214 975	3 323 144
Political stability:					
Stable	10 045	8 217	5 860	5 815	6 674
Fair	972 856	1 048 608	989 230	986 128	856 137
Unstable	2 127 553	2 023 190	2 040 721	2 037 108	2 285 401
Extreme Unstable	256 427	232 995	166 653	185 924	174 932
Total	3 366 881	3 313 010	3 202 464	3 214 975	3 323 144

Country groups and economic blocks:

ACP	862 417	823 096	814 409	816 758	827 309
ASEAN	165 609	138 752	95 463	111 418	141 919
BRICS	884 975	882 195	869 735	842 200	873 050
CPE	432 344	407 005	396 125	358 698	402 545
EC	32 417	29 230	31 865	34 391	29 776
EFTA	0	0	0	0	0
G7	426 145	398 267	378 912	389 444	383 997
MERCOSUR	153 088	152 213	142 858	139 383	133 670
NAFTA/USMCA	560 826	525 782	514 071	516 468	526 505
OECD	973 904	964 750	1 040 677	1 031 883	1 024 306
SADC	243 623	232 137	215 951	242 707	234 914

Palladium

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
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Development status:

Developed C.	36 739	37 345	26 734	30 578	108 529
Developing C.	94 023	93 624	80 454	98 255	93 483
Least Developed C.	0	0	0	0	0
Transition C.	92 625	93 038	82 181	83 940	0
Total	223 387	224 007	189 369	212 773	202 012

Annual per capita income:

High Income	36 739	37 345	26 734	30 578	27 549
Upper Middle Income	174 554	174 994	149 654	169 416	160 435
Lower Middle Income	12 094	11 668	12 981	12 779	14 028
Low Income	0	0	0	0	0
Total	223 387	224 007	189 369	212 773	202 012

Political stability:

Stable	0	0	0	0	0
Fair	36 794	37 345	26 734	30 578	27 549
Unstable	186 593	186 662	162 635	182 195	174 463
Extreme Unstable	0	0	0	0	0
Total	223 387	224 007	189 369	212 773	202 012

Country groups and economic blocks:

ACP	92 723	92 324	79 154	96 955	92 090
ASEAN	0	0	0	0	0
BRICS	174 499	174 894	149 554	169 276	160 325
CPE	1 300	1 300	1 300	1 300	1 300
EC	1 162	704	862	1 040	964
EFTA	0	0	0	0	0
G7	35 147	36 251	25 452	29 158	26 195
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	35 147	36 251	25 452	29 158	26 195
OECD	36 739	37 345	26 734	30 578	27 549
SADC	92 723	92 324	79 154	96 955	92 090

Platinum

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
Development status:					
Developed C.	13 319	14 841	11 110	10 043	28 511
Developing C.	154 526	149 524	129 911	159 476	154 511
Least Developed C.	0	0	0	0	0
Transition C.	21 376	22 440	21 762	19 870	0
Total	189 221	186 805	162 783	189 389	183 022
Annual per capita income:					
High Income	13 319	14 841	11 110	10 043	9 841
Upper Middle Income	161 199	158 107	136 669	164 614	156 721
Lower Middle Income	14 703	13 857	15 004	14 732	16 460
Low Income	0	0	0	0	0
Total	189 221	186 805	162 783	189 389	183 022
Political stability:					
Stable	0	0	0	0	0
Fair	13 325	14 841	11 110	10 043	9 841
Unstable	175 896	171 964	151 673	179 346	173 181
Extreme Unstable	0	0	0	0	0
Total	189 221	186 805	162 783	189 389	183 022
Country groups and economic blocks:					
ACP	151 756	146 846	126 997	156 358	151 210
ASEAN	0	0	0	0	0
BRICS	160 923	157 919	136 233	163 966	156 210
CPE	2 500	2 500	2 500	2 500	2 800
EC	1 584	961	1 283	1 452	1 248
EFTA	0	0	0	0	0
G7	11 625	13 785	9 727	8 501	8 493
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	11 625	13 785	9 727	8 501	8 493
OECD	13 319	14 841	11 524	10 661	10 342
SADC	151 756	146 846	126 997	156 358	151 210

Rhodium

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
Development status:					
Developed C.	850	850	500	550	2 405
Developing C.	19 942	20 769	18 340	22 209	20 326
Least Developed C.	0	0	0	0	0
Transition C.	2 146	2 115	1 800	1 650	0
Total	22 938	23 734	20 640	24 409	22 731

Annual per capita income:

High Income	850	850	500	550	600
Upper Middle Income	20 754	21 660	18 772	22 525	20 670
Lower Middle Income	1 334	1 224	1 368	1 334	1 461
Low Income	0	0	0	0	0
Total	22 938	23 734	20 640	24 409	22 731

Political stability:

Stable	0	0	0	0	0
Fair	850	850	500	550	600
Unstable	22 088	22 884	20 140	23 859	22 131
Extreme Unstable	0	0	0	0	0
Total	22 938	23 734	20 640	24 409	22 731

Country groups and economic blocks:

ACP	19 942	20 769	18 340	22 209	20 326
ASEAN	0	0	0	0	0
BRICS	20 754	21 660	18 772	22 525	20 670
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	850	850	500	550	600
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	850	850	500	550	600
OECD	850	850	500	550	600
SADC	19 942	20 769	18 340	22 209	20 326

Silver

	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg
Development status:					
Developed C.	4 612 895	4 697 192	4 706 430	4 749 623	6 022 291
Developing C.	20 339 640	20 479 686	18 897 688	18 915 974	20 457 929
Least Developed C.	96 150	106 697	127 168	123 640	104 118
Transition C.	2 628 690	2 817 482	2 785 931	2 820 576	0
Total	27 677 375	28 101 057	26 517 217	26 609 813	26 584 338

Annual per capita income:

High Income	5 931 686	6 013 343	6 239 780	6 163 026	5 853 019
Upper Middle Income	18 748 972	19 407 251	17 365 423	17 279 307	17 854 684
Lower Middle Income	2 860 472	2 560 557	2 778 198	3 031 472	2 760 154
Low Income	136 245	119 906	133 816	136 008	116 481
Total	27 677 375	28 101 057	26 517 217	26 609 813	26 584 338

Political stability:

Stable	6 332	4 060	1 393	3 055	3 922
Fair	7 295 528	6 280 448	6 543 810	7 255 503	6 090 932
Unstable	20 114 571	21 516 659	19 913 494	19 292 768	20 430 184
Extreme Unstable	260 944	299 890	58 520	58 487	59 300
Total	27 677 375	28 101 057	26 517 217	26 609 813	26 584 338

Country groups and economic blocks:

ACP	395 867	413 729	367 272	338 215	352 650
ASEAN	377 599	554 296	392 177	355 116	379 427
BRICS	5 615 553	5 716 243	5 675 143	5 775 426	5 781 375
CPE	3 579 120	3 598 364	3 534 117	3 641 305	3 602 327
EC	2 010 898	1 984 803	1 976 588	2 064 033	1 997 126
EFTA	0	0	0	0	0
G7	1 346 185	1 387 370	1 395 205	1 348 816	1 355 731
MERCOSUR	1 073 368	1 120 670	835 517	914 770	956 790
NAFTA/USMCA	8 580 930	8 865 375	8 811 467	7 831 299	8 412 016
OECD	13 370 767	13 680 098	13 775 543	12 758 551	13 003 689
SADC	67 300	81 118	63 747	68 777	100 621

6.3.4 Industrial Minerals

Asbestos

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	0	0	0	0	629 000
Developing C.	281 439	137 205	197 057	302 256	629 065
Least Developed C.	0	0	0	0	0
Transition C.	955 817	1 000 300	935 211	1 000 100	0
Total	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065

Annual per capita income:

High Income	0	0	0	0	0
Upper Middle Income	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065

Political stability:

Stable	0	0	0	0	0
Fair	0	0	0	0	0
Unstable	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065
Extreme Unstable	0	0	0	0	0
Total	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	1 034 356	926 805	904 868	1 052 256	1 007 965
CPE	170 000	125 000	120 000	130 000	196 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	111 439	12 205	77 057	172 256	182 965
NAFTA/USMCA	0	0	0	0	0
OECD	0	0	0	0	0
SADC	0	0	0	0	0

Baryte

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t

Development status:

Developed C.	591 532	604 456	279 065	435 498	801 632
Developing C.	7 952 598	8 150 948	6 753 327	6 614 802	7 141 912
Least Developed C.	44 658	61 039	98 920	39 623	334 798
Transition C.	1 038 500	693 600	710 300	1 268 500	0
Total	9 627 288	9 510 043	7 841 612	8 358 423	8 278 342

Annual per capita income:

High Income	521 532	532 456	238 065	363 498	466 632
Upper Middle Income	5 462 380	4 809 256	4 048 996	4 135 192	3 869 834
Lower Middle Income	3 639 176	4 164 331	3 550 551	3 855 733	3 937 876
Low Income	4 200	4 000	4 000	4 000	4 000
Total	9 627 288	9 510 043	7 841 612	8 358 423	8 278 342

Political stability:

Stable	0	0	0	0	0
Fair	683 757	696 056	375 343	472 901	844 341
Unstable	7 902 274	8 023 680	7 121 986	7 533 820	7 048 786
Extreme Unstable	1 041 257	790 307	344 283	351 702	385 215
Total	9 627 288	9 510 043	7 841 612	8 358 423	8 278 342

Country groups and economic blocks:

ACP	387	370	544	460	500
ASEAN	162 148	137 683	172 814	84 211	383 307
BRICS	5 663 433	5 811 258	5 266 849	4 952 361	4 264 931
CPE	2 954 200	2 947 000	2 555 500	2 243 600	2 046 000
EC	168 997	148 474	113 656	99 921	99 128
EFTA	0	0	0	0	0
G7	503 897	530 474	238 065	362 371	462 710
MERCOSUR	16 602	13 121	1 849	361	4 931
NAFTA/USMCA	782 234	869 180	646 363	628 092	909 807
OECD	1 352 904	1 361 447	1 004 226	941 380	1 310 213
SADC	0	0	0	0	0

Bentonite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	7 781 091	7 743 148	6 913 035	7 524 426	8 343 395
Developing C.	12 670 936	12 702 702	10 728 872	10 166 636	10 186 059
Least Developed C.	1 631	77 734	80 689	119 192	113 985
Transition C.	1 362 896	1 284 962	1 202 180	1 021 648	0
Total	21 816 554	21 808 546	18 924 776	18 831 902	18 643 439
Annual per capita income:					
High Income	7 741 391	7 749 159	6 848 674	7 417 558	7 620 003
Upper Middle Income	9 953 504	9 926 202	7 120 941	6 168 973	5 711 768
Lower Middle Income	4 120 568	4 055 451	4 874 972	5 126 679	5 197 683
Low Income	1 091	77 734	80 189	118 692	113 985
Total	21 816 554	21 808 546	18 924 776	18 831 902	18 643 439
Political stability:					
Stable	4 482	500	500	500	500
Fair	8 002 317	7 794 163	6 935 055	7 677 558	7 753 166
Unstable	11 801 188	11 546 225	11 086 106	9 821 625	9 339 765
Extreme Unstable	2 008 567	2 467 658	903 115	1 332 219	1 550 008
Total	21 816 554	21 808 546	18 924 776	18 831 902	18 643 439
Country groups and economic blocks:					
ACP	175 207	183 322	166 233	217 815	217 683
ASEAN	11 340	13 050	5 220	6 559	22 603
BRICS	10 648 936	10 433 847	8 412 613	6 868 606	6 458 200
CPE	5 600 630	5 600 504	3 650 486	2 500 517	2 100 498
EC	2 866 045	2 916 648	2 369 822	2 600 222	2 498 387
EFTA	3 234	0	0	12 803	0
G7	5 334 763	5 254 720	4 934 989	5 261 252	5 294 264
MERCOSUR	692 729	530 493	331 605	372 945	383 292
NAFTA/USMCA	4 834 800	4 544 321	4 329 219	4 660 000	4 660 000
OECD	9 231 586	9 175 220	8 662 953	9 504 888	9 669 675
SADC	174 577	182 818	165 747	217 298	217 185

Boron Minerals

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 075 000	1 030 000	830 000	900 000	1 248 800
Developing C.	3 299 429	3 151 476	2 655 990	3 903 170	4 097 291
Least Developed C.	0	0	0	0	0
Transition C.	118 000	111 800	115 500	119 600	0
Total	4 492 429	4 293 276	3 601 490	4 922 770	5 346 091

Annual per capita income:

High Income	1 473 411	1 382 255	1 118 103	1 263 032	1 581 935
Upper Middle Income	2 802 615	2 696 752	2 223 749	3 344 832	3 465 906
Lower Middle Income	216 403	214 269	259 638	314 906	298 250
Low Income	0	0	0	0	0
Total	4 492 429	4 293 276	3 601 490	4 922 770	5 346 091

Political stability:

Stable	0	0	0	0	0
Fair	1 544 623	1 382 255	1 118 103	1 451 902	1 581 935
Unstable	514 955	868 995	2 481 892	3 468 868	3 761 421
Extreme Unstable	2 432 851	2 042 026	1 495	2 000	2 735
Total	4 492 429	4 293 276	3 601 490	4 922 770	5 346 091

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	168 000	331 800	335 500	339 600	388 800
CPE	80 000	250 000	250 000	250 000	300 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	1 075 000	1 030 000	830 000	900 000	1 160 000
MERCOSUR	71 212	181 818	134 604	188 870	164 120
NAFTA/USMCA	1 075 000	1 030 000	830 000	900 000	1 160 000
OECD	3 905 411	3 422 255	2 798 103	3 803 032	4 171 935
SADC	0	0	0	0	0

Diamonds (Gem)

	2018 ct	2019 ct	2020 ct	2021 ct	2022 ct
Development status:					
Developed C.	23 069 161	18 816 751	14 408 412	16 865 216	42 882 494
Developing C.	24 831 251	22 250 381	18 020 762	22 812 718	24 592 198
Least Developed C.	12 602 883	12 358 115	11 095 463	11 442 977	11 931 992
Transition C.	22 973 133	25 804 591	18 711 931	23 470 180	0
Total	83 476 428	79 229 838	62 236 568	74 591 091	79 406 684

Annual per capita income:

High Income	23 069 161	18 816 751	14 408 412	16 865 216	17 811 758
Upper Middle Income	46 764 212	47 589 812	36 169 351	45 390 577	48 628 475
Lower Middle Income	10 824 955	10 142 291	8 287 935	8 882 218	10 452 611
Low Income	2 818 100	2 680 984	3 370 870	3 453 080	2 513 840
Total	83 476 428	79 229 838	62 236 568	74 591 091	79 406 684

Political stability:

Stable	0	0	0	0	0
Fair	42 119 431	37 147 511	27 664 687	34 242 720	37 025 728
Unstable	39 529 592	40 039 837	31 932 767	37 679 044	40 339 841
Extreme Unstable	1 827 405	2 042 490	2 639 114	2 669 327	2 041 115
Total	83 476 428	79 229 838	62 236 568	74 591 091	79 406 684

Country groups and economic blocks:

ACP	37 336 548	34 544 904	29 069 080	34 208 568	36 477 035
ASEAN	0	0	0	0	0
BRICS	27 664 909	29 241 393	22 918 282	28 010 850	29 412 840
CPE	99	51	21	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	22 789 001	18 573 661	14 208 812	16 865 216	17 728 144
MERCOSUR	83 610	53 240	42 114	47 127	47 155
NAFTA/USMCA	22 789 001	18 573 661	14 208 812	16 865 216	17 728 144
OECD	23 069 161	18 816 751	14 412 424	16 869 337	17 732 113
SADC	36 545 623	33 798 361	28 243 578	33 257 571	35 602 472

Diamonds (Ind)

	2018 ct	2019 ct	2020 ct	2021 ct	2022 ct
Development status:					
Developed C.	13 727 890	11 911 450	9 780 400	0	16 769 560
Developing C.	15 266 548	12 837 680	11 701 405	15 601 050	16 894 588
Least Developed C.	14 761 230	12 900 499	11 317 797	11 922 070	9 880 640
Transition C.	20 187 926	19 466 621	12 474 620	15 646 790	0
Total	63 943 594	57 116 250	45 274 222	43 169 910	43 544 788
Annual per capita income:					
High Income	13 727 890	11 911 450	9 780 400	0	0
Upper Middle Income	33 092 006	30 578 976	22 012 090	27 850 506	29 762 015
Lower Middle Income	3 305 858	2 699 985	2 976 935	4 530 914	5 178 523
Low Income	13 817 840	11 925 839	10 504 797	10 788 490	8 604 250
Total	63 943 594	57 116 250	45 274 222	43 169 910	43 544 788
Political stability:					
Stable	0	0	0	0	0
Fair	21 145 800	19 114 985	14 921 040	6 895 791	7 453 105
Unstable	29 476 614	26 544 778	19 982 974	25 874 201	27 755 002
Extreme Unstable	13 321 180	11 456 487	10 370 208	10 399 918	8 336 681
Total	63 943 594	57 116 250	45 274 222	43 169 910	43 544 788

Country groups and economic blocks:

ACP	29 833 888	25 611 579	22 926 402	27 428 094	26 682 490
ASEAN	0	0	0	0	0
BRICS	25 697 456	23 400 716	16 885 420	20 965 816	22 309 298
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	0	0	0	0	0
MERCOSUR	169 330	108 085	83 890	94 760	92 350
NAFTA/USMCA	0	0	0	0	0
OECD	13 727 890	11 911 450	9 780 400	0	0
SADC	29 327 490	25 123 520	22 758 350	27 000 676	26 305 485

Diatomite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 297 380	1 127 031	1 186 582	1 377 632	1 457 783
Developing C.	923 027	1 043 613	920 842	863 464	981 516
Least Developed C.	39 200	77 439	40 353	78 347	56 470
Transition C.	50 600	51 000	51 000	176 800	0
Total	2 310 207	2 299 083	2 198 777	2 496 243	2 495 769

Annual per capita income:

High Income	1 348 018	1 189 269	1 273 299	1 404 728	1 302 062
Upper Middle Income	921 441	1 029 017	880 987	1 003 789	1 132 836
Lower Middle Income	1 548	3 358	4 138	9 379	4 401
Low Income	39 200	77 439	40 353	78 347	56 470
Total	2 310 207	2 299 083	2 198 777	2 496 243	2 495 769

Political stability:

Stable	0	0	0	0	0
Fair	1 424 480	1 193 269	1 277 299	1 577 532	1 316 704
Unstable	637 938	879 457	881 051	835 247	1 122 616
Extreme Unstable	247 789	226 357	40 427	83 464	56 449
Total	2 310 207	2 299 083	2 198 777	2 496 243	2 495 769

Country groups and economic blocks:

ACP	40 748	78 360	41 281	79 110	57 871
ASEAN	0	0	0	0	0
BRICS	351 162	488 673	448 574	387 465	485 844
CPE	280 000	420 000	362 000	200 000	270 000
EC	340 376	359 023	362 571	304 081	375 686
EFTA	0	0	0	0	0
G7	1 105 340	911 802	963 511	1 106 519	927 321
MERCOSUR	93 052	112 283	134 149	167 007	219 205
NAFTA/USMCA	1 109 028	897 274	966 105	1 138 928	934 062
OECD	1 742 835	1 539 300	1 517 731	1 769 850	1 661 033
SADC	34 200	72 439	35 257	72 914	51 449

Feldspar

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	5 025 688	5 046 489	5 022 046	5 977 295	6 231 308
Developing C.	29 626 001	25 566 830	24 385 954	29 668 142	33 277 187
Least Developed C.	36 000	17 000	25 000	6 495	11 388
Transition C.	362 113	370 819	353 115	376 625	0
Total	35 049 802	31 001 138	29 786 115	36 028 557	39 519 883
Annual per capita income:					
High Income	5 801 617	5 659 542	5 941 011	6 578 535	6 497 793
Upper Middle Income	19 381 227	18 148 169	15 736 899	18 436 443	22 556 346
Lower Middle Income	9 866 958	7 176 427	8 083 205	11 007 084	10 454 356
Low Income		17 000	25 000	6 495	11 388
Total	35 049 802	31 001 138	29 786 115	36 028 557	39 519 883
Political stability:					
Stable	0	0	0	0	0
Fair	6 189 164	5 687 831	5 596 598	6 203 905	6 088 087
Unstable	15 757 048	13 014 046	21 861 484	26 488 755	29 834 440
Extreme Unstable	13 103 590	12 299 261	2 328 033	3 335 897	3 597 356
Total	35 049 802	31 001 138	29 786 115	36 028 557	39 519 883
Country groups and economic blocks:					
ACP	158 358	130 057	106 980	135 405	116 088
ASEAN	2 328 544	2 020 132	1 584 231	1 875 767	2 543 012
BRICS	11 936 649	9 612 901	8 059 000	9 728 155	9 635 164
CPE	2 503 000	2 452 100	2 464 100	2 467 800	2 505 900
EC	4 387 146	4 516 439	4 531 805	4 549 934	4 413 502
EFTA	88 000	80 000	69 000	60 000	60 000
G7	3 552 693	3 385 289	3 341 527	3 303 007	3 395 330
MERCOSUR	747 164	672 449	512 783	561 282	826 664
NAFTA/USMCA	1 457 755	966 196	1 323 385	770 076	865 235
OECD	18 007 438	15 387 448	16 506 944	19 384 085	22 084 590
SADC	76 803	76 255	48 427	67 113	78 800

Fluorspar

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	256 385	319 144	315 891	310 531	363 876
Developing C.	6 679 279	7 330 654	7 435 004	8 039 052	8 844 941
Least Developed C.	10 000	50 000	10 000	10 000	27 600
Transition C.	6 400	5 000	42 000	86 000	0
Total	6 952 064	7 704 798	7 802 895	8 445 583	9 236 417

Annual per capita income:

High Income	256 385	319 144	315 891	310 531	287 876
Upper Middle Income	5 791 719	6 305 876	6 335 702	6 979 390	8 158 021
Lower Middle Income	886 660	1 021 878	1 134 402	1 139 662	756 920
Low Income	17 300	57 900	16 900	16 000	33 600
Total	6 952 064	7 704 798	7 802 895	8 445 583	9 236 417

Political stability:

Stable	0	0	0	0	0
Fair	1 058 239	1 256 547	994 791	1 002 801	675 616
Unstable	5 819 848	6 320 111	6 658 407	7 353 666	8 436 096
Extreme Unstable	73 977	128 140	149 697	89 116	124 705
Total	6 952 064	7 704 798	7 802 895	8 445 583	9 236 417

Country groups and economic blocks:

ACP	212 000	257 704	347 557	406 275	435 900
ASEAN	255 400	260 250	229 727	224 793	277 218
BRICS	3 747 274	4 282 688	4 687 782	5 905 395	6 216 069
CPE	4 300 830	4 944 303	5 205 720	6 265 297	6 311 715
EC	236 385	239 144	265 891	243 857	257 876
EFTA	0	0	0	0	0
G7	80 197	173 959	129 933	123 306	134 461
MERCOSUR	36 119	25 899	72 730	76 158	38 969
NAFTA/USMCA	1 979 654	2 011 532	1 621 269	1 057 118	1 876 557
OECD	2 222 239	2 265 076	1 907 056	1 327 997	2 161 685
SADC	212 000	252 974	330 000	400 000	410 000

Graphite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	21 372	14 419	21 996	34 614	67 109
Developing C.	1 357 319	1 365 813	1 263 896	1 389 252	1 377 745
Least Developed C.	156 951	198 106	79 564	204 678	282 632
Transition C.	26 900	27 500	22 900	34 300	0
Total	1 562 542	1 605 838	1 388 356	1 662 844	1 727 486

Annual per capita income:

High Income	22 042	14 721	25 048	34 614	47 463
Upper Middle Income	1 283 019	1 296 737	1 187 158	1 314 700	1 290 307
Lower Middle Income	55 530	51 274	51 586	78 852	87 084
Low Income	201 951	243 106	124 564	234 678	302 632
Total	1 562 542	1 605 838	1 388 356	1 662 844	1 727 486

Political stability:

Stable	0	0	0	0	0
Fair	26 998	18 221	25 048	34 614	47 463
Unstable	1 503 792	1 567 627	1 345 149	1 551 114	1 513 245
Extreme Unstable	31 752	19 990	18 159	77 116	166 778
Total	1 562 542	1 605 838	1 388 356	1 662 844	1 727 486

Country groups and economic blocks:

ACP	160 407	198 106	79 564	204 678	282 632
ASEAN	1 500	3 500	3 700	1 200	500
BRICS	1 293 911	1 318 944	1 205 306	1 342 119	1 341 611
CPE	1 210 500	1 233 500	1 138 700	1 220 200	1 181 500
EC	372	307	208	281	285
EFTA	10 000	9 780	5 549	6 293	10 380
G7	11 222	4 539	16 347	9 924	13 185
MERCOSUR	78 981	81 770	67 020	78 555	79 372
NAFTA/USMCA	15 130	6 674	18 272	11 252	16 420
OECD	42 924	27 053	42 286	64 459	78 598
SADC	160 407	198 106	79 564	204 678	282 632

Gypsum and Anhydrite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	56 151 011	54 652 501	55 355 708	59 182 782	67 784 445
Developing C.	101 074 330	96 449 817	101 935 920	105 502 177	105 859 785
Least Developed C.	2 375 840	2 214 083	2 396 484	2 733 034	3 344 169
Transition C.	8 313 208	7 109 284	6 904 397	8 147 544	0
Total	167 914 389	160 425 685	166 592 509	175 565 537	176 988 399
Annual per capita income:					
High Income	69 242 067	69 996 798	70 208 636	76 338 771	74 816 466
Upper Middle Income	85 278 832	76 610 505	64 159 158	69 796 596	67 932 597
Lower Middle Income	12 719 265	13 422 387	31 814 866	29 051 821	33 822 345
Low Income	674 225	395 995	409 849	378 349	416 991
Total	167 914 389	160 425 685	166 592 509	175 565 537	176 988 399
Political stability:					
Stable	330 000	330 000	0	0	0
Fair	68 785 507	67 958 911	69 102 517	76 721 025	74 685 245
Unstable	71 006 103	64 084 874	78 334 121	80 377 546	78 714 037
Extreme Unstable	27 792 779	28 051 900	19 155 871	18 466 966	23 589 117
Total	167 914 389	160 425 685	166 592 509	175 565 537	176 988 399

Country groups and economic blocks:

ACP	1 604 725	1 516 006	2 033 504	2 169 093	2 450 841
ASEAN	12 125 783	10 692 990	10 275 488	11 676 197	11 533 579
BRICS	38 105 436	35 305 102	38 905 385	36 713 835	37 098 744
CPE	25 147 600	25 173 430	25 160 200	25 164 600	25 144 100
EC	27 244 291	26 426 971	27 170 017	28 477 607	28 341 909
EFTA	419 655	432 100	413 602	422 794	416 317
G7	35 794 052	34 053 140	32 904 763	34 464 618	36 951 801
MERCOSUR	3 567 719	3 608 167	3 355 235	3 954 709	3 944 974
NAFTA/USMCA	35 615 744	31 804 102	32 327 777	32 853 741	33 757 183
OECD	77 556 688	69 088 820	71 999 441	78 398 953	79 960 588
SADC	595 248	652 891	814 758	955 109	1 136 248

Kaolin

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	17 274 410	16 327 051	15 169 583	16 339 533	19 790 864
Developing C.	23 503 553	23 751 433	22 513 440	22 687 896	25 243 253
Least Developed C.	167 864	55 791	131 168	115 914	68 199
Transition C.	4 466 865	4 138 550	4 889 505	5 252 032	0
Total	45 412 692	44 272 825	42 703 696	44 395 375	45 102 316

Annual per capita income:

High Income	17 719 507	16 611 078	15 597 312	16 310 446	15 178 807
Upper Middle Income	15 181 446	16 860 706	12 823 038	13 761 711	16 859 788
Lower Middle Income	12 354 875	10 760 593	14 250 632	14 308 254	13 042 495
Low Income	156 864	40 448	32 714	14 964	21 226
Total	45 412 692	44 272 825	42 703 696	44 395 375	45 102 316

Political stability:

Stable	51 369	50 569	50 000	55 000	55 000
Fair	18 685 816	17 166 331	15 954 909	16 624 426	15 697 907
Unstable	21 857 200	22 055 788	24 732 240	26 327 178	25 701 299
Extreme Unstable	4 818 307	5 000 137	1 966 547	1 388 771	3 648 110
Total	45 412 692	44 272 825	42 703 696	44 395 375	45 102 316

Country groups and economic blocks:

ACP	206 995	95 367	161 672	170 887	90 599
ASEAN	2 088 056	3 362 736	2 200 085	2 049 103	1 416 828
BRICS	18 046 825	17 430 237	18 238 230	18 616 852	20 421 531
CPE	6 752 700	6 502 100	6 602 032	7 341 375	7 922 500
EC	11 687 303	11 030 432	10 312 771	10 652 343	9 746 194
EFTA	0	0	0	0	0
G7	11 889 842	11 249 389	10 687 579	10 867 057	10 151 000
MERCOSUR	1 708 255	1 489 463	1 266 219	1 184 884	1 221 531
NAFTA/USMCA	6 248 246	5 366 645	4 876 033	4 583 332	4 567 798
OECD	19 815 581	17 873 810	16 815 759	18 052 111	17 457 459
SADC	153 107	43 170	119 093	130 118	56 973

Magnesite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	3 831 000	3 687 394	4 145 540	4 485 575	5 574 446
Developing C.	23 538 087	22 636 210	22 827 255	22 459 487	21 121 283
Least Developed C.	0	0	0	0	0
Transition C.	1 577 350	1 015 200	1 282 052	1 108 896	0
Total	28 946 437	27 338 804	28 254 847	28 053 958	26 695 729
Annual per capita income:					
High Income	3 986 000	3 887 394	4 395 540	4 735 575	4 423 395
Upper Middle Income	24 689 826	23 205 820	23 412 357	22 861 392	21 868 410
Lower Middle Income	170 611	145 590	346 950	376 991	323 924
Low Income	100 000	100 000	100 000	80 000	80 000
Total	28 946 437	27 338 804	28 254 847	28 053 958	26 695 729
Political stability:					
Stable	0	0	0	0	0
Fair	3 831 000	3 688 926	4 149 450	4 488 575	4 247 894
Unstable	22 995 549	21 963 041	23 833 108	23 301 887	22 231 436
Extreme Unstable	2 119 888	1 686 837	272 289	263 496	216 399
Total	28 946 437	27 338 804	28 254 847	28 053 958	26 695 729
Country groups and economic blocks:					
ACP	9 400	9 632	12 410	8 000	8 548
ASEAN	140	40	0	0	0
BRICS	22 627 675	21 654 454	21 914 561	21 027 195	20 142 625
CPE	19 100 000	19 101 532	19 103 910	18 083 000	17 080 548
EC	3 178 726	2 829 622	2 767 261	2 968 976	2 824 535
EFTA	0	0	0	0	0
G7	388 828	444 590	579 076	622 976	587 811
MERCOSUR	1 900 000	1 530 000	1 550 000	1 800 000	1 700 000
NAFTA/USMCA	489 828	445 390	579 076	622 976	587 811
OECD	5 890 847	5 184 275	5 707 435	6 415 971	6 070 108
SADC	9 400	8 100	8 500	5 000	8 000

Perlite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 377 267	1 424 691	1 758 268	2 033 080	1 683 893
Developing C.	1 224 705	1 259 969	1 216 767	1 561 666	1 477 249
Least Developed C.	0	0	0	0	0
Transition C.	118 799	146 676	181 146	244 814	0
Total	2 720 771	2 831 336	3 156 181	3 839 560	3 161 142

Annual per capita income:

High Income	1 382 287	1 429 391	1 758 268	2 033 080	1 638 893
Upper Middle Income	1 331 155	1 395 337	1 345 163	1 724 825	1 490 662
Lower Middle Income	7 329	6 608	52 750	81 655	31 587
Low Income	0	0	0	0	0
Total	2 720 771	2 831 336	3 156 181	3 839 560	3 161 142

Political stability:

Stable	0	0	0	0	0
Fair	1 401 081	1 429 391	1 758 268	2 051 096	1 638 893
Unstable	159 128	195 631	1 345 163	1 711 440	1 515 540
Extreme Unstable	1 160 562	1 206 314	52 750	77 024	6 709
Total	2 720 771	2 831 336	3 156 181	3 839 560	3 161 142

Country groups and economic blocks:

ACP	1 000	1 000	1 000	1 000	1 000
ASEAN	12 929	21 608	3 500	8 131	27 378
BRICS	46 000	46 000	46 000	46 000	46 000
CPE	0	0	0	0	0
EC	870 982	794 427	903 083	1 150 259	962 893
EFTA	0	0	0	0	0
G7	504 000	629 000	853 000	879 000	672 000
MERCOSUR	18 794	1 850	13 176	18 016	32 450
NAFTA/USMCA	530 400	653 497	853 000	907 800	672 000
OECD	2 497 670	2 628 374	2 904 609	3 490 575	2 958 325
SADC	1 000	1 000	1 000	1 000	1 000

Phosphate Rock (P₂O₅-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	9 014 070	8 062 980	8 292 450	7 332 080	12 325 590
Developing C.	52 825 680	53 525 010	52 031 340	57 677 250	57 025 910
Least Developed C.	1 147 140	1 121 520	1 179 440	1 337 050	1 436 280
Transition C.	5 829 200	5 907 640	5 988 510	6 102 830	0
Total	68 816 090	68 617 150	67 491 740	72 449 210	70 787 780

Annual per capita income:

High Income	10 842 230	10 369 530	10 932 440	10 165 200	9 776 930
Upper Middle Income	42 272 060	41 306 040	39 386 380	44 337 930	41 749 540
Lower Middle Income	15 235 070	16 546 960	16 104 020	17 007 220	18 290 850
Low Income	466 730	394 620	1 068 900	938 860	970 460
Total	68 816 090	68 617 150	67 491 740	72 449 210	70 787 780

Political stability:

Stable	0	0	0	0	0
Fair	9 237 390	9 399 060	7 344 100	6 657 710	6 132 850
Unstable	58 971 600	58 548 440	59 126 850	65 265 960	63 423 100
Extreme Unstable	607 100	669 650	1 020 790	525 540	1 231 830
Total	68 816 090	68 617 150	67 491 740	72 449 210	70 787 780

Country groups and economic blocks:

ACP	1 905 940	1 799 220	1 693 800	2 219 460	2 215 500
ASEAN	1 301 160	1 347 080	606 850	813 960	754 140
BRICS	37 245 390	36 179 640	34 688 660	39 271 850	40 023 800
CPE	30 197 460	29 344 080	27 287 070	31 684 070	32 177 960
EC	356 070	363 020	363 200	363 720	341 600
EFTA	0	0	0	0	0
G7	7 250 000	6 547 000	6 604 000	6 070 000	5 564 000
MERCOSUR	1 997 100	1 850 000	1 847 900	1 813 000	1 879 300
NAFTA/USMCA	7 472 500	6 796 520	6 695 240	6 215 050	5 696 510
OECD	9 125 950	8 319 040	8 539 900	7 657 520	7 032 970
SADC	736 720	652 450	480 740	784 890	687 250

Potash (K₂O-Content)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	20 342 228	18 597 253	19 923 227	20 414 384	32 167 192
Developing C.	8 164 921	8 405 911	8 391 117	8 555 108	8 870 326
Least Developed C.	343 500	286 900	442 500	507 600	920 000
Transition C.	14 593 196	14 925 793	15 982 353	16 856 600	0
Total	43 443 845	42 215 857	44 739 197	46 333 692	41 957 518
Annual per capita income:					
High Income	21 333 408	19 280 793	20 889 907	21 305 834	21 943 542
Upper Middle Income	21 588 337	22 431 964	23 155 390	24 250 058	17 136 136
Lower Middle Income	522 100	503 100	693 900	777 800	2 877 840
Low Income	0	0	0	0	0
Total	43 443 845	42 215 857	44 739 197	46 333 692	41 957 518
Political stability:					
Stable	0	0	0	0	0
Fair	26 873 704	24 872 486	18 916 807	19 434 434	20 416 832
Unstable	16 537 241	17 306 171	25 785 390	26 859 258	19 043 976
Extreme Unstable	32 900	37 200	37 000	40 000	2 496 710
Total	43 443 845	42 215 857	44 739 197	46 333 692	41 957 518

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	343 500	286 900	442 500	507 600	920 000
BRICS	12 708 181	13 518 911	13 979 037	14 917 628	13 109 636
CPE	5 452 000	5 902 000	5 530 000	5 814 600	5 910 000
EC	3 648 997	3 223 408	3 325 204	3 169 105	3 138 543
EFTA	0	0	0	0	0
G7	17 589 116	16 034 109	17 155 709	17 659 605	18 388 171
MERCOSUR	201 181	248 911	254 837	213 028	299 636
NAFTA/USMCA	14 543 931	13 330 345	14 182 423	14 755 819	15 546 101
OECD	21 333 408	19 280 793	20 889 907	21 305 834	21 943 542
SADC	0	0	0	0	0

Salt

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	118 897 193	118 029 027	111 343 604	115 707 659	126 671 000
Developing C.	153 730 237	154 516 317	140 935 954	135 588 138	141 695 599
Least Developed C.	3 080 771	3 511 280	3 319 847	3 280 996	3 518 815
Transition C.	14 157 923	15 267 448	11 749 325	14 867 435	0
Total	289 866 124	291 324 072	267 348 730	269 444 228	271 885 414

Annual per capita income:

High Income	127 097 522	128 987 487	120 306 615	122 472 171	123 727 903
Upper Middle Income	115 264 863	119 399 206	102 325 748	103 066 027	102 632 733
Lower Middle Income	46 649 152	41 802 158	43 653 975	42 964 877	44 467 723
Low Income	854 587	1 135 221	1 062 392	941 153	1 057 055
Total	289 866 124	291 324 072	267 348 730	269 444 228	271 885 414

Political stability:

Stable	637 014	558 325	71 000	75 000	5 000
Fair	136 761 470	134 453 967	123 677 319	127 834 972	127 499 374
Unstable	136 041 659	138 960 998	135 321 300	133 884 803	135 743 860
Extreme Unstable	16 425 981	17 350 782	8 279 111	7 649 453	8 637 180
Total	289 866 124	291 324 072	267 348 730	269 444 228	271 885 414

Country groups and economic blocks:

ACP	4 676 095	4 456 958	4 632 637	4 274 963	4 490 961
ASEAN	6 069 129	5 819 343	4 457 863	3 989 358	3 593 556
BRICS	108 084 985	110 458 312	98 119 855	98 987 442	99 315 900
CPE	64 926 297	68 270 303	59 990 024	58 579 149	54 881 794
EC	48 793 017	47 386 652	41 699 091	45 958 996	42 631 762
EFTA	591 414	492 325	334 827	530 700	440 665
G7	81 406 284	83 303 649	79 703 674	80 742 984	81 281 619
MERCOSUR	9 611 320	8 867 100	8 015 745	8 134 300	7 950 000
NAFTA/USMCA	64 005 258	65 541 898	64 966 862	59 489 734	63 555 559
OECD	139 089 619	139 062 625	134 296 983	134 746 234	137 854 767
SADC	2 275 694	2 247 410	2 341 946	2 432 086	2 406 625

Sulfur

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	25 366 291	23 931 917	21 807 668	24 100 954	31 050 869
Developing C.	44 290 113	45 023 292	44 140 569	43 067 429	51 077 220
Least Developed C.	947 800	960 200	917 300	691 900	640 800
Transition C.	11 100 950	11 570 000	11 933 900	10 137 800	0
Total	81 705 154	81 485 409	78 799 437	77 998 083	82 768 889
Annual per capita income:					
High Income	43 358 449	42 694 470	39 818 225	41 346 997	43 889 141
Upper Middle Income	30 952 465	32 876 574	30 698 564	28 781 688	31 330 220
Lower Middle Income	7 384 240	5 904 365	8 272 648	7 167 498	7 539 528
Low Income	10 000	10 000	10 000	701 900	10 000
Total	81 705 154	81 485 409	78 799 437	77 998 083	82 768 889
Political stability:					
Stable	0	0	0	0	0
Fair	38 428 589	36 768 335	33 983 435	36 141 097	38 366 981
Unstable	39 709 325	41 323 859	42 122 754	39 218 988	41 616 120
Extreme Unstable	3 567 240	3 393 215	2 693 248	2 637 998	2 785 788
Total	81 705 154	81 485 409	78 799 437	77 998 083	82 768 889
Country groups and economic blocks:					
ACP	1 574 707	2 269 744	1 885 491	1 150 879	1 165 660
ASEAN	1 821 800	1 216 100	1 075 900	1 125 500	1 100 000
BRICS	25 912 397	26 905 574	26 965 491	24 598 829	27 278 579
CPE	14 081 700	14 777 000	15 661 200	16 018 900	17 269 200
EC	5 934 991	6 164 004	4 887 117	5 070 854	5 164 830
EFTA	120 000	90 000	86 000	89 000	81 000
G7	20 269 797	19 129 025	17 302 544	17 486 249	18 331 464
MERCOSUR	1 150 000	960 000	750 000	735 000	819 600
NAFTA/USMCA	15 445 657	13 883 880	13 109 986	13 158 439	13 828 721
OECD	29 319 048	27 634 584	25 548 741	25 704 623	26 445 951
SADC	1 265 707	1 952 744	1 574 291	871 979	876 460

Talc

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	2 404 548	2 234 307	1 986 281	2 414 655	2 433 588
Developing C.	5 538 913	5 158 623	4 664 210	4 893 779	4 977 433
Least Developed C.	371 489	356 240	101 826	451 000	389 564
Transition C.	13 059	48 000	104 000	50 000	0
Total	8 328 009	7 797 170	6 856 317	7 809 434	7 800 585

Annual per capita income:

High Income	2 799 633	2 612 613	2 363 247	2 582 268	2 509 750
Upper Middle Income	3 264 890	2 852 615	2 401 166	2 727 145	2 816 736
Lower Middle Income	1 858 039	1 944 890	1 965 981	2 024 149	2 057 388
Low Income	405 447	387 052	125 923	475 872	416 711
Total	8 328 009	7 797 170	6 856 317	7 809 434	7 800 585

Political stability:

Stable	0	0	0	0	0
Fair	2 768 747	2 565 988	2 303 219	2 417 746	2 335 490
Unstable	4 696 826	4 577 664	4 237 097	4 516 795	4 673 849
Extreme Unstable	862 436	653 518	316 001	874 893	791 246
Total	8 328 009	7 797 170	6 856 317	7 809 434	7 800 585

Country groups and economic blocks:

ACP	108 810	144 060	101 694	341 183	464 840
ASEAN	58 676	14 564	38 146	31 950	30 369
BRICS	4 457 467	4 382 393	3 866 318	3 955 944	4 279 600
CPE	2 040 000	1 840 000	1 330 000	1 430 000	1 430 000
EC	1 187 548	1 113 307	1 071 988	1 078 154	1 047 458
EFTA	0	0	0	0	0
G7	1 703 640	1 544 131	1 370 679	1 406 397	1 382 300
MERCOSUR	673 492	660 050	652 824	662 370	703 562
NAFTA/USMCA	935 448	828 202	673 415	766 465	745 630
OECD	3 045 860	2 663 836	2 475 036	2 674 640	2 416 636
SADC	102 142	135 430	92 318	270 944	449 600

Vermiculite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	100 000	100 000	100 000	100 000	135 619
Developing C.	302 634	285 510	274 026	295 378	344 259
Least Developed C.	10 413	9 674	14 170	21 754	22 947
Transition C.	25 904	29 237	28 442	39 804	0
Total	438 951	424 421	416 638	456 936	502 825
Annual per capita income:					
High Income	100 000	100 000	100 000	100 000	100 000
Upper Middle Income	292 385	286 349	274 820	303 708	350 895
Lower Middle Income	36 153	28 398	27 648	31 474	28 983
Low Income	10 413	9 674	14 170	21 754	22 947
Total	438 951	424 421	416 638	456 936	502 825

Political stability:

Stable	0	0	0	0	0
Fair	100 000	100 000	100 000	100 000	100 000
Unstable	320 768	323 051	316 638	356 936	402 825
Extreme Unstable	18 183	1 370	0	0	0
Total	438 951	424 421	416 638	456 936	502 825

Country groups and economic blocks:

ACP	184 920	193 311	158 781	200 271	232 760
ASEAN	0	0	0	0	0
BRICS	276 950	287 605	256 746	303 469	331 968
CPE	50 000	50 000	50 000	40 000	40 000
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	100 000	100 000	100 000	100 000	100 000
MERCOSUR	56 708	47 581	58 821	70 500	70 913
NAFTA/USMCA	100 244	100 148	100 104	100 000	100 000
OECD	118 427	101 518	119 334	103 300	121 230
SADC	174 507	183 537	144 611	177 817	209 513

Zircon

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	622 400	498 900	410 000	599 000	511 950
Developing C.	626 306	653 632	599 242	582 396	621 869
Least Developed C.	329 748	240 488	217 926	240 980	252 165
Transition C.	29 014	24 300	22 000	35 450	0
Total	1 607 468	1 417 320	1 249 168	1 457 826	1 385 984
Annual per capita income:					
High Income	622 400	498 900	410 000	599 000	490 000
Upper Middle Income	519 792	605 321	468 951	455 650	562 531
Lower Middle Income	229 097	153 358	235 548	252 956	165 350
Low Income	236 179	159 741	134 669	150 220	168 103
Total	1 607 468	1 417 320	1 249 168	1 457 826	1 385 984
Political stability:					
Stable	0	0	0	0	0
Fair	633 409	586 696	410 157	600 518	490 768
Unstable	949 074	811 624	734 693	731 264	742 329
Extreme Unstable	24 985	19 000	104 318	126 044	152 887
Total	1 607 468	1 417 320	1 249 168	1 457 826	1 385 984

Country groups and economic blocks:

ACP	708 860	640 264	561 698	573 946	596 585
ASEAN	64 709	80 149	88 057	86 548	114 668
BRICS	528 454	547 372	484 794	470 132	480 363
CPE	160 500	146 600	150 700	170 400	156 500
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	100 000	30 000	30 000	30 000	20 000
MERCOSUR	17 844	17 136	10 994	6 482	6 513
NAFTA/USMCA	100 000	30 000	30 000	30 000	20 000
OECD	624 350	498 900	410 000	599 000	490 000
SADC	566 083	519 577	441 905	447 120	470 903

6.3.5 Mineral Fuels

Steam Coal

	2018	2019	2020	2021	2022
	metr. t	metr. t	metr. t	metr. t	metr. t
Development status:					
Developed C.	905 273 472	862 405 637	721 310 228	735 413 845	993 005 433
Developing C.	4 524 605 791	4 698 588 605	4 640 804 771	4 934 807 402	5 611 811 612
Least Developed C.	12 662 361	10 427 023	7 359 958	10 030 758	15 674 217
Transition C.	396 752 585	387 770 338	359 600 131	390 316 825	0
Total	5 839 294 209	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262
Annual per capita income:					
High Income	908 770 069	865 096 191	722 520 790	735 432 386	745 738 303
Upper Middle Income	3 575 047 845	4 285 550 508	3 650 846 399	3 912 527 041	4 917 913 567
Lower Middle Income	1 326 425 405	779 438 620	1 332 978 938	1 400 522 466	931 304 462
Low Income	29 050 890	29 106 284	22 728 961	22 086 937	25 534 930
Total	5 839 294 209	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262
Political stability:					
Stable	1 710 060	1 545 230	1 482 000	1 448 565	1 292 541
Fair	962 547 594	923 403 733	731 879 530	745 886 040	756 039 022
Unstable	4 842 411 806	5 001 828 397	4 980 275 317	5 305 233 349	5 835 025 605
Extreme Unstable	32 624 749	32 414 243	15 438 241	18 000 876	28 134 094
Total	5 839 294 209	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262

Country groups and economic blocks:

ACP	265 771 600	266 297 989	256 068 060	238 382 559	247 697 731
ASEAN	602 974 363	662 174 227	624 427 205	632 310 753	752 500 673
BRICS	4 064 924 360	4 173 663 775	4 161 332 509	4 467 914 003	4 895 768 384
CPE	2 917 159 400	3 044 496 100	3 068 932 600	3 317 551 860	3 659 157 300
EC	57 185 612	52 736 727	44 119 578	43 161 020	41 758 441
EFTA	154 200	117 000	63 000	121 000	118 000
G7	583 151 160	538 467 740	409 308 070	442 304 360	452 442 190
MERCOSUR	3 750 753	4 347 664	3 879 892	5 016 963	3 695 414
NAFTA/USMCA	586 714 128	541 934 680	411 498 650	445 899 280	456 285 140
OECD	917 703 117	873 107 819	779 413 910	797 996 834	808 492 120
SADC	265 197 341	265 528 645	255 000 363	236 721 115	244 260 800

Coking Coal

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	303 277 231	299 510 663	274 554 057	269 934 776	372 240 021
Developing C.	620 929 598	642 020 243	650 132 980	642 684 751	663 257 906
Least Developed C.	8 355 292	5 356 390	4 670 626	5 732 902	6 385 797
Transition C.	105 242 300	110 161 700	105 087 700	116 786 200	0
Total	1 037 804 421	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724

Annual per capita income:

High Income	303 277 231	299 510 663	274 554 057	269 934 776	264 760 021
Upper Middle Income	647 944 292	664 198 223	671 530 190	668 090 541	684 119 916
Lower Middle Income	78 227 606	87 983 720	83 690 490	91 380 410	86 617 990
Low Income	8 355 292	5 356 390	4 670 626	5 732 902	6 385 797
Total	1 037 804 421	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724

Political stability:

Stable	1 213 400	1 200 900	1 038 970	1 134 310	1 068 687
Fair	329 137 581	327 272 733	299 337 017	292 734 986	283 187 734
Unstable	700 505 010	720 493 293	727 974 850	734 556 431	746 852 456
Extreme Unstable	6 948 430	8 082 070	6 094 526	6 712 902	10 774 847
Total	1 037 804 421	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724

Country groups and economic blocks:

ACP	13 161 364	9 380 165	7 150 506	10 103 438	10 709 337
ASEAN	5 117 786	5 752 018	4 800 000	6 000 000	6 000 000
BRICS	665 880 302	689 192 225	696 698 320	702 883 546	722 770 000
CPE	557 513 750	567 596 970	587 076 230	571 475 420	574 155 400
EC	16 829 631	15 123 393	14 076 967	14 319 716	13 181 004
EFTA	0	0	0	0	0
G7	103 770 470	94 862 710	76 180 990	83 358 750	81 935 330
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	105 511 200	97 395 370	79 571 120	84 341 010	83 041 440
OECD	307 866 361	303 484 533	284 120 027	278 091 571	273 242 937
SADC	13 161 364	9 380 165	7 150 506	10 103 438	10 709 337

Lignite

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	478 308 843	409 140 231	338 786 480	368 527 424	539 367 310
Developing C.	149 090 450	149 512 086	131 749 628	152 284 738	160 966 066
Least Developed C.	16 389 001	16 049 042	15 127 126	14 205 978	16 057 222
Transition C.	156 693 977	159 787 602	151 663 906	149 775 175	0
Total	800 482 271	734 488 961	637 327 140	684 793 315	716 390 598
Annual per capita income:					
High Income	422 848 015	379 677 616	301 236 274	322 383 490	331 819 027
Upper Middle Income	303 419 855	282 546 123	270 544 215	288 331 094	310 431 249
Lower Middle Income	74 214 401	72 265 222	65 546 651	74 078 731	74 140 322
Low Income	0	0	0	0	0
Total	800 482 271	734 488 961	637 327 140	684 793 315	716 390 598
Political stability:					
Stable	307 378	287 830	297 690	284 735	276 248
Fair	540 598 599	433 774 243	359 513 068	386 976 721	405 416 724
Unstable	178 006 570	215 946 808	276 755 884	296 943 953	309 998 726
Extreme Unstable	81 569 724	84 480 080	760 498	587 906	698 900
Total	800 482 271	734 488 961	637 327 140	684 793 315	716 390 598
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	31 240 951	30 120 752	28 377 700	28 427 551	29 698 505
BRICS	124 005 500	124 492 696	112 804 404	123 008 525	137 038 783
CPE	7 449 000	8 053 080	6 657 650	5 115 960	4 802 000
EC	370 400 965	309 146 846	244 653 270	275 337 479	295 417 022
EFTA	0	0	0	0	0
G7	227 902 500	187 704 555	159 699 780	177 539 804	180 344 491
MERCOSUR	1 422 500	1 596 696	2 309 404	1 896 525	2 648 783
NAFTA/USMCA	61 644 500	56 390 555	52 322 520	51 283 210	49 543 380
OECD	503 932 015	441 719 896	372 873 274	405 942 170	412 747 827
SADC	0	0	0	0	0

Natural Gas

	2018 Mio m ³	2019 Mio m ³	2020 Mio m ³	2021 Mio m ³	2022 Mio m ³
Development status:					
Developed C.	1 435 386	1 523 424	1 503 755	1 527 643	2 295 866
Developing C.	1 537 666	1 563 745	1 529 678	1 597 402	1 808 901
Least Developed C.	57 019	59 505	57 170	55 727	53 617
Transition C.	920 229	929 569	870 325	944 944	0
Total	3 950 300	4 076 243	3 960 928	4 125 716	4 158 384

Annual per capita income:

High Income	1 881 568	1 986 109	1 946 753	1 979 794	2 067 636
Upper Middle Income	1 629 309	1 627 677	1 274 664	1 365 043	1 379 840
Lower Middle Income	428 904	454 283	731 861	772 816	703 104
Low Income	10 519	8 174	7 650	8 063	7 804
Total	3 950 300	4 076 243	3 960 928	4 125 716	4 158 384

Political stability:

Stable	4 322	4 608	4 508	3 945	13 960
Fair	1 863 990	1 920 086	1 868 661	1 942 610	1 977 511
Unstable	1 661 558	1 719 918	1 673 450	1 759 708	1 710 444
Extreme Unstable	420 430	431 631	414 309	419 453	456 469
Total	3 950 300	4 076 243	3 960 928	4 125 716	4 158 384

Country groups and economic blocks:

ACP	114 517	116 058	113 039	106 821	107 500
ASEAN	217 791	219 233	199 857	199 344	195 341
BRICS	931 019	952 595	918 617	993 741	944 676
CPE	171 139	186 513	202 550	215 907	229 034
EC	116 923	106 982	92 842	49 313	45 058
EFTA	122 203	115 123	112 332	115 178	123 777
G7	1 105 017	1 184 144	1 175 920	1 195 164	1 264 033
MERCOSUR	99 236	96 154	86 515	94 381	95 626
NAFTA/USMCA	1 079 094	1 160 037	1 152 946	1 178 353	1 244 161
OECD	1 455 657	1 543 841	1 538 467	1 561 261	1 644 985
SADC	13 900	13 862	14 261	12 562	12 302

Petroleum

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	1 158 321 048	1 251 405 469	1 215 985 782	1 226 235 222	1 811 065 161
Developing C.	2 535 012 311	2 434 930 989	2 241 652 189	2 277 725 373	2 540 803 820
Least Developed C.	97 016 520	94 449 830	87 629 710	78 044 030	78 032 080
Transition C.	704 582 536	707 875 005	650 481 785	663 694 659	0
Total	4 494 932 415	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061

Annual per capita income:

High Income	2 188 047 488	2 261 323 679	2 156 805 862	2 161 133 936	2 316 391 567
Upper Middle Income	1 947 099 100	1 841 851 094	1 503 963 283	1 554 838 007	1 617 569 084
Lower Middle Income	339 975 288	359 383 937	509 980 801	503 840 491	470 581 830
Low Income	19 810 539	26 102 583	24 999 520	25 886 850	25 358 580
Total	4 494 932 415	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061

Political stability:

Stable	1 086 450	1 128 870	964 420	840 780	5 313 300
Fair	1 680 511 957	1 752 389 569	1 671 532 342	1 701 221 660	1 769 449 686
Unstable	2 094 780 290	2 091 657 154	1 999 312 514	1 968 898 774	2 065 007 492
Extreme Unstable	718 553 718	643 485 700	523 940 190	574 738 070	590 130 583
Total	4 494 932 415	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061

Country groups and economic blocks:

ACP	245 248 270	249 201 754	234 792 304	207 757 378	205 983 880
ASEAN	101 057 370	97 015 750	89 398 173	81 981 220	76 960 690
BRICS	913 507 140	928 017 434	889 815 064	901 789 973	923 901 320
CPE	204 647 200	205 980 650	207 298 800	211 051 000	216 352 400
EC	73 351 695	73 025 519	68 579 345	18 038 807	16 736 414
EFTA	84 275 900	79 388 000	93 492 500	95 254 000	89 819 000
G7	1 041 832 243	1 135 093 132	1 087 733 222	1 097 443 232	1 151 540 698
MERCOSUR	242 788 410	222 008 240	209 326 230	209 083 750	221 297 030
NAFTA/USMCA	1 083 913 040	1 169 006 530	1 123 836 850	1 143 331 420	1 202 098 300
OECD	1 258 658 876	1 344 469 549	1 349 539 776	1 358 524 925	1 407 057 227
SADC	74 850 840	70 042 774	64 736 304	57 204 173	57 794 650

Oil Sands (part of Petroleum)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
Developing C.	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	176 864 600	176 766 200	167 943 300	182 022 400	197 386 500
Annual per capita income:					
High Income	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
Upper Middle Income	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	176 864 600	176 766 200	167 943 300	182 022 400	197 386 500
Political stability:					
Stable	0	0	0	0	0
Fair	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
Unstable	0	0	0	0	0
Extreme Unstable	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000
Total	176 864 600	176 766 200	167 943 300	182 022 400	197 386 500

Country groups and economic blocks:

ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	0	0	0	0	0
CPE	0	0	0	0	0
EC	0	0	0	0	0
EFTA	0	0	0	0	0
G7	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
MERCOSUR	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000
NAFTA/USMCA	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
OECD	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500
SADC	0	0	0	0	0

Oil Shales

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441
Developing C.	0	0	0	0	0
Least Developed C.	0	0	0	0	0
Transition C.	0	0	0	0	0
Total	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441
Annual per capita income:					
High Income	22 794 380	16 589 394	13 010 894	12 618 826	14 639 441
Upper Middle Income	0	39 000	44 000	56 000	61 000
Lower Middle Income	0	0	0	0	0
Low Income	0	0	0	0	0
Total	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441
Political stability:					
Stable	0	0	0	0	0
Fair	22 379 800	16 225 512	12 661 904	12 243 986	14 446 016
Unstable	414 580	402 882	392 990	430 840	0
Extreme Unstable	0	0	0	0	254 425
Total	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441
Country groups and economic blocks:					
ACP	0	0	0	0	0
ASEAN	0	0	0	0	0
BRICS	0	0	0	0	0
CPE	0	0	0	0	0
EC	22 379 800	16 225 512	12 661 904	12 243 986	14 446 016
EFTA	0	0	0	0	0
G7	496 650	489 012	473 404	444 886	417 916
MERCOSUR	0	0	0	0	0
NAFTA/USMCA	0	0	0	0	0
OECD	22 794 380	16 589 394	13 010 894	12 618 826	14 639 441
SADC	0	0	0	0	0

Uranium (U₃O₈)

	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t
Development status:					
Developed C.	16 659	16 102	11 582	10 137	14 757
Developing C.	9 520	9 261	9 282	9 623	38 833
Least Developed C.	3 433	3 516	3 527	2 691	2 382
Transition C.	34 471	35 399	31 327	33 530	0
Total	64 083	64 278	55 718	55 981	55 972
Annual per capita income:					
High Income	16 659	16 102	11 582	10 137	11 658
Upper Middle Income	37 987	39 173	35 079	37 694	36 831
Lower Middle Income	6 004	5 487	5 530	5 459	5 101
Low Income	3 433	3 516	3 527	2 691	2 382
Total	64 083	64 278	55 718	55 981	55 972
Political stability:					
Stable	0	0	0	0	0
Fair	23 173	22 561	17 965	16 925	18 275
Unstable	36 034	37 204	34 173	36 312	35 120
Extreme Unstable	4 876	4 513	3 580	2 744	2 577
Total	64 083	64 278	55 718	55 981	55 972
Country groups and economic blocks:					
ACP	10 178	10 138	10 040	9 628	9 169
ASEAN	0	0	0	0	0
BRICS	6 377	6 182	6 202	5 889	5 891
CPE	2 223	2 223	2 224	1 891	2 005
EC	40	67	42	32	25
EFTA	0	0	0	0	0
G7	8 882	8 337	4 275	5 631	6 256
MERCOSUR	0	0	20	34	51
NAFTA/USMCA	8 882	8 309	4 267	5 631	6 256
OECD	16 659	16 102	11 582	10 137	11 658
SADC	6 745	6 622	6 513	6 937	6 787

6.4 Production of Mineral Raw Materials of individual Countries, by Minerals

6.4.1 Iron and Ferro-Alloy Metals

Iron (Fe-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	1 178 800	1 068 600	1 016 200	942 000	1 074 000	2n
Angola			0	96 280	5 880	1e
Argentina	40 560	0	0	0	0	1e
Australia	559 701 719	567 345 032	567 788 649	570 160 503	584 413 159	1e
Austria	897 132	1 037 470	973 840	1 059 550	1 035 770	1e
Bhutan	24 220	23 590	9 430	16 590	2 230	1e
Bolivia	41 560	45 830	15 410	17 010	215 940	1a
Bosnia-Herzegovina	704 050	739 600	727 980	792 500	771 530	1a
Brazil	287 617 655	255 339 422	245 889 636	268 066 382	250 993 847	1e
Canada	32 180 800	34 457 800	36 995 000	35 542 900	42 073 900	1e
Chile	8 942 638	8 427 224	9 890 886	11 163 294	11 059 801	1e
China	209 243 800	219 375 000	225 400 000	215 700 000	212 900 000	2n
Colombia	353 950	300 240	354 200	337 540	223 870	1e
Congo, Rep.	10 800	20 200	3 400	20 200	20 200	1e
Egypt	250 700	48 200	1 900	5 800	6 000	2n
Fiji	0	35 900	35 200	49 400	28 800	1n
Germany	82 900	94 100	95 500	87 500	86 000	1e
Guatemala	2 590	30	0	0	0	1e
Guinea		0	418 800	1 140 800	197 900	1e
India	129 615 740	151 827 100	125 963 950	156 024 500	158 405 600	3e
Indonesia	600 000	1 379 300	2 951 100	3 300 000	3 000 000	2n
Iran	24 700 000	28 305 000	33 660 000	34 980 000	36 874 200	1a
Kazakhstan	12 968 800	14 278 750	15 105 100	15 966 300	12 567 100	1e
Korea, North	2 082 800	1 796 400	1 640 800	1 684 000	1 647 800	1e
Korea, South	229 530	205 410	345 140	323 140	260 400	1e
Laos	59 500	282 180	607 830	2 113 560	1 076 900	1e
Liberia	2 794 300	2 657 200	2 924 600	2 520 000	2 640 000	1n
Malawi	1 540	1 800	3 010	2 990	590	1e
Malaysia	2 112 790	2 621 100	3 383 990	3 070 930	3 094 320	1e
Mauritania	7 005 800	8 013 100	8 243 500	8 185 200	8 465 400	1n
Mexico	8 412 810	10 331 270	10 774 600	13 430 600	10 963 300	1e
Mongolia	3 486 220	4 800 430	5 165 660	5 136 260	4 289 540	1e
Morocco	18 520	7 150	14 090	8 870	10 000	2n
Namibia	8 730	8 400	27 570	51 490	0	1e
Nepal	180	120	770	0	0	1e
New Zealand	2 100 000	1 915 000	2 260 000	2 200 000	2 280 000	2n
Nigeria	700	18 300	2 400	1 300	6 700	1e
Norway	1 129 900	1 069 700	1 014 700	1 057 500	1 105 900	1n
Pakistan	257 340	238 440	218 000	306 160	272 570	1e
Peru	9 096 994	9 666 412	8 893 972	12 149 274	12 936 826	1e
Philippines	0	0	25 700	40 900	45 500	1e
Russia	64 192 000	65 726 000	65 372 000	59 375 800	56 109 000	1e
Saudi Arabia	280 100	294 100	275 000	335 200	351 700	1e

Sierra Leone	561 800	418 950	0	950 300	1 230 000	1n
South Africa	48 277 430	47 064 410	36 163 000	47 554 200	41 414 300	1e
Spain			0	36 580	0	1a
Sweden	18 405 000	19 367 200	20 112 200	19 964 200	18 799 000	1e
Tanzania		0	14 200	39 100	25 500	1e
Thailand	0	10 950	70 210	201 450	117 800	1e
Tunisia	95 000	100 700	93 400	143 900	140 000	2n
Türkiye	9 546 700	8 828 800	13 087 300	9 791 300	11 928 200	1e
Uganda	2 700	0	0	34 300	61 600	1e
Ukraine	38 751 300	47 584 000	49 274 000	52 431 000	22 354 000	1n
United States	31 185 000	29 547 000	24 100 000	30 100 000	24 687 000	1e
Uruguay	2 520	2 510	1 240	3 310	2 220	1e
Venezuela	2 017 500	2 062 800	1 159 000	1 372 500	4 575 000	1e
Vietnam	3 353 100	3 663 400	2 136 200	1 850 300	1 105 800	3e
Total	1 524 626 218	1 552 451 620	1 524 700 263	1 591 934 663	1 547 952 593	

Chromium (Cr₂O₃ - Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	2 000	2 000	2 000	5 300	19 100	1n
Albania	322 100	357 200	212 650	242 200	383 400	1a
Brazil	219 724	199 256	226 762	248 108	218 626	1e
China	16 330	27 250	54 440	67 620	65 050	1n
Cuba	10 500	27 000	14 000	8 500	4 000	1e
Ethiopia	8 000	500	200	700	400	1e
Finland	466 750	491 930	470 620	472 890	391 410	1e
Greece	16 650	12 080	790	0	0	1a
India	1 864 070	1 832 600	1 273 300	1 716 800	1 614 600	3e
Iran	113 410	104 400	103 340	85 620	130 440	1a
Kazakhstan	2 378 200	2 458 800	1 977 900	1 901 500	1 833 900	1e
Madagascar	53 500	37 300	6 100	6 600	9 000	1e
Oman	353 630	293 040	182 720	195 540	164 800	1e
Pakistan	38 970	55 300	48 570	56 050	78 000	1e
Papua New Guinea	40 290	52 010	51 560	53 830	47 250	1n
Philippines	20 260	14 570	14 040	12 290	59 000	1e
Russia	177 500	175 000	187 000	167 360	203 200	1e
South Africa	7 524 700	7 384 000	5 479 400	7 605 500	7 905 000	1e
Sudan	12 960	5 950	4 300	2 700	1 450	1e
Türkiye	1 146 600	1 528 700	1 087 400	1 227 900	1 460 300	1e
Zimbabwe	402 600	720 330	572 460	644 400	670 860	1e
Total	15 188 744	15 779 216	11 969 552	14 721 408	15 259 786	

Cobalt

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	4 878	5 741	5 626	5 232	5 793	1e
Brazil	4	0	0	0	0	1e
Canada	5 608	5 039	4 069	3 953	3 063	1e
China	3 100	3 000	2 200	2 000	1 750	2q
Congo, D.R.	111 713	78 664	86 591	93 011	115 371	1e
Cuba	5 000	3 800	3 900	3 800	3 600	2n

Finland	1 377	1 454	1 559	1 084	1 235	1e
Indonesia	350	350	1 000	2 100	9 600	1e
Madagascar	2 887	2 897	833	2 111	3 428	1e
Morocco	1 806	2 397	2 416	1 796	1 690	1n
New Caledonia	2 104	1 703	2 197	1 500	1 770	1n
Papua New Guinea	3 275	2 915	2 941	2 955	2 987	1n
Philippines	3 600	3 750	3 600	3 200	3 400	1n
Russia	8 700	9 400	9 700	8 000	9 000	2e
South Africa	1 007	1 027	897	355	250	1e
Türkiye	259	115	250	2 400	2 100	2b
United States	480	500	600	650	500	1e
Zambia	1 766	1 271	316	247	252	1e
Zimbabwe	403	402	956	298	241	1e
Total	158 317	124 425	129 651	134 692	166 030	

Manganese

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Angola			0	20 700	32 400	1e
Australia	3 514 320	3 259 200	3 356 030	3 277 460	3 082 850	1n
Bolivia	110	3 660	4 710	5 100	420	1e
Brazil	1 310 825	1 452 034	932 721	597 456	529 664	1e
China	1 180 000	1 350 000	1 218 000	900 000	819 000	1e
Colombia	80	160	10	140	160	1e
Congo, D.R.	5 360	1 780	1 000	1 000	5 380	1e
Cote d'Ivoire	319 200	472 700	530 200	384 500	371 900	1e
Egypt	13 200	7 900	5 300	8 000	5 000	2n
Gabon	2 874 600	3 158 100	3 709 100	4 228 900	4 529 000	1n
Georgia	210 500	170 600	202 400	226 500	160 000	2n
Ghana	1 320 000	1 507 200	660 100	934 200	919 800	1e
Guyana					105 800	1e
India	920 230	919 640	834 340	832 100	872 600	3e
Indonesia	24 000	24 000	23 500	40 000	0	1e
Iran	45 595	50 240	63 580	93 940	65 800	1a
Kazakhstan	288 300	230 700	164 300	129 800	136 600	1e
Kenya	7 000	16 600	13 600	28 500	61 200	1n
Malaysia	530 340	474 910	365 340	280 790	312 720	1e
Mexico	209 023	232 957	258 045	225 703	220 745	1e
Morocco	39 770	35 600	42 050	41 250	24 500	2e
Myanmar	207 500	429 000	254 000	206 100	207 100	1n
Namibia	8 800	14 660	11 860	10 250	10 600	2n
Nigeria	22 880	1 000	5 850	22 380	23 100	1e
Oman	11 170	12 500	3 200	3 300	3 000	1e
Pakistan	50	190	180	50	200	2n
Peru	17 203	18 814	10 120	9 073	1 169	1e
Romania	5 150	9 290	8 450	6 600	5 900	1e
Russia	8 600	5 900	28 200	10 700	16 500	1e
Senegal	3 330	1 880	6 580	4 040	13 370	1e
South Africa	5 641 200	6 456 400	6 029 368	7 098 396	7 113 500	2e
Sudan	4 000	1 000	0	0	0	1e
Thailand	1 920	2 305	670	0	320	1e
Türkiye	29 900	39 900	35 600	30 300	36 900	1e
Ukraine	682 700	686 100	698 500	652 300	372 800	2e
Vietnam	115 100	106 000	121 100	147 000	155 000	1n
Zambia	37 800	11 970	20 000	56 860	69 490	1e
Total	19 609 756	21 164 890	19 618 004	20 513 388	20 284 488	

Molybdenum

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	364	0	0	0	0	1e
Armenia	5 422	7 137	11 909	10 611	10 991	1e
Canada	5 048	4 385	3 979	1 871	1 146	1e
Chile	60 705	54 759	59 381	49 427	45 627	1e
China	98 420	104 670	95 970	102 600	107 550	1e
Iran	3 690	4 160	3 536	4 150	5 980	1a
Kazakhstan	149	258	384	880	2 005	1n
Korea, North	560	530	100	100	620	1e
Korea, South	1	266	411	408	366	1e
Mexico	20 265	21 694	20 577	19 894	19 329	1e
Mongolia	2 580	2 490	2 890	2 975	2 780	1e
Norway	0	1	1	1	1	2n
Peru	28 034	30 441	32 185	34 148	31 588	1e
Russia	2 262	1 989	1 707	1 691	1 700	2e
Türkiye	450	0	0	0	0	1e
United States	41 400	43 600	51 100	41 100	34 600	1e
Uzbekistan	750	800	760	1 282	1 177	1e
Total	270 100	277 180	284 890	271 138	265 460	

Nickel

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Albania	4 200	2 960	3 760	4 090	1 570	1a
Australia	160 022	158 751	169 344	150 876	155 007	1e
Brazil	65 254	55 761	68 097	75 988	79 370	1n
Canada	177 867	176 021	168 214	159 145	143 266	1e
China	98 963	104 674	105 048	104 600	109 400	1e
Colombia	43 056	40 571	36 094	38 301	41 816	1e
Cote d'Ivoire	12 300	9 900	20 220	26 460	27 610	1e
Cuba	49 000	45 000	46 000	44 000	43 000	2n
Dominican Republic	19 214	28 450	22 005	27 819	29 223	1a
Finland	43 572	38 530	41 429	42 163	44 921	1e
Greece	19 980	17 240	9 270	4 770	1 700	1n
Guatemala	48 400	44 600	57 600	59 100	52 600	1e
Indonesia	651 600	1 036 200	816 700	1 173 200	1 593 400	1e
Kosovo	4 790	3 360	4 150	4 960	300	1a
Madagascar	33 204	33 736	9 908	29 285	35 737	1e
Morocco	126	131	142	147	157	1n
Myanmar	17 750	14 200	22 000	18 100	9 600	1n
New Caledonia	216 225	208 185	199 375	186 284	199 951	1e
Norway	170	135	120	350	190	1a
Papua New Guinea	35 354	33 091	33 659	31 594	34 302	1n
Philippines	344 966	323 325	328 911	386 359	345 200	2e
Poland	660	755	710	740	830	1e
Russia	238 800	233 800	237 000	202 100	220 000	2q
South Africa	43 236	43 443	34 908	31 846	29 500	2e
Türkiye	13 560	4 740	20 200	11 650	14 540	1e

United States	17 600	13 500	16 700	18 400	17 500	1e
Zambia	0	2 500	2 760	3 672	3 946	1n
Zimbabwe	17 850	16 918	16 480	16 213	14 260	1e
Total	2 377 719	2 690 477	2 490 804	2 852 212	3 248 896	

Niobium (Nb₂O₅-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Brazil	99 554	126 641	85 572	112 755	110 000	2e
Burundi	5	5	4	10	3	2e
Canada	7 700	6 800	6 400	7 650	6 800	2n
China	20	20	30	30	40	1n
Congo, D.R.	607	433	565	475	520	1e
Ethiopia	28	14	11	18	25	1e
Mozambique	12	11	17	14	17	1e
Nigeria	181	170	80	140	60	2n
Russia	669	659	617	648	549	1n
Rwanda	245	205	160	160	195	1e
Uganda	2	3	52	9	0	1e
Total	109 023	134 961	93 508	121 909	118 209	

Tantalum (Ta₂O₅-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	40	80	50	70	40	1e
Bolivia	18	10	8	1	3	1a
Brazil	345	340	300	350	350	1n
Burundi	8	8	6	15	5	2e
China	100	135	180	180	92	1n
Congo, D.R.	644	460	600	505	550	1e
Ethiopia	104	50	41	64	90	1e
Malaysia	27	2	1	1	4	1e
Mozambique	66	59	94	75	84	1e
Nigeria	230	120	80	160	140	2n
Russia	44	32	60	39	24	1n
Rwanda	380	315	240	245	300	1e
Sierra Leone	31	16	29	36	25	2n
Spain	0	18	16	19	19	1a
Total	2 037	1 645	1 705	1 760	1 726	

Titanium (TiO₂-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	875 250	780 465	830 800	624 100	545 000	2e
Brazil	73 090	81 650	61 940	75 100	53 000	2e
Canada	620 000	550 000	480 000	440 000	540 000	2n

China	1 932 000	2 306 900	2 911 800	2 856 650	3 144 000	1e
India	172 700	205 200	205 500	176 000	154 000	2n
Iran	30 000	4 880	5 000	6 860	19 570	1a
Kazakhstan	65 000	60 000	28 000	20 000	22 000	2n
Kenya	340 150	262 660	256 410	254 210	275 290	1n
Korea, South	117 250	162 790	158 340	177 420	152 250	1e
Madagascar	214 900	252 200	280 600	354 800	299 800	1e
Malaysia	12 600	6 930	6 280	13 470	21 180	1e
Mozambique	701 400	786 900	874 000	1 126 800	1 387 200	1e
Norway	176 370	211 280	229 780	295 610	252 990	1e
Russia	3 000	3 600	3 300	2 900	3 200	2e
Senegal	287 940	281 030	291 740	310 310	284 998	1e
Sierra Leone	145 400	165 180	135 930	149 380	161 250	1n
South Africa	911 000	1 064 000	950 000	900 000	1 050 000	2n
Sri Lanka	35 670	25 940	11 150	28 775	18 025	1e
Thailand	23	64	84	36	1	1e
Türkiye	6 175	6 130	6 455	7 080	6 860	1e
Ukraine	518 950	564 050	537 430	489 200	180 000	2n
United States	100 000	100 000	100 000	100 000	200 000	1e
Vietnam	122 250	112 680	139 760	156 000	172 380	3e
Total	7 461 118	7 994 529	8 504 299	8 564 701	8 942 994	

Tungsten (W-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	10	30	100	160	180	1n
Austria	936	892	896	919	910	1e
Bolivia	1 366	1 064	1 347	1 563	1 358	1a
Brazil	346	306	262	301	302	1e
Burundi	108	150	166	120	100	2e
China	68 000	74 950	71 450	68 660	65 620	1e
Congo, D.R.	160	260	116	114	147	1e
Korea, North	1 410	1 130	410	50	1 520	1e
Mexico	45	15	32	0	50	1e
Mongolia	430	370	35	120	236	1e
Myanmar	190	130	80	40	30	1e
Nigeria	66	15	18	24	52	1e
Portugal	716	518	553	542	448	1a
Russia	2 234	2 433	2 274	2 143	2 000	2e
Rwanda	1 155	1 120	990	1 545	1 610	1e
Spain	856	414	238	642	396	1a
Thailand	65	22	57	58	60	1e
Uganda	113	87	7	25	38	1e
United Kingdom	890	0	0	0	0	1e
Uzbekistan	97	100	20	25	34	1e
Vietnam	4 881	4 816	5 970	11 735	10 817	1n
Zimbabwe	16	37	30	8	18	1e
Total	84 090	88 859	85 051	88 794	85 926	

Vanadium (V-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Brazil	6 562	7 045	7 582	7 212	7 249	1n
China	53 200	64 700	69 960	74 100	78 100	1e
India	442	76	100	100	50	2n
Russia	17 052	18 380	19 533	20 058	21 000	1n
South Africa	7 691	8 062	8 584	8 799	8 872	1n
United States	0	460	17	0	0	1e
Total	84 947	98 723	105 776	110 269	115 271	

6.4.2 Non-Ferrous Metals

Aluminium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	439 600	438 434	309 804	338 239	400 038	1e
Australia	1 574 240	1 569 591	1 582 947	1 558 529	1 509 646	1e
Azerbaijan	45 390	32 700	28 560	24 900	33 500	2q
Bahrain	1 011 101	1 365 005	1 548 500	1 561 222	1 600 111	1n
Bosnia-Herzegovina	131 508	67 690	0	90 037	138 969	1e
Brazil	659 000	650 200	685 100	771 700	810 900	1e
Cameroon	65 900	68 950	61 650	47 300	62 770	1e
Canada	2 924 389	2 853 771	3 118 710	3 136 704	3 033 966	1e
China	36 831 000	35 361 600	37 080 400	38 503 200	40 144 300	1e
Egypt	267 100	290 000	268 000	270 000	250 000	2n
France	390 000	401 850	417 000	430 000	380 000	2n
Germany	528 900	507 934	529 056	509 193	341 212	1e
Ghana	42 867	43 908	37 566	39 239	55 592	1e
Greece	187 465	186 903	181 708	169 775	171 450	1e
Iceland	731 478	682 616	691 989	695 857	730 394	1e
India	3 696 181	3 635 089	3 619 237	3 585 800	4 073 000	1e
Indonesia	219 306	233 457	220 089	200 577	223 774	1n
Iran	304 800	258 166	424 475	543 715	611 551	1e
Kazakhstan	258 400	264 895	265 665	262 361	249 141	1e
Malaysia	760 000	760 000	980 700	901 000	960 000	1n
Montenegro	40 163	36 522	37 208	45 214	43 196	1e
Mozambique	571 125	564 756	571 125	564 756	587 200	1n
Netherlands	41 300	81 100	70 600	46 700	0	1e
New Zealand	340 678	351 481	333 314	333 135	335 871	1n
Norway	1 295 000	1 312 000	1 339 330	1 430 183	1 424 571	1n
Oman	379 775	390 515	396 929	395 360	394 780	1n
Qatar	616 000	627 400	631 400	634 270	637 975	1n
Romania	282 810	280 326	271 307	293 399	191 454	1n
Russia	3 774 000	3 894 400	3 928 800	3 931 000	4 014 000	1n
Saudi Arabia	775 500	775 561	796 004	805 056	776 413	1n
Slovakia	173 721	174 794	151 875	163 995	71 933	1n
Slovenia	80 511	68 255	50 185	37 867	19 211	1n
South Africa	714 000	717 000	710 000	714 000	718 000	1n
Spain	350 000	230 000	200 000	190 000	0	1e
Sweden	125 000	120 000	117 000	124 000	120 000	1n

Tajikistan	95 800	100 800	84 000	61 000	62 000	1e
Türkiye	73 291	78 100	79 600	79 200	80 000	2n
United Arab Emirates	2 640 000	2 579 000	2 505 000	2 577 680	2 650 000	1n
United Kingdom	44 400	39 400	35 700	37 571	38 000	2n
United States	896 652	1 126 032	1 026 617	907 846	872 270	1e
Venezuela	64 700	10 000	9 996	38 340	8 430	1e
Total	64 443 051	63 230 201	65 404 146	67 049 920	68 825 618	

Antimony

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	2 173	2 032	3 903	3 380	2 292	1n
Bolivia	3 110	2 747	2 629	3 084	3 453	1a
Canada	5	2	2	2	2	2n
China	70 396	68 422	60 995	41 480	39 000	1e
Guatemala	0	150	50	0	12	1e
Honduras	20	15	10	120	0	1e
Iran	1 645	330	1 065	1 960	3 890	1a
Kazakhstan	150	0	0	0	467	1a
Kyrgyzstan	680	20	20	0	20	2n
Laos	330	70	0	240	250	1n
Mexico	300	289	136	413	632	1n
Myanmar	2 640	4 800	6 600	2 870	3 230	1n
Pakistan	20	0	17	33	0	1e
Russia	30 828	21 671	17 532	9 750	4 391	1n
Tajikistan	28 890	29 900	24 070	24 110	14 500	2n
Türkiye	3 570	3 815	2 570	4 210	10 640	1e
Vietnam	245	396	312	268	252	1e
Total	145 002	134 659	119 911	91 920	83 031	

Arsenic

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Belgium	1 000	1 000	1 000	1 000	1 000	2n
Bolivia	238	126	50	100	35	1e
China	24 000	24 000	24 000	24 000	24 000	2b
Japan	45	45	40	40	40	2n
Morocco	5 578	5 055	7 694	6 883	5 450	1n
Peru	20 376	24 915	19 014	21 872	25 379	1e
Russia	500	102	500	800	500	2n
Total	51 737	55 243	52 298	54 695	56 404	

Bauxite (crude ore)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	95 947 593	107 422 912	103 626 811	103 266 404	100 478 354	1e
Bosnia-Herzegovina	760 244	1 043 343	619 748	675 269	669 926	1e
Brazil	32 377 000	31 937 900	32 897 800	35 949 600	31 608 694	1e
China	70 751 000	73 323 700	70 000 000	68 400 000	74 300 000	1e
Colombia	13 666	18 033	9 595	49 946	41 479	1e
Cote d'Ivoire		0	272 295	0	0	1e
Croatia	11 776	14 342	14 084	14 448	17 749	1a
Dominican Republic	6 525	7 551	9 475	71 517	104 158	1a
Fiji	57 960	0	0	0	0	1e
France	138 800	120 760	123 496	142 764	118 000	1e
Ghana	1 011 302	1 116 334	1 162 086	839 465	773 213	1e
Greece	1 559 359	1 379 123	1 428 631	1 227 487	1 173 319	1a
Guinea	59 573 707	70 173 326	87 766 199	87 438 557	103 525 513	1e
Guyana	1 926 053	1 919 747	608 168	618 452	705 631	1e
Hungary	4 200	0	0	0	0	1a
India	23 689 619	21 825 227	20 380 548	22 493 947	23 831 706	1e
Indonesia	11 023 850	16 592 740	25 859 895	25 781 187	28 808 674	1e
Iran	866 683	828 788	1 042 325	883 950	955 528	1a
Jamaica	10 058 228	9 022 286	7 546 139	5 949 600	4 364 700	1e
Kazakhstan	6 104 200	4 118 400	4 057 800	4 370 100	4 175 900	1e
Malaysia	589 685	900 561	594 715	47 577	129 825	1e
Montenegro	468 164	774 725	791 813	526 760	438 205	1a
Mozambique	9 912	8 024	6 491	7 852	14 583	1e
Pakistan	145 189	92 936	101 047	97 495	70 000	2e
Russia	7 057 000	6 641 000	6 647 000	6 565 000	6 712 000	1e
Saudi Arabia	4 906 000	5 127 000	5 227 927	5 649 000	5 930 000	1e
Sierra Leone	1 938 461	1 883 863	1 342 139	1 396 678	910 344	1n
Solomon Islands	1 646 200	1 234 030	841 890	0	0	1e
Tanzania	7	0	25 995	38 142	40 921	1e
Türkiye	678 138	2 255 480	2 399 680	2 764 873	2 072 968	1e
United States	399 700	154 900	16 440	0	12 580	1e
Venezuela	92 000	50 000	0	22 000	770 000	1e
Vietnam	3 569 700	3 700 000	3 610 000	4 100 000	4 000 000	2n
Total	337 381 921	363 687 031	379 030 232	379 388 070	396 753 970	

Beryllium (concentrates)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Brazil	39	9	10	10	10	2n
China	1 250	1 750	1 750	1 750	1 850	1e
Madagascar	140	30	30	30	20	2n
Mozambique	416	45	80	330	531	1e
Nigeria	35	1	2	0	0	2n
Rwanda	30	20	20	20	20	2n
Uganda	24	15	186	35	35	2n
United States	4 170	4 050	4 160	4 380	4 330	1n
Zambia	7	7	2	6	7	1n
Total	6 111	5 927	6 240	6 561	6 803	

Bismuth

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Bolivia	39	0	55	27	3	1a
Canada	5	4	4	0	0	1e
China	7 000	7 000	7 500	8 000	7 500	2n
Japan	571	540	570	478	480	2n
Kazakhstan	159	200	270	250	101	1a
Mexico	313	251	0	0	0	1e
Peru	145	73	74	248	251	1e
Russia	15	46	45	45	0	2n
Uzbekistan	0	2	2	2	3	2n
Vietnam	2 639	917	993	2 067	1 938	1n
Total	10 886	9 033	9 513	11 117	10 276	

Cadmium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	74	80	46	0	0	1e
Australia	402	204	378	402	328	2b
Brazil	300	450	100	50	20	2n
Bulgaria	313	315	311	343	315	1n
Canada	1 857	1 803	1 800	1 800	1 800	2n
China	10 349	10 000	10 000	10 000	8 700	1b
Germany	520	620	500	450	300	2n
Japan	1 980	1 783	1 880	1 900	1 800	2n
Kazakhstan	850	1 200	1 500	1 500	1 000	2n
Korea, North	200	150	150	150	150	2n
Korea, South	5 100	3 950	4 100	4 000	4 000	2n
Mexico	1 307	952	978	1 051	1 174	1e
Netherlands	960	860	880	854	574	1b
Norway	380	370	344	390	420	2b
Peru	765	772	451	636	460	1e
Poland	305	199	485	292	250	2n
Russia	1 201	1 000	1 000	1 000	1 000	2n
United States	73	131	211	241	212	1e
Uzbekistan	237	250	450	470	500	2n
Total	27 173	25 089	25 564	25 529	23 003	

Copper

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Albania	2 515	5 900	3 070	4 430	3 470	1a
Argentina	17 435	0	0	0	0	1e
Armenia	68 928	91 214	83 291	79 970	71 466	1e
Australia	914 168	925 157	868 019	801 052	826 271	1e
Azerbaijan	1 650	2 213	2 591	2 649	2 516	1n
Bolivia	5 216	4 478	2 822	3 310	3 608	1a
Botswana	1 462	0	0	11 742	34 201	1e

Brazil	385 762	363 268	353 258	335 923	297 653	1e
Bulgaria	112 850	114 240	107 610	104 020	121 120	1e
Canada	548 011	557 242	581 713	509 350	510 782	1e
Chile	5 831 600	5 787 400	5 733 100	5 624 900	5 330 400	1e
China	1 618 480	1 683 450	1 942 000	1 964 400	1 925 600	1e
Colombia	9 918	7 641	9 372	9 194	6 918	1e
Congo, D.R.	1 239 059	1 461 124	1 712 964	1 924 374	2 515 847	1e
Congo, Rep.	18 018	18 760	10 300	10 845	7 877	1e
Cyprus	908	703	0	0	0	1a
Dominican Republic	8 588	6 047	2 193	4 774	5 360	1a
Ecuador	42 200	9 900	49 700	89 170	115 100	1n
Eritrea	17 300	16 008	21 725	20 224	17 098	1n
Finland	46 755	32 861	36 278	32 384	27 637	1e
Georgia	9 100	9 500	8 000	8 130	6 400	1q
Germany	51	40	37	60	67	1e
India	32 530	28 585	25 260	26 580	26 200	3e
Indonesia	651 132	351 220	505 650	731 060	940 770	1n
Iran	316 380	314 143	313 323	313 612	314 995	1a
Kazakhstan	632 550	604 970	548 760	511 940	594 050	1e
Korea, North	15 000	2 000	2 000	2 000	2 000	2q
Kyrgyzstan	8 813	8 640	6 500	8 100	7 500	1n
Laos	154 948	140 935	88 163	38 349	43 766	1n
Mauritania	28 137	29 620	28 491	18 846	13 313	1e
Mexico	696 580	713 704	800 316	782 136	828 189	1e
Mongolia	309 750	290 980	291 010	303 030	268 930	1e
Morocco	32 430	30 720	31 750	50 340	46 000	2n
Myanmar	179 310	219 200	196 500	98 000	1 500	1n
Namibia	15 177	14 940	15 741	950	0	1e
North Macedonia	7 718	7 231	6 625	6 810	7 595	1e
Pakistan	12 538	13 049	13 200	18 806	16 346	1n
Panama	0	147 480	205 548	331 000	350 438	1a
Papua New Guinea	96 277	99 432	82 403	66 958	75 834	1n
Peru	2 416 881	2 437 925	2 153 952	2 329 886	2 445 271	1e
Philippines	69 933	71 892	60 856	51 586	62 100	1e
Poland	401 300	398 900	392 700	391 300	392 500	1e
Portugal	49 064	41 553	32 230	39 443	32 098	1a
Romania	8 555	9 180	9 130	9 240	11 550	1n
Russia	870 500	812 400	924 100	938 800	948 000	1e
Saudi Arabia	59 200	66 610	75 370	75 180	74 690	1n
Serbia	44 096	43 550	52 207	121 150	203 998	1n
Slovakia	21	17	20	76	30	1e
South Africa	46 900	52 501	29 068	44 958	49 194	1e
Spain	187 714	170 556	182 678	142 381	124 949	1a
Sweden	106 140	99 332	100 065	88 108	88 337	1e
Tajikistan	8 490	8 500	978	4 480	19 240	1e
Tanzania	1 500	1 500	1 706	1 521	3 097	1e
Türkiye	87 000	73 300	107 000	108 100	115 000	1q
United States	1 220 000	1 260 000	1 200 000	1 230 000	1 300 000	2e
Uzbekistan	117 000	137 300	142 800	148 500	148 520	1e
Vietnam	25 300	29 240	30 780	33 930	34 710	1n
Zambia	857 847	796 430	882 061	830 357	795 141	1e
Zimbabwe	9 077	8 731	7 933	8 650	10 168	1e
Total	20 675 762	20 633 412	21 074 917	21 447 064	22 225 410	

Gallium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
China	305	356	290	420	606	1e
Japan	3	3	3	3	3	2n
Korea, South	3	2	2	2	2	2b
Russia	6	8	5	5	5	2n
Ukraine	6	5	4	1	0	2n
Total	323	374	304	431	616	

Germanium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
China	95	85	86	132	130	1e
Japan	2	2	2	2	2	2n
Russia	6	5	5	5	5	2n
Ukraine	1	1	1	1	0	2n
United States	2	2	2	2	2	2n
Total	106	95	96	142	139	

Indium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Belgium	20	20	20	20	19	2b
Canada	58	61	61	44	39	1b
China	395	490	528	540	667	1e
France	43	38	40	38	19	2b
Japan	70	70	66	66	66	2b
Korea, South	235	225	210	190	180	2b
Peru	5	7	7	7	7	2n
Russia	4	6	10	10	10	2n
Uzbekistan	1	1	1	1	1	1e
Total	831	918	943	916	1 008	

Lead

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	28 260	29 768	13 600	17 098	18 599	1n
Australia	446 571	500 985	494 271	485 487	437 825	1e
Bolivia	112 140	88 002	64 619	92 767	89 761	1a
Bosnia-Herzegovina	7 070	7 470	6 110	6 310	6 730	1n
Brazil	7 277	5 715	5 351	6 307	8 304	1e
Bulgaria	24 200	23 350	20 680	21 420	23 110	1e

Canada	17 874	22 608	3 770	9 339	8 247	1e
Chile	712	7	1 386	382	457	1e
China	2 033 000	2 097 000	1 969 000	1 964 400	1 945 900	1n
Cuba	25 380	36 000	30 000	30 000	33 000	2n
Finland	0	937	1 532	1 494	1 535	1e
Greece	15 345	14 818	19 717	16 773	10 100	1n
Guatemala	264	377	0	0	0	1e
Honduras	9 893	12 308	13 400	14 000	12 400	2n
India	205 920	197 080	216 280	216 023	223 038	1n
Indonesia	10 880	9 450	7 090	6 735	4 800	1n
Iran	49 600	72 500	81 800	74 100	105 500	2a
Ireland	16 712	16 053	14 401	13 192	14 181	1e
Kazakhstan	86 500	55 700	30 200	29 900	30 100	1e
Korea, North	35 000	25 000	24 000	25 000	25 000	2q
Korea, South	2 340	1 930	1 680	1 530	970	1e
Kosovo	4 700	3 960	3 870	5 250	4 734	1a
Laos	330	250	90	170	1 800	1n
Mexico	230 869	372 106	468 486	272 231	428 971	1e
Mongolia	11 320	13 500	12 400	9 700	10 850	1e
Montenegro	3 100	3 480	640	0	1 350	1e
Morocco	30 360	32 770	38 190	31 340	30 000	2n
Myanmar	24 930	35 090	27 000	12 900	16 000	1n
Namibia	4 291	6 320	8 890	10 130	12 240	1e
Nepal	0	0	1 800	5 550	0	1e
Nigeria	17 900	23 550	20 100	45 500	52 400	1n
North Macedonia	41 900	43 490	44 930	42 870	41 600	1e
Pakistan	4 820	8 090	7 094	7 277	8 886	1n
Peru	288 796	307 021	241 548	264 427	255 443	1e
Poland	40 210	48 510	46 790	29 430	28 770	1e
Portugal	19 440	27 852	28 178	29 526	23 347	1a
Romania	1 200	520	510	690	300	1n
Russia	206 100	207 900	200 700	212 300	220 000	2q
Serbia	9 110	9 970	8 420	6 330	6 660	1e
Slovakia	114	111	102	101	126	1e
South Africa	35 118	42 936	28 048	31 224	40 000	2e
Spain	9 936	11 390	11 397	10 880	9 557	1a
Sweden	64 751	68 635	65 402	65 404	70 339	1e
Tajikistan	47 140	52 720	33 282	48 058	47 510	1n
Türkiye	75 990	71 480	81 520	93 660	81 650	1n
United Kingdom	100	150	100	100	100	2e
United States	280 000	266 000	297 000	286 000	264 000	1e
Uzbekistan	21 300	19 100	18 400	30 500	17 200	1n
Vietnam	14 500	12 500	14 100	16 350	20 560	1n
Total	4 623 263	4 906 459	4 727 874	4 600 155	4 693 950	

Lithium (Li₂O-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	13 810	13 670	12 620	12 870	14 210	1e
Australia	115 200	105 700	89 300	113 600	149 800	1e
Bolivia	10	160	80	410	250	1a
Brazil	786	2 575	4 065	5 670	7 863	1e
Canada	8 750	1 200	0	0	0	1e
Chile	38 850	44 940	49 730	65 060	110 350	1e
China	15 300	19 000	28 800	30 500	57 900	1e
Namibia	600	0	0	0	0	1e
Nigeria	50	10	0	20	20	2n

Portugal	914	710	280	225	210	2a
Russia	37	43	45	46	46	1e
United States	1 500	1 450	1 220	2 505	1 640	1e
Zimbabwe	3 160	2 650	860	1 670	3 540	1e
Total	198 967	192 108	187 000	232 576	345 829	

Mercury

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	50	50	0	0	0	1e
Chile	3	0	0	0	0	1e
China	2 303	2 046	1 993	1 400	637	1e
Kyrgyzstan	88	20	20	12	5	1e
Mexico	230	50	70	40	20	1n
Morocco	5	2	2	2	2	2n
Russia	50	50	30	30	10	2n
Tajikistan	120	91	178	311	326	1e
United States	15	15	15	15	15	2n
Total	2 864	2 324	2 308	1 810	1 015	

Rare Earth Minerals (REO-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	18 556	17 660	19 440	21 970	17 660	1n
Brazil	510	380	450	580	1 580	1e
Burundi	631	195	296	134	0	1e
China	120 000	132 000	140 000	168 000	210 000	1e
India	2 110	2 520	2 500	2 600	2 600	2n
Madagascar	2 400	3 200	4 300	3 900	2 600	1e
Malaysia	990	70	10	30	310	1e
Myanmar	20 400	17 100	21 000	27 100	17 550	1n
Russia	2 596	2 620	2 663	2 276	2 038	1n
United States	14 000	27 620	38 503	42 413	42 499	1n
Total	182 193	203 365	229 162	269 003	296 837	

Rhenium

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Armenia	280	310	260	170	140	2n
Chile	26 052	24 003	14 549	18 831	32 303	1n
China	2 500	2 500	2 500	2 500	2 500	2b
Kazakhstan	1 600	1 000	1 000	1 000	800	2n
Poland	6 290	5 770	6 580	6 401	4 367	1e

Russia	1 000	1 000	2 000	2 000	2 000	2n
United States	8 220	8 360	8 830	9 290	8 870	1e
Uzbekistan	500	800	1 000	2 370	3 000	2n
Total	46 442	43 743	36 719	42 562	53 980	

Selenium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Belgium	200	200	200	200	200	2n
Canada	85	102	102	57	110	1b
China	930	1 250	1 120	1 400	1 400	1e
Finland	109	115	84	100	130	1e
Germany	300	300	300	300	300	2n
India	17	17	20	20	20	2n
Japan	768	740	740	720	710	2b
Kazakhstan	10	10	0	0	0	1n
Mexico	107	127	106	135	141	1e
Peru	52	56	53	48	57	1n
Philippines	100	100	100	200	200	2n
Poland	66	76	74	66	82	1e
Russia	185	193	195	230	200	2n
Serbia	28	20	10	4	10	1e
Sweden	59	53	69	51	20	2n
United States	152	144	66	112	120	2n
Uzbekistan	28	30	40	90	35	1e
Total	3 196	3 533	3 279	3 733	3 735	

Tellurium

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Bulgaria	4	3	4	3	3	1n
Canada	25	13	23	25	24	2n
China	480	380	260	530	500	1e
Japan	58	50	70	68	68	2b
Russia	35	38	55	60	40	2n
Sweden	45	41	42	41	33	1e
United States	0	2	2	10	10	2n
Uzbekistan	2	2	3	5	3	1e
Total	649	529	459	742	681	

Tin

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	6 871	7 738	8 118	8 772	9 001	1e
Bolivia	17 251	17 147	14 709	19 628	17 613	1a
Brazil	17 591	14 867	16 893	15 517	17 019	1q
Burundi	122	143	121	95	80	2e
China	87 070	85 584	94 460	83 144	67 365	1q
Colombia	0	31	233	0	0	1e
Congo, D.R.	8 950	10 990	14 670	15 750	27 220	1e
India	16	12	13	20	34	1e
Indonesia	82 809	76 390	52 617	34 466	56 093	1e
Laos	430	530	600	890	1 130	1e
Malaysia	3 868	3 611	2 963	3 013	3 521	1e
Mongolia	25	20	0	11	46	1e
Myanmar	54 500	38 900	33 440	33 950	40 500	1n
Namibia	0	7	242	492	533	1n
Nigeria	7 850	6 900	5 970	6 890	8 340	1n
Peru	18 601	19 853	20 647	26 995	28 231	1e
Portugal	111	108	104	60	60	1a
Russia	1 531	2 471	2 559	3 317	3 507	1e
Rwanda	3 405	2 780	2 030	2 260	3 115	1e
Spain	81	101	115	255	315	1a
Tanzania	6	18	35	158	404	1e
Thailand	47	46	198	220	85	1e
Uganda	53	15	0	7	0	1e
United Kingdom	220	0	0	0	0	1e
Vietnam	5 521	6 071	7 260	7 666	8 139	1q
Total	316 929	294 333	277 997	263 576	292 351	

Zinc

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	500	500	1 000	500	900	2n
Argentina	22 050	14 876	8 300	6 188	3 893	1n
Armenia	6 946	7 162	8 684	7 706	7 148	1e
Australia	1 146 781	1 337 321	1 314 910	1 315 160	1 243 715	1e
Bolivia	519 630	527 521	358 411	499 257	517 523	1a
Bosnia-Herzegovina	9 350	9 160	6 610	7 310	7 690	1n
Brazil	169 773	163 403	174 332	159 913	155 177	1e
Bulgaria	20 390	19 170	17 520	17 910	19 330	1e
Burkina Faso	99 162	106 680	78 990	84 170	22 880	1e
Canada	304 964	269 353	246 995	230 187	208 147	1e
Chile	26 810	5 620	28 662	27 915	24 092	1e
China	3 721 000	4 213 000	4 058 000	4 136 000	4 041 000	1e
Congo, D.R.	1 047	1 607	15 305	16 079	13 578	1e
Congo, Rep.	460	4 830	1 100	7 500	20 000	2e
Cuba	42 250	57 830	57 730	44 500	51 700	1n
Dominican Republic	4 038	5 527	2 361	4 896	5 485	1a
Eritrea	125 000	121 260	121 930	129 641	120 529	1n
Finland	85 067	69 800	61 213	59 080	62 433	1e
Greece	21 515	22 322	28 090	22 621	10 502	1n
Honduras	28 422	29 454	30 200	32 300	28 200	2n
India	728 400	719 220	756 090	801 035	839 051	1n

Indonesia	21 100	25 215	20 390	14 780	11 375	1n
Iran	143 600	209 900	215 200	195 100	228 700	2a
Ireland	131 742	122 463	127 008	112 249	103 264	1e
Kazakhstan	346 000	321 900	341 400	318 400	315 100	1q
Korea, North	30 000	25 700	25 000	28 000	28 000	2q
Korea, South	3 660	4 110	4 250	4 370	3 960	1e
Kosovo	3 600	3 050	3 890	3 620	4 108	1a
Laos	3 080	1 250	860	5 400	18 750	1n
Mexico	662 355	859 194	1 008 252	742 926	876 985	1e
Mongolia	43 950	41 550	38 150	39 490	38 300	1n
Montenegro	10 670	9 520	10 130	9 360	8 070	1e
Morocco	57 700	43 570	35 810	40 230	40 000	2n
Myanmar	12 240	13 680	11 310	6 200	10 200	1n
Namibia	118 310	124 630	62 260	41 180	38 400	1e
Nigeria	26 920	23 220	26 620	32 220	55 650	1n
North Macedonia	29 720	31 040	31 750	30 070	29 730	1e
Pakistan	26 980	37 365	35 054	35 391	42 349	1n
Peru	1 471 846	1 382 753	1 334 570	1 533 135	1 369 649	1e
Poland	43 000	40 000	43 000	0	0	1e
Portugal	144 983	161 569	176 849	188 395	182 262	1a
Romania	330	1 260	100	2 500	6 970	1n
Russia	288 000	275 400	260 700	287 900	310 000	2e
Saudi Arabia	27 100	27 270	26 790	22 710	24 660	1n
Serbia	8 230	7 510	11 480	11 310	9 960	1e
Slovakia	151	119	96	25	65	1e
South Africa	28 129	125 157	160 816	193 785	224 400	2e
Spain	106 352	90 980	90 368	90 480	82 963	1a
Sweden	237 715	247 657	234 811	236 416	233 958	1e
Tajikistan	82 330	78 150	48 416	70 573	59 055	1n
Türkiye	184 500	146 800	136 300	180 500	184 800	1e
United States	824 000	753 000	723 000	704 000	761 000	1e
Uzbekistan	38 400	35 400	37 200	42 000	42 000	2n
Vietnam	12 000	13 000	11 150	10 700	14 420	1n
Total	12 252 248	12 988 998	12 669 413	12 843 283	12 762 076	

6.4.3 Precious Metals

Gold

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Algeria	286	70	58	71	138	1e
Angola	0	23	59	32	79	1e
Argentina	58 397	53 125	34 936	37 280	41 370	1e
Armenia	4 967	5 825	5 284	3 714	4 230	1n
Australia	309 700	325 572	327 952	307 577	302 642	1e
Azerbaijan	4 239	3 897	3 635	3 427	3 271	1n
Benin	5	5	5	5	5	2n
Bolivia	31 599	42 000	23 207	45 662	53 374	1a
Botswana	1 105	943	851	649	427	1e
Brazil	85 198	89 988	98 922	93 103	83 300	2e
Bulgaria	8 995	7 467	9 349	9 695	8 529	1n
Burkina Faso	52 622	50 559	62 405	67 126	58 159	1a
Burundi	598	573	863	986	914	1e
Cambodia			0	1 466	3 320	1n

Cameroon	448	341	233	440	175	1e
Canada	194 155	190 889	177 884	196 128	205 831	1e
Central African Republic	142	359	401	840	1 507	1e
Chile	37 066	38 455	33 895	34 248	30 966	1e
China	401 119	380 230	365 340	328 980	372 048	1e
Colombia	35 965	38 006	48 561	55 321	51 362	1e
Congo, D.R.	36 777	33 752	29 597	31 421	29 498	1e
Congo, Rep.	150	150	150	150	150	2n
Costa Rica	3 699	4 500	600	647	790	2e
Cote d'Ivoire	24 488	32 568	38 523	41 855	48 320	1e
Cyprus	47	33	61	0	0	1a
Dominican Republic	31 633	31 801	28 154	25 437	22 282	1a
Ecuador	8 213	6 293	9 086	15 026	17 030	1n
Egypt	14 694	14 946	14 069	12 919	13 716	1n
Eritrea	3 768	2 443	3 019	2 140	3 200	1n
Eswatini	4	6	1	0	4	1e
Ethiopia	3 495	2 800	7 500	9 600	5 900	1e
Fiji	1 281	1 106	1 090	1 107	584	1e
Finland	8 732	7 927	8 668	9 082	8 390	1e
French Guiana	1 320	1 157	1 058	1 225	916	1e
Gabon	83	107	55	1 106	1 063	1e
Georgia	2 913	4 052	5 401	3 513	4 908	1q
Germany	9	15	10	12	14	1e
Ghana	149 057	142 371	125 114	87 721	116 179	1e
Greece	2 839	2 333	2 177	3 315	1 752	1n
Guinea	25 823	27 708	91 798	102 046	86 236	1e
Guyana	19 069	19 963	18 209	15 522	15 129	1e
Honduras	2 070	3 035	1 963	2 824	1 911	1n
India	1 664	1 742	1 127	1 251	1 302	1e
Indonesia	135 250	108 900	66 190	72 660	96 800	1n
Iran	7 600	8 140	6 919	6 990	7 472	1a
Japan	6 453	6 313	7 590	6 225	4 886	1e
Kazakhstan	100 288	106 559	116 964	114 843	129 779	1e
Kenya	472	395	150	292	564	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	2q
Korea, South	239	181	170	162	128	1e
Kyrgyzstan	22 602	26 127	24 150	24 870	27 800	1n
Laos	5 579	5 207	5 097	8 742	9 383	1n
Liberia	7 289	5 068	4 396	7 860	11 718	1e
Madagascar	3 052	2 423	1 779	2 000	2 000	2n
Malawi			0	55	187	1e
Malaysia	2 978	3 151	1 716	1 781	1 828	1e
Mali	60 893	66 739	71 200	69 400	72 200	1e
Mauritania	9 236	13 554	14 125	6 499	17 711	1n
Mexico	141 143	133 893	142 787	133 340	147 674	1e
Mongolia	20 655	16 235	20 226	19 054	19 383	1e
Morocco	386	221	143	147	167	1n
Mozambique	507	430	488	764	1 264	1e
Myanmar	467	267	871	773	467	1e
Namibia	6 632	7 016	6 718	7 648	7 438	1n
New Zealand	10 045	8 217	5 860	5 815	6 674	1e
Nicaragua	7 703	9 190	8 087	11 144	11 549	1e
Niger	6 207	5 224	2 361	4 010	2 601	1e
Nigeria	10 000	9 000	1 520	2 000	3 048	1n
North Macedonia	767	593	448	470	600	2n
Panama	0	1 869	2 633	4 405	4 347	1a
Papua New Guinea	67 282	71 050	52 265	39 135	42 310	1n
Peru	125 934	113 586	85 173	97 190	96 966	1e
Philippines	20 765	20 687	21 030	25 332	29 007	1e
Poland	523	674	878	768	769	1e
Romania	900	500	500	500	500	2q
Russia	279 850	305 050	308 560	313 830	320 000	2e

Rwanda	2 163	2 000	2 000	2 000	2 000	2n
Saudi Arabia	13 397	12 418	13 222	11 153	12 268	1e
Senegal	12 508	14 550	12 408	14 678	15 220	1n
Serbia	839	1 452	1 550	4 794	7 290	1n
Sierra Leone	464	75	25	149	150	2n
Slovakia	515	346	336	392	399	1e
Solomon Islands				0	121	1e
South Africa	117 144	105 185	95 786	105 036	96 400	1e
Spain	1 991	1 913	1 609	1 822	1 369	1a
Sudan	93 600	57 700	35 700	49 700	41 800	1e
Suriname	26 006	24 516	21 214	18 634	19 541	1n
Sweden	7 866	7 972	8 249	8 805	8 054	1e
Taiwan	4	6	3	1	1	1e
Tajikistan	6 432	8 100	8 764	9 330	9 225	1n
Tanzania	39 304	48 408	55 805	59 638	56 943	1e
Togo	10 000	8 227	3 565	3 600	3 600	2n
Türkiye	27 100	39 000	42 100	39 290	31 020	1e
Uganda	12	7	10	13	8	1e
United Kingdom	0	50	28	79	266	1n
United States	225 528	201 000	193 400	187 000	173 000	1e
Uruguay	393	0	0	0	0	1e
Uzbekistan	92 716	100 900	100 000	100 360	105 540	1n
Venezuela	9 100	9 100	9 000	9 000	9 000	2n
Vietnam	570	540	559	664	1 114	1n
Zambia	4 044	4 522	3 994	3 987	3 409	1n
Zimbabwe	35 054	29 429	20 873	31 477	37 265	1e
Total	3 366 881	3 313 010	3 202 464	3 214 975	3 323 144	

Palladium

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Australia	430	390	420	380	390	1e
Canada	20 880	21 928	10 897	15 433	16 099	1e
China	1 300	1 300	1 300	1 300	1 300	2n
Finland	1 157	699	858	1 036	960	1e
Poland	5	5	4	4	4	2n
Russia	92 570	92 910	81 990	83 640	80 870	1n
Serbia	55	100	100	140	110	1e
South Africa	80 629	80 684	66 264	84 336	78 155	1e
United States	14 267	14 323	14 555	13 725	10 096	1n
Uzbekistan	0	28	91	160	93	1e
Zimbabwe	12 094	11 640	12 890	12 619	13 935	1e
Total	223 387	224 007	189 369	212 773	202 012	

Platinum

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Australia	110	95	100	90	100	1e
Canada	7 460	9 633	5 524	4 484	5 490	1e
China	2 500	2 500	2 500	2 500	2 800	2n
Colombia	270	178	414	618	501	1e

Finland	1 576	953	1 277	1 447	1 243	1e
Poland	8	8	6	5	5	2n
Russia	21 370	22 430	21 740	19 840	18 660	1n
Serbia	6	10	22	30	10	1e
South Africa	137 053	132 989	111 993	141 626	134 750	1e
United States	4 165	4 152	4 203	4 017	3 003	1n
Zimbabwe	14 703	13 857	15 004	14 732	16 460	1e
Total	189 221	186 805	162 783	189 389	183 022	

Rhodium

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Canada	750	750	400	450	500	2n
Russia	2 146	2 115	1 800	1 650	1 805	1n
South Africa	18 608	19 545	16 972	20 875	18 865	1e
United States	100	100	100	100	100	2n
Zimbabwe	1 334	1 224	1 368	1 334	1 461	1e
Total	22 938	23 734	20 640	24 409	22 731	

Silver

Country	2018 kg	2019 kg	2020 kg	2021 kg	2022 kg	Rem
Algeria	30	30	20	12	20	2n
Argentina	1 023 768	1 070 670	767 087	843 230	882 140	1n
Armenia	16 700	17 922	19 493	19 480	18 920	1n
Australia	1 254 480	1 325 089	1 337 344	1 329 718	1 169 252	1e
Azerbaijan	8 943	8 160	7 590	8 988	12 600	1n
Bolivia	1 191 024	1 153 109	929 909	1 289 456	1 214 301	1a
Botswana			0	10 383	31 174	1e
Brazil	49 600	50 000	68 430	71 540	74 650	1n
Bulgaria	47 016	40 755	39 126	38 661	26 437	1n
Burkina Faso	6 160	5 670	10 012	8 897	7 326	1a
Canada	403 589	398 773	306 913	319 119	334 480	1e
Chile	1 370 237	1 309 321	1 575 794	1 383 041	1 274 363	1e
China	3 440 000	3 468 000	3 405 800	3 511 600	3 477 400	1n
Colombia	16 691	14 479	19 948	26 698	35 836	1e
Congo, D.R.	3 400	3 400	3 400	3 400	3 400	2n
Cote d'Ivoire	510	300	956	1 000	1 000	2n
Cyprus	180	97	486	0	0	1a
Dominican Republic	166 510	108 685	87 889	79 688	73 413	1a
Ecuador	192	2 892	9 457	23 698	27 210	1n
Eritrea	31 000	44 836	65 284	68 624	49 855	1n
Ethiopia	1 000	800	1 000	1 000	800	2n
Fiji	413	692	479	622	475	1e
Finland	12 849	40 461	54 833	45 338	35 182	1e
Georgia	20 042	4 100	11 200	12 700	22 400	1q
Germany	5 000	4 000	4 000	6 000	7 000	1e
Ghana	4 000	4 000	3 000	1 000	1 000	2n
Greece	39 150	37 790	51 111	44 086	32 870	1n
Guatemala	0	0	0	0	0	1e
Honduras	31 182	45 174	40 400	37 495	30 000	2n

India	679 386	609 340	705 795	647 140	713 625	1e
Indonesia	308 810	487 400	338 100	295 920	298 650	1n
Iran	50 000	50 000	50 000	50 000	50 000	2n
Ireland	1 160	1 578	918	1 342	2 750	1e
Japan	3 596	3 467	4 192	3 339	2 923	1e
Kazakhstan	969 347	1 022 068	1 035 181	1 004 789	1 013 070	1e
Korea, North	70 000	50 000	50 000	50 000	50 000	2q
Korea, South	7 090	5 245	7 203	10 001	7 100	1e
Kyrgyzstan	18 328	19 010	16 127	16 549	17 400	1n
Laos	37 465	34 443	29 075	26 998	22 685	1n
Malaysia	1 542	686	423	672	414	1e
Mali	2 844	3 000	3 000	3 000	3 000	2n
Mexico	7 243 341	7 485 602	7 424 554	6 492 180	7 067 536	1e
Mongolia	69 120	79 864	77 762	79 035	73 476	1e
Morocco	200 530	216 580	189 220	194 360	200 340	1n
Namibia	3 850	7 765	7 520	5 847	5 200	1n
New Zealand	6 332	4 060	1 393	3 055	3 922	1e
Nicaragua	11 263	17 362	20 411	21 460	21 697	1e
Niger	300	100	120	87	100	2n
North Macedonia	15 060	15 620	16 090	15 470	15 260	1n
Panama	0	35 217	49 628	78 419	87 498	1a
Papua New Guinea	113 890	162 630	129 695	103 210	111 710	1n
Peru	3 999 990	3 706 760	2 768 240	3 375 645	3 084 039	1e
Philippines	29 782	31 267	24 024	30 856	56 227	1e
Poland	1 264 300	1 249 000	1 218 200	1 302 900	1 315 800	1e
Portugal	90 760	95 270	95 954	97 945	78 412	1n
Romania	18 000	18 000	18 000	18 000	18 000	2q
Russia	1 400 100	1 533 000	1 457 000	1 508 000	1 470 000	2e
Saudi Arabia	6 480	7 123	7 479	8 604	9 464	1e
Senegal	940	898	1 090	1 310	1 325	1e
Serbia	8 970	14 502	15 900	11 600	10 900	1e
Slovakia	345	295	269	328	354	1e
Solomon Islands				0	25	1e
South Africa	46 467	55 903	38 118	37 146	45 700	1q
Spain	88 514	77 501	92 662	80 848	58 235	1a
Sudan	1 000	1 000	1 000	1 000	2 000	2n
Sweden	443 624	419 926	400 929	428 585	422 086	1e
Tajikistan	9 500	11 100	11 350	11 500	11 000	2n
Tanzania	12 041	12 550	13 187	9 324	13 602	1e
Türkiye	202 400	241 590	98 270	162 670	143 260	1e
United Kingdom	0	130	100	358	1 328	1n
United States	934 000	981 000	1 080 000	1 020 000	1 010 000	1e
Uzbekistan	161 700	172 000	196 000	211 500	217 725	1n
Vietnam	0	500	555	670	1 451	1n
Zimbabwe	1 542	1 500	1 522	2 677	1 545	1e
Total	27 677 375	28 101 057	26 517 217	26 609 813	26 584 338	

6.4.4 Industrial Minerals

Asbestos

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Brazil	111 439	12 205	77 057	172 256	182 965	1e
China	170 000	125 000	120 000	130 000	196 000	1e

Kazakhstan	202 900	210 700	227 400	250 100	250 100	1e
Russia	752 917	789 600	707 811	750 000	629 000	1e
Total	1 237 256	1 137 505	1 132 268	1 302 356	1 258 065	

Baryte

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	39 426	31 138	32 940	44 662	45 000	2n
Argentina	7 225	3 898	0	0	0	1e
Australia	6 535	1 982	0	1 127	3 922	1e
Bolivia	53 163	39 458	9 611	26 780	48 952	1a
Brazil	9 377	9 223	1 849	361	4 931	1e
Bulgaria	70 000	72 000	41 000	72 000	75 000	1e
Canada	50 000	40 000	40 000	50 000	50 000	2n
China	2 900 000	2 900 000	2 500 000	2 200 000	2 000 000	2n
Colombia	3 211	2 270	2 046	1 164	1 034	1e
Ecuador	2 868	2 000	2 000	1 000	500	2n
Egypt	4 000	4 000	4 000	4 000	4 000	2n
Germany	37 897	30 474	26 656	27 921	24 128	1e
Guatemala	63	50	50	100	20	2n
India	2 488 756	2 739 035	2 500 000	2 500 000	2 000 000	2n
Iran	477 227	247 207	285 756	297 469	224 626	1a
Kazakhstan	773 200	530 600	445 300	1 016 500	650 000	2n
Korea, North	4 200	4 000	4 000	4 000	4 000	2n
Laos	35 000	48 600	96 278	37 403	302 709	1e
Mexico	366 234	415 180	480 954	320 642	498 225	1e
Morocco	899 365	1 119 811	501 939	840 486	1 100 000	2n
Myanmar	9 658	12 439	2 642	2 220	32 089	1e
Nigeria	387	370	544	460	500	2n
Pakistan	88 847	116 480	55 341	51 553	128 000	1e
Peru	15 621	16 373	5 242	10 361	29 293	1e
Russia	265 300	163 000	265 000	252 000	260 000	2n
Slovakia	11 100	0	0	0	0	1e
Thailand	67 490	33 644	22 394	4 988	6 509	1e
Tunisia	10 000	10 000	10 000	11 100	10 000	2n
Türkiye	465 138	413 811	283 161	256 076	344 322	1e
United Kingdom	50 000	46 000	46 000	27 000	27 000	2n
United States	366 000	414 000	125 409	257 450	361 582	1e
Vietnam	50 000	43 000	51 500	39 600	42 000	2n
Total	9 627 288	9 510 043	7 841 612	8 358 423	8 278 342	

Bentonite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	36 000	36 700	34 200	31 700	32 000	2n
Argentina	184 969	120 000	98 000	133 235	141 718	1e
Australia	87 330	56 000	42 713	46 658	50 000	2n
Azerbaijan	212 336	222 519	155 112	174 242	175 875	1e
Bolivia	2	0	0	0	5 057	1a
Bosnia-Herzegovina	87 358	94 601	69 183	75 761	28 173	1e
Brazil	500 000	403 763	217 055	220 000	220 000	2n

Bulgaria	45 000	45 000	40 900	72 100	72 000	2n
Chile	525	395	170	170	1 372	1e
China	5 600 000	5 600 000	3 650 000	2 500 000	2 100 000	1e
Colombia	166 778	145 643	185 418	88 339	58 815	1e
Cuba	630	504	486	517	498	1e
Cyprus	98 800	83 113	92 645	81 655	86 562	1a
Czechia	277 000	357 000	226 000	198 000	167 000	1e
Denmark	56 173	48 197	40 054	20 281	24 128	1e
Egypt	10 000	7 000	7 000	7 000	7 000	2n
France	35 696	36 000	36 000	36 000	36 000	2n
Georgia	25 498	27 872	12 750	16 315	16 000	2n
Germany	379 000	366 000	333 000	363 000	316 000	1e
Greece	1 365 374	1 393 958	979 329	1 253 789	1 106 201	1a
Guatemala	16 953	12 700	6 000	7 378	7 400	2n
Hungary	25 000	41 500	42 000	42 000	38 501	1a
India	3 661 450	3 605 000	3 740 000	3 550 000	3 500 000	2n
Iran	423 604	761 079	714 684	1 153 283	1 341 023	1a
Italy	100 067	82 720	65 989	32 252	102 264	1e
Japan	250 000	250 000	250 000	250 000	260 000	2n
Kazakhstan	120 000	52 000	59 200	60 000	60 000	2n
Korea, South	31 824	43 886	5 314	34 243	341 335	1e
Mexico	264 800	24 321	79 219	80 000	80 000	2n
Morocco	172 749	188 081	92 387	134 340	135 000	2n
Mozambique	1 091	77 734	80 189	118 692	113 985	1e
Myanmar	540	0	500	500	0	1e
New Zealand	4 482	500	500	500	500	2n
North Macedonia	2 945	682	2 196	1 277	0	1e
Norway	3 234	0	0	12 803	0	1e
Pakistan	74 268	48 332	107 742	59 744	45 000	2e
Peru	2 383	46 887	25 532	56 199	22 931	1e
Philippines	10 800	13 050	4 720	6 059	22 603	1e
Poland	560	500	920	500	0	1e
Romania	34 809	41 964	45 495	54 648	61 165	1e
Russia	714 000	720 000	720 000	500 000	535 000	2n
Slovakia	269 990	260 120	261 640	274 350	302 135	1e
Slovenia	113	99	77	75	68	1e
South Africa	173 486	105 084	85 558	98 606	103 200	2e
Spain	178 463	160 477	205 773	171 572	186 363	1a
Türkiye	1 331 955	1 533 547	1 658 837	2 020 356	2 018 993	1e
Turkmenistan	10 000	10 000	10 000	10 000	10 000	2n
Ukraine	178 200	124 700	125 000	125 000	50 000	2n
United States	4 570 000	4 520 000	4 250 000	4 580 000	4 580 000	1e
Uruguay	7 760	6 730	16 550	19 710	21 574	1e
Uzbekistan	12 559	32 588	48 739	59 053	60 000	2n
Total	21 816 554	21 808 546	18 924 776	18 831 902	18 643 439	

Boron Minerals

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	71 212	181 818	134 604	188 870	164 120	1e
Bolivia	216 403	214 269	258 143	312 906	295 515	1a
Chile	398 411	352 255	288 103	363 032	421 935	1e
China	80 000	250 000	250 000	250 000	300 000	1e
Iran	851	2 026	1 495	2 000	2 735	1a
Kazakhstan	30 000	30 000	30 000	30 000	30 000	2n

Peru	100 552	111 108	43 645	246 362	292 986	1e
Russia	88 000	81 800	85 500	89 600	88 800	1n
Türkiye	2 432 000	2 040 000	1 680 000	2 540 000	2 590 000	1e
United States	1 075 000	1 030 000	830 000	900 000	1 160 000	2n
Total	4 492 429	4 293 276	3 601 490	4 922 770	5 346 091	

Diamonds (Gem)

Country	2018 ct	2019 ct	2020 ct	2021 ct	2022 ct	Rem
Angola	8 490 500	8 209 365	7 118 240	7 597 280	7 606 550	1e
Australia	280 160	243 090	199 600	0	0	1e
Botswana	17 064 600	16 580 900	11 807 600	15 887 200	17 135 300	1e
Brazil	82 810	53 240	41 320	46 670	45 490	1e
Canada	22 789 001	18 573 661	14 208 812	16 865 216	17 728 144	1e
Central African Republic	10 860	22 040	49 470	74 220	90 900	1c
China	99	51	21	0	0	1c
Congo, D.R.	1 815 745	2 020 450	2 588 850	2 594 650	1 948 550	1e
Cote d'Ivoire	4 540	3 989	4 012	4 121	3 969	1e
Ghana	46 025	27 030	20 230	43 340	61 690	1e
Guinea	219 530	171 880	96 430	204 990	160 000	1c
Guyana	62 110	54 990	19 240	45 106	83 614	1e
India	13 877	10 301	5 010	0	0	1e
Lesotho	1 294 283	1 113 526	481 243	339 452	1 275 887	1c
Liberia	45 330	33 560	32 760	37 820	26 590	1e
Namibia	1 985 670	1 722 830	1 428 445	1 446 964	2 078 670	1e
Russia	22 973 133	25 804 591	18 711 931	23 470 180	25 154 350	1e
Sierra Leone	402 530	433 054	603 360	541 400	447 800	1c
South Africa	4 594 990	3 373 210	4 160 000	4 494 000	4 213 000	1e
Tanzania	324 105	354 240	125 110	53 165	375 715	1e
Venezuela	800	0	794	457	1 665	1c
Zimbabwe	975 730	423 840	534 090	844 860	968 800	1e
Total	83 476 428	79 229 838	62 236 568	74 591 091	79 406 684	

Diamonds (Ind)

Country	2018 ct	2019 ct	2020 ct	2021 ct	2022 ct	Rem
Angola	943 390	912 150	790 920	1 124 200	1 156 760	1e
Australia	13 727 890	11 911 450	9 780 400	0	0	1e
Botswana	7 313 400	7 106 100	5 060 400	6 808 800	7 343 700	1e
Brazil	168 130	108 085	83 890	94 760	92 350	1e
Cameroon	1 805	1 737	2 438	2 668	2 431	1c
Central African Republic	2 710	5 510	12 370	18 550	27 150	1c
Congo, D.R.	13 315 465	11 449 240	10 355 400	10 378 700	8 307 100	1e
Congo, Rep.	46 768	2 963	11 157	4 125	3 534	1c
Cote d'Ivoire	1 140	0	0	0	0	1e
Ghana	11 505	6 760	5 060	10 835	20 560	1e
Guinea	73 180	57 300	32 145	68 330	53 330	1c
India	24 560	18 515	8 910	266	388	1e
Liberia	30 220	22 370	21 840	25 210	28 800	1e
Namibia	104 510	90 675	75 180	76 156	109 405	1e
Russia	20 187 926	19 466 621	12 474 620	15 646 790	16 769 560	1e

Sierra Leone	339 070	391 403	83 040	297 700	241 200	1c
South Africa	5 316 840	3 807 495	4 318 000	5 224 000	5 447 000	1e
Tanzania	57 195	62 510	22 080	9 380	66 300	1e
Togo	0	16	2	0	0	1e
Venezuela	1 200	0	0	0	0	1c
Zimbabwe	2 276 690	1 695 350	2 136 370	3 379 440	3 875 220	1e
Total	63 943 594	57 116 250	45 274 222	43 169 910	43 544 788	

Diatomite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	2 468	2 437	3 040	3 066	3 000	2n
Argentina	72 490	94 610	98 575	156 342	183 361	1e
Australia	4	8	2 011	25 935	26 000	2n
Brazil	20 562	17 673	35 574	10 665	35 844	1e
Chile	24 736	21 328	21 477	27 096	24 279	1e
China	280 000	420 000	362 000	200 000	270 000	2n
Costa Rica	3 972	4 000	4 000	16 462	14 642	1e
Czechia	31 000	43 000	46 000	18 000	44 000	1e
Denmark	99 400	108 800	115 000	120 600	143 100	1e
Ethiopia	5 000	5 000	5 000	5 000	5 000	2n
France	90 000	90 000	90 000	50 000	50 000	2n
Germany	58 340	53 802	51 511	58 519	50 321	1e
Iran	0	600	170	5 550	0	1a
Kenya	1 548	921	928	763	1 401	1e
Korea, South	25 902	40 910	65 240	49 616	49 097	1e
Mexico	152 028	129 274	144 105	140 928	107 062	1e
Mozambique	34 200	72 439	35 257	72 914	51 449	1e
Peru	96 532	91 103	85 406	94 860	104 660	1e
Poland	580	680	810	980	1 170	1e
Russia	50 600	51 000	51 000	176 800	180 000	2n
Spain	61 056	62 741	59 250	55 982	87 095	1a
Türkiye	242 789	220 757	100 327	207 732	237 267	1e
Uganda		0	96	433	21	1e
United States	957 000	768 000	822 000	998 000	827 000	1e
Total	2 310 207	2 299 083	2 198 777	2 496 243	2 495 769	

Feldspar

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	170 000	170 000	170 000	170 000	170 000	2n
Argentina	124 500	10 000	32 000	40 000	40 000	2n
Australia	542	50	1 241	52	945	1e
Austria	35 000	35 000	35 000	35 000	35 000	1e
Brazil	592 284	632 349	450 573	491 042	756 364	1e
Chile	2 789	55	329	0	0	1e
China	2 500 000	2 450 000	2 450 000	2 450 000	2 500 000	2n
Colombia	141 794	180 235	134 847	99 755	132 322	1e
Cuba	3 000	2 100	14 100	17 800	5 900	1e
Czechia	449 000	460 000	419 000	504 000	493 000	1e
Dominican Republic	1 200	1 000	0	0	0	1a

Ecuador	43 197	45 000	0	0	0	1e
Egypt	230 000	230 000	200 000	200 000	200 000	2n
Finland	17 469	17 997	16 137	52 706	63 034	1e
France	550 000	500 000	500 000	500 000	450 000	2n
Germany	252 693	235 289	221 527	223 007	205 330	1e
Guatemala	30 257	28 771	25 578	34 232	30 000	2n
India	8 486 262	6 172 997	4 820 000	6 430 000	6 000 000	2n
Indonesia	749 300	480 800	287 400	313 200	325 700	1e
Iran	1 320 452	2 415 368	1 910 505	2 803 515	3 094 356	1a
Italy	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	2n
Korea, South	617 166	396 898	415 426	987 309	851 046	1e
Malaysia	414 441	241 189	144 487	168 570	216 394	1e
Mexico	907 755	516 196	903 385	390 076	325 235	1e
Morocco	75 298	101 947	185 772	427 387	430 000	2n
Nigeria	41 355	33 702	19 453	43 997	20 000	2n
North Macedonia	30 813	29 519	13 115	26 625	35 815	1e
Norway	88 000	80 000	69 000	60 000	60 000	2n
Pakistan	151 743	295 381	343 075	451 985	413 000	2e
Peru	31 588	29 134	24 132	27 274	24 358	1e
Philippines	47 000	47 000	47 000	47 000	47 000	2n
Poland	71 480	42 160	29 440	11 110	15 030	1e
Portugal	130 475	106 754	122 969	145 362	167 673	1a
Romania	20 000	20 000	20 000	20 000	20 000	2n
Russia	281 300	281 300	290 000	290 000	300 000	2n
Saudi Arabia	175 594	216 000	523 000	621 000	652 000	1e
Slovakia	16 800	19 100	29 100	10 000	22 900	1e
South Africa	76 803	76 255	48 427	67 113	78 800	2e
Spain	616 229	855 139	911 095	820 749	716 535	1a
Sri Lanka	70 000	65 400	50 000	60 000	50 000	2n
Sudan	36 000	17 000	25 000	6 400	10 000	2n
Sweden	28 000	25 000	27 537	28 000	25 000	2n
Thailand	1 117 803	1 251 143	1 105 344	1 346 997	1 953 918	1e
Türkiye	11 474 040	9 447 810	10 050 911	12 936 959	15 781 540	1e
Uganda			0	95	1 388	1e
Ukraine	50 000	60 000	50 000	60 000	30 000	2n
United States	550 000	450 000	420 000	380 000	540 000	1e
Uruguay	380	100	210	240	300	1e
Venezuela	30 000	30 000	30 000	30 000	30 000	2n
Total	35 049 802	31 001 138	29 786 115	36 028 557	39 519 883	

Fluorspar

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	10 000	50 000	10 000	10 000	27 600	1e
Argentina	7 924	1 500	48 000	48 000	10 000	2n
Brazil	28 195	24 399	24 730	28 158	28 969	1e
Canada	20 000	80 000	50 000	50 000	20 000	2n
China	3 500 000	4 000 000	4 300 000	5 400 000	5 700 000	1e
Colombia	46	0	0	0	0	1e
Egypt	1 000	1 000	1 000	1 000	1 000	2n
Germany	49 197	79 959	64 933	56 632	104 461	1e
India	1 079	1 315	1 052	1 237	1 100	1e
Iran	55 000	54 824	116 159	65 000	62 005	1a
Korea, North	6 900	6 900	6 900	6 000	6 000	2n
Mexico	1 959 654	1 931 532	1 571 269	1 007 118	1 856 557	1e
Mongolia	555 230	699 400	678 900	644 270	387 740	1e
Morocco	87 874	73 244	83 833	189 012	50 000	2n

Nigeria		4 730	17 557	6 275	25 900	1n
Pakistan	2 777	4 186	5 981	7 841	9 200	2e
Russia	6 000	4 000	32 000	76 000	76 000	2n
South Africa	212 000	252 974	330 000	400 000	410 000	2n
Spain	176 188	145 185	185 958	187 225	153 415	1a
Tajikistan	400	1 000	10 000	10 000	2 000	2n
Thailand	16 700	22 247	9 807	9 766	59 243	1e
Türkiye	6 200	14 400	19 896	10 348	17 252	1e
United Kingdom	11 000	14 000	15 000	16 674	10 000	2n
Vietnam	238 700	238 003	219 920	215 027	217 975	1n
Total	6 952 064	7 704 798	7 802 895	8 445 583	9 236 417	

Graphite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Austria	150	100	100	100	100	2n
Brazil	78 981	81 770	67 020	78 555	79 372	1e
Canada	11 000	4 332	16 239	9 743	13 000	1e
China	1 164 000	1 185 000	1 090 000	1 189 000	1 161 000	1e
Colombia	0	135	0	0	0	1e
Germany	222	207	108	181	185	1e
India	39 030	34 674	35 386	57 264	82 439	1e
Korea, North	45 000	45 000	45 000	30 000	20 000	2n
Korea, South	670	302	3 052	18 297	23 798	1e
Madagascar	52 951	45 106	61 405	127 562	116 700	1e
Mexico	4 130	2 342	2 033	1 509	3 420	1e
Mozambique	104 000	153 000	18 159	77 116	165 932	1e
Namibia	3 456	0	0	0	0	1e
Norway	10 000	9 780	5 549	6 293	10 380	1n
Russia	11 900	17 500	12 900	17 300	18 800	1e
Sri Lanka	3 800	3 100	2 500	3 388	3 299	1e
Türkiye	16 752	9 990	15 205	28 336	27 715	1e
Ukraine	15 000	10 000	10 000	17 000	846	1n
Vietnam	1 500	3 500	3 700	1 200	500	2n
Total	1 562 542	1 605 838	1 388 356	1 662 844	1 727 486	

Gypsum and Anhydrite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	36 161	24 682	21 779	16 349	10 991	1e
Albania	102 016	106 070	111 880	116 295	78 239	1a
Algeria	2 200 000	2 200 000	2 200 000	2 500 000	2 500 000	2n
Angola	32 000	119 260	165 290	79 680	266 570	1e
Argentina	897 217	761 013	499 092	690 000	737 000	2e
Armenia	20 390	45 890	29 650	16 540	65 940	1e
Australia	4 070 814	3 676 467	3 422 265	4 186 021	4 847 400	2e
Austria	836 862	900 217	901 619	900 374	876 075	1e
Azerbaijan	270 471	314 224	297 594	417 892	369 908	1e
Bhutan	461 128	490 596	331 050	403 753	400 183	1e
Bolivia	1 136	3 905	1 000	1 000	168 922	1a
Bosnia-Herzegovina	122 421	130 788	140 994	297 225	135 408	1e

Brazil	2 666 002	2 842 654	2 851 643	3 260 209	3 203 474	1e
Bulgaria	88 000	88 000	54 800	77 400	77 000	2n
Canada	3 240 451	2 444 963	3 049 824	2 896 360	3 174 070	1e
Chile	909 191	977 397	910 310	1 007 206	978 846	1e
China	25 000 000	25 000 000	25 000 000	25 000 000	25 000 000	2n
Colombia	396 373	294 137	323 157	408 681	480 748	1e
Croatia	211 894	199 255	221 629	285 966	278 581	1a
Cuba	99 900	66 330	62 300	53 200	32 600	1e
Cyprus	625 721	623 545	646 340	661 175	688 270	1a
Czechia	8 000	10 000	17 000	17 000	20 000	1e
Dominican Republic	190 660	316 630	304 920	329 630	415 810	1a
Egypt	727 370	800 000	800 000	800 000	800 000	2n
Eritrea	18 000	18 000	18 000	26 000	26 000	2n
Ethiopia	253 165	56 313	107 070	110 000	110 000	2n
France	5 314 983	3 259 935	1 891 190	2 108 258	2 410 284	1e
Georgia	91 700	137 831	87 655	79 515	80 000	2n
Germany	4 550 000	4 850 000	5 200 000	6 260 000	5 820 000	1e
Greece	827 298	589 012	622 834	647 164	656 296	1a
Guatemala	132 897	140 901	423 281	138 552	206 143	1e
Honduras	35 000	34 964	45 254	45 000	75 000	2n
India	4 664 046	3 006 046	6 788 200	3 547 250	4 000 000	2n
Iran	10 904 289	14 750 093	15 124 823	14 322 761	18 406 880	1a
Iraq	1 000 000	1 000 000	1 000 000	1 000 000	1 100 000	2n
Ireland	200 000	200 000	150 000	110 000	110 000	1e
Israel	75 800	72 000	0	0	0	2n
Italy	188 618	298 242	163 749	0	847 447	1e
Jamaica	47 000	55 000	66 000	66 000	84 000	1e
Jordan	190 606	264 724	184 917	399 968	400 000	2n
Kazakhstan	121 400	78 200	94 500	184 700	233 100	1e
Kenya	5 700	5 700	5 700	6 000	6 000	2n
Kyrgyzstan	152 842	150 000	23 019	31 680	32 000	2n
Laos	618 783	606 387	737 749	1 221 959	1 589 771	1e
Latvia	320 080	318 450	359 190	383 990	0	1a
Libya	150 000	200 000	200 000	200 000	250 000	2n
Mauritania	130 000	130 000	120 000	70 000	70 000	2n
Mexico	11 275 293	7 759 139	7 977 953	9 157 381	8 283 113	1e
Moldova	352 500	276 400	292 600	307 900	270 200	1e
Mongolia	47 700	107 100	97 900	111 400	111 500	1e
Myanmar	309 343	299 316	258 620	51 240	96 246	1e
Nicaragua	70 341	39 925	64 573	19 999	39 865	1e
Nigeria	39 052	22 142	30 706	13 401	20 000	2n
North Macedonia	230 029	267 181	229 322	273 497	190 902	1e
Norway	89 655	102 100	93 602	92 794	86 317	1e
Oman	9 666 701	10 982 900	11 120 200	13 538 800	9 510 100	1e
Pakistan	2 475 893	2 517 825	2 149 873	2 527 215	2 325 000	1e
Paraguay	4 500	4 500	4 500	4 500	4 500	2n
Peru	458 479	254 382	171 093	435 459	315 292	1e
Poland	1 042 000	1 065 000	1 057 000	1 123 000	1 034 000	1e
Portugal	232 921	209 076	210 231	254 913	191 753	1a
Romania	749 668	878 546	925 782	952 617	897 176	1e
Russia	5 453 400	4 179 300	4 060 000	4 629 000	4 630 000	2n
Saudi Arabia	3 352 832	3 472 000	3 803 000	3 640 000	3 822 000	1e
Slovakia	55 190	58 250	72 300	66 600	54 300	1e
South Africa	321 988	277 102	205 542	277 376	265 270	2e
Spain	10 593 056	11 279 443	13 376 353	14 629 150	14 380 727	1a
Sudan	226 000	193 000	173 000	136 000	150 000	2n
Switzerland	330 000	330 000	320 000	330 000	330 000	2n
Syria	66 000	70 000	70 000	70 000	100 000	2n
Tajikistan	9 639	14 000	8 183	10 000	10 000	2n
Tanzania	241 260	256 529	443 926	598 053	604 408	1e
Thailand	11 197 657	9 787 287	9 279 119	10 402 998	9 847 562	1e
Tunisia	984 031	946 892	890 000	908 130	900 000	2n

Türkiye	10 896 476	7 489 129	9 280 864	10 620 061	10 679 212	1e
Ukraine	1 386 400	1 409 400	1 529 000	1 783 300	1 000 000	2n
United Kingdom	1 400 000	1 600 000	1 300 000	2 400 000	2 400 000	2n
United States	21 100 000	21 600 000	21 300 000	20 800 000	22 300 000	1e
Yemen	50 000	20 000	20 000	20 000	20 000	2n
Total	167 914 389	160 425 685	166 592 509	175 565 537	176 988 399	

Kaolin

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	100 000	100 000	100 000	120 000	120 000	2n
Argentina	17 000	11 853	20 628	25 000	26 000	2e
Australia	173 738	114 050	154 812	173 187	170 181	1e
Austria	13 500	13 500	13 500	13 500	13 500	2n
Bosnia-Herzegovina	303 626	118 005	108 174	62 599	24 529	1e
Brazil	1 685 255	1 471 610	1 239 591	1 153 884	1 189 531	1e
Bulgaria	323 000	330 000	276 000	380 000	609 760	1e
Chile	88 262	34 801	38 789	49 533	44 232	1e
China	6 650 000	6 400 000	6 500 000	7 240 000	7 822 000	1e
Colombia	70 799	96 051	29 372	71 699	40 487	1e
Cuba	2 700	2 100	2 032	1 375	500	1e
Czechia	3 622 000	3 446 000	3 069 000	3 454 000	3 009 000	1e
Egypt	230 000	230 000	230 000	230 000	230 000	2n
Eritrea	200	0	0	0	0	2n
Ethiopia	10 000	1 000	1 000	1 000	1 000	2n
France	301 842	392 389	231 579	289 057	290 000	2n
Germany	4 930 000	4 760 000	4 969 000	5 291 000	4 594 000	1e
Guatemala	724	700	402	295	300	2n
India	8 201 946	8 000 000	8 000 000	8 000 000	8 400 000	2n
Indonesia	1 368 400	2 754 600	1 636 000	1 568 000	975 300	1e
Iran	1 158 983	1 813 395	1 923 895	1 348 232	2 600 110	1a
Italy	300 000	250 000	200 000	180 000	200 000	2n
Japan	12 000	12 000	12 000	12 000	12 000	2n
Jordan	11 000	11 000	11 000	11 000	11 000	2n
Kenya	1 000	1 000	800	900	1 900	1n
Korea, South	369 274	317 626	393 236	352 003	426 960	1e
Kyrgyzstan	15 000	15 000	15 000	15 000	15 000	2n
Malaysia	496 219	400 722	336 565	228 605	236 840	1e
Mexico	898 246	246 645	236 033	223 332	227 798	1e
New Zealand	51 369	50 569	50 000	55 000	55 000	2n
Nigeria	11 707	8 649	7 033	23 530	10 000	2n
Oman	110 300	34 100	58 300	35 350	0	1e
Pakistan	19 483	20 756	14 919	12 309	17 000	1e
Paraguay	6 000	6 000	6 000	6 000	6 000	2n
Peru	16 004	9 208	12 536	13 142	14 300	1e
Philippines	13 000	15 000	40 200	27 700	18 612	1e
Poland	310 850	317 190	292 940	315 040	317 570	1e
Portugal	374 029	311 677	320 655	387 223	410 584	1a
Romania	7 220	6 089	0	0	0	1e
Russia	1 485 900	1 530 800	2 478 000	2 193 800	3 000 000	1e
Saudi Arabia	207 461	227 000	213 000	266 000	279 000	1e
Serbia	279 000	254 000	234 000	249 000	301 000	1e
Slovakia	34 400	24 970	30 960	38 780	24 610	1e
South Africa	23 724	27 827	20 639	29 168	10 000	2e
Spain	474 462	463 617	274 137	303 743	277 170	1a
Sri Lanka	20 000	34 100	30 000	30 000	30 000	2n
Sudan	11 000	29 000	19 700	3 700	20 000	2n

Taiwan	20	500	404	30	0	1e
Tanzania	129 383	15 343	98 454	100 950	46 973	1e
Thailand	110 437	92 414	87 320	124 798	86 076	1e
Türkiye	1 515 609	1 283 776	1 224 746	1 748 014	2 289 367	1e
Uganda	17 281	10 448	12 014	10 264	226	1e
Ukraine	2 091 525	1 843 561	1 680 891	2 317 723	1 000 000	2n
United Kingdom	996 000	715 000	635 000	735 000	715 000	2n
United States	5 350 000	5 120 000	4 640 000	4 360 000	4 340 000	1e
Uzbekistan	291 814	377 184	373 440	413 910	441 900	1n
Vietnam	100 000	100 000	100 000	100 000	100 000	2n
Total	45 412 692	44 272 825	42 703 696	44 395 375	45 102 316	

Magnesite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	263 446	413 182	799 203	893 623	835 000	1e
Austria	808 239	691 909	816 370	844 226	771 043	1e
Bosnia-Herzegovina	5 950	1 400	652	196	0	1a
Brazil	1 900 000	1 530 000	1 550 000	1 800 000	1 700 000	2n
Canada	150 000	150 000	160 000	180 000	230 000	1n
China	19 000 000	19 000 000	19 000 000	18 000 000	17 000 000	1e
Colombia	1 039	1 847	1 077	3 116	2 694	1e
Cuba	0	1 532	3 910	3 000	548	1e
Finland	49 601	37 002	136 167	179 781	324 226	1e
Greece	425 882	358 841	335 943	393 715	393 287	1a
Guatemala	4 745	4 500	6 000	14 100	10 000	2n
India	146 875	102 554	74 661	113 495	107 525	1e
Iran	137 445	147 760	256 124	248 376	210 513	1a
Korea, North	100 000	100 000	100 000	80 000	80 000	2n
Mexico	101 000	800	0	0	0	1e
Pakistan	23 596	42 996	16 165	15 120	5 886	1e
Philippines	140	40	0	0	0	1e
Poland	102 110	91 490	65 250	65 820	66 380	1e
Russia	1 571 400	1 013 800	1 281 400	1 108 700	1 327 100	1e
Saudi Arabia	155 000	200 000	250 000	250 000	176 049	1n
Slovakia	1 053 900	1 015 800	787 476	781 600	592 900	1e
South Africa	9 400	8 100	8 500	5 000	8 000	2n
Spain	738 994	634 580	626 055	703 834	676 699	1a
Türkiye	1 958 847	1 496 081	1 560 818	1 927 280	1 820 068	1e
United States	238 828	294 590	419 076	442 976	357 811	1e
Total	28 946 437	27 338 804	28 254 847	28 053 958	26 695 729	

Perlite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Argentina	18 794	1 850	13 176	18 016	32 450	1e
Armenia	51 222	80 676	104 410	168 242	60 280	1e
Australia	2 285	1 264	2 185	3 821	4 000	2n
Chile	5 020	4 700	0	0	0	1e
Georgia	22 577	21 000	31 736	31 572	30 000	2n
Greece	790 412	718 077	821 233	1 053 019	839 108	1a

Hungary	44 970	43 900	44 000	60 000	85 505	1a
Iran	71 579	31 828	52 750	77 024	6 709	1a
Mexico	26 400	24 497	0	28 800	0	1e
Philippines	7 329	6 608	0	4 631	24 878	1e
Russia	45 000	45 000	45 000	45 000	45 000	2n
Slovakia	35 600	32 450	37 850	37 240	38 280	1e
South Africa	1 000	1 000	1 000	1 000	1 000	2n
Thailand	5 600	15 000	3 500	3 500	2 500	1e
Türkiye	1 088 983	1 174 486	1 146 341	1 428 695	1 319 432	1e
United States	504 000	629 000	853 000	879 000	672 000	1e
Total	2 720 771	2 831 336	3 156 181	3 839 560	3 161 142	

Phosphate Rock (P₂O₅-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	409 400	455 100	409 900	616 000	671 500	2n
Australia	195 720	165 750	215 700	170	150	1e
Brazil	1 980 300	1 828 500	1 827 900	1 793 000	1 869 300	1n
Chile	1 160	950	590	620	940	1e
China	28 897 800	27 997 200	26 679 960	30 869 700	31 423 500	1e
Christmas Island	111 780	89 010	120 750	120 290	128 340	1n
Colombia	13 240	20 480	14 470	12 960	10 370	1e
Cuba	0	0	460	410	320	1e
Egypt	870 870	979 620	885 100	898 400	870 000	1n
Finland	356 070	363 020	363 200	363 720	341 600	1e
India	342 890	332 940	337 800	323 750	459 100	3e
Iran	105 840	102 230	105 000	83 900	95 430	1a
Iraq	377 120	300 000	300 000	0	0	2n
Israel	1 100 500	898 200	988 800	777 900	694 400	1n
Jordan	2 567 170	2 951 470	2 860 140	3 204 880	3 602 500	1e
Kazakhstan	381 200	388 540	456 010	426 330	428 040	1e
Malawi	270	300	0	0	0	1e
Mexico	222 500	249 520	91 240	145 050	132 510	1e
Morocco	10 960 200	11 267 500	11 959 000	12 176 200	9 728 000	1e
Nauru	23 000	30 600	39 400	102 500	97 500	1e
Pakistan	12 340	17 320	15 790	21 640	32 000	2e
Peru	1 237 000	1 331 000	1 031 300	1 293 100	1 314 600	1e
Philippines	1 500	200	200	0	0	1e
Russia	5 304 000	5 382 000	5 382 000	5 517 800	5 597 100	1n
Saudi Arabia	1 827 000	2 275 000	2 600 000	2 730 000	2 950 000	2n
Senegal	775 410	855 850	684 300	792 800	859 970	1e
South Africa	720 400	639 000	461 000	767 600	674 800	2e
Sri Lanka	16 290	16 600	18 240	23 880	12 360	1e
Syria	95 000	134 000	580 000	400 000	400 000	2n
Tanzania	650	5 050	6 240	5 390	5 850	1e
Togo	370 810	260 320	488 900	538 860	570 460	1e
Tunisia	812 800	1 124 700	911 800	1 080 700	1 033 300	1e
Türkiye	0	94 600	261 900	287 100	289 000	1e
United States	7 250 000	6 547 000	6 604 000	6 070 000	5 564 000	1e
Uzbekistan	144 000	137 100	150 500	158 700	160 100	1e
Venezuela	16 800	21 500	20 000	20 000	10 000	2n
Vietnam	1 299 660	1 346 880	606 650	813 960	754 140	3e
Zimbabwe	15 400	8 100	13 500	11 900	6 600	1e
Total	68 816 090	68 617 150	67 491 740	72 449 210	70 787 780	

Potash (K₂O-Content)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia				0	2 418	1e
Belarus	7 346 096	7 348 293	7 562 153	7 750 000	4 000 000	2n
Bolivia	1 700	17 800	4 400	32 600	42 600	1e
Brazil	201 181	248 911	254 837	213 028	299 636	1e
Canada	14 023 931	12 820 345	13 722 423	14 275 819	15 116 101	1e
Chile	991 180	683 540	966 680	891 450	676 350	1e
China	5 452 000	5 902 000	5 530 000	5 814 600	5 910 000	1e
Germany	2 754 085	2 615 284	2 874 026	2 793 326	2 708 650	1e
Iran	32 900	37 200	37 000	40 000	50 000	2n
Israel	2 149 300	2 043 500	2 415 600	2 379 000	2 446 710	1n
Jordan	1 485 960	1 516 460	1 598 200	1 563 430	1 637 240	1e
Laos	343 500	286 900	442 500	507 600	920 000	1e
Russia	7 055 000	7 368 000	8 194 200	8 890 000	6 900 000	1e
Spain	603 812	519 644	351 918	375 779	429 893	1a
Turkmenistan	15 200	11 100	16 000	19 000	26 500	2n
United Kingdom	291 100	88 480	99 260	110 460	133 420	1n
United States	520 000	510 000	460 000	480 000	430 000	1e
Uzbekistan	176 900	198 400	210 000	197 600	228 000	1e
Total	43 443 845	42 215 857	44 739 197	46 333 692	41 957 518	

Salt

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	47 944	41 157	12 015	10 700	41 573	1e
Albania	31 500	30 000	30 000	30 000	30 000	2n
Algeria	106 200	100 800	95 100	107 800	100 000	2n
Angola	103 439	109 445	164 433	201 699	213 800	1e
Argentina	1 784 020	1 566 600	1 051 445	1 300 000	600 000	2e
Armenia	155 393	56 685	24 401	25 948	52 829	1e
Australia	13 493 556	12 173 391	12 212 483	12 574 025	12 126 166	1e
Austria	1 176 807	1 212 158	1 014 554	1 117 586	897 774	1e
Azerbaijan	66 699	77 116	76 401	71 495	77 455	1e
Bahamas	867 950	663 850	720 030	425 710	633 380	1e
Bangladesh	1 493 000	1 824 000	1 570 000	1 651 000	1 832 000	1e
Belarus	2 904 097	2 517 590	1 198 290	2 265 000	2 000 000	2n
Benin	500	500	500	500	500	2n
Bolivia	5 373	4 494	14 949	21 777	15 042	1a
Bosnia-Herzegovina	1 063 458	1 069 210	947 838	966 358	1 109 253	1e
Botswana	367 988	383 779	418 379	499 527	323 303	1e
Brazil	7 227 300	6 700 500	6 464 300	6 534 300	7 000 000	1e
Bulgaria	3 400 000	3 400 000	2 700 000	3 300 000	3 300 000	2n
Cambodia	30 000	18 430	83 969	68 682	35 000	1e
Canada	10 713 206	11 896 659	13 282 003	13 188 229	14 640 779	1e
Cape Verde	1 000	1 000	2 585	2 621	2 600	2n
Chile	10 012 105	10 476 823	9 574 159	8 565 307	10 501 352	1e
China	63 636 100	67 014 400	58 526 800	57 065 100	53 598 800	1e
Colombia	423 316	376 309	409 976	370 318	379 081	1e
Croatia	16 453	93 870	111 901	111 319	102 671	1a
Cuba	192 700	210 370	226 000	204 600	195 600	1e
Denmark	600 000	600 000	600 000	600 000	600 000	1e
Dominican Republic	23 860	26 000	24 000	20 000	27 000	2n

Egypt	522 000	493 000	357 000	218 000	220 000	2n
El Salvador	30 000	30 000	30 000	30 000	30 000	2n
Eritrea	310 000	310 000	320 000	320 000	320 000	2n
Ethiopia	122 850	125 000	125 000	125 000	100 000	2n
France	4 689 054	5 160 260	5 200 596	5 543 448	5 621 754	1e
Germany	16 229 929	16 627 893	14 226 154	17 668 366	15 073 463	1e
Ghana	330 000	300 000	330 000	300 000	300 000	2n
Greece	163 474	201 107	201 000	210 000	220 000	2n
Honduras	63 500	49 900	61 200	63 500	60 000	1e
Iceland	5 000	5 000	5 000	5 000	5 000	2n
India	30 033 300	28 058 400	26 564 400	26 600 100	30 000 000	3e
Indonesia	2 719 256	2 852 125	1 365 711	879 986	635 865	1e
Iran	2 453 873	2 639 192	3 200 232	3 083 719	3 877 712	1a
Iraq	271 500	270 000	300 000	57 602	60 000	2n
Israel	377 000	301 000	275 200	262 350	255 000	2n
Italy	1 514 829	1 538 072	1 192 956	1 500 458	1 460 833	1e
Jamaica	10 000	10 000	10 000	10 000	10 000	2n
Japan	929 000	903 000	874 000	855 000	897 000	1e
Jordan	48 901	36 850	39 088	42 359	40 000	2n
Kazakhstan	885 717	1 094 659	1 237 455	1 231 996	1 678 472	1e
Kenya	28 841	13 728	4 703	7 099	23 215	1e
Korea, North	100 000	100 000	100 000	100 000	100 000	2n
Korea, South	282 590	261 970	176 247	280 876	260 616	1e
Kuwait	59 300	58 600	59 000	60 000	60 000	2n
Kyrgyzstan	4 665	5 605	6 000	6 000	6 000	2n
Laos	46 863	10 079	3 951	6 846	188	1e
Lebanon	3 000	3 000	3 000	3 000	3 000	2n
Libya	30 000	30 000	30 000	40 000	40 000	2n
Madagascar	110 000	110 000	110 000	110 000	120 000	2n
Malta	1 600	2 000	2 000	2 000	2 000	2n
Mauritius	500	570	556	793	674	1e
Mexico	9 392 052	8 845 239	9 084 859	7 001 505	7 914 780	1e
Mongolia	997	533	2 624	1 349	394	1e
Morocco	691 637	854 397	490 896	295 741	600 000	2n
Mozambique	27 729	50 740	38 377	34 453	13 482	1e
Myanmar	189 146	213 319	229 755	161 774	138 413	1e
Namibia	1 151 153	983 354	987 872	926 677	1 022 448	1e
Netherlands	6 750 546	5 913 782	5 712 038	6 201 542	5 893 118	1a
New Zealand	100 000	76 000	66 000	70 000	0	1n
Nicaragua	50 000	55 000	55 000	55 000	55 000	2n
Norway	56 000	10 000	5 300	13 000	13 000	2n
Oman	11 537	15 003	11 700	10 142	11 500	1e
Pakistan	3 888 344	4 012 304	3 483 732	3 592 205	2 896 000	2e
Panama	17 281	27 389	24 958	23 794	22 742	1e
Peru	1 509 564	1 266 347	1 030 598	1 175 828	1 093 559	1e
Philippines	600 000	200 000	200 000	100 000	60 000	1e
Poland	3 830 000	3 800 000	3 460 000	3 950 000	3 883 000	1e
Portugal	100 825	112 215	97 104	94 778	125 853	1a
Romania	2 374 973	2 015 579	1 175 979	1 328 738	1 461 264	1n
Russia	6 710 000	8 175 000	6 026 000	8 242 000	8 186 000	1e
Saudi Arabia	2 646 000	2 778 000	2 220 000	2 231 000	2 342 000	1e
Senegal	245 700	286 100	290 873	306 347	272 041	1e
Serbia	7 811	13 464	6 703	6 469	5 969	1e
Slovenia	2 018	1 437	805	1 671	2 342	1e
South Africa	478 285	510 012	538 355	545 942	531 100	2e
Spain	4 512 243	4 330 514	3 676 039	4 329 090	3 987 690	1a
Sri Lanka	68 834	57 291	60 076	63 254	111 000	1e
Sudan	267 000	263 000	237 000	121 000	200 000	2n
Switzerland	530 414	477 325	324 527	512 700	422 665	1n
Syria	12 000	50 000	70 000	70 000	112 000	1e
Taiwan	78 539	76 255	77 854	77 297	78 415	1e
Tajikistan	36 964	35 324	26 637	26 169	37 000	2n

Tanzania	36 600	99 510	83 974	112 995	181 818	1e
Thailand	1 487 364	1 580 390	1 439 877	1 563 970	1 737 090	1e
Tunisia	2 116 972	1 966 528	1 666 075	1 889 614	1 900 000	2n
Türkiye	6 298 705	6 961 015	7 698 018	7 843 502	9 085 711	1e
Turkmenistan	100 000	100 000	94 600	96 000	96 480	1n
Ukraine	2 191 619	2 092 795	2 075 000	1 900 000	500 000	2n
United Kingdom	3 430 266	2 377 765	2 327 965	2 687 483	2 587 790	1e
United States	43 900 000	44 800 000	42 600 000	39 300 000	41 000 000	2e
Venezuela	600 000	600 000	500 000	300 000	350 000	1e
Vietnam	996 500	945 000	1 134 600	1 208 100	987 000	3e
Yemen	50 000	50 000	50 000	50 000	50 000	2n
Total	289 866 124	291 324 072	267 348 730	269 444 228	271 885 414	

Sulfur

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Algeria	6 000	6 000	6 000	6 000	6 000	2n
Armenia	10 500	10 500	11 500	14 100	14 000	1e
Australia	900 000	900 000	900 000	900 000	900 000	2n
Austria	6 980	6 768	6 564	4 755	4 672	1e
Bahrain	139 370	139 655	124 490	129 350	128 780	1e
Brazil	450 000	460 000	450 000	435 000	519 600	2n
Bulgaria	474 100	423 600	497 000	434 500	515 500	1n
Canada	5 333 000	4 808 913	4 904 051	4 879 000	4 898 600	2e
Chile	1 734 200	1 518 700	1 735 100	1 662 200	1 591 200	1e
China	13 762 700	14 450 000	15 340 000	15 730 000	16 970 000	1e
Colombia	155 641	100 203	69 638	35 930	36 000	2n
Cuba	309 000	317 000	311 200	278 900	289 200	1e
Denmark	4 194	3 554	4 140	4 090	3 727	1e
Egypt	80 000	80 000	80 000	80 000	80 000	2n
Finland	888 300	811 600	794 900	737 600	696 800	1n
France	500 000	500 000	450 000	450 000	450 000	2n
Germany	419 597	460 012	353 293	382 049	370 664	1e
Greece	280 000	260 000	210 000	250 000	250 000	2n
India	4 290 400	3 900 950	3 750 000	3 681 000	3 725 000	2n
Indonesia	500 000	500 000	500 000	500 000	500 000	2n
Iran	2 200 000	2 200 000	2 200 000	2 000 000	2 000 000	2n
Iraq	40 000	40 000	40 000	179 600	180 000	2n
Italy	809 900	1 261 100	458 700	613 100	745 200	1e
Japan	3 408 300	3 259 000	3 140 500	2 995 100	3 120 000	2e
Jordan	279 910	255 060	282 200	316 540	321 440	1e
Kazakhstan	3 218 250	3 834 100	4 378 900	4 587 200	4 310 200	1e
Korea, North	10 000	10 000	10 000	10 000	10 000	2n
Korea, South	2 000 000	2 000 000	2 000 000	2 000 000	2 000 000	1e
Kuwait	671 000	623 300	649 800	959 000	1 268 500	1e
Libya	133 000	169 500	133 300	139 000	139 500	1e
Lithuania	93 960	86 040	71 250	72 990	64 497	1e
Mexico	442 657	364 967	315 935	219 439	290 121	1e
Namibia	78 610	72 920	81 500	118 150	161 120	1n
Norway	120 000	90 000	86 000	89 000	81 000	1n
Oman	84 990	79 140	80 830	87 765	87 160	1e
Pakistan	22 040	20 715	19 948	19 398	16 288	1e
Peru	552 800	511 500	474 500	529 900	588 300	1e
Philippines	1 321 800	716 100	575 900	625 500	600 000	2n
Poland	1 250 400	1 210 240	1 011 080	1 058 800	1 046 970	1e
Qatar	1 767 000	2 050 000	1 650 000	2 100 000	3 150 000	2n
Russia	7 170 000	7 175 000	6 850 000	4 690 900	5 989 439	1e

Saudi Arabia	6 600 000	6 600 000	6 600 000	6 600 000	7 000 000	2n
South Africa	239 297	919 624	575 491	61 929	74 540	2e
Spain	662 000	663 100	584 300	687 600	641 800	1e
Sweden	416 560	347 990	339 890	375 370	375 000	2n
Taiwan	169 698	195 358	167 337	192 228	162 571	1e
Türkiye	250 000	242 600	117 400	120 600	132 700	2e
Turkmenistan	480 000	330 000	470 000	590 000	320 000	2n
Ukraine	222 200	220 400	223 500	255 600	150 000	2n
United Arab Emirates	5 300 000	5 980 000	5 500 000	5 950 000	6 105 000	2e
United Kingdom	129 000	130 000	106 000	107 000	107 000	2n
United States	9 670 000	8 710 000	7 890 000	8 060 000	8 640 000	1e
Venezuela	700 000	500 000	300 000	300 000	300 000	2n
Zambia	947 800	960 200	917 300	691 900	640 800	1n
Total	81 705 154	81 485 409	78 799 437	77 998 083	82 768 889	

Talc

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	356 789	345 052	95 923	441 372	382 211	1e
Argentina	13 072	10 000	2 304	1 800	2 400	1e
Australia	130 000	140 000	110 000	90 000	111 000	2e
Austria	127 866	124 184	123 000	157 493	157 047	1e
Bhutan	2 042	1 375	972	678	740	1e
Brazil	660 000	650 000	650 000	660 000	700 000	2n
Canada	279 000	243 000	153 293	153 000	200 000	2n
China	2 000 000	1 800 000	1 300 000	1 400 000	1 400 000	2n
Colombia	2 522	1 708	717	3 170	5 222	1e
Egypt	25 000	22 000	20 000	15 000	20 000	2n
Finland	374 398	329 891	278 331	296 833	241 538	1e
France	450 000	400 000	400 000	350 000	350 000	2n
Guatemala	2 187	10	3 151	2 111	1 450	2n
India	1 682 825	1 748 963	1 720 000	1 575 000	1 630 000	2n
Iran	73 259	49 650	61 665	74 537	93 535	1a
Italy	165 000	160 000	165 000	165 000	180 000	2n
Japan	160 000	160 000	160 000	160 000	140 000	2n
Korea, North	40 000	40 000	30 000	30 000	30 000	2n
Korea, South	348 648	330 250	315 446	355 104	322 830	1e
Mexico	8 448	7 202	29 122	36 465	34 630	1e
Nepal	8 658	7 813	4 931	4 450	2 113	1e
Nigeria	2 668	6 630	8 404	65 061	10 000	2n
North Macedonia	559	0	0	0	0	1e
Pakistan	141 504	158 109	150 009	289 423	301 000	1e
Peru	47 309	43 974	37 938	50 355	49 869	1e
Portugal	10 144	12 901	9 751	8 277	4 273	1a
Russia	12 500	48 000	104 000	50 000	100 000	2e
Saudi Arabia	46 000	48 000	61 000	167 000	175 000	1e
Slovakia	43 000	70 100	91 600	99 900	114 600	1e
South Africa	102 142	135 430	92 318	270 944	449 600	2e
Spain	15 500	13 100	2 920	651	0	1a
Sudan	4 000	2 000	0	4 500	4 500	2n
Taiwan	17	6	0	43	0	1e
Thailand	58 676	14 564	38 146	31 950	30 369	1e

Türkiye	284 216	92 077	143 470	220 350	43 196	1e
United Kingdom	1 640	3 131	1 386	1 397	1 300	2n
United States	648 000	578 000	491 000	577 000	511 000	1e
Uruguay	420	50	520	570	1 162	1e
Total	8 328 009	7 797 170	6 856 317	7 809 434	7 800 585	

Vermiculite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Brazil	56 708	47 581	58 821	70 500	70 913	1e
China	50 000	50 000	50 000	40 000	40 000	2n
India	2 992	2 774	1 260	3 061	2 303	1e
Kenya	0	100	0	700	300	2n
Mexico	244	148	104	0	0	1e
Russia	25 904	29 237	28 442	39 804	35 619	1e
South Africa	141 346	158 013	118 223	150 104	183 133	1e
Türkiye	18 183	1 370	19 230	3 300	21 230	1e
Uganda	10 413	9 674	14 170	21 754	22 947	1e
United States	100 000	100 000	100 000	100 000	100 000	1e
Zimbabwe	33 161	25 524	26 388	27 713	26 380	1e
Total	438 951	424 421	416 638	456 936	502 825	

Zircon

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	522 400	468 900	380 000	569 000	470 000	2e
Brazil	17 844	17 136	10 994	6 482	6 513	1e
China	150 000	140 000	140 000	140 000	140 000	2n
India	11 906	15 600	16 000	16 000	16 000	2n
Indonesia	53 700	73 100	77 200	54 630	97 400	1n
Kenya	36 387	30 440	31 730	28 933	29 715	1n
Madagascar	22 757	29 473	26 029	23 109	26 821	1e
Malaysia	509	449	157	1 518	768	1e
Mozambique	202 022	121 768	104 076	123 011	134 082	1e
Nigeria	1 421	1 000	242	3 033	4 705	1e
Russia	7 400	6 300	6 000	6 650	7 850	2e
Senegal	93 569	80 747	83 257	90 760	84 062	1e
Sierra Leone	11 400	8 500	4 564	4 100	7 200	1n
South Africa	341 304	368 336	311 800	301 000	310 000	2n
Sri Lanka	785	971	419	400	268	1e
Türkiye	1 950	0	0	0	0	1e
Ukraine	21 614	18 000	16 000	28 800	14 100	2e
United States	100 000	30 000	30 000	30 000	20 000	2n
Vietnam	10 500	6 600	10 700	30 400	16 500	2n
Total	1 607 468	1 417 320	1 249 168	1 457 826	1 385 984	

6.4.5 Mineral Fuels

Steam Coal

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Afghanistan	2 444 600	1 604 700	56 620	340 800	517 000	1e
Albania	297 530	95 380	151 231	242 425	182 080	1a
Argentina	81 993	154 782	24 800	25 300	25 300	1e
Australia	266 282 000	271 388 000	267 504 000	247 481 000	249 292 000	1p
Bangladesh	923 276	805 696	811 138	753 973	488 676	1n
Bhutan	186 824	184 785	72 838	111 545	158 603	1e
Botswana	2 482 313	2 110 891	1 923 992	2 021 218	2 460 868	1e
Brazil	3 568 760	3 812 975	3 171 509	4 768 003	3 473 384	1e
Canada	17 929 000	15 078 380	13 291 550	12 358 380	12 201 040	1p
Chile	2 294 677	1 606 554	191 562	18 541	14 950	1e
China	2 850 962 000	2 970 445 000	2 999 940 000	3 248 607 000	3 589 711 000	1p
Colombia	81 319 300	81 542 200	51 078 400	55 964 300	57 806 700	1e
Czechia	1 993 850	1 335 497	841 188	739 460	1 293 831	1n
Eswatini	144 375	109 926	161 768	162 681	215 581	1e
Georgia	137 900	15 300	99 300	147 900	146 347	1e
Germany	1 212 700	0	0	0	0	1e
India	687 586 000	677 938 000	671 296 000	726 508 000	832 430 000	1e
Indonesia	543 919 000	594 796 500	561 979 800	564 815 600	680 712 000	1p
Iran	400 000	485 000	450 000	318 200	364 200	1e
Kazakhstan	101 085 800	98 593 000	97 924 100	102 638 500	104 500 100	1e
Korea, North	16 899 000	20 210 000	19 000 000	15 600 000	16 300 000	1e
Korea, South	1 201 920	1 084 000	1 019 000	897 900	820 181	1e
Kyrgyzstan	316 200	346 500	522 200	570 300	538 500	1e
Laos	142 994	161 494	320 231	698 521	1 270 812	1e
Malawi	49 753	54 728	54 876	30 251	62 166	1e
Malaysia	2 652 814	3 459 122	2 978 248	3 110 605	3 405 847	1e
Mexico	6 772 528	5 316 000	3 357 000	4 312 000	4 300 000	2n
Mongolia	6 914 400	6 683 100	5 394 200	5 029 260	3 291 600	1p
Mozambique	6 891 201	4 983 146	3 370 585	5 346 781	8 420 436	1e
Myanmar	819 715	1 325 586	1 283 428	992 159	1 179 400	2e
Nepal	10 049	7 184	7 250	11 304	6 927	1e
New Zealand	1 710 060	1 545 230	1 482 000	1 448 565	1 292 541	1p
Niger	221 580	225 920	246 880	105 760	235 328	1e
Nigeria	352 679	543 424	747 979	1 444 139	3 043 000	1p
Norway	154 200	117 000	63 000	121 000	118 000	1n
Pakistan	4 477 555	5 406 878	8 599 166	9 229 377	9 678 000	1e
Peru	218 787	181 023	131 516	146 982	192 094	1e
Philippines	13 055 840	15 273 525	13 267 098	14 378 268	16 077 914	1e
Poland	51 336 590	49 552 170	42 111 970	42 421 560	40 464 610	1e
Russia	271 200 000	266 700 000	240 900 000	262 226 600	242 600 000	1e
South Africa	251 607 600	254 767 800	246 025 000	225 804 400	227 554 000	1p
Spain	645 612	0	0	0	0	1a
Tajikistan	1 907 055	2 027 790	2 023 000	2 080 000	2 394 000	1e
Tanzania	627 652	712 136	689 959	976 319	2 511 419	1e
Türkiye	2 160 520	2 695 628	2 457 720	2 288 148	647 117	1p
Ukraine	21 648 100	19 747 200	17 733 500	22 153 000	4 500 000	2n
United Kingdom	1 996 860	1 849 060	1 166 420	717 080	457 050	1e
United States	562 012 600	521 540 300	394 850 100	429 228 900	439 784 100	1e
Uzbekistan	160 000	245 168	246 800	258 100	264 800	1n

Venezuela	100 000	379 907	683 583	223 660	196 730	1r
Vietnam	42 384 000	47 158 000	44 598 400	48 315 600	49 854 700	1e
Zambia	344 717	361 648	446 153	663 345	823 450	1e
Zimbabwe	3 049 730	2 428 370	2 328 030	1 716 120	2 212 880	1e
Total	5 839 294 209	5 959 191 603	5 729 075 088	6 070 568 830	6 620 491 262	

Coking Coal

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	183 620 000	189 066 000	183 764 000	171 122 000	168 575 000	1p
Canada	29 666 000	29 952 270	25 315 420	26 937 110	26 461 240	1p
China	530 440 000	538 634 000	561 254 300	547 540 900	554 659 000	1p
Colombia	6 120 860	6 137 610	5 051 690	6 218 230	6 422 920	1e
Czechia	2 626 361	2 309 833	1 296 137	1 734 896	816 254	1n
Germany	1 370 800	0	0	0	0	1e
India	41 132 000	52 936 000	44 787 000	51 702 000	60 760 000	1e
Indonesia	5 117 786	5 752 018	4 800 000	6 000 000	6 000 000	1p
Iran	1 650 000	1 600 000	1 423 900	980 000	1 909 050	1e
Kazakhstan	10 836 000	10 478 500	10 052 900	8 752 200	7 627 000	1e
Mexico	3 897 000	3 275 000	3 897 000	1 319 000	1 300 000	2n
Mongolia	27 073 750	28 962 970	25 821 930	23 934 520	19 496 400	1p
Mozambique	8 355 292	5 356 390	4 670 626	5 732 902	6 385 797	1e
New Zealand	1 213 400	1 200 900	1 038 970	1 134 310	1 068 687	1p
Poland	12 047 000	12 071 220	12 273 960	12 584 820	12 364 750	1e
Russia	89 800 000	93 900 000	88 600 000	100 800 000	105 000 000	1e
South Africa	4 508 302	3 722 225	2 057 020	2 840 646	2 351 000	1p
Türkiye	692 130	698 870	617 280	619 565	759 996	1p
Ukraine	4 606 300	5 783 200	6 434 800	7 234 000	2 480 000	1n
United Kingdom	785 470	742 340	506 870	336 740	193 890	1e
United States	71 948 200	64 168 100	50 358 700	56 084 900	55 280 200	1e
Zimbabwe	297 770	301 550	422 860	1 529 890	1 972 540	1e
Total	1 037 804 421	1 057 048 996	1 034 445 363	1 035 138 629	1 041 883 724	

Lignite

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	45 956 000	43 315 000	41 513 000	41 622 000	40 296 000	1p
Bosnia-Herzegovina	14 378 767	13 376 548	13 365 730	12 802 517	13 736 665	1e
Brazil	1 422 500	1 596 696	2 309 404	1 896 525	2 648 783	1e
Bulgaria	31 813 678	29 462 615	22 519 300	28 410 900	35 513 000	1e
Canada	9 900 000	8 134 855	7 538 920	8 314 510	6 427 680	1p
Czechia	39 187 000	37 465 000	29 505 000	29 278 000	33 397 365	1e
Germany	166 258 000	131 314 000	107 377 260	126 256 594	130 801 111	1e
Greece	36 574 360	27 383 575	13 866 637	12 427 717	14 340 293	1a
Hungary	7 898 689	6 847 230	6 125 178	4 987 686	4 927 434	1e
India	44 283 000	42 096 000	37 895 000	47 492 000	44 990 000	1e
Kazakhstan	6 560 700	5 929 100	5 422 100	4 827 800	5 664 100	1e
Kosovo	7 169 767	8 063 051	8 537 948	8 535 436	8 253 435	1a
Kyrgyzstan	2 079 000	2 259 500	1 997 500	2 483 600	3 217 200	1e
Laos	15 903 277	15 263 562	14 366 628	13 618 072	15 358 322	1e
Mongolia	7 449 000	8 053 080	6 657 650	5 115 960	4 802 000	1p

Montenegro	1 595 900	1 605 200	1 665 449	1 548 612	1 722 535	1a
Myanmar	485 724	785 480	760 498	587 906	698 900	2e
New Zealand	307 378	287 830	297 690	284 735	276 248	1e
North Macedonia	4 946 486	5 066 083	4 532 745	4 758 504	5 592 335	1e
Poland	58 570 900	50 328 580	45 983 410	52 355 510	54 621 410	1e
Romania	23 647 150	21 652 320	15 030 906	17 733 034	18 200 623	1e
Russia	78 300 000	80 800 000	72 600 000	73 620 000	89 400 000	1e
Serbia	37 648 957	38 880 520	39 673 059	36 417 513	35 129 690	1e
Slovakia	1 506 940	1 474 830	986 270	1 080 562	870 764	1e
Slovenia	3 216 735	3 218 696	3 259 309	2 807 476	2 745 022	1e
Spain	1 727 513	0	0	0	0	1a
Thailand	14 851 950	14 071 710	13 250 574	14 221 573	13 641 283	1e
Türkiye	81 084 000	83 694 600	71 637 000	83 558 680	80 928 800	1p
United States	51 744 500	48 255 700	44 783 600	42 968 700	43 115 700	1e
Uzbekistan	4 014 400	3 807 600	3 869 375	4 781 193	5 073 900	1n
Total	800 482 271	734 488 961	637 327 140	684 793 315	716 390 598	

Natural Gas

Country	2018 Mio m ³	2019 Mio m ³	2020 Mio m ³	2021 Mio m ³	2022 Mio m ³	Rem
Afghanistan	153	146	59	153	185	1e
Albania	82	71	57	57	51	1a
Algeria	97 467	89 983	84 597	105 037	101 436	1e
Angola	6 490	6 800	7 550	6 080	5 540	1p
Argentina	40 930	43 220	39 570	40 940	42 350	1e
Australia	130 987	154 485	154 107	156 463	163 112	1e
Austria	969	891	743	654	607	1e
Azerbaijan	19 207	24 514	26 487	32 578	34 956	1e
Bahrain	15 420	17 120	17 230	17 500	16 600	1e
Bangladesh	27 430	27 230	24 990	25 170	23 780	1n
Barbados	14	14	11	11	9	1e
Belarus	211	218	219	229	220	2n
Bolivia	19 341	17 046	16 384	16 967	15 517	1e
Brazil	26 687	27 358	25 384	25 382	24 098	1e
Brunei	12 235	12 504	12 065	11 178	10 266	1e
Bulgaria	31	35	55	31	17	1e
Cameroon	1 460	2 010	2 130	2 090	2 190	1e
Canada	177 794	170 747	166 936	173 423	186 121	1e
Chile	1 221	1 339	1 316	1 275	1 355	1e
China	160 159	175 362	192 495	207 584	220 110	1e
Colombia	11 590	11 800	11 770	12 110	11 890	1e
Congo, Rep.	867	622	809	1 000	1 000	1e
Cote d'Ivoire	1 935	2 171	2 229	2 373	2 557	1e
Croatia	1 230	1 029	849	746	745	1e
Cuba	970	951	895	863	844	1e
Czechia	179	146	173	153	165	1e
Denmark	4 148	3 138	1 425	1 352	1 349	1e
Ecuador	353	318	268	269	243	1e
Egypt	58 560	64 940	58 465	67 799	64 488	1r
Equatorial Guinea	7 750	6 235	6 023	7 047	8 105	1e
France	9	16	17	22	20	1e
Gabon	511	464	502	454	418	1e
Georgia	10	10	9	16	15	1e
Germany	6 888	6 699	5 692	5 731	5 281	1e
Ghana	910	1 550	2 660	3 020	3 300	1e
Greece	12	9	6	4	0	1a
Guatemala			0	72	72	1e

Hungary	1 905	1 716	1 708	1 526	1 549	1e
India	32 058	30 257	27 784	33 131	33 664	1e
Indonesia	72 570	67 160	59 180	58 960	57 410	1e
Iran	224 899	232 900	249 530	256 650	259 399	1r
Iraq	10 574	10 967	7 005	9 107	9 429	1r
Ireland	3 060	2 390	1 840	1 400	1 290	1e
Israel	9 010	9 035	13 305	16 623	18 910	1e
Italy	5 443	4 852	4 117	3 343	3 316	1e
Japan	2 707	2 524	2 295	2 305	2 148	1e
Jordan	93	99	150	184	152	1e
Kazakhstan	36 350	33 100	32 810	26 747	27 011	1e
Korea, South	293	248	177	53	0	1e
Kuwait	17 925	17 516	17 522	18 800	19 300	1e
Kyrgyzstan	27	24	22	22	30	1e
Libya	21 290	26 830	20 930	13 010	12 570	1e
Malaysia	66 212	68 700	63 370	67 520	71 850	1e
Mexico	29 860	29 370	28 580	27 160	28 630	1e
Morocco	87	99	98	110	77	1e
Mozambique	5 120	4 597	4 541	4 600	4 519	1e
Myanmar	16 040	18 810	18 270	17 680	17 150	1e
Netherlands	36 911	31 517	22 813	20 438	16 838	1e
New Zealand	4 322	4 608	4 508	3 945	3 694	1e
Nigeria	48 270	49 280	49 950	48 570	44 300	1e
Norway	122 203	115 123	112 332	115 178	123 777	1e
Oman	37 660	37 460	37 020	39 750	41 740	1e
Pakistan	41 313	40 679	37 283	36 224	37 039	1e
Papua New Guinea	2 914	3 339	3 325	3 400	5 736	1n
Peru	12 721	13 429	12 030	11 375	13 705	1e
Philippines	4 270	4 409	4 013	3 429	3 217	1e
Poland	4 926	4 976	4 934	4 860	4 720	1e
Qatar	165 600	167 610	166 740	168 240	169 754	1p
Romania	10 278	9 959	8 914	8 938	9 060	1e
Russia	711 500	718 960	672 400	727 600	666 800	2e
Saudi Arabia	118 000	117 000	119 000	120 485	122 895	1e
Senegal	11	15	14	6	4	1e
Serbia	450	439	409	362	328	1e
Slovakia	90	80	70	71	58	1e
Slovenia	18	8	6	6	5	1e
South Africa	615	658	554	44	4	1e
Spain	90	135	47	38	38	1a
Syria	3 470	3 330	2 920	3 110	2 900	1n
Taiwan	198	167	105	110	96	1e
Tajikistan	1	1	1	1	1	1e
Tanzania	1 675	1 807	1 616	1 838	2 239	1e
Thailand	36 454	37 450	33 799	33 117	27 368	1e
Trinidad and Tobago	35 005	35 545	30 230	25 425	26 735	1e
Tunisia	1 950	1 780	1 850	2 240	2 030	1e
Türkiye	436	483	458	415	408	1e
Turkmenistan	70 000	71 000	67 960	83 773	82 700	1e
Ukraine	20 806	20 520	20 183	19 757	18 500	1e
United Arab Emirates	52 920	56 197	50 551	58 346	57 996	1r
United Kingdom	40 736	39 386	39 433	32 570	37 737	1e
United States	871 440	959 920	957 430	977 770	1 029 410	1e
Uzbekistan	61 585	60 712	49 768	53 802	51 678	1e
Venezuela	31 619	25 576	21 561	28 059	29 178	1r
Vietnam	10 010	10 200	9 160	7 460	8 080	1e
Yemen	100	100	130	200	200	1p
Total	3 950 300	4 076 243	3 960 928	4 125 716	4 158 384	

Petroleum

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Albania	910 670	1 005 090	712 427	757 393	657 402	1a
Algeria	65 331 000	64 330 000	57 535 000	58 200 000	62 066 000	1e
Angola	73 630 500	68 858 490	63 474 320	55 982 210	56 592 280	1e
Argentina	24 369 600	25 327 500	24 000 100	25 568 200	28 997 300	1e
Australia	16 776 470	22 464 160	22 381 790	21 782 900	20 228 210	1e
Austria	681 842	642 953	609 254	571 428	532 339	1e
Azerbaijan	38 814 300	37 501 200	34 531 900	34 580 300	32 646 400	1e
Bahrain	9 667 380	9 668 850	9 694 300	9 608 310	9 436 020	1e
Bangladesh	589 650	565 140	522 570	463 590	349 560	1n
Barbados	30 070	28 560	23 590	20 770	19 130	1e
Belarus	1 670 000	1 690 000	1 710 000	1 737 000	1 594 000	2n
Bolivia	2 534 273	2 244 260	2 065 070	2 032 870	1 815 610	1e
Brazil	134 122 000	143 933 400	151 759 400	149 154 800	154 993 700	1e
Brunei	5 553 200	6 040 240	5 479 350	5 308 680	4 577 160	1e
Bulgaria	20 600	20 000	20 500	20 086	19 480	1e
Cameroon	3 428 100	3 545 900	3 622 200	3 493 100	3 403 200	1e
Canada	258 786 900	265 045 900	253 195 200	266 190 400	271 233 300	1e
Chad	5 750 600	6 316 700	6 303 000	5 799 300	6 160 600	1e
Chile	160 330	161 520	102 640	109 980	128 510	1e
China	189 324 200	191 628 300	194 768 600	198 881 100	204 722 400	1e
Colombia	43 088 900	44 101 940	38 993 490	36 660 230	37 552 230	1e
Congo, D.R.	1 144 760	1 113 260	1 191 660	1 170 000	1 149 900	1e
Congo, Rep.	16 740 500	16 749 800	15 280 150	13 446 000	13 161 000	1e
Cote d'Ivoire	1 607 400	1 799 700	1 451 600	1 196 700	1 268 600	1e
Croatia	706 900	677 200	593 700	565 700	548 000	1e
Cuba	2 462 500	2 371 450	2 320 200	2 433 300	2 300 000	2n
Czechia	109 000	81 000	91 000	83 000	75 000	1e
Denmark	5 665 787	5 017 234	3 556 000	3 277 800	3 212 000	1e
Ecuador	25 754 000	26 442 000	23 932 000	23 543 000	23 944 300	1e
Egypt	32 844 000	31 812 000	31 066 370	29 601 360	29 920 860	1r
Equatorial Guinea	7 826 120	7 172 620	7 154 290	5 919 365	5 385 330	1e
France	774 100	719 800	644 700	647 830	595 700	1e
Gabon	9 646 000	10 848 000	10 766 000	10 038 600	10 367 900	1e
Georgia	30 200	35 100	31 300	35 500	36 600	1e
Germany	2 066 643	1 923 232	1 895 942	1 805 932	1 699 014	1e
Ghana	8 876 500	10 205 700	9 561 000	7 864 300	7 393 900	1e
Greece	201 786	164 905	89 715	57 570	0	1a
Guatemala	458 800	478 200	389 000	355 500	349 200	1e
Guyana	0	58 280	3 709 780	5 820 870	13 832 300	1e
Hungary	1 103 000	1 160 000	1 030 000	1 087 000	1 080 000	1e
India	34 203 270	32 169 270	30 494 090	29 688 440	29 178 680	1e
Indonesia	38 434 800	37 104 200	35 367 913	32 786 100	30 489 800	1e
Iran	219 633 830	158 608 670	144 367 790	168 793 020	176 541 170	1r
Iraq	227 012 450	234 220 100	202 037 850	200 829 370	221 310 150	1r
Israel	73 933	84 020	130 427	164 765	187 443	1e
Italy	4 684 200	4 279 000	5 393 780	4 840 300	4 497 484	1e
Japan	449 000	470 200	461 000	441 200	378 700	1e
Jordan	1 000	1 600	2 500	14 300	12 900	1e
Kazakhstan	90 359 500	90 555 500	85 656 100	85 879 400	84 235 900	1e
Kenya	0	32 400	41 000	0	0	1e
Korea, South	25 730	21 130	13 990	4 800	2 320	1e
Kuwait	136 244 500	133 309 720	121 347 440	120 264 800	134 810 500	1e
Kyrgyzstan	200 000	233 100	239 200	275 700	294 900	1e
Libya	55 146 500	57 738 100	19 437 000	60 084 200	52 759 520	1e
Lithuania	46 030	39 570	31 630	28 920	27 040	1e
Malaysia	32 509 900	30 384 800	27 679 100	25 169 300	25 023 600	1e

Mexico	101 605 440	94 161 830	93 860 550	94 785 920	95 765 300	1e
Moldova	5 100	5 032	5 032	4 972	4 652	1e
Mongolia	871 500	937 900	560 000	636 600	350 000	1e
Morocco	4 840	4 335	4 098	3 246	2 394	1e
Mozambique	51 810	41 250	38 350	36 330	45 930	1e
Myanmar	480 500	429 000	572 200	309 800	295 500	1e
Netherlands	1 129 300	892 600	862 200	864 000	498 100	1e
New Zealand	1 086 450	1 128 870	964 420	840 780	736 140	1e
Niger	827 300	903 400	855 500	873 100	778 100	1e
Nigeria	95 675 000	100 287 000	91 504 570	77 220 000	68 607 900	1e
Norway	84 275 900	79 388 000	93 492 500	95 254 000	89 819 000	1e
Oman	48 710 000	48 339 100	47 374 500	48 353 500	52 982 500	1e
Pakistan	4 441 610	4 433 150	3 832 330	3 760 980	3 833 290	1e
Papua New Guinea	1 898 700	1 889 900	1 960 100	1 842 600	1 669 400	1n
Peru	6 688 500	6 956 200	6 221 400	5 949 800	5 835 100	1e
Philippines	728 300	652 300	572 100	486 800	460 000	2e
Poland	937 040	936 760	911 430	858 030	816 540	1e
Qatar	76 030 410	72 034 260	71 100 920	71 601 750	71 963 220	1p
Romania	3 577 000	3 568 000	3 457 000	3 319 000	3 131 000	1e
Russia	555 833 900	560 256 690	512 761 000	524 050 000	535 000 000	1e
Saudi Arabia	576 817 650	556 564 010	519 613 000	515 878 200	574 692 000	1e
Senegal	20 300	28 500	25 280	0	0	1e
Serbia	910 712	881 000	859 226	835 319	823 280	1e
Slovakia	7 522	6 331	3 790	6 130	3 680	1e
Slovenia	769	490	385	296	127	1e
South Africa	23 770	29 774	31 974	15 633	6 540	2e
South Sudan	7 107 700	8 448 490	8 126 230	7 515 700	6 947 860	1r
Spain	89 476	40 244	26 819	5 785	910	1a
Sudan	3 560 000	3 778 300	2 932 600	2 605 000	2 532 000	1p
Suriname	818 400	825 200	818 400	811 600	837 500	1e
Syria	1 051 030	1 510 590	1 964 180	4 598 420	4 563 840	1r
Taiwan	4 000	3 300	1 860	2 110	1 600	1e
Tajikistan	23 939	23 293	24 400	24 635	24 860	1e
Thailand	11 361 670	11 362 210	10 077 510	8 820 540	7 134 630	1e
Trinidad and Tobago	4 122 240	3 869 080	3 600 510	3 652 900	3 524 510	1e
Tunisia	2 027 230	1 859 060	1 726 250	2 079 000	1 757 000	1e
Türkiye	2 850 828	2 984 800	3 202 924	3 441 659	3 583 040	1e
Turkmenistan	10 640 000	10 420 000	9 490 000	10 961 000	10 756 800	1e
Ukraine	2 293 300	2 453 600	2 430 800	2 455 400	527 800	1p
United Arab Emirates	175 958 530	179 898 440	165 945 480	163 436 800	181 116 570	1r
United Kingdom	51 550 700	52 856 200	49 361 500	41 162 470	38 036 800	1e
United States	723 520 700	809 798 800	776 781 100	782 355 100	835 099 700	1e
Uzbekistan	2 890 915	2 815 400	2 030 400	2 098 040	2 075 026	1e
Venezuela	84 296 810	52 747 340	33 566 730	34 360 750	37 306 030	1r
Vietnam	11 989 000	11 043 000	9 650 000	9 100 000	8 980 000	1e
Yemen	3 853 400	3 967 300	3 588 000	3 289 000	3 180 350	1p
Total	4 494 932 415	4 488 661 293	4 195 749 466	4 245 699 284	4 429 901 061	

Oil Sands (part of Petroleum)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Canada	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500	1e
Venezuela	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000	2n
Total	176 864 600	176 766 200	167 943 300	182 022 400	197 386 500	

Oil Shales

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Austria	150	100	100	100	100	2n
Bulgaria	0	39 000	44 000	56 000	61 000	1e
Estonia	21 883 000	15 697 400	12 144 400	11 743 000	13 967 000	1e
France	2 000	2 000	2 000	2 000	2 000	2n
Germany	494 650	487 012	471 404	442 886	415 916	1e
Israel	414 580	402 882	392 990	430 840	254 425	1e
Total	22 794 380	16 628 394	13 054 894	12 674 826	14 700 441	

Uranium (U₃O₈)

Country	2018 metr. t	2019 metr. t	2020 metr. t	2021 metr. t	2022 metr. t	Rem
Australia	7 737	7 726	7 273	4 474	5 377	1e
Brazil	0	0	20	34	51	1e
Canada	8 225	8 230	4 260	5 622	6 168	1e
China	2 223	2 223	2 223	1 887	2 005	2d
Czechia	40	39	34	32	25	1e
Germany	0	28	8	0	0	1e
India	499	363	472	708	708	2d
Kazakhstan	25 595	26 895	22 967	25 729	25 031	1e
Mongolia	0	0	1	4	0	1e
Namibia	6 514	6 459	6 382	6 784	6 617	1e
Niger	3 433	3 516	3 527	2 691	2 382	1e
Pakistan	53	53	53	53	53	2d
Russia	3 424	3 433	3 356	3 107	2 957	1e
South Africa	231	163	131	153	170	2e
Ukraine	1 390	944	877	536	142	1e
United States	657	79	7	9	88	1e
Uzbekistan	4 062	4 127	4 127	4 158	4 198	1e
Total	64 083	64 278	55 718	55 981	55 972	

6.5 Share of World Mineral Production 2022, by Countries

6.5.1 Iron and Ferro-Alloy Metals

Iron (Fe-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	584 413 159	37.75	37.75	1 425.36
2	(2)	Brazil	250 993 847	16.21	53.97	262.91
3	(3)	China	212 900 000	13.75	67.72	189.16
4	(4)	India	158 405 600	10.23	77.96	104.72
5	(5)	Russia	56 109 000	3.62	81.58	13.14
6	(8)	Canada	42 073 900	2.72	84.30	7.39
7	(7)	South Africa	41 414 300	2.68	86.97	7.16
8	(9)	Iran	36 874 200	2.38	89.36	5.67
9	(10)	United States	24 687 000	1.59	90.95	2.54
10	(6)	Ukraine	22 354 000	1.44	92.39	2.09
11	(11)	Sweden	18 799 000	1.21	93.61	1.47
12	(14)	Peru	12 936 826	0.84	94.44	0.70
13	(12)	Kazakhstan	12 567 100	0.81	95.26	0.66
14	(16)	Türkiye	11 928 200	0.77	96.03	0.59
15	(15)	Chile	11 059 801	0.71	96.74	0.51
16	(13)	Mexico	10 963 300	0.71	97.45	0.50
17	(17)	Mauritania	8 465 400	0.55	98.00	0.30
18	(26)	Venezuela	4 575 000	0.30	98.29	0.09
19	(18)	Mongolia	4 289 540	0.28	98.57	0.08
20	(20)	Malaysia	3 094 320	0.20	98.77	0.04
21	(19)	Indonesia	3 000 000	0.19	98.96	0.04
22	(21)	Liberia	2 640 000	0.17	99.13	0.03
23	(22)	New Zealand	2 280 000	0.15	99.28	0.02
24	(25)	Korea, North	1 647 800	0.11	99.39	0.01
25	(30)	Sierra Leone	1 230 000	0.08	99.47	0.01
26	(29)	Norway	1 105 900	0.07	99.54	0.01
27	(24)	Vietnam	1 105 800	0.07	99.61	0.01
28	(23)	Laos	1 076 900	0.07	99.68	0.00
29	(31)	Algeria	1 074 000	0.07	99.75	0.00
30	(28)	Austria	1 035 770	0.07	99.82	0.00
31	(32)	Bosnia-Herzegovina	771 530	0.05	99.87	0.00
32	(34)	Saudi Arabia	351 700	0.02	99.89	0.00
33	(36)	Pakistan	272 570	0.02	99.91	0.00
34	(35)	Korea, South	260 400	0.02	99.92	0.00
35	(33)	Colombia	223 870	0.01	99.94	0.00
36	(48)	Bolivia	215 940	0.01	99.95	0.00
37	(27)	Guinea	197 900	0.01	99.96	0.00
38	(38)	Tunisia	140 000	0.01	99.97	0.00
39	(37)	Thailand	117 800	0.01	99.98	0.00
40	(40)	Germany	86 000	0.01	99.99	0.00
41	(46)	Uganda	61 600	0.00	99.99	0.00
42	(43)	Philippines	45 500	0.00	99.99	0.00

43	(42)	Fiji	28 800	0.00	99.99	0.00
44	(44)	Tanzania	25 500	0.00	100.00	0.00
45	(47)	Congo, Rep.	20 200	0.00	100.00	0.00
46	(50)	Morocco	10 000	0.00	100.00	0.00
47	(54)	Nigeria	6 700	0.00	100.00	0.00
48	(51)	Egypt	6 000	0.00	100.00	0.00
49	(39)	Angola	5 880	0.00	100.00	0.00
50	(49)	Bhutan	2 230	0.00	100.00	0.00
51	(52)	Uruguay	2 220	0.00	100.00	0.00
52	(53)	Malawi	590	0.00	100.00	0.00
Total			1 547 952 593	100.00		HHI 2 025

Chromium (Cr₂O₃ - Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	7 905 000	51.80	51.80	2 683.53
2	(2)	Kazakhstan	1 833 900	12.02	63.82	144.43
3	(3)	India	1 614 600	10.58	74.40	111.95
4	(4)	Türkiye	1 460 300	9.57	83.97	91.58
5	(5)	Zimbabwe	670 860	4.40	88.37	19.33
6	(6)	Finland	391 410	2.56	90.93	6.58
7	(8)	Albania	383 400	2.51	93.44	6.31
8	(7)	Brazil	218 626	1.43	94.88	2.05
9	(10)	Russia	203 200	1.33	96.21	1.77
10	(9)	Oman	164 800	1.08	97.29	1.17
11	(11)	Iran	130 440	0.85	98.14	0.73
12	(13)	Pakistan	78 000	0.51	98.65	0.26
13	(12)	China	65 050	0.43	99.08	0.18
14	(15)	Philippines	59 000	0.39	99.47	0.15
15	(14)	Papua New Guinea	47 250	0.31	99.78	0.10
16	(18)	Afghanistan	19 100	0.13	99.90	0.02
17	(17)	Madagascar	9 000	0.06	99.96	0.00
18	(16)	Cuba	4 000	0.03	99.99	0.00
19	(19)	Sudan	1 450	0.01	100.00	0.00
20	(20)	Ethiopia	400	0.00	100.00	0.00
Total			15 259 786	100.00		HHI 3 070

Cobalt

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Congo, D.R.	115 371	69.49	69.49	4 828.59
2	(10)	Indonesia	9 600	5.78	75.27	33.43
3	(2)	Russia	9 000	5.42	80.69	29.38
4	(3)	Australia	5 793	3.49	84.18	12.17
5	(5)	Cuba	3 600	2.17	86.35	4.70
6	(9)	Madagascar	3 428	2.06	88.41	4.26
7	(6)	Philippines	3 400	2.05	90.46	4.19
8	(4)	Canada	3 063	1.84	92.31	3.40
9	(7)	Papua New Guinea	2 987	1.80	94.10	3.24

10	(8)	Türkiye	2 100	1.26	95.37	1.60
11	(13)	New Caledonia	1 770	1.07	96.44	1.14
12	(11)	China	1 750	1.05	97.49	1.11
13	(12)	Morocco	1 690	1.02	98.51	1.04
14	(14)	Finland	1 235	0.74	99.25	0.55
15	(15)	United States	500	0.30	99.55	0.09
16	(18)	Zambia	252	0.15	99.70	0.02
17	(16)	South Africa	250	0.15	99.85	0.02
18	(17)	Zimbabwe	241	0.15	100.00	0.02
		Total	166 030	100.00		HHI 4 929

Manganese

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	7 113 500	35.07	35.07	1 229.81
2	(2)	Gabon	4 529 000	22.33	57.40	498.51
3	(3)	Australia	3 082 850	15.20	72.59	230.98
4	(4)	Ghana	919 800	4.53	77.13	20.56
5	(6)	India	872 600	4.30	81.43	18.51
6	(5)	China	819 000	4.04	85.47	16.30
7	(8)	Brazil	529 664	2.61	88.08	6.82
8	(7)	Ukraine	372 800	1.84	89.92	3.38
9	(9)	Cote d'Ivoire	371 900	1.83	91.75	3.36
10	(10)	Malaysia	312 720	1.54	93.29	2.38
11	(12)	Mexico	220 745	1.09	94.38	1.18
12	(13)	Myanmar	207 100	1.02	95.40	1.04
13	(11)	Georgia	160 000	0.79	96.19	0.62
14	(14)	Vietnam	155 000	0.76	96.95	0.58
15	(15)	Kazakhstan	136 600	0.67	97.63	0.45
16	(**)	Guyana	105 800	0.52	98.15	0.27
17	(17)	Zambia	69 490	0.34	98.49	0.12
18	(16)	Iran	65 800	0.32	98.82	0.11
19	(21)	Kenya	61 200	0.30	99.12	0.09
20	(20)	Türkiye	36 900	0.18	99.30	0.03
21	(23)	Angola	32 400	0.16	99.46	0.03
22	(18)	Morocco	24 500	0.12	99.58	0.01
23	(22)	Nigeria	23 100	0.11	99.69	0.01
24	(24)	Russia	16 500	0.08	99.78	0.01
25	(30)	Senegal	13 370	0.07	99.84	0.00
26	(25)	Namibia	10 600	0.05	99.89	0.00
27	(28)	Romania	5 900	0.03	99.92	0.00
28	(32)	Congo, D.R.	5 380	0.03	99.95	0.00
29	(27)	Egypt	5 000	0.02	99.97	0.00
30	(31)	Oman	3 000	0.01	99.99	0.00
31	(26)	Peru	1 169	0.01	99.99	0.00
32	(29)	Bolivia	420	0.00	100.00	0.00
33	(**)	Thailand	320	0.00	100.00	0.00
34	(34)	Pakistan	200	0.00	100.00	0.00
35	(33)	Colombia	160	0.00	100.00	0.00
		Total	20 284 488	100.00		HHI 2 035

Molybdenum

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	107 550	40.51	40.51	1 641.43
2	(2)	Chile	45 627	17.19	57.70	295.42
3	(3)	United States	34 600	13.03	70.74	169.88
4	(4)	Peru	31 588	11.90	82.64	141.59
5	(5)	Mexico	19 329	7.28	89.92	53.02
6	(6)	Armenia	10 991	4.14	94.06	17.14
7	(7)	Iran	5 980	2.25	96.31	5.07
8	(8)	Mongolia	2 780	1.05	97.36	1.10
9	(12)	Kazakhstan	2 005	0.76	98.11	0.57
10	(10)	Russia	1 700	0.64	98.75	0.41
11	(11)	Uzbekistan	1 177	0.44	99.20	0.20
12	(9)	Canada	1 146	0.43	99.63	0.19
13	(14)	Korea, North	620	0.23	99.86	0.05
14	(13)	Korea, South	366	0.14	100.00	0.02
15	(15)	Norway	1	0.00	100.00	0.00
		Total	265 460	100.00		HHI 2 326

Nickel

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Indonesia	1 593 400	49.04	49.04	2 405.35
2	(2)	Philippines	345 200	10.63	59.67	112.89
3	(3)	Russia	220 000	6.77	66.44	45.85
4	(4)	New Caledonia	199 951	6.15	72.60	37.88
5	(6)	Australia	155 007	4.77	77.37	22.76
6	(5)	Canada	143 266	4.41	81.78	19.45
7	(7)	China	109 400	3.37	85.14	11.34
8	(8)	Brazil	79 370	2.44	87.59	5.97
9	(9)	Guatemala	52 600	1.62	89.21	2.62
10	(11)	Finland	44 921	1.38	90.59	1.91
11	(10)	Cuba	43 000	1.32	91.91	1.75
12	(12)	Colombia	41 816	1.29	93.20	1.66
13	(15)	Madagascar	35 737	1.10	94.30	1.21
14	(14)	Papua New Guinea	34 302	1.06	95.35	1.11
15	(13)	South Africa	29 500	0.91	96.26	0.82
16	(16)	Dominican Republic	29 223	0.90	97.16	0.81
17	(17)	Cote d'Ivoire	27 610	0.85	98.01	0.72
18	(18)	United States	17 500	0.54	98.55	0.29
19	(21)	Türkiye	14 540	0.45	99.00	0.20
20	(20)	Zimbabwe	14 260	0.44	99.44	0.19
21	(19)	Myanmar	9 600	0.30	99.73	0.09
22	(25)	Zambia	3 946	0.12	99.85	0.01
23	(23)	Greece	1 700	0.05	99.91	0.00

24	(24)	Albania	1 570	0.05	99.95	0.00
25	(26)	Poland	830	0.03	99.98	0.00
26	(22)	Kosovo	300	0.01	99.99	0.00
27	(27)	Norway	190	0.01	100.00	0.00
28	(28)	Morocco	157	0.00	100.00	0.00
Total			3 248 896	100.00		HHI 2 675

Niobium (Nb₂O₅-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Brazil	110 000	93.06	93.06	8 659.33
2	(2)	Canada	6 800	5.75	98.81	33.09
3	(3)	Russia	549	0.46	99.27	0.22
4	(4)	Congo, D.R.	520	0.44	99.71	0.19
5	(5)	Rwanda	195	0.16	99.88	0.03
6	(6)	Nigeria	60	0.05	99.93	0.00
7	(7)	China	40	0.03	99.96	0.00
8	(8)	Ethiopia	25	0.02	99.98	0.00
9	(9)	Mozambique	17	0.01	100.00	0.00
10	(10)	Burundi	3	0.00	100.00	0.00
Total			118 209	100.00		HHI 8 693

Tantalum (Ta₂O₅-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Congo, D.R.	550	31.87	31.87	1 015.42
2	(2)	Brazil	350	20.28	52.14	411.20
3	(3)	Rwanda	300	17.38	69.52	302.11
4	(5)	Nigeria	140	8.11	77.64	65.79
5	(4)	China	92	5.33	82.97	28.41
6	(8)	Ethiopia	90	5.21	88.18	27.19
7	(6)	Mozambique	84	4.87	93.05	23.69
8	(7)	Australia	40	2.32	95.37	5.37
9	(10)	Sierra Leone	25	1.45	96.81	2.10
10	(9)	Russia	24	1.39	98.20	1.93
11	(11)	Spain	19	1.10	99.30	1.21
12	(12)	Burundi	5	0.29	99.59	0.08
13	(14)	Malaysia	4	0.23	99.83	0.05
14	(13)	Bolivia	3	0.17	100.00	0.03
Total			1 726	100.00		HHI 1 885

Titanium (TiO₂-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	3 144 000	35.16	35.16	1 235.95
2	(2)	Mozambique	1 387 200	15.51	50.67	240.61
3	(3)	South Africa	1 050 000	11.74	62.41	137.85
4	(4)	Australia	545 000	6.09	68.50	37.14
5	(6)	Canada	540 000	6.04	74.54	36.46
6	(7)	Madagascar	299 800	3.35	77.89	11.24
7	(8)	Senegal	284 998	3.19	81.08	10.16
8	(10)	Kenya	275 290	3.08	84.16	9.48
9	(9)	Norway	252 990	2.83	86.99	8.00
10	(15)	United States	200 000	2.24	89.22	5.00
11	(5)	Ukraine	180 000	2.01	91.24	4.05
12	(13)	Vietnam	172 380	1.93	93.16	3.72
13	(14)	Sierra Leone	161 250	1.80	94.97	3.25
14	(12)	India	154 000	1.72	96.69	2.97
15	(11)	Korea, South	152 250	1.70	98.39	2.90
16	(16)	Brazil	53 000	0.59	98.98	0.35
17	(18)	Kazakhstan	22 000	0.25	99.23	0.06
18	(19)	Malaysia	21 180	0.24	99.47	0.06
19	(21)	Iran	19 570	0.22	99.69	0.05
20	(17)	Sri Lanka	18 025	0.20	99.89	0.04
21	(20)	Türkiye	6 860	0.08	99.96	0.01
22	(22)	Russia	3 200	0.04	100.00	0.00
23	(23)	Thailand	1	0.00	100.00	0.00
		Total	8 942 994	100.00		HHI 1 749

Tungsten (W-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	65 620	76.37	76.37	5 832.08
2	(2)	Vietnam	10 817	12.59	88.96	158.48
3	(3)	Russia	2 000	2.33	91.28	5.42
4	(5)	Rwanda	1 610	1.87	93.16	3.51
5	(15)	Korea, North	1 520	1.77	94.93	3.13
6	(4)	Bolivia	1 358	1.58	96.51	2.50
7	(6)	Austria	910	1.06	97.57	1.12
8	(8)	Portugal	448	0.52	98.09	0.27
9	(7)	Spain	396	0.46	98.55	0.21
10	(9)	Brazil	302	0.35	98.90	0.12
11	(11)	Mongolia	236	0.27	99.17	0.08
12	(10)	Australia	180	0.21	99.38	0.04
13	(13)	Congo, D.R.	147	0.17	99.56	0.03
14	(12)	Burundi	100	0.12	99.67	0.01
15	(14)	Thailand	60	0.07	99.74	0.00
16	(19)	Nigeria	52	0.06	99.80	0.00
17	(**)	Mexico	50	0.06	99.86	0.00

18	(18)	Uganda	38	0.04	99.90	0.00
19	(17)	Uzbekistan	34	0.04	99.94	0.00
20	(16)	Myanmar	30	0.03	99.98	0.00
21	(20)	Zimbabwe	18	0.02	100.00	0.00
		Total	85 926	100.00		HHI 6 007

Vanadium (V-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	78 100	67.75	67.75	4 590.52
2	(2)	Russia	21 000	18.22	85.97	331.89
3	(3)	South Africa	8 872	7.70	93.67	59.24
4	(4)	Brazil	7 249	6.29	99.96	39.55
5	(5)	India	50	0.04	100.00	0.00
		Total	115 271	100.00		HHI 5 021

6.5.2 Non-Ferrous Metals

Aluminium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	40 144 300	58.33	58.33	3 402.10
2	(3)	India	4 073 000	5.92	64.25	35.02
3	(2)	Russia	4 014 000	5.83	70.08	34.01
4	(4)	Canada	3 033 966	4.41	74.49	19.43
5	(5)	United Arab Emirates	2 650 000	3.85	78.34	14.82
6	(6)	Bahrain	1 600 111	2.32	80.66	5.41
7	(7)	Australia	1 509 646	2.19	82.85	4.81
8	(8)	Norway	1 424 571	2.07	84.92	4.28
9	(10)	Malaysia	960 000	1.39	86.32	1.95
10	(9)	United States	872 270	1.27	87.59	1.61
11	(12)	Brazil	810 900	1.18	88.76	1.39
12	(11)	Saudi Arabia	776 413	1.13	89.89	1.27
13	(14)	Iceland	730 394	1.06	90.95	1.13
14	(13)	South Africa	718 000	1.04	92.00	1.09
15	(15)	Qatar	637 975	0.93	92.92	0.86
16	(17)	Iran	611 551	0.89	93.81	0.79
17	(16)	Mozambique	587 200	0.85	94.67	0.73
18	(21)	Argentina	400 038	0.58	95.25	0.34
19	(20)	Oman	394 780	0.57	95.82	0.33
20	(19)	France	380 000	0.55	96.37	0.30
21	(18)	Germany	341 212	0.50	96.87	0.25
22	(22)	New Zealand	335 871	0.49	97.36	0.24
23	(24)	Egypt	250 000	0.36	97.72	0.13
24	(25)	Kazakhstan	249 141	0.36	98.08	0.13
25	(26)	Indonesia	223 774	0.33	98.41	0.11

26	(23)	Romania	191 454	0.28	98.69	0.08
27	(28)	Greece	171 450	0.25	98.93	0.06
28	(31)	Bosnia-Herzegovina	138 969	0.20	99.14	0.04
29	(30)	Sweden	120 000	0.17	99.31	0.03
30	(32)	Türkiye	80 000	0.12	99.43	0.01
31	(29)	Slovakia	71 933	0.10	99.53	0.01
32	(34)	Cameroon	62 770	0.09	99.62	0.01
33	(33)	Tajikistan	62 000	0.09	99.71	0.01
34	(37)	Ghana	55 592	0.08	99.79	0.01
35	(36)	Montenegro	43 196	0.06	99.86	0.00
36	(40)	United Kingdom	38 000	0.06	99.91	0.00
37	(41)	Azerbaijan	33 500	0.05	99.96	0.00
38	(39)	Slovenia	19 211	0.03	99.99	0.00
39	(37)	Venezuela	8 430	0.01	100.00	0.00
Total			68 825 618	100.00		HHI 3 533

Antimony

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	39 000	46.97	46.97	2 206.22
2	(2)	Tajikistan	14 500	17.46	64.43	304.97
3	(4)	Türkiye	10 640	12.81	77.25	164.21
4	(3)	Russia	4 391	5.29	82.54	27.97
5	(8)	Iran	3 890	4.68	87.22	21.95
6	(6)	Bolivia	3 453	4.16	91.38	17.29
7	(7)	Myanmar	3 230	3.89	95.27	15.13
8	(5)	Australia	2 292	2.76	98.03	7.62
9	(9)	Mexico	632	0.76	98.79	0.58
10	(**)	Kazakhstan	467	0.56	99.35	0.32
11	(10)	Vietnam	252	0.30	99.66	0.09
12	(11)	Laos	250	0.30	99.96	0.09
13	(**)	Kyrgyzstan	20	0.02	99.98	0.00
14	(**)	Guatemala	12	0.01	100.00	0.00
15	(14)	Canada	2	0.00	100.00	0.00
Total			83 031	100.00		HHI 2 766

Arsenic

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	Peru	25 379	45.00	45.00	2 024.55
2	(1)	China	24 000	42.55	87.55	1 810.52
3	(3)	Morocco	5 450	9.66	97.21	93.36
4	(4)	Belgium	1 000	1.77	98.98	3.14
5	(5)	Russia	500	0.89	99.87	0.79
6	(7)	Japan	40	0.07	99.94	0.01
7	(6)	Bolivia	35	0.06	100.00	0.00
Total			56 404	100.00		HHI 3 932

Bauxite (crude ore)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(2)	Guinea	103 525 513	26.09	26.09	680.85
2	(1)	Australia	100 478 354	25.33	51.42	641.36
3	(3)	China	74 300 000	18.73	70.15	350.70
4	(4)	Brazil	31 608 694	7.97	78.11	63.47
5	(5)	Indonesia	28 808 674	7.26	85.37	52.72
6	(6)	India	23 831 706	6.01	91.38	36.08
7	(7)	Russia	6 712 000	1.69	93.07	2.86
8	(9)	Saudi Arabia	5 930 000	1.49	94.57	2.23
9	(8)	Jamaica	4 364 700	1.10	95.67	1.21
10	(10)	Kazakhstan	4 175 900	1.05	96.72	1.11
11	(11)	Vietnam	4 000 000	1.01	97.73	1.02
12	(12)	Türkiye	2 072 968	0.52	98.25	0.27
13	(14)	Greece	1 173 319	0.30	98.55	0.09
14	(15)	Iran	955 528	0.24	98.79	0.06
15	(13)	Sierra Leone	910 344	0.23	99.02	0.05
16	(16)	Ghana	773 213	0.19	99.21	0.04
17	(26)	Venezuela	770 000	0.19	99.40	0.04
18	(18)	Guyana	705 631	0.18	99.58	0.03
19	(17)	Bosnia-Herzegovina	669 926	0.17	99.75	0.03
20	(19)	Montenegro	438 205	0.11	99.86	0.01
21	(24)	Malaysia	129 825	0.03	99.89	0.00
22	(20)	France	118 000	0.03	99.92	0.00
23	(22)	Dominican Republic	104 158	0.03	99.95	0.00
24	(21)	Pakistan	70 000	0.02	99.97	0.00
25	(23)	Colombia	41 479	0.01	99.98	0.00
26	(25)	Tanzania	40 921	0.01	99.99	0.00
27	(27)	Croatia	17 749	0.00	99.99	0.00
28	(28)	Mozambique	14 583	0.00	100.00	0.00
29	(**)	United States	12 580	0.00	100.00	0.00
		Total	396 753 970	100.00		HHI 1 834

Beryllium (concentrates)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	4 330	63.65	63.65	4 051.12
2	(2)	China	1 850	27.19	90.84	739.51
3	(3)	Mozambique	531	7.81	98.65	60.92
4	(4)	Uganda	35	0.51	99.16	0.26
5	(5)	Madagascar	20	0.29	99.46	0.09
6	(6)	Rwanda	20	0.29	99.75	0.09
7	(7)	Brazil	10	0.15	99.90	0.02
8	(8)	Zambia	7	0.10	100.00	0.01
		Total	6 803	100.00		HHI 4 852

Bismuth

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	7 500	72.99	72.99	5 326.90
2	(2)	Vietnam	1 938	18.86	91.85	355.68
3	(3)	Japan	480	4.67	96.52	21.82
4	(5)	Peru	251	2.44	98.96	5.97
5	(4)	Kazakhstan	101	0.98	99.94	0.97
6	(8)	Uzbekistan	3	0.03	99.97	0.00
7	(7)	Bolivia	3	0.03	100.00	0.00
		Total	10 276	100.00		HHI 5 711

Cadmium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	8 700	37.82	37.82	1 430.44
2	(2)	Korea, South	4 000	17.39	55.21	302.38
3	(4)	Canada	1 800	7.83	63.04	61.23
4	(3)	Japan	1 800	7.83	70.86	61.23
5	(6)	Mexico	1 174	5.10	75.96	26.05
6	(7)	Russia	1 000	4.35	80.31	18.90
7	(5)	Kazakhstan	1 000	4.35	84.66	18.90
8	(8)	Netherlands	574	2.50	87.15	6.23
9	(10)	Uzbekistan	500	2.17	89.33	4.72
10	(9)	Peru	460	2.00	91.33	4.00
11	(13)	Norway	420	1.83	93.15	3.33
12	(12)	Australia	328	1.43	94.58	2.03
13	(14)	Bulgaria	315	1.37	95.95	1.88
14	(11)	Germany	300	1.30	97.25	1.70
15	(15)	Poland	250	1.09	98.34	1.18
16	(16)	United States	212	0.92	99.26	0.85
17	(17)	Korea, North	150	0.65	99.91	0.43
18	(18)	Brazil	20	0.09	100.00	0.01
		Total	23 003	100.00		HHI 1 945

Copper

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Chile	5 330 400	23.98	23.98	575.20
2	(4)	Congo, D.R.	2 515 847	11.32	35.30	128.14
3	(2)	Peru	2 445 271	11.00	46.31	121.05
4	(3)	China	1 925 600	8.66	54.97	75.06
5	(5)	United States	1 300 000	5.85	60.82	34.21
6	(6)	Russia	948 000	4.27	65.08	18.19
7	(10)	Indonesia	940 770	4.23	69.32	17.92
8	(9)	Mexico	828 189	3.73	73.04	13.89

9	(8)	Australia	826 271	3.72	76.76	13.82
10	(7)	Zambia	795 141	3.58	80.34	12.80
11	(11)	Kazakhstan	594 050	2.67	83.01	7.14
12	(12)	Canada	510 782	2.30	85.31	5.28
13	(13)	Poland	392 500	1.77	87.08	3.12
14	(15)	Panama	350 438	1.58	88.65	2.49
15	(16)	Iran	314 995	1.42	90.07	2.01
16	(14)	Brazil	297 653	1.34	91.41	1.79
17	(17)	Mongolia	268 930	1.21	92.62	1.46
18	(20)	Serbia	203 998	0.92	93.54	0.84
19	(18)	Uzbekistan	148 520	0.67	94.20	0.45
20	(19)	Spain	124 949	0.56	94.77	0.32
21	(22)	Bulgaria	121 120	0.54	95.31	0.30
22	(24)	Ecuador	115 100	0.52	95.83	0.27
23	(21)	Türkiye	115 000	0.52	96.35	0.27
24	(25)	Sweden	88 337	0.40	96.74	0.16
25	(28)	Papua New Guinea	75 834	0.34	97.09	0.12
26	(27)	Saudi Arabia	74 690	0.34	97.42	0.11
27	(26)	Armenia	71 466	0.32	97.74	0.10
28	(29)	Philippines	62 100	0.28	98.02	0.08
29	(31)	South Africa	49 194	0.22	98.24	0.05
30	(30)	Morocco	46 000	0.21	98.45	0.04
31	(33)	Laos	43 766	0.20	98.65	0.04
32	(34)	Vietnam	34 710	0.16	98.80	0.02
33	(40)	Botswana	34 201	0.15	98.96	0.02
34	(32)	Portugal	32 098	0.14	99.10	0.02
35	(35)	Finland	27 637	0.12	99.23	0.02
36	(36)	India	26 200	0.12	99.34	0.01
37	(49)	Tajikistan	19 240	0.09	99.43	0.01
38	(37)	Eritrea	17 098	0.08	99.51	0.01
39	(39)	Pakistan	16 346	0.07	99.58	0.01
40	(38)	Mauritania	13 313	0.06	99.64	0.00
41	(42)	Romania	11 550	0.05	99.69	0.00
42	(44)	Zimbabwe	10 168	0.05	99.74	0.00
43	(41)	Congo, Rep.	7 877	0.04	99.77	0.00
44	(47)	North Macedonia	7 595	0.03	99.81	0.00
45	(46)	Kyrgyzstan	7 500	0.03	99.84	0.00
46	(43)	Colombia	6 918	0.03	99.87	0.00
47	(45)	Georgia	6 400	0.03	99.90	0.00
48	(48)	Dominican Republic	5 360	0.02	99.93	0.00
49	(51)	Bolivia	3 608	0.02	99.94	0.00
50	(50)	Albania	3 470	0.02	99.96	0.00
51	(54)	Tanzania	3 097	0.01	99.97	0.00
52	(52)	Azerbaijan	2 516	0.01	99.98	0.00
53	(53)	Korea, North	2 000	0.01	99.99	0.00
54	(23)	Myanmar	1 500	0.01	100.00	0.00
55	(57)	Germany	67	0.00	100.00	0.00
56	(56)	Slovakia	30	0.00	100.00	0.00
		Total	22 225 410	100.00		HHI 1 037

Gallium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	606	98.38	98.38	9 677.96
2	(2)	Russia	5	0.81	99.19	0.66
3	(3)	Japan	3	0.49	99.68	0.24
4	(4)	Korea, South	2	0.32	100.00	0.11
		Total	616	100.00		HHI 9 679

Germanium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	130	93.53	93.53	8 746.96
2	(2)	Russia	5	3.60	97.12	12.94
3	(3)	Japan	2	1.44	98.56	2.07
4	(4)	United States	2	1.44	100.00	2.07
		Total	139	100.00		HHI 8 764

Indium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	667	66.17	66.17	4 378.55
2	(2)	Korea, South	180	17.86	84.03	318.88
3	(3)	Japan	66	6.55	90.58	42.87
4	(4)	Canada	39	3.87	94.44	14.97
5	(6)	Belgium	19	1.88	96.33	3.55
6	(5)	France	19	1.88	98.21	3.55
7	(7)	Russia	10	0.99	99.21	0.98
8	(8)	Peru	7	0.69	99.90	0.48
9	(9)	Uzbekistan	1	0.10	100.00	0.01
		Total	1 008	100.00		HHI 4 764

Lead

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	1 945 900	41.46	41.46	1 718.56
2	(2)	Australia	437 825	9.33	50.78	87.00
3	(4)	Mexico	428 971	9.14	59.92	83.52
4	(3)	United States	264 000	5.62	65.55	31.63

5	(5)	Peru	255 443	5.44	70.99	29.61
6	(6)	India	223 038	4.75	75.74	22.58
7	(7)	Russia	220 000	4.69	80.43	21.97
8	(10)	Iran	105 500	2.25	82.67	5.05
9	(9)	Bolivia	89 761	1.91	84.59	3.66
10	(8)	Türkiye	81 650	1.74	86.33	3.03
11	(11)	Sweden	70 339	1.50	87.82	2.25
12	(13)	Nigeria	52 400	1.12	88.94	1.25
13	(12)	Tajikistan	47 510	1.01	89.95	1.02
14	(14)	North Macedonia	41 600	0.89	90.84	0.79
15	(16)	South Africa	40 000	0.85	91.69	0.73
16	(18)	Cuba	33 000	0.70	92.39	0.49
17	(19)	Kazakhstan	30 100	0.64	93.04	0.41
18	(15)	Morocco	30 000	0.64	93.67	0.41
19	(21)	Poland	28 770	0.61	94.29	0.38
20	(22)	Korea, North	25 000	0.53	94.82	0.28
21	(20)	Portugal	23 347	0.50	95.32	0.25
22	(23)	Bulgaria	23 110	0.49	95.81	0.24
23	(26)	Vietnam	20 560	0.44	96.25	0.19
24	(24)	Argentina	18 599	0.40	96.64	0.16
25	(17)	Uzbekistan	17 200	0.37	97.01	0.13
26	(29)	Myanmar	16 000	0.34	97.35	0.12
27	(28)	Ireland	14 181	0.30	97.65	0.09
28	(27)	Honduras	12 400	0.26	97.92	0.07
29	(31)	Namibia	12 240	0.26	98.18	0.07
30	(32)	Mongolia	10 850	0.23	98.41	0.05
31	(25)	Greece	10 100	0.22	98.62	0.05
32	(30)	Spain	9 557	0.20	98.83	0.04
33	(34)	Pakistan	8 886	0.19	99.02	0.04
34	(38)	Brazil	8 304	0.18	99.19	0.03
35	(33)	Canada	8 247	0.18	99.37	0.03
36	(37)	Bosnia-Herzegovina	6 730	0.14	99.51	0.02
37	(36)	Serbia	6 660	0.14	99.66	0.02
38	(35)	Indonesia	4 800	0.10	99.76	0.01
39	(40)	Kosovo	4 734	0.10	99.86	0.01
40	(45)	Laos	1 800	0.04	99.90	0.00
41	(42)	Finland	1 535	0.03	99.93	0.00
42	(**)	Montenegro	1 350	0.03	99.96	0.00
43	(41)	Korea, South	970	0.02	99.98	0.00
44	(44)	Chile	457	0.01	99.99	0.00
45	(43)	Romania	300	0.01	100.00	0.00
46	(46)	Slovakia	126	0.00	100.00	0.00
47	(47)	United Kingdom	100	0.00	100.00	0.00
		Total	4 693 950	100.00		HHI 2 016

Lithium (Li₂O-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	149 800	43.32	43.32	1 876.29
2	(2)	Chile	110 350	31.91	75.23	1 018.17
3	(3)	China	57 900	16.74	91.97	280.31
4	(4)	Argentina	14 210	4.11	96.08	16.88
5	(5)	Brazil	7 863	2.27	98.35	5.17
6	(7)	Zimbabwe	3 540	1.02	99.37	1.05
7	(6)	United States	1 640	0.47	99.85	0.22

8	(8)	Bolivia	250	0.07	99.92	0.01
9	(9)	Portugal	210	0.06	99.98	0.00
10	(10)	Russia	46	0.01	99.99	0.00
11	(11)	Nigeria	20	0.01	100.00	0.00
		Total	345 829	100.00		HHI 3 198

Mercury

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	637	62.76	62.76	3 938.64
2	(2)	Tajikistan	326	32.12	94.88	1 031.58
3	(3)	Mexico	20	1.97	96.85	3.88
4	(5)	United States	15	1.48	98.33	2.18
5	(4)	Russia	10	0.99	99.31	0.97
6	(6)	Kyrgyzstan	5	0.49	99.80	0.24
7	(7)	Morocco	2	0.20	100.00	0.04
		Total	1 015	100.00		HHI 4 978

Rare Earth Minerals (REO-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	210 000	70.75	70.75	5 004.98
2	(2)	United States	42 499	14.32	85.06	204.98
3	(4)	Australia	17 660	5.95	91.01	35.40
4	(3)	Myanmar	17 550	5.91	96.92	34.96
5	(5)	Madagascar	2 600	0.88	97.80	0.77
6	(6)	India	2 600	0.88	98.68	0.77
7	(7)	Russia	2 038	0.69	99.36	0.47
8	(8)	Brazil	1 580	0.53	99.90	0.28
9	(10)	Malaysia	310	0.10	100.00	0.01
		Total	296 837	100.00		HHI 5 283

Rhenium

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(1)	Chile	32 303	59.84	59.84	3 581.13
2	(2)	United States	8 870	16.43	76.27	270.01
3	(3)	Poland	4 367	8.09	84.36	65.45
4	(5)	Uzbekistan	3 000	5.56	89.92	30.89
5	(4)	China	2 500	4.63	94.55	21.45

6	(6)	Russia	2 000	3.71	98.26	13.73
7	(7)	Kazakhstan	800	1.48	99.74	2.20
8	(8)	Armenia	140	0.26	100.00	0.07
		Total	53 980	100.00		HHI 3 985

Selenium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	1 400	37.48	37.48	1 405.00
2	(2)	Japan	710	19.01	56.49	361.36
3	(3)	Germany	300	8.03	64.52	64.52
4	(4)	Russia	200	5.35	69.88	28.67
5	(5)	Philippines	200	5.35	75.23	28.67
6	(6)	Belgium	200	5.35	80.59	28.67
7	(7)	Mexico	141	3.78	84.36	14.25
8	(9)	Finland	130	3.48	87.84	12.11
9	(8)	United States	120	3.21	91.06	10.32
10	(12)	Canada	110	2.95	94.00	8.67
11	(11)	Poland	82	2.20	96.20	4.82
12	(14)	Peru	57	1.53	97.72	2.33
13	(10)	Uzbekistan	35	0.94	98.66	0.88
14	(15)	India	20	0.54	99.20	0.29
15	(13)	Sweden	20	0.54	99.73	0.29
16	(16)	Serbia	10	0.27	100.00	0.07
		Total	3 735	100.00		HHI 1 971

Tellurium

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	500	73.42	73.42	5 390.71
2	(2)	Japan	68	9.99	83.41	99.71
3	(3)	Russia	40	5.87	89.28	34.50
4	(4)	Sweden	33	4.85	94.13	23.48
5	(5)	Canada	24	3.52	97.65	12.42
6	(6)	United States	10	1.47	99.12	2.16
7	(7)	Uzbekistan	3	0.44	99.56	0.19
8	(8)	Bulgaria	3	0.44	100.00	0.19
		Total	681	100.00		HHI 5 563

Tin

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	67 365	23.04	23.04	530.96
2	(2)	Indonesia	56 093	19.19	42.23	368.14
3	(3)	Myanmar	40 500	13.85	56.08	191.91
4	(4)	Peru	28 231	9.66	65.74	93.25
5	(6)	Congo, D.R.	27 220	9.31	75.05	86.69
6	(5)	Bolivia	17 613	6.02	81.07	36.30
7	(7)	Brazil	17 019	5.82	86.90	33.89
8	(8)	Australia	9 001	3.08	89.97	9.48
9	(10)	Nigeria	8 340	2.85	92.83	8.14
10	(9)	Vietnam	8 139	2.78	95.61	7.75
11	(12)	Malaysia	3 521	1.20	96.82	1.45
12	(11)	Russia	3 507	1.20	98.02	1.44
13	(13)	Rwanda	3 115	1.07	99.08	1.14
14	(14)	Laos	1 130	0.39	99.47	0.15
15	(15)	Namibia	533	0.18	99.65	0.03
16	(18)	Tanzania	404	0.14	99.79	0.02
17	(16)	Spain	315	0.11	99.90	0.01
18	(17)	Thailand	85	0.03	99.92	0.00
19	(19)	Burundi	80	0.03	99.95	0.00
20	(20)	Portugal	60	0.02	99.97	0.00
21	(22)	Mongolia	46	0.02	99.99	0.00
22	(21)	India	34	0.01	100.00	0.00
		Total	292 351	100.00		HHI 1 371

Zinc

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	4 041 000	31.66	31.66	1 002.62
2	(2)	Peru	1 369 649	10.73	42.40	115.18
3	(3)	Australia	1 243 715	9.75	52.14	94.97
4	(5)	Mexico	876 985	6.87	59.01	47.22
5	(4)	India	839 051	6.57	65.59	43.22
6	(6)	United States	761 000	5.96	71.55	35.56
7	(7)	Bolivia	517 523	4.06	75.61	16.44
8	(8)	Kazakhstan	315 100	2.47	78.08	6.10
9	(9)	Russia	310 000	2.43	80.50	5.90
10	(10)	Sweden	233 958	1.83	82.34	3.36
11	(12)	Iran	228 700	1.79	84.13	3.21
12	(13)	South Africa	224 400	1.76	85.89	3.09
13	(11)	Canada	208 147	1.63	87.52	2.66
14	(15)	Türkiye	184 800	1.45	88.97	2.10
15	(14)	Portugal	182 262	1.43	90.40	2.04
16	(16)	Brazil	155 177	1.22	91.61	1.48
17	(17)	Eritrea	120 529	0.94	92.56	0.89
18	(18)	Ireland	103 264	0.81	93.36	0.65
19	(19)	Spain	82 963	0.65	94.01	0.42
20	(22)	Finland	62 433	0.49	94.50	0.24
21	(21)	Tajikistan	59 055	0.46	94.97	0.21
22	(30)	Nigeria	55 650	0.44	95.40	0.19

23	(23)	Cuba	51 700	0.41	95.81	0.16
24	(28)	Pakistan	42 349	0.33	96.14	0.11
25	(24)	Uzbekistan	42 000	0.33	96.47	0.11
26	(26)	Morocco	40 000	0.31	96.78	0.10
27	(25)	Namibia	38 400	0.30	97.08	0.09
28	(27)	Mongolia	38 300	0.30	97.38	0.09
29	(31)	North Macedonia	29 730	0.23	97.62	0.05
30	(29)	Honduras	28 200	0.22	97.84	0.05
31	(32)	Korea, North	28 000	0.22	98.06	0.05
32	(34)	Saudi Arabia	24 660	0.19	98.25	0.04
33	(33)	Chile	24 092	0.19	98.44	0.04
34	(20)	Burkina Faso	22 880	0.18	98.62	0.03
35	(43)	Congo, Rep.	20 000	0.16	98.77	0.02
36	(36)	Bulgaria	19 330	0.15	98.93	0.02
37	(47)	Laos	18 750	0.15	99.07	0.02
38	(40)	Vietnam	14 420	0.11	99.19	0.01
39	(37)	Congo, D.R.	13 578	0.11	99.29	0.01
40	(38)	Indonesia	11 375	0.09	99.38	0.01
41	(35)	Greece	10 502	0.08	99.46	0.01
42	(45)	Myanmar	10 200	0.08	99.54	0.01
43	(39)	Serbia	9 960	0.08	99.62	0.01
44	(41)	Montenegro	8 070	0.06	99.68	0.00
45	(44)	Bosnia-Herzegovina	7 690	0.06	99.75	0.00
46	(42)	Armenia	7 148	0.06	99.80	0.00
47	(51)	Romania	6 970	0.05	99.86	0.00
48	(48)	Dominican Republic	5 485	0.04	99.90	0.00
49	(50)	Kosovo	4 108	0.03	99.93	0.00
50	(49)	Korea, South	3 960	0.03	99.96	0.00
51	(46)	Argentina	3 893	0.03	99.99	0.00
52	(52)	Algeria	900	0.01	100.00	0.00
53	(53)	Slovakia	65	0.00	100.00	0.00
		Total	12 762 076	100.00		HHI 1 389

6.5.3 Precious Metals

Gold

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(1)	China	372 048	11.20	11.20	125.34
2	(2)	Russia	320 000	9.63	20.83	92.73
3	(3)	Australia	302 642	9.11	29.93	82.94
4	(4)	Canada	205 831	6.19	36.13	38.36
5	(5)	United States	173 000	5.21	41.33	27.10
6	(6)	Mexico	147 674	4.44	45.78	19.75
7	(7)	Kazakhstan	129 779	3.91	49.68	15.25
8	(13)	Ghana	116 179	3.50	53.18	12.22
9	(10)	Uzbekistan	105 540	3.18	56.35	10.09
10	(11)	Peru	96 966	2.92	59.27	8.51
11	(14)	Indonesia	96 800	2.91	62.18	8.49
12	(8)	South Africa	96 400	2.90	65.08	8.42
13	(9)	Guinea	86 236	2.60	67.68	6.73
14	(12)	Brazil	83 300	2.51	70.19	6.28
15	(15)	Mali	72 200	2.17	72.36	4.72

16	(16)	Burkina Faso	58 159	1.75	74.11	3.06
17	(17)	Tanzania	56 943	1.71	75.82	2.94
18	(20)	Bolivia	53 374	1.61	77.43	2.58
19	(18)	Colombia	51 362	1.55	78.97	2.39
20	(21)	Cote d'Ivoire	48 320	1.45	80.43	2.11
21	(23)	Papua New Guinea	42 310	1.27	81.70	1.62
22	(19)	Sudan	41 800	1.26	82.96	1.58
23	(24)	Argentina	41 370	1.24	84.20	1.55
24	(26)	Zimbabwe	37 265	1.12	85.33	1.26
25	(22)	Türkiye	31 020	0.93	86.26	0.87
26	(25)	Chile	30 966	0.93	87.19	0.87
27	(27)	Congo, D.R.	29 498	0.89	88.08	0.79
28	(29)	Philippines	29 007	0.87	88.95	0.76
29	(30)	Kyrgyzstan	27 800	0.84	89.79	0.70
30	(28)	Dominican Republic	22 282	0.67	90.46	0.45
31	(32)	Suriname	19 541	0.59	91.05	0.35
32	(31)	Mongolia	19 383	0.58	91.63	0.34
33	(50)	Mauritania	17 711	0.53	92.16	0.28
34	(34)	Ecuador	17 030	0.51	92.68	0.26
35	(35)	Senegal	15 220	0.46	93.13	0.21
36	(33)	Guyana	15 129	0.46	93.59	0.21
37	(36)	Egypt	13 716	0.41	94.00	0.17
38	(37)	Saudi Arabia	12 268	0.37	94.37	0.14
39	(47)	Liberia	11 718	0.35	94.72	0.12
40	(38)	Nicaragua	11 549	0.35	95.07	0.12
41	(39)	Korea, North	10 000	0.30	95.37	0.09
42	(46)	Laos	9 383	0.28	95.65	0.08
43	(42)	Tajikistan	9 225	0.28	95.93	0.08
44	(44)	Venezuela	9 000	0.27	96.20	0.07
45	(40)	Bulgaria	8 529	0.26	96.46	0.07
46	(43)	Finland	8 390	0.25	96.71	0.06
47	(45)	Sweden	8 054	0.24	96.95	0.06
48	(49)	Iran	7 472	0.22	97.18	0.05
49	(48)	Namibia	7 438	0.22	97.40	0.05
50	(53)	Serbia	7 290	0.22	97.62	0.05
51	(52)	New Zealand	6 674	0.20	97.82	0.04
52	(41)	Ethiopia	5 900	0.18	98.00	0.03
53	(59)	Georgia	4 908	0.15	98.15	0.02
54	(51)	Japan	4 886	0.15	98.30	0.02
55	(54)	Panama	4 347	0.13	98.43	0.02
56	(57)	Armenia	4 230	0.13	98.55	0.02
57	(58)	Togo	3 600	0.11	98.66	0.01
58	(56)	Zambia	3 409	0.10	98.76	0.01
59	(69)	Cambodia	3 320	0.10	98.86	0.01
60	(60)	Azerbaijan	3 271	0.10	98.96	0.01
61	(63)	Eritrea	3 200	0.10	99.06	0.01
62	(64)	Nigeria	3 048	0.09	99.15	0.01
63	(55)	Niger	2 601	0.08	99.23	0.01
64	(66)	Rwanda	2 000	0.06	99.29	0.00
65	(65)	Madagascar	2 000	0.06	99.35	0.00
66	(62)	Honduras	1 911	0.06	99.41	0.00
67	(68)	Malaysia	1 828	0.06	99.46	0.00
68	(61)	Greece	1 752	0.05	99.51	0.00
69	(75)	Central African Republic	1 507	0.05	99.56	0.00
70	(67)	Spain	1 369	0.04	99.60	0.00
71	(70)	India	1 302	0.04	99.64	0.00
72	(78)	Mozambique	1 264	0.04	99.68	0.00
73	(79)	Vietnam	1 114	0.03	99.71	0.00
74	(73)	Gabon	1 063	0.03	99.74	0.00
75	(71)	French Guiana	916	0.03	99.77	0.00
76	(74)	Burundi	914	0.03	99.80	0.00
77	(81)	Costa Rica	790	0.02	99.82	0.00

78	(77)	Poland	769	0.02	99.85	0.00
79	(83)	North Macedonia	600	0.02	99.86	0.00
80	(72)	Fiji	584	0.02	99.88	0.00
81	(86)	Kenya	564	0.02	99.90	0.00
82	(82)	Romania	500	0.02	99.91	0.00
83	(76)	Myanmar	467	0.01	99.93	0.00
84	(80)	Botswana	427	0.01	99.94	0.00
85	(85)	Slovakia	399	0.01	99.95	0.00
86	(91)	United Kingdom	266	0.01	99.96	0.00
87	(93)	Malawi	187	0.01	99.97	0.00
88	(84)	Cameroon	175	0.01	99.97	0.00
89	(90)	Morocco	167	0.01	99.98	0.00
90	(89)	Sierra Leone	150	0.00	99.98	0.00
91	(88)	Congo, Rep.	150	0.00	99.99	0.00
92	(92)	Algeria	138	0.00	99.99	0.00
93	(87)	Korea, South	128	0.00	99.99	0.00
94	(**)	Solomon Islands	121	0.00	100.00	0.00
95	(94)	Angola	79	0.00	100.00	0.00
96	(96)	Germany	14	0.00	100.00	0.00
97	(95)	Uganda	8	0.00	100.00	0.00
98	(97)	Benin	5	0.00	100.00	0.00
99	(**)	Eswatini	4	0.00	100.00	0.00
100	(98)	Taiwan	1	0.00	100.00	0.00
Total			3 323 144	100.00		HHI 494

Palladium

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(2)	Russia	80 870	40.03	40.03	1 602.58
2	(1)	South Africa	78 155	38.69	78.72	1 496.78
3	(3)	Canada	16 099	7.97	86.69	63.51
4	(5)	Zimbabwe	13 935	6.90	93.59	47.58
5	(4)	United States	10 096	5.00	98.59	24.98
6	(6)	China	1 300	0.64	99.23	0.41
7	(7)	Finland	960	0.48	99.70	0.23
8	(8)	Australia	390	0.19	99.90	0.04
9	(10)	Serbia	110	0.05	99.95	0.00
10	(9)	Uzbekistan	93	0.05	100.00	0.00
11	(11)	Poland	4	0.00	100.00	0.00
Total			202 012	100.00		HHI 3 236

Platinum

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	134 750	73.63	73.63	5 420.64
2	(2)	Russia	18 660	10.20	83.82	103.95
3	(3)	Zimbabwe	16 460	8.99	92.81	80.88
4	(4)	Canada	5 490	3.00	95.81	9.00
5	(5)	United States	3 003	1.64	97.45	2.69

6	(6)	China	2 800	1.53	98.98	2.34
7	(7)	Finland	1 243	0.68	99.66	0.46
8	(8)	Colombia	501	0.27	99.94	0.07
9	(9)	Australia	100	0.05	99.99	0.00
10	(10)	Serbia	10	0.01	100.00	0.00
11	(11)	Poland	5	0.00	100.00	0.00
		Total	183 022	100.00		HHI 5 620

Rhodium

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	18 865	82.99	82.99	6 887.74
2	(2)	Russia	1 805	7.94	90.93	63.05
3	(3)	Zimbabwe	1 461	6.43	97.36	41.31
4	(4)	Canada	500	2.20	99.56	4.84
5	(5)	United States	100	0.44	100.00	0.19
		Total	22 731	100.00		HHI 6 997

Silver

Rank 2022	Rank 2021	Country	Production 2022 kg	Share in %	Share cum. %	Share HHI
1	(1)	Mexico	7 067 536	26.59	26.59	706.78
2	(2)	China	3 477 400	13.08	39.67	171.10
3	(3)	Peru	3 084 039	11.60	51.27	134.58
4	(4)	Russia	1 470 000	5.53	56.80	30.58
5	(7)	Poland	1 315 800	4.95	61.75	24.50
6	(5)	Chile	1 274 363	4.79	66.54	22.98
7	(8)	Bolivia	1 214 301	4.57	71.11	20.86
8	(6)	Australia	1 169 252	4.40	75.51	19.34
9	(10)	Kazakhstan	1 013 070	3.81	79.32	14.52
10	(9)	United States	1 010 000	3.80	83.12	14.43
11	(11)	Argentina	882 140	3.32	86.43	11.01
12	(12)	India	713 625	2.68	89.12	7.21
13	(13)	Sweden	422 086	1.59	90.71	2.52
14	(14)	Canada	334 480	1.26	91.96	1.58
15	(15)	Indonesia	298 650	1.12	93.09	1.26
16	(16)	Uzbekistan	217 725	0.82	93.91	0.67
17	(17)	Morocco	200 340	0.75	94.66	0.57
18	(18)	Türkiye	143 260	0.54	95.20	0.29
19	(19)	Papua New Guinea	111 710	0.42	95.62	0.18
20	(24)	Panama	87 498	0.33	95.95	0.11
21	(20)	Portugal	78 412	0.29	96.24	0.09
22	(25)	Brazil	74 650	0.28	96.52	0.08
23	(23)	Mongolia	73 476	0.28	96.80	0.08
24	(22)	Dominican Republic	73 413	0.28	97.08	0.08
25	(21)	Spain	58 235	0.22	97.30	0.05
26	(34)	Philippines	56 227	0.21	97.51	0.04
27	(28)	Korea, North	50 000	0.19	97.70	0.04
28	(27)	Iran	50 000	0.19	97.88	0.04

29	(26)	Eritrea	49 855	0.19	98.07	0.04
30	(33)	South Africa	45 700	0.17	98.24	0.03
31	(36)	Colombia	35 836	0.13	98.38	0.02
32	(29)	Finland	35 182	0.13	98.51	0.02
33	(30)	Greece	32 870	0.12	98.63	0.02
34	(46)	Botswana	31 174	0.12	98.75	0.01
35	(32)	Honduras	30 000	0.11	98.86	0.01
36	(37)	Ecuador	27 210	0.10	98.97	0.01
37	(31)	Bulgaria	26 437	0.10	99.07	0.01
38	(35)	Laos	22 685	0.09	99.15	0.01
39	(43)	Georgia	22 400	0.08	99.24	0.01
40	(38)	Nicaragua	21 697	0.08	99.32	0.01
41	(39)	Armenia	18 920	0.07	99.39	0.01
42	(40)	Romania	18 000	0.07	99.46	0.00
43	(41)	Kyrgyzstan	17 400	0.07	99.52	0.00
44	(42)	North Macedonia	15 260	0.06	99.58	0.00
45	(48)	Tanzania	13 602	0.05	99.63	0.00
46	(49)	Azerbaijan	12 600	0.05	99.68	0.00
47	(45)	Tajikistan	11 000	0.04	99.72	0.00
48	(44)	Serbia	10 900	0.04	99.76	0.00
49	(51)	Saudi Arabia	9 464	0.04	99.80	0.00
50	(50)	Burkina Faso	7 326	0.03	99.82	0.00
51	(47)	Korea, South	7 100	0.03	99.85	0.00
52	(52)	Germany	7 000	0.03	99.88	0.00
53	(53)	Namibia	5 200	0.02	99.90	0.00
54	(56)	New Zealand	3 922	0.01	99.91	0.00
55	(54)	Congo, D.R.	3 400	0.01	99.92	0.00
56	(57)	Mali	3 000	0.01	99.93	0.00
57	(55)	Japan	2 923	0.01	99.95	0.00
58	(59)	Ireland	2 750	0.01	99.96	0.00
59	(61)	Sudan	2 000	0.01	99.96	0.00
60	(58)	Zimbabwe	1 545	0.01	99.97	0.00
61	(66)	Vietnam	1 451	0.01	99.97	0.00
62	(68)	United Kingdom	1 328	0.00	99.98	0.00
63	(60)	Senegal	1 325	0.00	99.98	0.00
64	(63)	Ghana	1 000	0.00	99.99	0.00
65	(64)	Cote d'Ivoire	1 000	0.00	99.99	0.00
66	(62)	Ethiopia	800	0.00	99.99	0.00
67	(67)	Fiji	475	0.00	100.00	0.00
68	(65)	Malaysia	414	0.00	100.00	0.00
69	(69)	Slovakia	354	0.00	100.00	0.00
70	(70)	Niger	100	0.00	100.00	0.00
71	(**)	Solomon Islands	25	0.00	100.00	0.00
72	(71)	Algeria	20	0.00	100.00	0.00
		Total	26 584 338	100.00		HHI 1 186

6.5.4 Industrial Minerals

Asbestos

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Russia	629 000	50.00	50.00	2 499.74
2	(2)	Kazakhstan	250 100	19.88	69.88	395.20

3	(4)	China	196 000	15.58	85.46	242.72
4	(3)	Brazil	182 965	14.54	100.00	211.51
		Total	1 258 065	100.00		HHI 3 349

Baryte

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	India	2 000 000	24.16	24.16	583.68
2	(2)	China	2 000 000	24.16	48.32	583.68
3	(4)	Morocco	1 100 000	13.29	61.61	176.56
4	(3)	Kazakhstan	650 000	7.85	69.46	61.65
5	(5)	Mexico	498 225	6.02	75.48	36.22
6	(7)	United States	361 582	4.37	79.84	19.08
7	(8)	Türkiye	344 322	4.16	84.00	17.30
8	(15)	Laos	302 709	3.66	87.66	13.37
9	(9)	Russia	260 000	3.14	90.80	9.86
10	(6)	Iran	224 626	2.71	93.51	7.36
11	(11)	Pakistan	128 000	1.55	95.06	2.39
12	(10)	Bulgaria	75 000	0.91	95.97	0.82
13	(12)	Canada	50 000	0.60	96.57	0.36
14	(18)	Bolivia	48 952	0.59	97.16	0.35
15	(13)	Algeria	45 000	0.54	97.71	0.30
16	(14)	Vietnam	42 000	0.51	98.21	0.26
17	(24)	Myanmar	32 089	0.39	98.60	0.15
18	(20)	Peru	29 293	0.35	98.95	0.13
19	(17)	United Kingdom	27 000	0.33	99.28	0.11
20	(16)	Germany	24 128	0.29	99.57	0.08
21	(19)	Tunisia	10 000	0.12	99.69	0.01
22	(21)	Thailand	6 509	0.08	99.77	0.01
23	(29)	Brazil	4 931	0.06	99.83	0.00
24	(23)	Egypt	4 000	0.05	99.88	0.00
25	(22)	Korea, North	4 000	0.05	99.93	0.00
26	(26)	Australia	3 922	0.05	99.98	0.00
27	(25)	Colombia	1 034	0.01	99.99	0.00
28	(27)	Ecuador	500	0.01	99.99	0.00
29	(28)	Nigeria	500	0.01	100.00	0.00
30	(30)	Guatemala	20	0.00	100.00	0.00
		Total	8 278 342	100.00		HHI 1 514

Bentonite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	4 580 000	24.57	24.57	603.50
2	(2)	India	3 500 000	18.77	43.34	352.44
3	(3)	China	2 100 000	11.26	54.60	126.88
4	(4)	Türkiye	2 018 993	10.83	65.43	117.28
5	(6)	Iran	1 341 023	7.19	72.63	51.74
6	(5)	Greece	1 106 201	5.93	78.56	35.21
7	(7)	Russia	535 000	2.87	81.43	8.23

8	(33)	Korea, South	341 335	1.83	83.26	3.35
9	(8)	Germany	316 000	1.69	84.96	2.87
10	(9)	Slovakia	302 135	1.62	86.58	2.63
11	(10)	Japan	260 000	1.39	87.97	1.94
12	(11)	Brazil	220 000	1.18	89.15	1.39
13	(14)	Spain	186 363	1.00	90.15	1.00
14	(13)	Azerbaijan	175 875	0.94	91.09	0.89
15	(12)	Czechia	167 000	0.90	91.99	0.80
16	(16)	Argentina	141 718	0.76	92.75	0.58
17	(15)	Morocco	135 000	0.72	93.47	0.52
18	(18)	Mozambique	113 985	0.61	94.08	0.37
19	(19)	South Africa	103 200	0.55	94.64	0.31
20	(34)	Italy	102 264	0.55	95.19	0.30
21	(21)	Cyprus	86 562	0.46	95.65	0.22
22	(22)	Mexico	80 000	0.43	96.08	0.18
23	(24)	Bulgaria	72 000	0.39	96.47	0.15
24	(29)	Romania	61 165	0.33	96.79	0.11
25	(25)	Kazakhstan	60 000	0.32	97.12	0.10
26	(27)	Uzbekistan	60 000	0.32	97.44	0.10
27	(20)	Colombia	58 815	0.32	97.75	0.10
28	(30)	Australia	50 000	0.27	98.02	0.07
29	(17)	Ukraine	50 000	0.27	98.29	0.07
30	(26)	Pakistan	45 000	0.24	98.53	0.06
31	(31)	Hungary	38 501	0.21	98.74	0.04
32	(32)	France	36 000	0.19	98.93	0.04
33	(35)	Algeria	32 000	0.17	99.10	0.03
34	(23)	Bosnia-Herzegovina	28 173	0.15	99.25	0.02
35	(36)	Denmark	24 128	0.13	99.38	0.02
36	(28)	Peru	22 931	0.12	99.51	0.02
37	(43)	Philippines	22 603	0.12	99.63	0.01
38	(37)	Uruguay	21 574	0.12	99.74	0.01
39	(38)	Georgia	16 000	0.09	99.83	0.01
40	(40)	Turkmenistan	10 000	0.05	99.88	0.00
41	(41)	Guatemala	7 400	0.04	99.92	0.00
42	(42)	Egypt	7 000	0.04	99.96	0.00
43	(**)	Bolivia	5 057	0.03	99.99	0.00
44	(49)	Chile	1 372	0.01	99.99	0.00
45	(48)	New Zealand	500	0.00	100.00	0.00
46	(45)	Cuba	498	0.00	100.00	0.00
47	(50)	Slovenia	68	0.00	100.00	0.00
Total			18 643 439	100.00		HHI 1 314

Boron Minerals

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Türkiye	2 590 000	48.45	48.45	2 347.07
2	(2)	United States	1 160 000	21.70	70.14	470.81
3	(3)	Chile	421 935	7.89	78.04	62.29
4	(5)	China	300 000	5.61	83.65	31.49
5	(4)	Bolivia	295 515	5.53	89.18	30.56
6	(6)	Peru	292 986	5.48	94.66	30.03

7	(7)	Argentina	164 120	3.07	97.73	9.42
8	(8)	Russia	88 800	1.66	99.39	2.76
9	(9)	Kazakhstan	30 000	0.56	99.95	0.31
10	(10)	Iran	2 735	0.05	100.00	0.00
		Total	5 346 091	100.00		HHI 2 985

Diamonds (Gem)

Rank 2022	Rank 2021	Country	Production 2022 ct	Share in %	Share cum. %	Share HHI
1	(1)	Russia	25 154 350	31.68	31.68	1 003.49
2	(2)	Canada	17 728 144	22.33	54.00	498.44
3	(3)	Botswana	17 135 300	21.58	75.58	465.66
4	(4)	Angola	7 606 550	9.58	85.16	91.76
5	(5)	South Africa	4 213 000	5.31	90.47	28.15
6	(7)	Namibia	2 078 670	2.62	93.09	6.85
7	(6)	Congo, D.R.	1 948 550	2.45	95.54	6.02
8	(10)	Lesotho	1 275 887	1.61	97.15	2.58
9	(8)	Zimbabwe	968 800	1.22	98.37	1.49
10	(9)	Sierra Leone	447 800	0.56	98.93	0.32
11	(13)	Tanzania	375 715	0.47	99.40	0.22
12	(11)	Guinea	160 000	0.20	99.60	0.04
13	(12)	Central African Republic	90 900	0.11	99.72	0.01
14	(15)	Guyana	83 614	0.11	99.82	0.01
15	(16)	Ghana	61 690	0.08	99.90	0.01
16	(14)	Brazil	45 490	0.06	99.96	0.00
17	(17)	Liberia	26 590	0.03	99.99	0.00
18	(18)	Cote d'Ivoire	3 969	0.00	100.00	0.00
19	(19)	Venezuela	1 665	0.00	100.00	0.00
		Total	79 406 684	100.00		HHI 2 105

Diamonds (Ind)

Rank 2022	Rank 2021	Country	Production 2022 ct	Share in %	Share cum. %	Share HHI
1	(1)	Russia	16 769 560	38.51	38.51	1 483.10
2	(2)	Congo, D.R.	8 307 100	19.08	57.59	363.94
3	(3)	Botswana	7 343 700	16.86	74.45	284.42
4	(4)	South Africa	5 447 000	12.51	86.96	156.47
5	(5)	Zimbabwe	3 875 220	8.90	95.86	79.20
6	(6)	Angola	1 156 760	2.66	98.52	7.06
7	(7)	Sierra Leone	241 200	0.55	99.07	0.31
8	(9)	Namibia	109 405	0.25	99.32	0.06
9	(8)	Brazil	92 350	0.21	99.53	0.04
10	(14)	Tanzania	66 300	0.15	99.69	0.02
11	(10)	Guinea	53 330	0.12	99.81	0.01
12	(11)	Liberia	28 800	0.07	99.88	0.00
13	(12)	Central African Republic	27 150	0.06	99.94	0.00

14	(13)	Ghana	20 560	0.05	99.99	0.00
15	(15)	Congo, Rep.	3 534	0.01	99.99	0.00
16	(16)	Cameroon	2 431	0.01	100.00	0.00
17	(17)	India	388	0.00	100.00	0.00
		Total	43 544 788	100.00		HHI 2 375

Diatomite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	827 000	33.14	33.14	1 098.00
2	(3)	China	270 000	10.82	43.95	117.04
3	(2)	Türkiye	237 267	9.51	53.46	90.38
4	(5)	Argentina	183 361	7.35	60.81	53.98
5	(4)	Russia	180 000	7.21	68.02	52.02
6	(7)	Denmark	143 100	5.73	73.75	32.88
7	(6)	Mexico	107 062	4.29	78.04	18.40
8	(8)	Peru	104 660	4.19	82.24	17.59
9	(11)	Spain	87 095	3.49	85.73	12.18
10	(9)	Mozambique	51 449	2.06	87.79	4.25
11	(10)	Germany	50 321	2.02	89.80	4.07
12	(12)	France	50 000	2.00	91.81	4.01
13	(13)	Korea, South	49 097	1.97	93.78	3.87
14	(16)	Czechia	44 000	1.76	95.54	3.11
15	(18)	Brazil	35 844	1.44	96.97	2.06
16	(15)	Australia	26 000	1.04	98.02	1.09
17	(14)	Chile	24 279	0.97	98.99	0.95
18	(17)	Costa Rica	14 642	0.59	99.58	0.34
19	(20)	Ethiopia	5 000	0.20	99.78	0.04
20	(21)	Algeria	3 000	0.12	99.90	0.01
21	(23)	Kenya	1 401	0.06	99.95	0.00
22	(22)	Poland	1 170	0.05	100.00	0.00
23	(24)	Uganda	21	0.00	100.00	0.00
		Total	2 495 769	100.00		HHI 1 516

Feldspar

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Türkiye	15 781 540	39.93	39.93	1 594.66
2	(2)	India	6 000 000	15.18	55.12	230.50
3	(3)	Iran	3 094 356	7.83	62.95	61.31
4	(4)	China	2 500 000	6.33	69.27	40.02
5	(5)	Italy	2 200 000	5.57	74.84	30.99
6	(6)	Thailand	1 953 918	4.94	79.78	24.44
7	(7)	Korea, South	851 046	2.15	81.94	4.64
8	(12)	Brazil	756 364	1.91	83.85	3.66
9	(8)	Spain	716 535	1.81	85.66	3.29
10	(9)	Saudi Arabia	652 000	1.65	87.31	2.72
11	(16)	United States	540 000	1.37	88.68	1.87
12	(10)	Czechia	493 000	1.25	89.93	1.56

13	(11)	France	450 000	1.14	91.06	1.30
14	(14)	Morocco	430 000	1.09	92.15	1.18
15	(13)	Pakistan	413 000	1.05	93.20	1.09
16	(17)	Indonesia	325 700	0.82	94.02	0.68
17	(15)	Mexico	325 235	0.82	94.85	0.68
18	(18)	Russia	300 000	0.76	95.60	0.58
19	(22)	Malaysia	216 394	0.55	96.15	0.30
20	(19)	Germany	205 330	0.52	96.67	0.27
21	(20)	Egypt	200 000	0.51	97.18	0.26
22	(21)	Algeria	170 000	0.43	97.61	0.19
23	(23)	Portugal	167 673	0.42	98.03	0.18
24	(24)	Colombia	132 322	0.33	98.37	0.11
25	(25)	South Africa	78 800	0.20	98.57	0.04
26	(29)	Finland	63 034	0.16	98.73	0.03
27	(28)	Norway	60 000	0.15	98.88	0.02
28	(27)	Sri Lanka	50 000	0.13	99.00	0.02
29	(30)	Philippines	47 000	0.12	99.12	0.01
30	(32)	Argentina	40 000	0.10	99.22	0.01
31	(38)	North Macedonia	35 815	0.09	99.31	0.01
32	(33)	Austria	35 000	0.09	99.40	0.01
33	(34)	Guatemala	30 000	0.08	99.48	0.01
34	(26)	Ukraine	30 000	0.08	99.56	0.01
35	(35)	Venezuela	30 000	0.08	99.63	0.01
36	(36)	Sweden	25 000	0.06	99.69	0.00
37	(37)	Peru	24 358	0.06	99.76	0.00
38	(42)	Slovakia	22 900	0.06	99.81	0.00
39	(31)	Nigeria	20 000	0.05	99.86	0.00
40	(39)	Romania	20 000	0.05	99.92	0.00
41	(41)	Poland	15 030	0.04	99.95	0.00
42	(43)	Sudan	10 000	0.03	99.98	0.00
43	(40)	Cuba	5 900	0.01	99.99	0.00
44	(45)	Uganda	1 388	0.00	100.00	0.00
45	(46)	Australia	945	0.00	100.00	0.00
46	(44)	Uruguay	300	0.00	100.00	0.00
		Total	39 519 883	100.00		HHI 2 007

Fluorspar

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	5 700 000	61.71	61.71	3 808.40
2	(2)	Mexico	1 856 557	20.10	81.81	404.03
3	(4)	South Africa	410 000	4.44	86.25	19.70
4	(3)	Mongolia	387 740	4.20	90.45	17.62
5	(5)	Vietnam	217 975	2.36	92.81	5.57
6	(7)	Spain	153 415	1.66	94.47	2.76
7	(10)	Germany	104 461	1.13	95.60	1.28
8	(8)	Russia	76 000	0.82	96.42	0.68
9	(9)	Iran	62 005	0.67	97.10	0.45
10	(18)	Thailand	59 243	0.64	97.74	0.41
11	(6)	Morocco	50 000	0.54	98.28	0.29
12	(13)	Brazil	28 969	0.31	98.59	0.10
13	(16)	Afghanistan	27 600	0.30	98.89	0.09
14	(20)	Nigeria	25 900	0.28	99.17	0.08
15	(11)	Canada	20 000	0.22	99.39	0.05
16	(15)	Türkiye	17 252	0.19	99.57	0.03
17	(14)	United Kingdom	10 000	0.11	99.68	0.01

18	(12)	Argentina	10 000	0.11	99.79	0.01
19	(19)	Pakistan	9 200	0.10	99.89	0.01
20	(21)	Korea, North	6 000	0.06	99.96	0.00
21	(17)	Tajikistan	2 000	0.02	99.98	0.00
22	(22)	India	1 100	0.01	99.99	0.00
23	(23)	Egypt	1 000	0.01	100.00	0.00
Total			9 236 417	100.00		HHI 4 262

Graphite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	1 161 000	67.21	67.21	4 516.85
2	(4)	Mozambique	165 932	9.61	76.81	92.26
3	(2)	Madagascar	116 700	6.76	83.57	45.64
4	(5)	India	82 439	4.77	88.34	22.77
5	(3)	Brazil	79 372	4.59	92.94	21.11
6	(7)	Türkiye	27 715	1.60	94.54	2.57
7	(8)	Korea, South	23 798	1.38	95.92	1.90
8	(6)	Korea, North	20 000	1.16	97.07	1.34
9	(9)	Russia	18 800	1.09	98.16	1.18
10	(11)	Canada	13 000	0.75	98.92	0.57
11	(12)	Norway	10 380	0.60	99.52	0.36
12	(14)	Mexico	3 420	0.20	99.71	0.04
13	(13)	Sri Lanka	3 299	0.19	99.91	0.04
14	(10)	Ukraine	846	0.05	99.95	0.00
15	(15)	Vietnam	500	0.03	99.98	0.00
16	(16)	Germany	185	0.01	99.99	0.00
17	(17)	Austria	100	0.01	100.00	0.00
Total			1 727 486	100.00		HHI 4 707

Gypsum and Anhydrite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	25 000 000	14.13	14.13	199.52
2	(2)	United States	22 300 000	12.60	26.72	158.75
3	(4)	Iran	18 406 880	10.40	37.12	108.16
4	(3)	Spain	14 380 727	8.13	45.25	66.02
5	(6)	Türkiye	10 679 212	6.03	51.28	36.41
6	(7)	Thailand	9 847 562	5.56	56.85	30.96
7	(5)	Oman	9 510 100	5.37	62.22	28.87
8	(8)	Mexico	8 283 113	4.68	66.90	21.90
9	(9)	Germany	5 820 000	3.29	70.19	10.81
10	(11)	Australia	4 847 400	2.74	72.93	7.50
11	(10)	Russia	4 630 000	2.62	75.54	6.84
12	(13)	India	4 000 000	2.26	77.80	5.11
13	(12)	Saudi Arabia	3 822 000	2.16	79.96	4.66
14	(14)	Brazil	3 203 474	1.81	81.77	3.28
15	(15)	Canada	3 174 070	1.79	83.57	3.22
16	(17)	Algeria	2 500 000	1.41	84.98	2.00

17	(19)	France	2 410 284	1.36	86.34	1.85
18	(18)	United Kingdom	2 400 000	1.36	87.70	1.84
19	(16)	Pakistan	2 325 000	1.31	89.01	1.73
20	(21)	Laos	1 589 771	0.90	89.91	0.81
21	(24)	Iraq	1 100 000	0.62	90.53	0.39
22	(22)	Poland	1 034 000	0.58	91.12	0.34
23	(20)	Ukraine	1 000 000	0.57	91.68	0.32
24	(23)	Chile	978 846	0.55	92.23	0.31
25	(26)	Tunisia	900 000	0.51	92.74	0.26
26	(25)	Romania	897 176	0.51	93.25	0.26
27	(27)	Austria	876 075	0.49	93.74	0.25
28	(**)	Italy	847 447	0.48	94.22	0.23
29	(28)	Egypt	800 000	0.45	94.67	0.20
30	(29)	Argentina	737 000	0.42	95.09	0.17
31	(30)	Cyprus	688 270	0.39	95.48	0.15
32	(31)	Greece	656 296	0.37	95.85	0.14
33	(32)	Tanzania	604 408	0.34	96.19	0.12
34	(35)	Colombia	480 748	0.27	96.46	0.07
35	(40)	Dominican Republic	415 810	0.23	96.70	0.06
36	(36)	Bhutan	400 183	0.23	96.92	0.05
37	(37)	Jordan	400 000	0.23	97.15	0.05
38	(34)	Azerbaijan	369 908	0.21	97.36	0.04
39	(39)	Switzerland	330 000	0.19	97.55	0.03
40	(33)	Peru	315 292	0.18	97.72	0.03
41	(43)	Croatia	278 581	0.16	97.88	0.02
42	(41)	Moldova	270 200	0.15	98.03	0.02
43	(56)	Angola	266 570	0.15	98.19	0.02
44	(44)	South Africa	265 270	0.15	98.34	0.02
45	(47)	Libya	250 000	0.14	98.48	0.02
46	(48)	Kazakhstan	233 100	0.13	98.61	0.02
47	(49)	Guatemala	206 143	0.12	98.72	0.01
48	(46)	Portugal	191 753	0.11	98.83	0.01
49	(45)	North Macedonia	190 902	0.11	98.94	0.01
50	(77)	Bolivia	168 922	0.10	99.04	0.01
51	(50)	Sudan	150 000	0.08	99.12	0.01
52	(42)	Bosnia-Herzegovina	135 408	0.08	99.20	0.01
53	(52)	Mongolia	111 500	0.06	99.26	0.00
54	(54)	Ethiopia	110 000	0.06	99.32	0.00
55	(53)	Ireland	110 000	0.06	99.38	0.00
56	(60)	Syria	100 000	0.06	99.44	0.00
57	(64)	Myanmar	96 246	0.05	99.50	0.00
58	(55)	Norway	86 317	0.05	99.54	0.00
59	(62)	Jamaica	84 000	0.05	99.59	0.00
60	(57)	Georgia	80 000	0.05	99.64	0.00
61	(51)	Albania	78 239	0.04	99.68	0.00
62	(58)	Bulgaria	77 000	0.04	99.72	0.00
63	(65)	Honduras	75 000	0.04	99.77	0.00
64	(59)	Mauritania	70 000	0.04	99.81	0.00
65	(71)	Armenia	65 940	0.04	99.84	0.00
66	(61)	Slovakia	54 300	0.03	99.87	0.00
67	(69)	Nicaragua	39 865	0.02	99.90	0.00
68	(63)	Cuba	32 600	0.02	99.92	0.00
69	(66)	Kyrgyzstan	32 000	0.02	99.93	0.00
70	(67)	Eritrea	26 000	0.01	99.95	0.00
71	(68)	Yemen	20 000	0.01	99.96	0.00
72	(73)	Nigeria	20 000	0.01	99.97	0.00

73	(70)	Czechia	20 000	0.01	99.98	0.00
74	(72)	Afghanistan	10 991	0.01	99.99	0.00
75	(74)	Tajikistan	10 000	0.01	99.99	0.00
76	(75)	Kenya	6 000	0.00	100.00	0.00
77	(76)	Paraguay	4 500	0.00	100.00	0.00
Total			176 988 399	100.00		HHI 704

Kaolin

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	India	8 400 000	18.62	18.62	346.87
2	(2)	China	7 822 000	17.34	35.97	300.77
3	(3)	Germany	4 594 000	10.19	46.15	103.75
4	(4)	United States	4 340 000	9.62	55.78	92.59
5	(5)	Czechia	3 009 000	6.67	62.45	44.51
6	(7)	Russia	3 000 000	6.65	69.10	44.24
7	(10)	Iran	2 600 110	5.76	74.86	33.23
8	(8)	Türkiye	2 289 367	5.08	79.94	25.77
9	(11)	Brazil	1 189 531	2.64	82.58	6.96
10	(6)	Ukraine	1 000 000	2.22	84.79	4.92
11	(9)	Indonesia	975 300	2.16	86.96	4.68
12	(12)	United Kingdom	715 000	1.59	88.54	2.51
13	(15)	Bulgaria	609 760	1.35	89.89	1.83
14	(13)	Uzbekistan	441 900	0.98	90.87	0.96
15	(16)	Korea, South	426 960	0.95	91.82	0.90
16	(14)	Portugal	410 584	0.91	92.73	0.83
17	(17)	Poland	317 570	0.70	93.43	0.50
18	(21)	Serbia	301 000	0.67	94.10	0.45
19	(19)	France	290 000	0.64	94.74	0.41
20	(20)	Saudi Arabia	279 000	0.62	95.36	0.38
21	(18)	Spain	277 170	0.61	95.98	0.38
22	(23)	Malaysia	236 840	0.53	96.50	0.28
23	(22)	Egypt	230 000	0.51	97.01	0.26
24	(24)	Mexico	227 798	0.51	97.52	0.26
25	(25)	Italy	200 000	0.44	97.96	0.20
26	(26)	Australia	170 181	0.38	98.34	0.14
27	(28)	Algeria	120 000	0.27	98.60	0.07
28	(30)	Vietnam	100 000	0.22	98.83	0.05
29	(27)	Thailand	86 076	0.19	99.02	0.04
30	(33)	New Zealand	55 000	0.12	99.14	0.01
31	(29)	Tanzania	46 973	0.10	99.24	0.01
32	(34)	Chile	44 232	0.10	99.34	0.01
33	(31)	Colombia	40 487	0.09	99.43	0.01
34	(37)	Sri Lanka	30 000	0.07	99.50	0.00
35	(40)	Argentina	26 000	0.06	99.56	0.00
36	(35)	Slovakia	24 610	0.05	99.61	0.00
37	(32)	Bosnia-Herzegovina	24 529	0.05	99.66	0.00
38	(50)	Sudan	20 000	0.04	99.71	0.00
39	(39)	Philippines	18 612	0.04	99.75	0.00
40	(45)	Pakistan	17 000	0.04	99.79	0.00
41	(42)	Kyrgyzstan	15 000	0.03	99.82	0.00
42	(44)	Peru	14 300	0.03	99.85	0.00
43	(43)	Austria	13 500	0.03	99.88	0.00
44	(46)	Japan	12 000	0.03	99.91	0.00
45	(47)	Jordan	11 000	0.02	99.93	0.00
46	(41)	Nigeria	10 000	0.02	99.96	0.00

47	(38)	South Africa	10 000	0.02	99.98	0.00
48	(49)	Paraguay	6 000	0.01	99.99	0.00
49	(53)	Kenya	1 900	0.00	100.00	0.00
50	(52)	Ethiopia	1 000	0.00	100.00	0.00
51	(51)	Cuba	500	0.00	100.00	0.00
52	(54)	Guatemala	300	0.00	100.00	0.00
53	(48)	Uganda	226	0.00	100.00	0.00
Total			45 102 316	100.00		HHI 1 019

Magnesite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	17 000 000	63.68	63.68	4 055.22
2	(2)	Türkiye	1 820 068	6.82	70.50	46.48
3	(3)	Brazil	1 700 000	6.37	76.87	40.55
4	(4)	Russia	1 327 100	4.97	81.84	24.71
5	(5)	Australia	835 000	3.13	84.97	9.78
6	(6)	Austria	771 043	2.89	87.85	8.34
7	(8)	Spain	676 699	2.53	90.39	6.43
8	(7)	Slovakia	592 900	2.22	92.61	4.93
9	(10)	Greece	393 287	1.47	94.08	2.17
10	(9)	United States	357 811	1.34	95.42	1.80
11	(14)	Finland	324 226	1.21	96.64	1.48
12	(13)	Canada	230 000	0.86	97.50	0.74
13	(12)	Iran	210 513	0.79	98.29	0.62
14	(11)	Saudi Arabia	176 049	0.66	98.95	0.43
15	(15)	India	107 525	0.40	99.35	0.16
16	(16)	Korea, North	80 000	0.30	99.65	0.09
17	(17)	Poland	66 380	0.25	99.90	0.06
18	(19)	Guatemala	10 000	0.04	99.94	0.00
19	(20)	South Africa	8 000	0.03	99.97	0.00
20	(18)	Pakistan	5 886	0.02	99.99	0.00
21	(21)	Colombia	2 694	0.01	100.00	0.00
22	(22)	Cuba	548	0.00	100.00	0.00
Total			26 695 729	100.00		HHI 4 204

Perlite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Türkiye	1 319 432	41.74	41.74	1 742.15
2	(2)	Greece	839 108	26.54	68.28	704.61
3	(3)	United States	672 000	21.26	89.54	451.91
4	(6)	Hungary	85 505	2.70	92.25	7.32
5	(4)	Armenia	60 280	1.91	94.15	3.64
6	(7)	Russia	45 000	1.42	95.58	2.03
7	(8)	Slovakia	38 280	1.21	96.79	1.47
8	(11)	Argentina	32 450	1.03	97.81	1.05
9	(9)	Georgia	30 000	0.95	98.76	0.90
10	(12)	Philippines	24 878	0.79	99.55	0.62

11	(5)	Iran	6 709	0.21	99.76	0.05
12	(13)	Australia	4 000	0.13	99.89	0.02
13	(14)	Thailand	2 500	0.08	99.97	0.01
14	(15)	South Africa	1 000	0.03	100.00	0.00
		Total	3 161 142	100.00		HHI 2 916

Phosphate Rock (P₂O₅-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	31 423 500	44.39	44.39	1 970.57
2	(2)	Morocco	9 728 000	13.74	58.13	188.86
3	(4)	Russia	5 597 100	7.91	66.04	62.52
4	(3)	United States	5 564 000	7.86	73.90	61.78
5	(5)	Jordan	3 602 500	5.09	78.99	25.90
6	(6)	Saudi Arabia	2 950 000	4.17	83.16	17.37
7	(7)	Brazil	1 869 300	2.64	85.80	6.97
8	(8)	Peru	1 314 600	1.86	87.65	3.45
9	(9)	Tunisia	1 033 300	1.46	89.11	2.13
10	(10)	Egypt	870 000	1.23	90.34	1.51
11	(12)	Senegal	859 970	1.21	91.56	1.48
12	(11)	Vietnam	754 140	1.07	92.62	1.13
13	(13)	Israel	694 400	0.98	93.60	0.96
14	(14)	South Africa	674 800	0.95	94.56	0.91
15	(15)	Algeria	671 500	0.95	95.51	0.90
16	(16)	Togo	570 460	0.81	96.31	0.65
17	(20)	India	459 100	0.65	96.96	0.42
18	(17)	Kazakhstan	428 040	0.60	97.57	0.37
19	(18)	Syria	400 000	0.57	98.13	0.32
20	(19)	Finland	341 600	0.48	98.61	0.23
21	(21)	Türkiye	289 000	0.41	99.02	0.17
22	(22)	Uzbekistan	160 100	0.23	99.25	0.05
23	(23)	Mexico	132 510	0.19	99.44	0.04
24	(24)	Christmas Island	128 340	0.18	99.62	0.03
25	(25)	Nauru	97 500	0.14	99.75	0.02
26	(26)	Iran	95 430	0.13	99.89	0.02
27	(28)	Pakistan	32 000	0.05	99.93	0.00
28	(27)	Sri Lanka	12 360	0.02	99.95	0.00
29	(30)	Colombia	10 370	0.01	99.97	0.00
30	(29)	Venezuela	10 000	0.01	99.98	0.00
31	(31)	Zimbabwe	6 600	0.01	99.99	0.00
32	(32)	Tanzania	5 850	0.01	100.00	0.00
33	(33)	Chile	940	0.00	100.00	0.00
34	(34)	Cuba	320	0.00	100.00	0.00
35	(35)	Australia	150	0.00	100.00	0.00
		Total	70 787 780	100.00		HHI 2 349

Potash (K₂O-Content)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Canada	15 116 101	36.03	36.03	1 297.96
2	(2)	Russia	6 900 000	16.45	52.47	270.44
3	(4)	China	5 910 000	14.09	66.56	198.41
4	(3)	Belarus	4 000 000	9.53	76.09	90.89
5	(5)	Germany	2 708 650	6.46	82.55	41.68
6	(6)	Israel	2 446 710	5.83	88.38	34.01
7	(7)	Jordan	1 637 240	3.90	92.28	15.23
8	(9)	Laos	920 000	2.19	94.47	4.81
9	(8)	Chile	676 350	1.61	96.09	2.60
10	(10)	United States	430 000	1.02	97.11	1.05
11	(11)	Spain	429 893	1.02	98.13	1.05
12	(12)	Brazil	299 636	0.71	98.85	0.51
13	(13)	Uzbekistan	228 000	0.54	99.39	0.30
14	(14)	United Kingdom	133 420	0.32	99.71	0.10
15	(15)	Iran	50 000	0.12	99.83	0.01
16	(16)	Bolivia	42 600	0.10	99.93	0.01
17	(17)	Turkmenistan	26 500	0.06	99.99	0.00
18	(**)	Australia	2 418	0.01	100.00	0.00
		Total	41 957 518	100.00		HHI 1 959

Salt

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	53 598 800	19.71	19.71	388.63
2	(2)	United States	41 000 000	15.08	34.79	227.40
3	(3)	India	30 000 000	11.03	45.83	121.75
4	(4)	Germany	15 073 463	5.54	51.37	30.74
5	(5)	Canada	14 640 779	5.38	56.76	29.00
6	(6)	Australia	12 126 166	4.46	61.22	19.89
7	(7)	Chile	10 501 352	3.86	65.08	14.92
8	(9)	Türkiye	9 085 711	3.34	68.42	11.17
9	(8)	Russia	8 186 000	3.01	71.43	9.07
10	(10)	Mexico	7 914 780	2.91	74.34	8.47
11	(11)	Brazil	7 000 000	2.57	76.92	6.63
12	(12)	Netherlands	5 893 118	2.17	79.08	4.70
13	(13)	France	5 621 754	2.07	81.15	4.28
14	(14)	Spain	3 987 690	1.47	82.62	2.15
15	(15)	Poland	3 883 000	1.43	84.05	2.04
16	(18)	Iran	3 877 712	1.43	85.47	2.03
17	(17)	Bulgaria	3 300 000	1.21	86.69	1.47
18	(16)	Pakistan	2 896 000	1.07	87.75	1.13
19	(19)	United Kingdom	2 587 790	0.95	88.70	0.91
20	(21)	Saudi Arabia	2 342 000	0.86	89.57	0.74
21	(20)	Belarus	2 000 000	0.74	90.30	0.54
22	(23)	Tunisia	1 900 000	0.70	91.00	0.49
23	(24)	Bangladesh	1 832 000	0.67	91.67	0.45
24	(25)	Thailand	1 737 090	0.64	92.31	0.41
25	(29)	Kazakhstan	1 678 472	0.62	92.93	0.38
26	(27)	Romania	1 461 264	0.54	93.47	0.29

27	(26)	Italy	1 460 833	0.54	94.00	0.29
28	(33)	Bosnia-Herzegovina	1 109 253	0.41	94.41	0.17
29	(31)	Peru	1 093 559	0.40	94.82	0.16
30	(34)	Namibia	1 022 448	0.38	95.19	0.14
31	(30)	Vietnam	987 000	0.36	95.55	0.13
32	(32)	Austria	897 774	0.33	95.88	0.11
33	(36)	Japan	897 000	0.33	96.21	0.11
34	(35)	Indonesia	635 865	0.23	96.45	0.05
35	(41)	Bahamas	633 380	0.23	96.68	0.05
36	(28)	Argentina	600 000	0.22	96.90	0.05
37	(37)	Denmark	600 000	0.22	97.12	0.05
38	(47)	Morocco	600 000	0.22	97.34	0.05
39	(38)	South Africa	531 100	0.20	97.54	0.04
40	(22)	Ukraine	500 000	0.18	97.72	0.03
41	(39)	Switzerland	422 665	0.16	97.88	0.02
42	(42)	Colombia	379 081	0.14	98.02	0.02
43	(46)	Venezuela	350 000	0.13	98.15	0.02
44	(40)	Botswana	323 303	0.12	98.26	0.01
45	(43)	Eritrea	320 000	0.12	98.38	0.01
46	(45)	Ghana	300 000	0.11	98.49	0.01
47	(44)	Senegal	272 041	0.10	98.59	0.01
48	(48)	Korea, South	260 616	0.10	98.69	0.01
49	(49)	Israel	255 000	0.09	98.78	0.01
50	(50)	Egypt	220 000	0.08	98.86	0.01
51	(51)	Greece	220 000	0.08	98.94	0.01
52	(53)	Angola	213 800	0.08	99.02	0.01
53	(56)	Sudan	200 000	0.07	99.10	0.01
54	(52)	Cuba	195 600	0.07	99.17	0.01
55	(57)	Tanzania	181 818	0.07	99.24	0.00
56	(54)	Myanmar	138 413	0.05	99.29	0.00
57	(64)	Portugal	125 853	0.05	99.33	0.00
58	(59)	Madagascar	120 000	0.04	99.38	0.00
59	(68)	Syria	112 000	0.04	99.42	0.00
60	(71)	Sri Lanka	111 000	0.04	99.46	0.00
61	(58)	Croatia	102 671	0.04	99.50	0.00
62	(55)	Ethiopia	100 000	0.04	99.53	0.00
63	(62)	Korea, North	100 000	0.04	99.57	0.00
64	(60)	Algeria	100 000	0.04	99.61	0.00
65	(63)	Turkmenistan	96 480	0.04	99.64	0.00
66	(65)	Taiwan	78 415	0.03	99.67	0.00
67	(66)	Azerbaijan	77 455	0.03	99.70	0.00
68	(61)	Philippines	60 000	0.02	99.72	0.00
69	(70)	Honduras	60 000	0.02	99.74	0.00
70	(72)	Kuwait	60 000	0.02	99.77	0.00
71	(73)	Iraq	60 000	0.02	99.79	0.00
72	(74)	Nicaragua	55 000	0.02	99.81	0.00
73	(82)	Armenia	52 829	0.02	99.83	0.00
74	(75)	Yemen	50 000	0.02	99.85	0.00
75	(87)	Afghanistan	41 573	0.02	99.86	0.00
76	(77)	Libya	40 000	0.01	99.88	0.00
77	(76)	Jordan	40 000	0.01	99.89	0.00
78	(81)	Tajikistan	37 000	0.01	99.90	0.00
79	(69)	Cambodia	35 000	0.01	99.92	0.00
80	(80)	Albania	30 000	0.01	99.93	0.00
81	(79)	El Salvador	30 000	0.01	99.94	0.00
82	(85)	Dominican Republic	27 000	0.01	99.95	0.00
83	(90)	Kenya	23 215	0.01	99.96	0.00
84	(83)	Panama	22 742	0.01	99.97	0.00
85	(84)	Bolivia	15 042	0.01	99.97	0.00
86	(78)	Mozambique	13 482	0.00	99.98	0.00
87	(86)	Norway	13 000	0.00	99.98	0.00
88	(88)	Oman	11 500	0.00	99.99	0.00

89	(89)	Jamaica	10 000	0.00	99.99	0.00
90	(93)	Kyrgyzstan	6 000	0.00	99.99	0.00
91	(92)	Serbia	5 969	0.00	99.99	0.00
92	(94)	Iceland	5 000	0.00	100.00	0.00
93	(95)	Lebanon	3 000	0.00	100.00	0.00
94	(96)	Cape Verde	2 600	0.00	100.00	0.00
95	(98)	Slovenia	2 342	0.00	100.00	0.00
96	(97)	Malta	2 000	0.00	100.00	0.00
97	(100)	Mauritius	674	0.00	100.00	0.00
98	(101)	Benin	500	0.00	100.00	0.00
99	(99)	Mongolia	394	0.00	100.00	0.00
100	(91)	Laos	188	0.00	100.00	0.00
Total			271 885 414	100.00		HHI 891

Sulfur

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	16 970 000	20.50	20.50	420.37
2	(2)	United States	8 640 000	10.44	30.94	108.97
3	(3)	Saudi Arabia	7 000 000	8.46	39.40	71.53
4	(4)	United Arab Emirates	6 105 000	7.38	46.77	54.40
5	(6)	Russia	5 989 439	7.24	54.01	52.36
6	(5)	Canada	4 898 600	5.92	59.93	35.03
7	(7)	Kazakhstan	4 310 200	5.21	65.14	27.12
8	(8)	India	3 725 000	4.50	69.64	20.25
9	(10)	Qatar	3 150 000	3.81	73.44	14.48
10	(9)	Japan	3 120 000	3.77	77.21	14.21
11	(11)	Iran	2 000 000	2.42	79.63	5.84
12	(12)	Korea, South	2 000 000	2.42	82.05	5.84
13	(13)	Chile	1 591 200	1.92	83.97	3.70
14	(15)	Kuwait	1 268 500	1.53	85.50	2.35
15	(14)	Poland	1 046 970	1.26	86.77	1.60
16	(16)	Australia	900 000	1.09	87.85	1.18
17	(21)	Italy	745 200	0.90	88.75	0.81
18	(17)	Finland	696 800	0.84	89.60	0.71
19	(19)	Spain	641 800	0.78	90.37	0.60
20	(18)	Zambia	640 800	0.77	91.14	0.60
21	(20)	Philippines	600 000	0.72	91.87	0.53
22	(23)	Peru	588 300	0.71	92.58	0.51
23	(26)	Brazil	519 600	0.63	93.21	0.39
24	(27)	Bulgaria	515 500	0.62	93.83	0.39
25	(24)	Indonesia	500 000	0.60	94.44	0.36
26	(25)	France	450 000	0.54	94.98	0.30
27	(29)	Sweden	375 000	0.45	95.43	0.21
28	(28)	Germany	370 664	0.45	95.88	0.20
29	(30)	Jordan	321 440	0.39	96.27	0.15
30	(22)	Turkmenistan	320 000	0.39	96.65	0.15
31	(31)	Venezuela	300 000	0.36	97.02	0.13
32	(35)	Mexico	290 121	0.35	97.37	0.12
33	(32)	Cuba	289 200	0.35	97.72	0.12
34	(34)	Greece	250 000	0.30	98.02	0.09
35	(37)	Iraq	180 000	0.22	98.24	0.05
36	(36)	Taiwan	162 571	0.20	98.43	0.04
37	(41)	Namibia	161 120	0.19	98.63	0.04
38	(33)	Ukraine	150 000	0.18	98.81	0.03
39	(38)	Libya	139 500	0.17	98.98	0.03

40	(40)	Türkiye	132 700	0.16	99.14	0.03
41	(39)	Bahrain	128 780	0.16	99.29	0.02
42	(42)	United Kingdom	107 000	0.13	99.42	0.02
43	(44)	Oman	87 160	0.11	99.53	0.01
44	(43)	Norway	81 000	0.10	99.63	0.01
45	(45)	Egypt	80 000	0.10	99.72	0.01
46	(47)	South Africa	74 540	0.09	99.81	0.01
47	(46)	Lithuania	64 497	0.08	99.89	0.01
48	(48)	Colombia	36 000	0.04	99.93	0.00
49	(49)	Pakistan	16 288	0.02	99.95	0.00
50	(50)	Armenia	14 000	0.02	99.97	0.00
51	(51)	Korea, North	10 000	0.01	99.98	0.00
52	(52)	Algeria	6 000	0.01	99.99	0.00
53	(53)	Austria	4 672	0.01	100.00	0.00
54	(54)	Denmark	3 727	0.00	100.00	0.00
		Total	82 768 889	100.00		HHI 846

Talc

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	India	1 630 000	20.90	20.90	436.64
2	(2)	China	1 400 000	17.95	38.84	322.11
3	(3)	Brazil	700 000	8.97	47.82	80.53
4	(4)	United States	511 000	6.55	54.37	42.91
5	(10)	South Africa	449 600	5.76	60.13	33.22
6	(5)	Afghanistan	382 211	4.90	65.03	24.01
7	(7)	France	350 000	4.49	69.52	20.13
8	(6)	Korea, South	322 830	4.14	73.66	17.13
9	(9)	Pakistan	301 000	3.86	77.52	14.89
10	(8)	Finland	241 538	3.10	80.61	9.59
11	(16)	Canada	200 000	2.56	83.18	6.57
12	(13)	Italy	180 000	2.31	85.48	5.32
13	(12)	Saudi Arabia	175 000	2.24	87.73	5.03
14	(15)	Austria	157 047	2.01	89.74	4.05
15	(14)	Japan	140 000	1.79	91.53	3.22
16	(17)	Slovakia	114 600	1.47	93.00	2.16
17	(18)	Australia	111 000	1.42	94.43	2.02
18	(22)	Russia	100 000	1.28	95.71	1.64
19	(19)	Iran	93 535	1.20	96.91	1.44
20	(21)	Peru	49 869	0.64	97.55	0.41
21	(11)	Türkiye	43 196	0.55	98.10	0.31
22	(23)	Mexico	34 630	0.44	98.54	0.20
23	(24)	Thailand	30 369	0.39	98.93	0.15
24	(25)	Korea, North	30 000	0.38	99.32	0.15
25	(26)	Egypt	20 000	0.26	99.57	0.07
26	(20)	Nigeria	10 000	0.13	99.70	0.02
27	(30)	Colombia	5 222	0.07	99.77	0.00
28	(28)	Sudan	4 500	0.06	99.83	0.00
29	(27)	Portugal	4 273	0.05	99.88	0.00
30	(32)	Argentina	2 400	0.03	99.91	0.00
31	(29)	Nepal	2 113	0.03	99.94	0.00

32	(31)	Guatemala	1 450	0.02	99.96	0.00
33	(33)	United Kingdom	1 300	0.02	99.98	0.00
34	(36)	Uruguay	1 162	0.01	99.99	0.00
35	(34)	Bhutan	740	0.01	100.00	0.00
		Total	7 800 585	100.00		HHI 1 034

Vermiculite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	South Africa	183 133	36.42	36.42	1 326.48
2	(2)	United States	100 000	19.89	56.31	395.52
3	(3)	Brazil	70 913	14.10	70.41	198.89
4	(4)	China	40 000	7.96	78.37	63.28
5	(5)	Russia	35 619	7.08	85.45	50.18
6	(6)	Zimbabwe	26 380	5.25	90.70	27.52
7	(7)	Uganda	22 947	4.56	95.26	20.83
8	(8)	Türkiye	21 230	4.22	99.48	17.83
9	(9)	India	2 303	0.46	99.94	0.21
10	(10)	Kenya	300	0.06	100.00	0.00
		Total	502 825	100.00		HHI 2 101

Zircon

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Australia	470 000	33.91	33.91	1 149.95
2	(2)	South Africa	310 000	22.37	56.28	500.27
3	(3)	China	140 000	10.10	66.38	102.03
4	(4)	Mozambique	134 082	9.67	76.05	93.59
5	(6)	Indonesia	97 400	7.03	83.08	49.39
6	(5)	Senegal	84 062	6.07	89.15	36.79
7	(9)	Kenya	29 715	2.14	91.29	4.60
8	(11)	Madagascar	26 821	1.94	93.22	3.74
9	(8)	United States	20 000	1.44	94.67	2.08
10	(7)	Vietnam	16 500	1.19	95.86	1.42
11	(12)	India	16 000	1.15	97.01	1.33
12	(10)	Ukraine	14 100	1.02	98.03	1.03
13	(13)	Russia	7 850	0.57	98.60	0.32
14	(15)	Sierra Leone	7 200	0.52	99.12	0.27
15	(14)	Brazil	6 513	0.47	99.59	0.22
16	(16)	Nigeria	4 705	0.34	99.93	0.12
17	(17)	Malaysia	768	0.06	99.98	0.00
18	(18)	Sri Lanka	268	0.02	100.00	0.00
		Total	1 385 984	100.00		HHI 1 947

6.5.5 Mineral Fuels

Steam Coal

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	3 589 711 000	54.22	54.22	2 939.94
2	(2)	India	832 430 000	12.57	66.79	158.09
3	(3)	Indonesia	680 712 000	10.28	77.08	105.72
4	(4)	United States	439 784 100	6.64	83.72	44.13
5	(6)	Australia	249 292 000	3.77	87.48	14.18
6	(5)	Russia	242 600 000	3.66	91.15	13.43
7	(7)	South Africa	227 554 000	3.44	94.59	11.81
8	(8)	Kazakhstan	104 500 100	1.58	96.16	2.49
9	(9)	Colombia	57 806 700	0.87	97.04	0.76
10	(10)	Vietnam	49 854 700	0.75	97.79	0.57
11	(11)	Poland	40 464 610	0.61	98.40	0.37
12	(13)	Korea, North	16 300 000	0.25	98.65	0.06
13	(14)	Philippines	16 077 914	0.24	98.89	0.06
14	(15)	Canada	12 201 040	0.18	99.08	0.03
15	(16)	Pakistan	9 678 000	0.15	99.22	0.02
16	(17)	Mozambique	8 420 436	0.13	99.35	0.02
17	(12)	Ukraine	4 500 000	0.07	99.42	0.00
18	(20)	Mexico	4 300 000	0.06	99.48	0.00
19	(19)	Brazil	3 473 384	0.05	99.53	0.00
20	(21)	Malaysia	3 405 847	0.05	99.59	0.00
21	(18)	Mongolia	3 291 600	0.05	99.64	0.00
22	(27)	Nigeria	3 043 000	0.05	99.68	0.00
23	(29)	Tanzania	2 511 419	0.04	99.72	0.00
24	(27)	Botswana	2 460 868	0.04	99.76	0.00
25	(23)	Tajikistan	2 394 000	0.04	99.79	0.00
26	(25)	Zimbabwe	2 212 880	0.03	99.83	0.00
27	(32)	Czechia	1 293 831	0.02	99.85	0.00
28	(26)	New Zealand	1 292 541	0.02	99.87	0.00
29	(34)	Laos	1 270 812	0.02	99.88	0.00
30	(28)	Myanmar	1 179 400	0.02	99.90	0.00
31	(35)	Zambia	823 450	0.01	99.91	0.00
32	(30)	Korea, South	820 181	0.01	99.93	0.00
33	(22)	Türkiye	647 117	0.01	99.94	0.00
34	(36)	Kyrgyzstan	538 500	0.01	99.94	0.00
35	(37)	Afghanistan	517 000	0.01	99.95	0.00
36	(31)	Bangladesh	488 676	0.01	99.96	0.00
37	(33)	United Kingdom	457 050	0.01	99.97	0.00
38	(38)	Iran	364 200	0.01	99.97	0.00
39	(39)	Uzbekistan	264 800	0.00	99.98	0.00
40	(47)	Niger	235 328	0.00	99.98	0.00
41	(42)	Eswatini	215 581	0.00	99.98	0.00
42	(41)	Venezuela	196 730	0.00	99.99	0.00
43	(44)	Peru	192 094	0.00	99.99	0.00
44	(40)	Albania	182 080	0.00	99.99	0.00
45	(46)	Bhutan	158 603	0.00	99.99	0.00
46	(43)	Georgia	146 347	0.00	100.00	0.00
47	(45)	Norway	118 000	0.00	100.00	0.00

48	(48)	Malawi	62 166	0.00	100.00	0.00
49	(49)	Argentina	25 300	0.00	100.00	0.00
50	(50)	Chile	14 950	0.00	100.00	0.00
51	(51)	Nepal	6 927	0.00	100.00	0.00
		Total	6 620 491 262	100.00		HHI 3 292

Coking Coal

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	China	554 659 000	53.24	53.24	2 834.09
2	(2)	Australia	168 575 000	16.18	69.42	261.79
3	(3)	Russia	105 000 000	10.08	79.49	101.56
4	(5)	India	60 760 000	5.83	85.33	34.01
5	(4)	United States	55 280 200	5.31	90.63	28.15
6	(6)	Canada	26 461 240	2.54	93.17	6.45
7	(7)	Mongolia	19 496 400	1.87	95.04	3.50
8	(8)	Poland	12 364 750	1.19	96.23	1.41
9	(9)	Kazakhstan	7 627 000	0.73	96.96	0.54
10	(11)	Colombia	6 422 920	0.62	97.58	0.38
11	(13)	Mozambique	6 385 797	0.61	98.19	0.38
12	(12)	Indonesia	6 000 000	0.58	98.77	0.33
13	(10)	Ukraine	2 480 000	0.24	99.00	0.06
14	(14)	South Africa	2 351 000	0.23	99.23	0.05
15	(16)	Zimbabwe	1 972 540	0.19	99.42	0.04
16	(19)	Iran	1 909 050	0.18	99.60	0.03
17	(17)	Mexico	1 300 000	0.12	99.73	0.02
18	(18)	New Zealand	1 068 687	0.10	99.83	0.01
19	(15)	Czechia	816 254	0.08	99.91	0.01
20	(20)	Türkiye	759 996	0.07	99.98	0.01
21	(21)	United Kingdom	193 890	0.02	100.00	0.00
		Total	1 041 883 724	100.00		HHI 3 273

Lignite

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Germany	130 801 111	18.26	18.26	333.37
2	(3)	Russia	89 400 000	12.48	30.74	155.73
3	(2)	Türkiye	80 928 800	11.30	42.03	127.62
4	(4)	Poland	54 621 410	7.62	49.66	58.13
5	(5)	India	44 990 000	6.28	55.94	39.44
6	(6)	United States	43 115 700	6.02	61.96	36.22
7	(7)	Australia	40 296 000	5.62	67.58	31.64
8	(10)	Bulgaria	35 513 000	4.96	72.54	24.57
9	(8)	Serbia	35 129 690	4.90	77.44	24.05
10	(9)	Czechia	33 397 365	4.66	82.11	21.73
11	(11)	Romania	18 200 623	2.54	84.65	6.45
12	(13)	Laos	15 358 322	2.14	86.79	4.60
13	(15)	Greece	14 340 293	2.00	88.79	4.01
14	(14)	Bosnia-Herzegovina	13 736 665	1.92	90.71	3.68

15	(12)	Thailand	13 641 283	1.90	92.61	3.63
16	(16)	Kosovo	8 253 435	1.15	93.77	1.33
17	(17)	Canada	6 427 680	0.90	94.66	0.81
18	(20)	Kazakhstan	5 664 100	0.79	95.45	0.63
19	(22)	North Macedonia	5 592 335	0.78	96.23	0.61
20	(21)	Uzbekistan	5 073 900	0.71	96.94	0.50
21	(19)	Hungary	4 927 434	0.69	97.63	0.47
22	(18)	Mongolia	4 802 000	0.67	98.30	0.45
23	(24)	Kyrgyzstan	3 217 200	0.45	98.75	0.20
24	(23)	Slovenia	2 745 022	0.38	99.13	0.15
25	(25)	Brazil	2 648 783	0.37	99.50	0.14
26	(26)	Montenegro	1 722 535	0.24	99.74	0.06
27	(27)	Slovakia	870 764	0.12	99.86	0.01
28	(28)	Myanmar	698 900	0.10	99.96	0.01
29	(29)	New Zealand	276 248	0.04	100.00	0.00
		Total	716 390 598	100.00		HHI 880

Natural Gas

Rank 2022	Rank 2021	Country	Production 2022 Mio m ³	Share in %	Share cum. %	Share HHI
1	(1)	United States	1 029 410	24.76	24.76	612.81
2	(2)	Russia	666 800	16.04	40.79	257.12
3	(3)	Iran	259 399	6.24	47.03	38.91
4	(4)	China	220 110	5.29	52.32	28.02
5	(5)	Canada	186 121	4.48	56.80	20.03
6	(6)	Qatar	169 754	4.08	60.88	16.66
7	(7)	Australia	163 112	3.92	64.80	15.39
8	(9)	Norway	123 777	2.98	67.78	8.86
9	(8)	Saudi Arabia	122 895	2.96	70.73	8.73
10	(10)	Algeria	101 436	2.44	73.17	5.95
11	(11)	Turkmenistan	82 700	1.99	75.16	3.96
12	(13)	Malaysia	71 850	1.73	76.89	2.99
13	(12)	Egypt	64 488	1.55	78.44	2.40
14	(15)	United Arab Emirates	57 996	1.39	79.84	1.95
15	(14)	Indonesia	57 410	1.38	81.22	1.91
16	(16)	Uzbekistan	51 678	1.24	82.46	1.54
17	(17)	Nigeria	44 300	1.07	83.52	1.13
18	(18)	Argentina	42 350	1.02	84.54	1.04
19	(19)	Oman	41 740	1.00	85.55	1.01
20	(24)	United Kingdom	37 737	0.91	86.45	0.82
21	(20)	Pakistan	37 039	0.89	87.34	0.79
22	(23)	Azerbaijan	34 956	0.84	88.18	0.71
23	(21)	India	33 664	0.81	88.99	0.66
24	(25)	Venezuela	29 178	0.70	89.70	0.49
25	(26)	Mexico	28 630	0.69	90.38	0.47
26	(22)	Thailand	27 368	0.66	91.04	0.43
27	(27)	Kazakhstan	27 011	0.65	91.69	0.42
28	(28)	Trinidad and Tobago	26 735	0.64	92.34	0.41
29	(29)	Brazil	24 098	0.58	92.91	0.34
30	(30)	Bangladesh	23 780	0.57	93.49	0.33
31	(33)	Kuwait	19 300	0.46	93.95	0.22
32	(37)	Israel	18 910	0.45	94.41	0.21
33	(32)	Ukraine	18 500	0.44	94.85	0.20
34	(34)	Myanmar	17 150	0.41	95.26	0.17
35	(31)	Netherlands	16 838	0.40	95.67	0.16
36	(35)	Bahrain	16 600	0.40	96.07	0.16

37	(36)	Bolivia	15 517	0.37	96.44	0.14
38	(40)	Peru	13 705	0.33	96.77	0.11
39	(38)	Libya	12 570	0.30	97.07	0.09
40	(39)	Colombia	11 890	0.29	97.36	0.08
41	(41)	Brunei	10 266	0.25	97.60	0.06
42	(42)	Iraq	9 429	0.23	97.83	0.05
43	(43)	Romania	9 060	0.22	98.05	0.05
44	(45)	Equatorial Guinea	8 105	0.19	98.24	0.04
45	(44)	Vietnam	8 080	0.19	98.44	0.04
46	(52)	Papua New Guinea	5 736	0.14	98.58	0.02
47	(46)	Angola	5 540	0.13	98.71	0.02
48	(47)	Germany	5 281	0.13	98.84	0.02
49	(48)	Poland	4 720	0.11	98.95	0.01
50	(49)	Mozambique	4 519	0.11	99.06	0.01
51	(50)	New Zealand	3 694	0.09	99.15	0.01
52	(53)	Italy	3 316	0.08	99.23	0.01
53	(55)	Ghana	3 300	0.08	99.31	0.01
54	(51)	Philippines	3 217	0.08	99.38	0.01
55	(54)	Syria	2 900	0.07	99.45	0.00
56	(56)	Cote d'Ivoire	2 557	0.06	99.52	0.00
57	(60)	Tanzania	2 239	0.05	99.57	0.00
58	(59)	Cameroon	2 190	0.05	99.62	0.00
59	(57)	Japan	2 148	0.05	99.67	0.00
60	(58)	Tunisia	2 030	0.05	99.72	0.00
61	(61)	Hungary	1 549	0.04	99.76	0.00
62	(64)	Chile	1 355	0.03	99.79	0.00
63	(63)	Denmark	1 349	0.03	99.82	0.00
64	(62)	Ireland	1 290	0.03	99.86	0.00
65	(65)	Congo, Rep.	1 000	0.02	99.88	0.00
66	(66)	Cuba	844	0.02	99.90	0.00
67	(67)	Croatia	745	0.02	99.92	0.00
68	(68)	Austria	607	0.01	99.93	0.00
69	(69)	Gabon	418	0.01	99.94	0.00
70	(70)	Türkiye	408	0.01	99.95	0.00
71	(71)	Serbia	328	0.01	99.96	0.00
72	(72)	Ecuador	243	0.01	99.97	0.00
73	(73)	Belarus	220	0.01	99.97	0.00
74	(74)	Yemen	200	0.00	99.98	0.00
75	(77)	Afghanistan	185	0.00	99.98	0.00
76	(76)	Czechia	165	0.00	99.98	0.00
77	(75)	Jordan	152	0.00	99.99	0.00
78	(78)	Taiwan	96	0.00	99.99	0.00
79	(79)	Morocco	77	0.00	99.99	0.00
80	(80)	Guatemala	72	0.00	99.99	0.00
81	(81)	Slovakia	58	0.00	100.00	0.00
82	(82)	Albania	51	0.00	100.00	0.00
83	(85)	Spain	38	0.00	100.00	0.00
84	(88)	Kyrgyzstan	30	0.00	100.00	0.00
85	(87)	France	20	0.00	100.00	0.00
86	(86)	Bulgaria	17	0.00	100.00	0.00
87	(89)	Georgia	15	0.00	100.00	0.00
88	(90)	Barbados	9	0.00	100.00	0.00
89	(91)	Slovenia	5	0.00	100.00	0.00
90	(84)	South Africa	4	0.00	100.00	0.00
91	(92)	Senegal	4	0.00	100.00	0.00
92	(94)	Tajikistan	1	0.00	100.00	0.00
		Total	4 158 384	100.00		HHI 1 038

Petroleum

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	United States	835 099 700	18.85	18.85	355.38
2	(3)	Saudi Arabia	574 692 000	12.97	31.82	168.30
3	(2)	Russia	535 000 000	12.08	43.90	145.85
4	(4)	Canada	271 233 300	6.12	50.02	37.49
5	(5)	Iraq	221 310 150	5.00	55.02	24.96
6	(6)	China	204 722 400	4.62	59.64	21.36
7	(8)	United Arab Emirates	181 116 570	4.09	63.73	16.72
8	(7)	Iran	176 541 170	3.99	67.72	15.88
9	(9)	Brazil	154 993 700	3.50	71.21	12.24
10	(10)	Kuwait	134 810 500	3.04	74.26	9.26
11	(12)	Mexico	95 765 300	2.16	76.42	4.67
12	(11)	Norway	89 819 000	2.03	78.45	4.11
13	(13)	Kazakhstan	84 235 900	1.90	80.35	3.62
14	(15)	Qatar	71 963 220	1.62	81.97	2.64
15	(14)	Nigeria	68 607 900	1.55	83.52	2.40
16	(17)	Algeria	62 066 000	1.40	84.92	1.96
17	(18)	Angola	56 592 280	1.28	86.20	1.63
18	(19)	Oman	52 982 500	1.20	87.40	1.43
19	(16)	Libya	52 759 520	1.19	88.59	1.42
20	(20)	United Kingdom	38 036 800	0.86	89.45	0.74
21	(21)	Colombia	37 552 230	0.85	90.29	0.72
22	(23)	Venezuela	37 306 030	0.84	91.14	0.71
23	(22)	Azerbaijan	32 646 400	0.74	91.87	0.54
24	(24)	Indonesia	30 489 800	0.69	92.56	0.47
25	(26)	Egypt	29 920 860	0.68	93.24	0.46
26	(25)	India	29 178 680	0.66	93.89	0.43
27	(27)	Argentina	28 997 300	0.65	94.55	0.43
28	(28)	Malaysia	25 023 600	0.56	95.11	0.32
29	(29)	Ecuador	23 944 300	0.54	95.65	0.29
30	(30)	Australia	20 228 210	0.46	96.11	0.21
31	(41)	Guyana	13 832 300	0.31	96.42	0.10
32	(31)	Congo, Rep.	13 161 000	0.30	96.72	0.09
33	(32)	Turkmenistan	10 756 800	0.24	96.96	0.06
34	(33)	Gabon	10 367 900	0.23	97.20	0.05
35	(34)	Bahrain	9 436 020	0.21	97.41	0.05
36	(35)	Vietnam	8 980 000	0.20	97.61	0.04
37	(37)	Ghana	7 393 900	0.17	97.78	0.03
38	(36)	Thailand	7 134 630	0.16	97.94	0.03
39	(38)	South Sudan	6 947 860	0.16	98.10	0.02
40	(42)	Chad	6 160 600	0.14	98.24	0.02
41	(39)	Peru	5 835 100	0.13	98.37	0.02
42	(40)	Equatorial Guinea	5 385 330	0.12	98.49	0.01
43	(43)	Brunei	4 577 160	0.10	98.59	0.01
44	(45)	Syria	4 563 840	0.10	98.70	0.01
45	(44)	Italy	4 497 484	0.10	98.80	0.01
46	(46)	Pakistan	3 833 290	0.09	98.88	0.01
47	(49)	Türkiye	3 583 040	0.08	98.97	0.01
48	(47)	Trinidad and Tobago	3 524 510	0.08	99.05	0.01
49	(48)	Cameroon	3 403 200	0.08	99.12	0.01
50	(52)	Denmark	3 212 000	0.07	99.19	0.01
51	(51)	Yemen	3 180 350	0.07	99.27	0.01
52	(50)	Romania	3 131 000	0.07	99.34	0.00
53	(53)	Sudan	2 532 000	0.06	99.39	0.00
54	(55)	Cuba	2 300 000	0.05	99.45	0.00
55	(56)	Uzbekistan	2 075 026	0.05	99.49	0.00

56	(58)	Bolivia	1 815 610	0.04	99.53	0.00
57	(57)	Tunisia	1 757 000	0.04	99.57	0.00
58	(60)	Germany	1 699 014	0.04	99.61	0.00
59	(59)	Papua New Guinea	1 669 400	0.04	99.65	0.00
60	(61)	Belarus	1 594 000	0.04	99.69	0.00
61	(62)	Cote d'Ivoire	1 268 600	0.03	99.71	0.00
62	(63)	Congo, D.R.	1 149 900	0.03	99.74	0.00
63	(64)	Hungary	1 080 000	0.02	99.76	0.00
64	(70)	Suriname	837 500	0.02	99.78	0.00
65	(69)	Serbia	823 280	0.02	99.80	0.00
66	(67)	Poland	816 540	0.02	99.82	0.00
67	(65)	Niger	778 100	0.02	99.84	0.00
68	(68)	New Zealand	736 140	0.02	99.85	0.00
69	(71)	Albania	657 402	0.01	99.87	0.00
70	(72)	France	595 700	0.01	99.88	0.00
71	(75)	Croatia	548 000	0.01	99.90	0.00
72	(74)	Austria	532 339	0.01	99.91	0.00
73	(54)	Ukraine	527 800	0.01	99.92	0.00
74	(66)	Netherlands	498 100	0.01	99.93	0.00
75	(76)	Philippines	460 000	0.01	99.94	0.00
76	(78)	Japan	378 700	0.01	99.95	0.00
77	(73)	Mongolia	350 000	0.01	99.96	0.00
78	(77)	Bangladesh	349 560	0.01	99.97	0.00
79	(79)	Guatemala	349 200	0.01	99.97	0.00
80	(80)	Myanmar	295 500	0.01	99.98	0.00
81	(81)	Kyrgyzstan	294 900	0.01	99.99	0.00
82	(82)	Israel	187 443	0.00	99.99	0.00
83	(83)	Chile	128 510	0.00	99.99	0.00
84	(84)	Czechia	75 000	0.00	100.00	0.00
85	(86)	Mozambique	45 930	0.00	100.00	0.00
86	(87)	Georgia	36 600	0.00	100.00	0.00
87	(88)	Lithuania	27 040	0.00	100.00	0.00
88	(89)	Tajikistan	24 860	0.00	100.00	0.00
89	(91)	Bulgaria	19 480	0.00	100.00	0.00
90	(90)	Barbados	19 130	0.00	100.00	0.00
91	(93)	Jordan	12 900	0.00	100.00	0.00
92	(92)	South Africa	6 540	0.00	100.00	0.00
93	(96)	Moldova	4 652	0.00	100.00	0.00
94	(94)	Slovakia	3 680	0.00	100.00	0.00
95	(98)	Morocco	2 394	0.00	100.00	0.00
96	(97)	Korea, South	2 320	0.00	100.00	0.00
97	(99)	Taiwan	1 600	0.00	100.00	0.00
98	(95)	Spain	910	0.00	100.00	0.00
99	(100)	Slovenia	127	0.00	100.00	0.00
		Total	4 429 901 061	100.00		HHI 837

Oil Sands (part of Petroleum)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Canada	179 386 500	90.88	90.88	8 259.33
2	(2)	Venezuela	18 000 000	9.12	100.00	83.16
		Total	197 386 500	100.00		HHI 8 342

Oil Shales

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Estonia	13 967 000	95.01	95.01	9 027.04
2	(2)	Germany	415 916	2.83	97.84	8.00
3	(3)	Israel	254 425	1.73	99.57	3.00
4	(4)	Bulgaria	61 000	0.41	99.99	0.17
5	(5)	France	2 000	0.01	100.00	0.00
6	(6)	Austria	100	0.00	100.00	0.00
		Total	14 700 441	100.00		HHI 9 038

Uranium (U₃O₈)

Rank 2022	Rank 2021	Country	Production 2022 metr. t	Share in %	Share cum. %	Share HHI
1	(1)	Kazakhstan	25 031	44.72	44.72	1 999.93
2	(2)	Namibia	6 617	11.82	56.54	139.76
3	(3)	Canada	6 168	11.02	67.56	121.44
4	(4)	Australia	5 377	9.61	77.17	92.29
5	(5)	Uzbekistan	4 198	7.50	84.67	56.25
6	(6)	Russia	2 957	5.28	89.95	27.91
7	(7)	Niger	2 382	4.26	94.21	18.11
8	(8)	China	2 005	3.58	97.79	12.83
9	(9)	India	708	1.26	99.05	1.60
10	(11)	South Africa	170	0.30	99.36	0.09
11	(10)	Ukraine	142	0.25	99.61	0.06
12	(15)	United States	88	0.16	99.77	0.02
13	(12)	Pakistan	53	0.09	99.86	0.01
14	(13)	Brazil	51	0.09	99.96	0.01
15	(14)	Czechia	25	0.04	100.00	0.00
		Total	55 972	100.00		HHI 2 470

6.6 Production of Mineral Raw Materials of individual Countries, by Countries

Afghanistan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	2 000	2 000	2 000	5 300	19 100	855.00	260.38
Fluorspar	(t)	10 000	50 000	10 000	10 000	27 600	176.00	176.00
Gypsum	(t)	36 161	24 682	21 779	16 349	10 991	-69.61	-32.77
Salt	(t)	47 944	41 157	12 015	10 700	41 573	-13.29	288.53
Talc	(t)	356 789	345 052	95 923	441 372	382 211	7.13	-13.40
Steam Coal	(t)	2 444 600	1 604 700	56 620	340 800	517 000	-78.85	51.70
Nat. Gas	(Mio m ³)	153	146	59	153	185	20.92	20.92
Total	(t)	3 019 894	2 184 391	245 537	946 921	1 146 475		

Albania

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	322 100	357 200	212 650	242 200	383 400	19.03	58.30
Nickel	(t)	4 200	2 960	3 760	4 090	1 570	-62.62	-61.61
Copper	(t)	2 515	5 900	3 070	4 430	3 470	37.97	-21.67
Gypsum	(t)	102 016	106 070	111 880	116 295	78 239	-23.31	-32.72
Salt	(t)	31 500	30 000	30 000	30 000	30 000	-4.76	0.00
Steam Coal	(t)	297 530	95 380	151 231	242 425	182 080	-38.80	-24.89
Nat. Gas	(Mio m ³)	82	71	57	57	51	-37.80	-10.53
Petroleum	(t)	910 670	1 005 090	712 427	757 393	657 402	-27.81	-13.20
Total	(t)	1 736 131	1 659 400	1 270 618	1 442 433	1 376 961		

Algeria

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	1 178 800	1 068 600	1 016 200	942 000	1 074 000	-8.89	14.01
Zinc	(t)	500	500	1 000	500	900	80.00	80.00
Gold	(kg)	286	70	58	71	138	-51.75	94.37
Silver	(kg)	30	30	20	12	20	-33.33	66.67
Baryte	(t)	39 426	31 138	32 940	44 662	45 000	14.14	0.76
Bentonite	(t)	36 000	36 700	34 200	31 700	32 000	-11.11	0.95
Diatomite	(t)	2 468	2 437	3 040	3 066	3 000	21.56	-2.15

Abbreviations: see Definitions

Feldspar	(t)	170 000	170 000	170 000	170 000	170 000	0.00	0.00
Gypsum	(t)	2 200 000	2 200 000	2 200 000	2 500 000	2 500 000	13.64	0.00
Kaolin	(t)	100 000	100 000	100 000	120 000	120 000	20.00	0.00
Phosphates	(t)	409 400	455 100	409 900	616 000	671 500	64.02	9.01
Salt	(t)	106 200	100 800	95 100	107 800	100 000	-5.84	-7.24
Sulfur	(t)	6 000	6 000	6 000	6 000	6 000	0.00	0.00
Nat. Gas	(Mio m ³)	97 467	89 983	84 597	105 037	101 436	4.07	-3.43
Petroleum	(t)	65 331 000	64 330 000	57 535 000	58 200 000	62 066 000	-5.00	6.64
Total	(t)	147 553 394	140 487 675	129 280 980	146 771 328	147 937 200		

Angola

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)			0	96 280	5 880	.	-93.89
Manganese	(t)			0	20 700	32 400	.	56.52
Gold	(kg)	0	23	59	32	79	.	146.88
Diam. (Gem)	(ct)	8 490 500	8 209 365	7 118 240	7 597 280	7 606 550	-10.41	0.12
Diam. (Ind)	(ct)	943 390	912 150	790 920	1 124 200	1 156 760	22.62	2.90
Gypsum	(t)	32 000	119 260	165 290	79 680	266 570	733.03	234.55
Salt	(t)	103 439	109 445	164 433	201 699	213 800	106.69	6.00
Nat. Gas	(Mio m ³)	6 490	6 800	7 550	6 080	5 540	-14.64	-8.88
Petroleum	(t)	73 630 500	68 858 490	63 474 320	55 982 210	56 592 280	-23.14	1.09
Total	(t)	78 957 941	74 527 197	69 844 044	61 244 571	61 542 932		

Argentina

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	40 560	0	0	0	0	-100.00	.
Molybdenum	(t)	364	0	0	0	0	-100.00	.
Aluminium	(t)	439 600	438 434	309 804	338 239	400 038	-9.00	18.27
Cadmium	(t)	74	80	46	0	0	-100.00	.
Copper	(t)	17 435	0	0	0	0	-100.00	.
Lead	(t)	28 260	29 768	13 600	17 098	18 599	-34.19	8.78
Lithium	(t)	13 810	13 670	12 620	12 870	14 210	2.90	10.41
Mercury	(t)	50	50	0	0	0	-100.00	.
Zinc	(t)	22 050	14 876	8 300	6 188	3 893	-82.34	-37.09
Gold	(kg)	58 397	53 125	34 936	37 280	41 370	-29.16	10.97
Silver	(kg)	1 023 768	1 070 670	767 087	843 230	882 140	-13.83	4.61
Baryte	(t)	7 225	3 898	0	0	0	-100.00	.
Bentonite	(t)	184 969	120 000	98 000	133 235	141 718	-23.38	6.37
Boron	(t)	71 212	181 818	134 604	188 870	164 120	130.47	-13.10
Diatomite	(t)	72 490	94 610	98 575	156 342	183 361	152.95	17.28
Feldspar	(t)	124 500	10 000	32 000	40 000	40 000	-67.87	0.00
Fluorspar	(t)	7 924	1 500	48 000	48 000	10 000	26.20	-79.17
Gypsum	(t)	897 217	761 013	499 092	690 000	737 000	-17.86	6.81
Kaolin	(t)	17 000	11 853	20 628	25 000	26 000	52.94	4.00

Abbreviations: see Definitions

Perlite	(t)	18 794	1 850	13 176	18 016	32 450	72.66	80.12
Salt	(t)	1 784 020	1 566 600	1 051 445	1 300 000	600 000	-66.37	-53.85
Talc	(t)	13 072	10 000	2 304	1 800	2 400	-81.64	33.33
Steam Coal	(t)	81 993	154 782	24 800	25 300	25 300	-69.14	0.00
Nat. Gas (Mio m ³)		40 930	43 220	39 570	40 940	42 350	3.47	3.44
Petroleum	(t)	24 369 600	25 327 500	24 000 100	25 568 200	28 997 300	18.99	13.41
Total	(t)	60 957 301	63 319 426	58 023 896	61 322 038	65 277 312		

Armenia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Molybdenum	(t)	5 422	7 137	11 909	10 611	10 991	102.71	3.58
Copper	(t)	68 928	91 214	83 291	79 970	71 466	3.68	-10.63
Rhenium	(kg)	280	310	260	170	140	-50.00	-17.65
Zinc	(t)	6 946	7 162	8 684	7 706	7 148	2.91	-7.24
Gold	(kg)	4 967	5 825	5 284	3 714	4 230	-14.84	13.89
Silver	(kg)	16 700	17 922	19 493	19 480	18 920	13.29	-2.87
Gypsum	(t)	20 390	45 890	29 650	16 540	65 940	223.39	298.67
Perlite	(t)	51 222	80 676	104 410	168 242	60 280	17.68	-64.17
Salt	(t)	155 393	56 685	24 401	25 948	52 829	-66.00	103.60
Sulfur	(t)	10 500	10 500	11 500	14 100	14 000	33.33	-0.71
Total	(t)	318 823	299 288	273 869	323 140	282 677		

Australia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	559 701 719	567 345 032	567 788 649	570 160 503	584 413 159	4.42	2.50
Cobalt	(t)	4 878	5 741	5 626	5 232	5 793	18.76	10.72
Manganese	(t)	3 514 320	3 259 200	3 356 030	3 277 460	3 082 850	-12.28	-5.94
Nickel	(t)	160 022	158 751	169 344	150 876	155 007	-3.13	2.74
Tantalum	(t)	40	80	50	70	40	0.00	-42.86
Titanium	(t)	875 250	780 465	830 800	624 100	545 000	-37.73	-12.67
Tungsten	(t)	10	30	100	160	180	1 700.00	12.50
Aluminium	(t)	1 574 240	1 569 591	1 582 947	1 558 529	1 509 646	-4.10	-3.14
Antimony	(t)	2 173	2 032	3 903	3 380	2 292	5.48	-32.19
Bauxite	(t)	95 947 593	107 422 912	103 626 811	103 266 404	100 478 354	4.72	-2.70
Cadmium	(t)	402	204	378	402	328	-18.41	-18.41
Copper	(t)	914 168	925 157	868 019	801 052	826 271	-9.61	3.15
Lead	(t)	446 571	500 985	494 271	485 487	437 825	-1.96	-9.82
Lithium	(t)	115 200	105 700	89 300	113 600	149 800	30.03	31.87
Rare Earths	(t)	18 556	17 660	19 440	21 970	17 660	-4.83	-19.62
Tin	(t)	6 871	7 738	8 118	8 772	9 001	31.00	2.61
Zinc	(t)	1 146 781	1 337 321	1 314 910	1 315 160	1 243 715	8.45	-5.43
Gold	(kg)	309 700	325 572	327 952	307 577	302 642	-2.28	-1.60
Palladium	(kg)	430	390	420	380	390	-9.30	2.63
Platinum	(kg)	110	95	100	90	100	-9.09	11.11
Silver	(kg)	1 254 480	1 325 089	1 337 344	1 329 718	1 169 252	-6.79	-12.07

Abbreviations: see Definitions

Baryte	(t)	6 535	1 982	0	1 127	3 922	-39.98	248.00
Bentonite	(t)	87 330	56 000	42 713	46 658	50 000	-42.75	7.16
Diam. (Gem)	(ct)	280 160	243 090	199 600	0	0	-100.00	.
Diam. (Ind)	(ct)	13 727 890	11 911 450	9 780 400	0	0	-100.00	.
Diatomite	(t)	4	8	2 011	25 935	26 000	649 900.00	0.25
Feldspar	(t)	542	50	1 241	52	945	74.35	1 717.31
Gypsum	(t)	4 070 814	3 676 467	3 422 265	4 186 021	4 847 400	19.08	15.80
Kaolin	(t)	173 738	114 050	154 812	173 187	170 181	-2.05	-1.74
Magnesite	(t)	263 446	413 182	799 203	893 623	835 000	216.95	-6.56
Perlite	(t)	2 285	1 264	2 185	3 821	4 000	75.05	4.68
Phosphates	(t)	195 720	165 750	215 700	170	150	-99.92	-11.76
Potash	(t)				0	2 418	.	.
Salt	(t)	13 493 556	12 173 391	12 212 483	12 574 025	12 126 166	-10.13	-3.56
Sulfur	(t)	900 000	900 000	900 000	900 000	900 000	0.00	0.00
Talc	(t)	130 000	140 000	110 000	90 000	111 000	-14.62	23.33
Zircon	(t)	522 400	468 900	380 000	569 000	470 000	-10.03	-17.40
Steam Coal	(t)	266 282 000	271 388 000	267 504 000	247 481 000	249 292 000	-6.38	0.73
Coking Coal	(t)	183 620 000	189 066 000	183 764 000	171 122 000	168 575 000	-8.19	-1.49
Lignite	(t)	45 956 000	43 315 000	41 513 000	41 622 000	40 296 000	-12.32	-3.19
Nat. Gas (Mio m ³)		130 987	154 485	154 107	156 463	163 112	24.53	4.25
Petroleum	(t)	16 776 470	22 464 160	22 381 790	21 782 900	20 228 210	20.57	-7.14
Uranium	(t)	7 737	7 726	7 273	4 474	5 377	-30.50	20.18
Total	(t)	1 301 708 538	1 351 380 182	1 336 858 639	1 308 441 188	1 321 311 762		

Austria

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	897 132	1 037 470	973 840	1 059 550	1 035 770	15.45	-2.24
Tungsten	(t)	936	892	896	919	910	-2.78	-0.98
Feldspar	(t)	35 000	35 000	35 000	35 000	35 000	0.00	0.00
Graphite	(t)	150	100	100	100	100	-33.33	0.00
Gypsum	(t)	836 862	900 217	901 619	900 374	876 075	4.69	-2.70
Kaolin	(t)	13 500	13 500	13 500	13 500	13 500	0.00	0.00
Magnesite	(t)	808 239	691 909	816 370	844 226	771 043	-4.60	-8.67
Salt	(t)	1 176 807	1 212 158	1 014 554	1 117 586	897 774	-23.71	-19.67
Sulfur	(t)	6 980	6 768	6 564	4 755	4 672	-33.07	-1.75
Talc	(t)	127 866	124 184	123 000	157 493	157 047	22.82	-0.28
Nat. Gas (Mio m ³)		969	891	743	654	607	-37.36	-7.19
Oil Shales	(t)	150	100	100	100	100	-33.33	0.00
Petroleum	(t)	681 842	642 953	609 254	571 428	532 339	-21.93	-6.84
Total	(t)	5 360 664	5 378 051	5 089 197	5 228 231	4 809 930		

Abbreviations: see Definitions

Azerbaijan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	45 390	32 700	28 560	24 900	33 500	-26.20	34.54
Copper	(t)	1 650	2 213	2 591	2 649	2 516	52.48	-5.02
Gold	(kg)	4 239	3 897	3 635	3 427	3 271	-22.84	-4.55
Silver	(kg)	8 943	8 160	7 590	8 988	12 600	40.89	40.19
Bentonite	(t)	212 336	222 519	155 112	174 242	175 875	-17.17	0.94
Gypsum	(t)	270 471	314 224	297 594	417 892	369 908	36.76	-11.48
Salt	(t)	66 699	77 116	76 401	71 495	77 455	16.13	8.34
Nat. Gas	(Mio m ³)	19 207	24 514	26 487	32 578	34 956	82.00	7.30
Petroleum	(t)	38 814 300	37 501 200	34 531 900	34 580 300	32 646 400	-15.89	-5.59
Total	(t)	54 776 459	57 761 184	56 281 770	61 333 890	61 270 470		

Bahamas

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	867 950	663 850	720 030	425 710	633 380	-27.03	48.78
Total	(t)	867 950	663 850	720 030	425 710	633 380		

Bahrain

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	1 011 101	1 365 005	1 548 500	1 561 222	1 600 111	58.25	2.49
Sulfur	(t)	139 370	139 655	124 490	129 350	128 780	-7.60	-0.44
Nat. Gas	(Mio m ³)	15 420	17 120	17 230	17 500	16 600	7.65	-5.14
Petroleum	(t)	9 667 380	9 668 850	9 694 300	9 608 310	9 436 020	-2.39	-1.79
Total	(t)	23 153 851	24 869 510	25 151 290	25 298 882	24 444 911		

Bangladesh

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	1 493 000	1 824 000	1 570 000	1 651 000	1 832 000	22.71	10.96
Steam Coal	(t)	923 276	805 696	811 138	753 973	488 676	-47.07	-35.19
Nat. Gas	(Mio m ³)	27 430	27 230	24 990	25 170	23 780	-13.31	-5.52
Petroleum	(t)	589 650	565 140	522 570	463 590	349 560	-40.72	-24.60
Total	(t)	24 949 926	24 978 836	22 895 708	23 004 563	21 694 236		

Abbreviations: see Definitions

Barbados

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nat. Gas (Mio m ³)		14	14	11	11	9	-35.71	-18.18
Petroleum (t)		30 070	28 560	23 590	20 770	19 130	-36.38	-7.90
Total (t)		41 270	39 760	32 390	29 570	26 330		

Belarus

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Potash (t)		7 346 096	7 348 293	7 562 153	7 750 000	4 000 000	-45.55	-48.39
Salt (t)		2 904 097	2 517 590	1 198 290	2 265 000	2 000 000	-31.13	-11.70
Nat. Gas (Mio m ³)		211	218	219	229	220	4.27	-3.93
Petroleum (t)		1 670 000	1 690 000	1 710 000	1 737 000	1 594 000	-4.55	-8.23
Total (t)		12 088 993	11 730 283	10 645 643	11 935 200	7 770 000		

Belgium

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Arsenic (t)		1 000	1 000	1 000	1 000	1 000	0.00	0.00
Indium (t)		20	20	20	20	19	-5.00	-5.00
Selenium (t)		200	200	200	200	200	0.00	0.00
Total (t)		1 220	1 220	1 220	1 220	1 219		

Benin

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold (kg)		5	5	5	5	5	0.00	0.00
Salt (t)		500	500	500	500	500	0.00	0.00
Total (t)		500	500	500	500	500		

Bhutan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron (t)		24 220	23 590	9 430	16 590	2 230	-90.79	-86.56
Gypsum (t)		461 128	490 596	331 050	403 753	400 183	-13.22	-0.88
Talc (t)		2 042	1 375	972	678	740	-63.76	9.14

Abbreviations: see Definitions

Steam Coal	(t)	186 824	184 785	72 838	111 545	158 603	-15.11	42.19
Total	(t)	674 214	700 346	414 290	532 566	561 756		

Bolivia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	41 560	45 830	15 410	17 010	215 940	419.59	1 169.49
Manganese	(t)	110	3 660	4 710	5 100	420	281.82	-91.76
Tantalum	(t)	18	10	8	1	3	-83.33	200.00
Tungsten	(t)	1 366	1 064	1 347	1 563	1 358	-0.59	-13.12
Antimony	(t)	3 110	2 747	2 629	3 084	3 453	11.03	11.96
Arsenic	(t)	238	126	50	100	35	-85.29	-65.00
Bismuth	(t)	39	0	55	27	3	-92.31	-88.89
Copper	(t)	5 216	4 478	2 822	3 310	3 608	-30.83	9.00
Lead	(t)	112 140	88 002	64 619	92 767	89 761	-19.96	-3.24
Lithium	(t)	10	160	80	410	250	2 400.00	-39.02
Tin	(t)	17 251	17 147	14 709	19 628	17 613	2.10	-10.27
Zinc	(t)	519 630	527 521	358 411	499 257	517 523	-0.41	3.66
Gold	(kg)	31 599	42 000	23 207	45 662	53 374	68.91	16.89
Silver	(kg)	1 191 024	1 153 109	929 909	1 289 456	1 214 301	1.95	-5.83
Baryte	(t)	53 163	39 458	9 611	26 780	48 952	-7.92	82.79
Bentonite	(t)	2	0	0	0	5 057	252 750.00	.
Boron	(t)	216 403	214 269	258 143	312 906	295 515	36.56	-5.56
Gypsum	(t)	1 136	3 905	1 000	1 000	168 922	14 769.89	16 792.20
Potash	(t)	1 700	17 800	4 400	32 600	42 600	2 405.88	30.67
Salt	(t)	5 373	4 494	14 949	21 777	15 042	179.96	-30.93
Nat. Gas	(Mio m ³)	19 341	17 046	16 384	16 967	15 517	-19.77	-8.55
Petroleum	(t)	2 534 273	2 244 260	2 065 070	2 032 870	1 815 610	-28.36	-10.69
Total	(t)	18 986 761	16 852 926	15 926 176	16 645 125	15 656 532		

Bosnia-Herzegovina

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	704 050	739 600	727 980	792 500	771 530	9.58	-2.65
Aluminium	(t)	131 508	67 690	0	90 037	138 969	5.67	54.35
Bauxite	(t)	760 244	1 043 343	619 748	675 269	669 926	-11.88	-0.79
Lead	(t)	7 070	7 470	6 110	6 310	6 730	-4.81	6.66
Zinc	(t)	9 350	9 160	6 610	7 310	7 690	-17.75	5.20
Bentonite	(t)	87 358	94 601	69 183	75 761	28 173	-67.75	-62.81
Gypsum	(t)	122 421	130 788	140 994	297 225	135 408	10.61	-54.44
Kaolin	(t)	303 626	118 005	108 174	62 599	24 529	-91.92	-60.82
Magnesite	(t)	5 950	1 400	652	196	0	-100.00	-100.00
Salt	(t)	1 063 458	1 069 210	947 838	966 358	1 109 253	4.31	14.79
Lignite	(t)	14 378 767	13 376 548	13 365 730	12 802 517	13 736 665	-4.47	7.30
Total	(t)	17 573 802	16 657 815	15 993 019	15 776 082	16 628 873		

Abbreviations: see Definitions

Botswana

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper	(t)	1 462	0	0	11 742	34 201	2 239.33	191.27
Gold	(kg)	1 105	943	851	649	427	-61.36	-34.21
Silver	(kg)			0	10 383	31 174	.	200.24
Diam. (Gem)	(ct)	17 064 600	16 580 900	11 807 600	15 887 200	17 135 300	0.41	7.86
Diam. (Ind)	(ct)	7 313 400	7 106 100	5 060 400	6 808 800	7 343 700	0.41	7.86
Salt	(t)	367 988	383 779	418 379	499 527	323 303	-12.14	-35.28
Steam Coal	(t)	2 482 313	2 110 891	1 923 992	2 021 218	2 460 868	-0.86	21.75
Total	(t)	2 851 768	2 494 675	2 342 375	2 532 502	2 818 408		

Brazil

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	287 617 655	255 339 422	245 889 636	268 066 382	250 993 847	-12.73	-6.37
Chromium	(t)	219 724	199 256	226 762	248 108	218 626	-0.50	-11.88
Cobalt	(t)	4	0	0	0	0	-100.00	.
Manganese	(t)	1 310 825	1 452 034	932 721	597 456	529 664	-59.59	-11.35
Nickel	(t)	65 254	55 761	68 097	75 988	79 370	21.63	4.45
Niobium	(t)	99 554	126 641	85 572	112 755	110 000	10.49	-2.44
Tantalum	(t)	345	340	300	350	350	1.45	0.00
Titanium	(t)	73 090	81 650	61 940	75 100	53 000	-27.49	-29.43
Tungsten	(t)	346	306	262	301	302	-12.72	0.33
Vanadium	(t)	6 562	7 045	7 582	7 212	7 249	10.47	0.51
Aluminium	(t)	659 000	650 200	685 100	771 700	810 900	23.05	5.08
Bauxite	(t)	32 377 000	31 937 900	32 897 800	35 949 600	31 608 694	-2.37	-12.07
Beryllium	(t)	39	9	10	10	10	-74.36	0.00
Cadmium	(t)	300	450	100	50	20	-93.33	-60.00
Copper	(t)	385 762	363 268	353 258	335 923	297 653	-22.84	-11.39
Lead	(t)	7 277	5 715	5 351	6 307	8 304	14.11	31.66
Lithium	(t)	786	2 575	4 065	5 670	7 863	900.38	38.68
Rare Earths	(t)	510	380	450	580	1 580	209.80	172.41
Tin	(t)	17 591	14 867	16 893	15 517	17 019	-3.25	9.68
Zinc	(t)	169 773	163 403	174 332	159 913	155 177	-8.60	-2.96
Gold	(kg)	85 198	89 988	98 922	93 103	83 300	-2.23	-10.53
Silver	(kg)	49 600	50 000	68 430	71 540	74 650	50.50	4.35
Asbestos	(t)	111 439	12 205	77 057	172 256	182 965	64.18	6.22
Baryte	(t)	9 377	9 223	1 849	361	4 931	-47.41	1 265.93
Bentonite	(t)	500 000	403 763	217 055	220 000	220 000	-56.00	0.00
Diam. (Gem)	(ct)	82 810	53 240	41 320	46 670	45 490	-45.07	-2.53
Diam. (Ind)	(ct)	168 130	108 085	83 890	94 760	92 350	-45.07	-2.54
Diatomite	(t)	20 562	17 673	35 574	10 665	35 844	74.32	236.09
Feldspar	(t)	592 284	632 349	450 573	491 042	756 364	27.70	54.03
Fluorspar	(t)	28 195	24 399	24 730	28 158	28 969	2.75	2.88
Graphite	(t)	78 981	81 770	67 020	78 555	79 372	0.50	1.04
Gypsum	(t)	2 666 002	2 842 654	2 851 643	3 260 209	3 203 474	20.16	-1.74
Kaolin	(t)	1 685 255	1 471 610	1 239 591	1 153 884	1 189 531	-29.42	3.09
Magnesite	(t)	1 900 000	1 530 000	1 550 000	1 800 000	1 700 000	-10.53	-5.56
Phosphates	(t)	1 980 300	1 828 500	1 827 900	1 793 000	1 869 300	-5.61	4.26

Abbreviations: see Definitions

Potash	(t)	201 181	248 911	254 837	213 028	299 636	48.94	40.66
Salt	(t)	7 227 300	6 700 500	6 464 300	6 534 300	7 000 000	-3.15	7.13
Sulfur	(t)	450 000	460 000	450 000	435 000	519 600	15.47	19.45
Talc	(t)	660 000	650 000	650 000	660 000	700 000	6.06	6.06
Vermiculite	(t)	56 708	47 581	58 821	70 500	70 913	25.05	0.59
Zircon	(t)	17 844	17 136	10 994	6 482	6 513	-63.50	0.48
Steam Coal	(t)	3 568 760	3 812 975	3 171 509	4 768 003	3 473 384	-2.67	-27.15
Lignite	(t)	1 422 500	1 596 696	2 309 404	1 896 525	2 648 783	86.21	39.67
Nat. Gas (Mio m ³)		26 687	27 358	25 384	25 382	24 098	-9.70	-5.06
Petroleum	(t)	134 122 000	143 933 400	151 759 400	149 154 800	154 993 700	15.56	3.91
Uranium	(t)	0	0	20	34	51	.	50.00
Total	(t)	501 659 820	478 609 107	475 189 875	499 481 489	483 161 516		

Brunei

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nat. Gas (Mio m ³)		12 235	12 504	12 065	11 178	10 266	-16.09	-8.16
Petroleum	(t)	5 553 200	6 040 240	5 479 350	5 308 680	4 577 160	-17.58	-13.78
Total	(t)	15 341 200	16 043 440	15 131 350	14 251 080	12 789 960		

Bulgaria

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Cadmium	(t)	313	315	311	343	315	0.64	-8.16
Copper	(t)	112 850	114 240	107 610	104 020	121 120	7.33	16.44
Lead	(t)	24 200	23 350	20 680	21 420	23 110	-4.50	7.89
Tellurium	(t)	4	3	4	3	3	-25.00	0.00
Zinc	(t)	20 390	19 170	17 520	17 910	19 330	-5.20	7.93
Gold	(kg)	8 995	7 467	9 349	9 695	8 529	-5.18	-12.03
Silver	(kg)	47 016	40 755	39 126	38 661	26 437	-43.77	-31.62
Baryte	(t)	70 000	72 000	41 000	72 000	75 000	7.14	4.17
Bentonite	(t)	45 000	45 000	40 900	72 100	72 000	60.00	-0.14
Gypsum	(t)	88 000	88 000	54 800	77 400	77 000	-12.50	-0.52
Kaolin	(t)	323 000	330 000	276 000	380 000	609 760	88.78	60.46
Salt	(t)	3 400 000	3 400 000	2 700 000	3 300 000	3 300 000	-2.94	0.00
Sulfur	(t)	474 100	423 600	497 000	434 500	515 500	8.73	18.64
Lignite	(t)	31 813 678	29 462 615	22 519 300	28 410 900	35 513 000	11.63	25.00
Nat. Gas (Mio m ³)		31	35	55	31	17	-45.16	-45.16
Oil Shales	(t)	0	39 000	44 000	56 000	61 000	.	8.93
Petroleum	(t)	20 600	20 000	20 500	20 086	19 480	-5.44	-3.02
Total	(t)	36 416 991	34 065 341	26 383 673	32 991 531	40 420 253		

Abbreviations: see Definitions

Burkina Faso

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Zinc	(t)	99 162	106 680	78 990	84 170	22 880	-76.93	-72.82
Gold	(kg)	52 622	50 559	62 405	67 126	58 159	10.52	-13.36
Silver	(kg)	6 160	5 670	10 012	8 897	7 326	18.93	-17.66
Total	(t)	99 221	106 737	79 062	84 246	22 945		

Burundi

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Niobium	(t)	5	5	4	10	3	-40.00	-70.00
Tantalum	(t)	8	8	6	15	5	-37.50	-66.67
Tungsten	(t)	108	150	166	120	100	-7.41	-16.67
Rare Earths	(t)	631	195	296	134	0	-100.00	-100.00
Tin	(t)	122	143	121	95	80	-34.43	-15.79
Gold	(kg)	598	573	863	986	914	52.84	-7.30
Total	(t)	875	502	594	375	189		

Cambodia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)			0	1 466	3 320	.	126.47
Salt	(t)	30 000	18 430	83 969	68 682	35 000	16.67	-49.04
Total	(t)	30 000	18 430	83 969	68 683	35 003		

Cameroon

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	65 900	68 950	61 650	47 300	62 770	-4.75	32.71
Gold	(kg)	448	341	233	440	175	-60.94	-60.23
Diam. (Ind)	(ct)	1 805	1 737	2 438	2 668	2 431	34.68	-8.88
Nat. Gas	(Mio m ³)	1 460	2 010	2 130	2 090	2 190	50.00	4.78
Petroleum	(t)	3 428 100	3 545 900	3 622 200	3 493 100	3 403 200	-0.73	-2.57
Total	(t)	4 662 000	5 222 850	5 387 850	5 212 400	5 217 970		

Abbreviations: see Definitions

Canada

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	32 180 800	34 457 800	36 995 000	35 542 900	42 073 900	30.74	18.37
Cobalt	(t)	5 608	5 039	4 069	3 953	3 063	-45.38	-22.51
Molybdenum	(t)	5 048	4 385	3 979	1 871	1 146	-77.30	-38.75
Nickel	(t)	177 867	176 021	168 214	159 145	143 266	-19.45	-9.98
Niobium	(t)	7 700	6 800	6 400	7 650	6 800	-11.69	-11.11
Titanium	(t)	620 000	550 000	480 000	440 000	540 000	-12.90	22.73
Aluminium	(t)	2 924 389	2 853 771	3 118 710	3 136 704	3 033 966	3.75	-3.28
Antimony	(t)	5	2	2	2	2	-60.00	0.00
Bismuth	(t)	5	4	4	0	0	-100.00	.
Cadmium	(t)	1 857	1 803	1 800	1 800	1 800	-3.07	0.00
Copper	(t)	548 011	557 242	581 713	509 350	510 782	-6.79	0.28
Indium	(t)	58	61	61	44	39	-32.76	-11.36
Lead	(t)	17 874	22 608	3 770	9 339	8 247	-53.86	-11.69
Lithium	(t)	8 750	1 200	0	0	0	-100.00	.
Selenium	(t)	85	102	102	57	110	29.41	92.98
Tellurium	(t)	25	13	23	25	24	-4.00	-4.00
Zinc	(t)	304 964	269 353	246 995	230 187	208 147	-31.75	-9.57
Gold	(kg)	194 155	190 889	177 884	196 128	205 831	6.01	4.95
Palladium	(kg)	20 880	21 928	10 897	15 433	16 099	-22.90	4.32
Platinum	(kg)	7 460	9 633	5 524	4 484	5 490	-26.41	22.44
Rhodium	(kg)	750	750	400	450	500	-33.33	11.11
Silver	(kg)	403 589	398 773	306 913	319 119	334 480	-17.12	4.81
Baryte	(t)	50 000	40 000	40 000	50 000	50 000	0.00	0.00
Diam. (Gem)	(ct)	22 789 001	18 573 661	14 208 812	16 865 216	17 728 144	-22.21	5.12
Fluorspar	(t)	20 000	80 000	50 000	50 000	20 000	0.00	-60.00
Graphite	(t)	11 000	4 332	16 239	9 743	13 000	18.18	33.43
Gypsum	(t)	3 240 451	2 444 963	3 049 824	2 896 360	3 174 070	-2.05	9.59
Magnesite	(t)	150 000	150 000	160 000	180 000	230 000	53.33	27.78
Potash	(t)	14 023 931	12 820 345	13 722 423	14 275 819	15 116 101	7.79	5.89
Salt	(t)	10 713 206	11 896 659	13 282 003	13 188 229	14 640 779	36.66	11.01
Sulfur	(t)	5 333 000	4 808 913	4 904 051	4 879 000	4 898 600	-8.15	0.40
Talc	(t)	279 000	243 000	153 293	153 000	200 000	-28.32	30.72
Steam Coal	(t)	17 929 000	15 078 380	13 291 550	12 358 380	12 201 040	-31.95	-1.27
Coking Coal	(t)	29 666 000	29 952 270	25 315 420	26 937 110	26 461 240	-10.80	-1.77
Lignite	(t)	9 900 000	8 134 855	7 538 920	8 314 510	6 427 680	-35.07	-22.69
Nat. Gas (Mio m ³)		177 794	170 747	166 936	173 423	186 121	4.68	7.32
Oil Sands*	(t)	156 864 600	158 766 200	153 043 300	167 022 400	179 386 500	14.36	7.40
Petroleum	(t)	258 786 900	265 045 900	253 195 200	266 190 400	271 233 300	4.81	1.89
Uranium	(t)	8 225	8 230	4 260	5 622	6 168	-25.01	9.71
Total	(t)	529 149 591	526 212 278	509 883 330	528 270 137	550 100 636		

*Oil Sands as part of Petroleum

Cape Verde

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	1 000	1 000	2 585	2 621	2 600	160.00	-0.80
Total	(t)	1 000	1 000	2 585	2 621	2 600		

Abbreviations: see Definitions

Central African Republic

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	142	359	401	840	1 507	961.27	79.40
Diam. (Gem)	(ct)	10 860	22 040	49 470	74 220	90 900	737.02	22.47
Diam. (Ind)	(ct)	2 710	5 510	12 370	18 550	27 150	901.85	46.36
Total	(t)	0	0	0	1	2		

Chad

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Petroleum	(t)	5 750 600	6 316 700	6 303 000	5 799 300	6 160 600	7.13	6.23
Total	(t)	5 750 600	6 316 700	6 303 000	5 799 300	6 160 600		

Chile

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	8 942 638	8 427 224	9 890 886	11 163 294	11 059 801	23.67	-0.93
Molybdenum	(t)	60 705	54 759	59 381	49 427	45 627	-24.84	-7.69
Copper	(t)	5 831 600	5 787 400	5 733 100	5 624 900	5 330 400	-8.59	-5.24
Lead	(t)	712	7	1 386	382	457	-35.81	19.63
Lithium	(t)	38 850	44 940	49 730	65 060	110 350	184.04	69.61
Mercury	(t)	3	0	0	0	0	-100.00	.
Rhenium	(kg)	26 052	24 003	14 549	18 831	32 303	23.99	71.54
Zinc	(t)	26 810	5 620	28 662	27 915	24 092	-10.14	-13.70
Gold	(kg)	37 066	38 455	33 895	34 248	30 966	-16.46	-9.58
Silver	(kg)	1 370 237	1 309 321	1 575 794	1 383 041	1 274 363	-7.00	-7.86
Bentonite	(t)	525	395	170	170	1 372	161.33	707.06
Boron	(t)	398 411	352 255	288 103	363 032	421 935	5.90	16.23
Diatomite	(t)	24 736	21 328	21 477	27 096	24 279	-1.85	-10.40
Feldspar	(t)	2 789	55	329	0	0	-100.00	.
Gypsum	(t)	909 191	977 397	910 310	1 007 206	978 846	7.66	-2.82
Kaolin	(t)	88 262	34 801	38 789	49 533	44 232	-49.89	-10.70
Perlite	(t)	5 020	4 700	0	0	0	-100.00	.
Phosphates	(t)	1 160	950	590	620	940	-18.97	51.61
Potash	(t)	991 180	683 540	966 680	891 450	676 350	-31.76	-24.13
Salt	(t)	10 012 105	10 476 823	9 574 159	8 565 307	10 501 352	4.89	22.60
Sulfur	(t)	1 734 200	1 518 700	1 735 100	1 662 200	1 591 200	-8.25	-4.27
Steam Coal	(t)	2 294 677	1 606 554	191 562	18 541	14 950	-99.35	-19.37
Nat. Gas	(Mio m ³)	1 221	1 339	1 316	1 275	1 355	10.97	6.27
Petroleum	(t)	160 330	161 520	102 640	109 980	128 510	-19.85	16.85
Total	(t)	32 502 137	31 231 539	30 647 479	30 647 549	32 040 030		

Abbreviations: see Definitions

China

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	209 243 800	219 375 000	225 400 000	215 700 000	212 900 000	1.75	-1.30
Chromium	(t)	16 330	27 250	54 440	67 620	65 050	298.35	-3.80
Cobalt	(t)	3 100	3 000	2 200	2 000	1 750	-43.55	-12.50
Manganese	(t)	1 180 000	1 350 000	1 218 000	900 000	819 000	-30.59	-9.00
Molybdenum	(t)	98 420	104 670	95 970	102 600	107 550	9.28	4.82
Nickel	(t)	98 963	104 674	105 048	104 600	109 400	10.55	4.59
Niobium	(t)	20	20	30	30	40	100.00	33.33
Tantalum	(t)	100	135	180	180	92	-8.00	-48.89
Titanium	(t)	1 932 000	2 306 900	2 911 800	2 856 650	3 144 000	62.73	10.06
Tungsten	(t)	68 000	74 950	71 450	68 660	65 620	-3.50	-4.43
Vanadium	(t)	53 200	64 700	69 960	74 100	78 100	46.80	5.40
Aluminium	(t)	36 831 000	35 361 600	37 080 400	38 503 200	40 144 300	9.00	4.26
Antimony	(t)	70 396	68 422	60 995	41 480	39 000	-44.60	-5.98
Arsenic	(t)	24 000	24 000	24 000	24 000	24 000	0.00	0.00
Bauxite	(t)	70 751 000	73 323 700	70 000 000	68 400 000	74 300 000	5.02	8.63
Beryllium	(t)	1 250	1 750	1 750	1 750	1 850	48.00	5.71
Bismuth	(t)	7 000	7 000	7 500	8 000	7 500	7.14	-6.25
Cadmium	(t)	10 349	10 000	10 000	10 000	8 700	-15.93	-13.00
Copper	(t)	1 618 480	1 683 450	1 942 000	1 964 400	1 925 600	18.98	-1.98
Gallium	(t)	305	356	290	420	606	98.69	44.29
Germanium	(t)	95	85	86	132	130	36.84	-1.52
Indium	(t)	395	490	528	540	667	68.86	23.52
Lead	(t)	2 033 000	2 097 000	1 969 000	1 964 400	1 945 900	-4.28	-0.94
Lithium	(t)	15 300	19 000	28 800	30 500	57 900	278.43	89.84
Mercury	(t)	2 303	2 046	1 993	1 400	637	-72.34	-54.50
Rare Earths	(t)	120 000	132 000	140 000	168 000	210 000	75.00	25.00
Rhenium	(kg)	2 500	2 500	2 500	2 500	2 500	0.00	0.00
Selenium	(t)	930	1 250	1 120	1 400	1 400	50.54	0.00
Tellurium	(t)	480	380	260	530	500	4.17	-5.66
Tin	(t)	87 070	85 584	94 460	83 144	67 365	-22.63	-18.98
Zinc	(t)	3 721 000	4 213 000	4 058 000	4 136 000	4 041 000	8.60	-2.30
Gold	(kg)	401 119	380 230	365 340	328 980	372 048	-7.25	13.09
Palladium	(kg)	1 300	1 300	1 300	1 300	1 300	0.00	0.00
Platinum	(kg)	2 500	2 500	2 500	2 500	2 800	12.00	12.00
Silver	(kg)	3 440 000	3 468 000	3 405 800	3 511 600	3 477 400	1.09	-0.97
Asbestos	(t)	170 000	125 000	120 000	130 000	196 000	15.29	50.77
Baryte	(t)	2 900 000	2 900 000	2 500 000	2 200 000	2 000 000	-31.03	-9.09
Bentonite	(t)	5 600 000	5 600 000	3 650 000	2 500 000	2 100 000	-62.50	-16.00
Boron	(t)	80 000	250 000	250 000	250 000	300 000	275.00	20.00
Diam. (Gem)	(ct)	99	51	21	0	0	-100.00	.
Diatomite	(t)	280 000	420 000	362 000	200 000	270 000	-3.57	35.00
Feldspar	(t)	2 500 000	2 450 000	2 450 000	2 450 000	2 500 000	0.00	2.04
Fluorspar	(t)	3 500 000	4 000 000	4 300 000	5 400 000	5 700 000	62.86	5.56
Graphite	(t)	1 164 000	1 185 000	1 090 000	1 189 000	1 161 000	-0.26	-2.35
Gypsum	(t)	25 000 000	25 000 000	25 000 000	25 000 000	25 000 000	0.00	0.00
Kaolin	(t)	6 650 000	6 400 000	6 500 000	7 240 000	7 822 000	17.62	8.04
Magnesite	(t)	19 000 000	19 000 000	19 000 000	18 000 000	17 000 000	-10.53	-5.56
Phosphates	(t)	28 897 800	27 997 200	26 679 960	30 869 700	31 423 500	8.74	1.79
Potash	(t)	5 452 000	5 902 000	5 530 000	5 814 600	5 910 000	8.40	1.64
Salt	(t)	63 636 100	67 014 400	58 526 800	57 065 100	53 598 800	-15.77	-6.07
Sulfur	(t)	13 762 700	14 450 000	15 340 000	15 730 000	16 970 000	23.30	7.88
Talc	(t)	2 000 000	1 800 000	1 300 000	1 400 000	1 400 000	-30.00	0.00
Vermiculite	(t)	50 000	50 000	50 000	40 000	40 000	-20.00	0.00
Zircon	(t)	150 000	140 000	140 000	140 000	140 000	-6.67	0.00

Abbreviations: see Definitions

Steam Coal	(t)	2 850 962 000	2 970 445 000	2 999 940 000	3 248 607 000	3 589 711 000	25.91	10.50
Coking Coal	(t)	530 440 000	538 634 000	561 254 300	547 540 900	554 659 000	4.57	1.30
Nat. Gas	(Mio m ³)	160 159	175 362	192 495	207 584	220 110	37.43	6.03
Petroleum	(t)	189 324 200	191 628 300	194 768 600	198 881 100	204 722 400	8.13	2.94
Uranium	(t)	2 223	2 223	2 223	1 887	2 005	-9.81	6.25
Total	(t)	4 207 640 357	4 366 128 990	4 428 103 921	4 671 936 071	5 038 785 218		

Christmas Island

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Phosphates	(t)	111 780	89 010	120 750	120 290	128 340	14.81	6.69
Total	(t)	111 780	89 010	120 750	120 290	128 340		

Colombia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	353 950	300 240	354 200	337 540	223 870	-36.75	-33.68
Manganese	(t)	80	160	10	140	160	100.00	14.29
Nickel	(t)	43 056	40 571	36 094	38 301	41 816	-2.88	9.18
Bauxite	(t)	13 666	18 033	9 595	49 946	41 479	203.52	-16.95
Copper	(t)	9 918	7 641	9 372	9 194	6 918	-30.25	-24.76
Tin	(t)	0	31	233	0	0	.	.
Gold	(kg)	35 965	38 006	48 561	55 321	51 362	42.81	-7.16
Platinum	(kg)	270	178	414	618	501	85.56	-18.93
Silver	(kg)	16 691	14 479	19 948	26 698	35 836	114.70	34.23
Baryte	(t)	3 211	2 270	2 046	1 164	1 034	-67.80	-11.17
Bentonite	(t)	166 778	145 643	185 418	88 339	58 815	-64.73	-33.42
Feldspar	(t)	141 794	180 235	134 847	99 755	132 322	-6.68	32.65
Fluorspar	(t)	46	0	0	0	0	-100.00	.
Graphite	(t)	0	135	0	0	0	.	.
Gypsum	(t)	396 373	294 137	323 157	408 681	480 748	21.29	17.63
Kaolin	(t)	70 799	96 051	29 372	71 699	40 487	-42.81	-43.53
Magnesite	(t)	1 039	1 847	1 077	3 116	2 694	159.29	-13.54
Phosphates	(t)	13 240	20 480	14 470	12 960	10 370	-21.68	-19.98
Salt	(t)	423 316	376 309	409 976	370 318	379 081	-10.45	2.37
Sulfur	(t)	155 641	100 203	69 638	35 930	36 000	-76.87	0.19
Talc	(t)	2 522	1 708	717	3 170	5 222	107.06	64.73
Steam Coal	(t)	81 319 300	81 542 200	51 078 400	55 964 300	57 806 700	-28.91	3.29
Coking Coal	(t)	6 120 860	6 137 610	5 051 690	6 218 230	6 422 920	4.93	3.29
Nat. Gas	(Mio m ³)	11 590	11 800	11 770	12 110	11 890	2.59	-1.82
Petroleum	(t)	43 088 900	44 101 940	38 993 490	36 660 230	37 552 230	-12.85	2.43
Total	(t)	141 596 542	142 807 496	106 119 871	110 061 096	112 754 954		

Abbreviations: see Definitions

Congo, D.R.

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Cobalt	(t)	111 713	78 664	86 591	93 011	115 371	3.27	24.04
Manganese	(t)	5 360	1 780	1 000	1 000	5 380	0.37	438.00
Niobium	(t)	607	433	565	475	520	-14.33	9.47
Tantalum	(t)	644	460	600	505	550	-14.60	8.91
Tungsten	(t)	160	260	116	114	147	-8.13	28.95
Copper	(t)	1 239 059	1 461 124	1 712 964	1 924 374	2 515 847	103.04	30.74
Tin	(t)	8 950	10 990	14 670	15 750	27 220	204.13	72.83
Zinc	(t)	1 047	1 607	15 305	16 079	13 578	1 196.85	-15.55
Gold	(kg)	36 777	33 752	29 597	31 421	29 498	-19.79	-6.12
Silver	(kg)	3 400	3 400	3 400	3 400	3 400	0.00	0.00
Diam. (Gem)	(ct)	1 815 745	2 020 450	2 588 850	2 594 650	1 948 550	7.31	-24.90
Diam. (Ind)	(ct)	13 315 465	11 449 240	10 355 400	10 378 700	8 307 100	-37.61	-19.96
Petroleum	(t)	1 144 760	1 113 260	1 191 660	1 170 000	1 149 900	0.45	-1.72
Total	(t)	2 512 343	2 668 617	3 023 507	3 221 345	3 828 547		

Congo, Rep.

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	10 800	20 200	3 400	20 200	20 200	87.04	0.00
Copper	(t)	18 018	18 760	10 300	10 845	7 877	-56.28	-27.37
Zinc	(t)	460	4 830	1 100	7 500	20 000	4 247.83	166.67
Gold	(kg)	150	150	150	150	150	0.00	0.00
Diam. (Ind)	(ct)	46 768	2 963	11 157	4 125	3 534	-92.44	-14.33
Nat. Gas	(Mio m ³)	867	622	809	1 000	1 000	15.34	0.00
Petroleum	(t)	16 740 500	16 749 800	15 280 150	13 446 000	13 161 000	-21.38	-2.12
Total	(t)	17 463 378	17 291 190	15 942 150	14 284 545	14 009 077		

Costa Rica

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	3 699	4 500	600	647	790	-78.64	22.10
Diatomite	(t)	3 972	4 000	4 000	16 462	14 642	268.63	-11.06
Total	(t)	3 976	4 005	4 001	16 463	14 643		

Abbreviations: see Definitions

Cote d'Ivoire

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	319 200	472 700	530 200	384 500	371 900	16.51	-3.28
Nickel	(t)	12 300	9 900	20 220	26 460	27 610	124.47	4.35
Bauxite	(t)		0	272 295	0	0	.	.
Gold	(kg)	24 488	32 568	38 523	41 855	48 320	97.32	15.45
Silver	(kg)	510	300	956	1 000	1 000	96.08	0.00
Diam. (Gem)	(ct)	4 540	3 989	4 012	4 121	3 969	-12.58	-3.69
Diam. (Ind)	(ct)	1 140	0	0	0	0	-100.00	.
Nat. Gas	(Mio m ³)	1 935	2 171	2 229	2 373	2 557	32.14	7.75
Petroleum	(t)	1 607 400	1 799 700	1 451 600	1 196 700	1 268 600	-21.08	6.01
Total	(t)	3 486 925	4 019 133	4 057 555	3 506 103	3 713 759		

Croatia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bauxite	(t)	11 776	14 342	14 084	14 448	17 749	50.72	22.85
Gypsum	(t)	211 894	199 255	221 629	285 966	278 581	31.47	-2.58
Salt	(t)	16 453	93 870	111 901	111 319	102 671	524.03	-7.77
Nat. Gas	(Mio m ³)	1 230	1 029	849	746	745	-39.43	-0.13
Petroleum	(t)	706 900	677 200	593 700	565 700	548 000	-22.48	-3.13
Total	(t)	1 931 023	1 807 867	1 620 514	1 574 233	1 543 001		

Cuba

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	10 500	27 000	14 000	8 500	4 000	-61.90	-52.94
Cobalt	(t)	5 000	3 800	3 900	3 800	3 600	-28.00	-5.26
Nickel	(t)	49 000	45 000	46 000	44 000	43 000	-12.24	-2.27
Lead	(t)	25 380	36 000	30 000	30 000	33 000	30.02	10.00
Zinc	(t)	42 250	57 830	57 730	44 500	51 700	22.37	16.18
Bentonite	(t)	630	504	486	517	498	-20.95	-3.68
Feldspar	(t)	3 000	2 100	14 100	17 800	5 900	96.67	-66.85
Gypsum	(t)	99 900	66 330	62 300	53 200	32 600	-67.37	-38.72
Kaolin	(t)	2 700	2 100	2 032	1 375	500	-81.48	-63.64
Magnesite	(t)	0	1 532	3 910	3 000	548	.	-81.73
Phosphates	(t)	0	0	460	410	320	.	-21.95
Salt	(t)	192 700	210 370	226 000	204 600	195 600	1.50	-4.40
Sulfur	(t)	309 000	317 000	311 200	278 900	289 200	-6.41	3.69

Abbreviations: see Definitions

Nat. Gas (Mio m ³)		970	951	895	863	844	-12.99	-2.20
Petroleum (t)		2 462 500	2 371 450	2 320 200	2 433 300	2 300 000	-6.60	-5.48
Total (t)		3 978 560	3 901 816	3 808 318	3 814 302	3 635 666		

Cyprus

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper (t)		908	703	0	0	0	-100.00	.
Gold (kg)		47	33	61	0	0	-100.00	.
Silver (kg)		180	97	486	0	0	-100.00	.
Bentonite (t)		98 800	83 113	92 645	81 655	86 562	-12.39	6.01
Gypsum (t)		625 721	623 545	646 340	661 175	688 270	10.00	4.10
Total (t)		725 429	707 361	738 985	742 830	774 832		

Czechia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bentonite (t)		277 000	357 000	226 000	198 000	167 000	-39.71	-15.66
Diatomite (t)		31 000	43 000	46 000	18 000	44 000	41.94	144.44
Feldspar (t)		449 000	460 000	419 000	504 000	493 000	9.80	-2.18
Gypsum (t)		8 000	10 000	17 000	17 000	20 000	150.00	17.65
Kaolin (t)		3 622 000	3 446 000	3 069 000	3 454 000	3 009 000	-16.92	-12.88
Steam Coal (t)		1 993 850	1 335 497	841 188	739 460	1 293 831	-35.11	74.97
Coking Coal (t)		2 626 361	2 309 833	1 296 137	1 734 896	816 254	-68.92	-52.95
Lignite (t)		39 187 000	37 465 000	29 505 000	29 278 000	33 397 365	-14.77	14.07
Nat. Gas (Mio m ³)		179	146	173	153	165	-7.82	7.84
Petroleum (t)		109 000	81 000	91 000	83 000	75 000	-31.19	-9.64
Uranium (t)		40	39	34	32	25	-37.50	-21.88
Total (t)		48 446 451	45 624 169	35 648 759	36 148 788	39 447 475		

Denmark

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bentonite (t)		56 173	48 197	40 054	20 281	24 128	-57.05	18.97
Diatomite (t)		99 400	108 800	115 000	120 600	143 100	43.96	18.66
Salt (t)		600 000	600 000	600 000	600 000	600 000	0.00	0.00
Sulfur (t)		4 194	3 554	4 140	4 090	3 727	-11.13	-8.88
Nat. Gas (Mio m ³)		4 148	3 138	1 425	1 352	1 349	-67.48	-0.22
Petroleum (t)		5 665 787	5 017 234	3 556 000	3 277 800	3 212 000	-43.31	-2.01
Total (t)		9 743 954	8 288 185	5 455 194	5 104 371	5 062 155		

Abbreviations: see Definitions

Dominican Republic

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nickel	(t)	19 214	28 450	22 005	27 819	29 223	52.09	5.05
Bauxite	(t)	6 525	7 551	9 475	71 517	104 158	1 496.29	45.64
Copper	(t)	8 588	6 047	2 193	4 774	5 360	-37.59	12.27
Zinc	(t)	4 038	5 527	2 361	4 896	5 485	35.83	12.03
Gold	(kg)	31 633	31 801	28 154	25 437	22 282	-29.56	-12.40
Silver	(kg)	166 510	108 685	87 889	79 688	73 413	-55.91	-7.87
Feldspar	(t)	1 200	1 000	0	0	0	-100.00	.
Gypsum	(t)	190 660	316 630	304 920	329 630	415 810	118.09	26.14
Salt	(t)	23 860	26 000	24 000	20 000	27 000	13.16	35.00
Total	(t)	254 284	391 346	365 070	458 741	587 131		

Ecuador

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper	(t)	42 200	9 900	49 700	89 170	115 100	172.75	29.08
Gold	(kg)	8 213	6 293	9 086	15 026	17 030	107.35	13.34
Silver	(kg)	192	2 892	9 457	23 698	27 210	14 071.88	14.82
Baryte	(t)	2 868	2 000	2 000	1 000	500	-82.57	-50.00
Feldspar	(t)	43 197	45 000	0	0	0	-100.00	.
Nat. Gas	(Mio m ³)	353	318	268	269	243	-31.16	-9.67
Petroleum	(t)	25 754 000	26 442 000	23 932 000	23 543 000	23 944 300	-7.03	1.70
Total	(t)	26 124 673	26 753 309	24 198 118	23 848 409	24 254 344		

Egypt

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	250 700	48 200	1 900	5 800	6 000	-97.61	3.45
Manganese	(t)	13 200	7 900	5 300	8 000	5 000	-62.12	-37.50
Aluminium	(t)	267 100	290 000	268 000	270 000	250 000	-6.40	-7.41
Gold	(kg)	14 694	14 946	14 069	12 919	13 716	-6.66	6.17
Baryte	(t)	4 000	4 000	4 000	4 000	4 000	0.00	0.00
Bentonite	(t)	10 000	7 000	7 000	7 000	7 000	-30.00	0.00
Feldspar	(t)	230 000	230 000	200 000	200 000	200 000	-13.04	0.00
Fluorspar	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Gypsum	(t)	727 370	800 000	800 000	800 000	800 000	9.99	0.00
Kaolin	(t)	230 000	230 000	230 000	230 000	230 000	0.00	0.00
Phosphates	(t)	870 870	979 620	885 100	898 400	870 000	-0.10	-3.16
Salt	(t)	522 000	493 000	357 000	218 000	220 000	-57.85	0.92
Sulfur	(t)	80 000	80 000	80 000	80 000	80 000	0.00	0.00
Talc	(t)	25 000	22 000	20 000	15 000	20 000	-20.00	33.33

Abbreviations: see Definitions

Nat. Gas (Mio m ³)		58 560	64 940	58 465	67 799	64 488	10.12	-4.88
Petroleum (t)		32 844 000	31 812 000	31 066 370	29 601 360	29 920 860	-8.90	1.08
Total (t)		82 923 255	86 956 735	80 697 684	86 577 773	84 204 274		

El Salvador

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt (t)		30 000	30 000	30 000	30 000	30 000	0.00	0.00
Total (t)		30 000	30 000	30 000	30 000	30 000		

Equatorial Guinea

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nat. Gas (Mio m ³)		7 750	6 235	6 023	7 047	8 105	4.58	15.01
Petroleum (t)		7 826 120	7 172 620	7 154 290	5 919 365	5 385 330	-31.19	-9.02
Total (t)		14 026 120	12 160 620	11 972 690	11 556 965	11 869 330		

Eritrea

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper (t)		17 300	16 008	21 725	20 224	17 098	-1.17	-15.46
Zinc (t)		125 000	121 260	121 930	129 641	120 529	-3.58	-7.03
Gold (kg)		3 768	2 443	3 019	2 140	3 200	-15.07	49.53
Silver (kg)		31 000	44 836	65 284	68 624	49 855	60.82	-27.35
Gypsum (t)		18 000	18 000	18 000	26 000	26 000	44.44	0.00
Kaolin (t)		200	0	0	0	0	-100.00	.
Salt (t)		310 000	310 000	320 000	320 000	320 000	3.23	0.00
Total (t)		470 535	465 315	481 723	495 936	483 680		

Estonia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Oil Shales (t)		21 883 000	15 697 400	12 144 400	11 743 000	13 967 000	-36.17	18.94
Total (t)		21 883 000	15 697 400	12 144 400	11 743 000	13 967 000		

Eswatini

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	4	6	1	0	4	0.00	.
Steam Coal	(t)	144 375	109 926	161 768	162 681	215 581	49.32	32.52
Total	(t)	144 375	109 926	161 768	162 681	215 581		

Ethiopia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	8 000	500	200	700	400	-95.00	-42.86
Niobium	(t)	28	14	11	18	25	-10.71	38.89
Tantalum	(t)	104	50	41	64	90	-13.46	40.63
Gold	(kg)	3 495	2 800	7 500	9 600	5 900	68.81	-38.54
Silver	(kg)	1 000	800	1 000	1 000	800	-20.00	-20.00
Diatomite	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
Gypsum	(t)	253 165	56 313	107 070	110 000	110 000	-56.55	0.00
Kaolin	(t)	10 000	1 000	1 000	1 000	1 000	-90.00	0.00
Salt	(t)	122 850	125 000	125 000	125 000	100 000	-18.60	-20.00
Total	(t)	399 151	187 881	238 331	241 793	216 522		

Fiji

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	0	35 900	35 200	49 400	28 800	.	-41.70
Bauxite	(t)	57 960	0	0	0	0	-100.00	.
Gold	(kg)	1 281	1 106	1 090	1 107	584	-54.41	-47.24
Silver	(kg)	413	692	479	622	475	15.01	-23.63
Total	(t)	57 961	35 902	35 201	49 402	28 801		

Finland

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	466 750	491 930	470 620	472 890	391 410	-16.14	-17.23
Cobalt	(t)	1 377	1 454	1 559	1 084	1 235	-10.31	13.93
Nickel	(t)	43 572	38 530	41 429	42 163	44 921	3.10	6.54
Copper	(t)	46 755	32 861	36 278	32 384	27 637	-40.89	-14.66
Lead	(t)	0	937	1 532	1 494	1 535	.	2.74
Selenium	(t)	109	115	84	100	130	19.27	30.00
Zinc	(t)	85 067	69 800	61 213	59 080	62 433	-26.61	5.68

Abbreviations: see Definitions

Gold	(kg)	8 732	7 927	8 668	9 082	8 390	-3.92	-7.62
Palladium	(kg)	1 157	699	858	1 036	960	-17.03	-7.34
Platinum	(kg)	1 576	953	1 277	1 447	1 243	-21.13	-14.10
Silver	(kg)	12 849	40 461	54 833	45 338	35 182	173.81	-22.40
Feldspar	(t)	17 469	17 997	16 137	52 706	63 034	260.83	19.60
Magnesite	(t)	49 601	37 002	136 167	179 781	324 226	553.67	80.34
Phosphates	(t)	356 070	363 020	363 200	363 720	341 600	-4.06	-6.08
Sulfur	(t)	888 300	811 600	794 900	737 600	696 800	-21.56	-5.53
Talc	(t)	374 398	329 891	278 331	296 833	241 538	-35.49	-18.63
Total	(t)	2 329 493	2 195 187	2 201 516	2 239 891	2 196 544		

France

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	390 000	401 850	417 000	430 000	380 000	-2.56	-11.63
Bauxite	(t)	138 800	120 760	123 496	142 764	118 000	-14.99	-17.35
Indium	(t)	43	38	40	38	19	-55.81	-50.00
Bentonite	(t)	35 696	36 000	36 000	36 000	36 000	0.85	0.00
Diatomite	(t)	90 000	90 000	90 000	50 000	50 000	-44.44	0.00
Feldspar	(t)	550 000	500 000	500 000	500 000	450 000	-18.18	-10.00
Gypsum	(t)	5 314 983	3 259 935	1 891 190	2 108 258	2 410 284	-54.65	14.33
Kaolin	(t)	301 842	392 389	231 579	289 057	290 000	-3.92	0.33
Salt	(t)	4 689 054	5 160 260	5 200 596	5 543 448	5 621 754	19.89	1.41
Sulfur	(t)	500 000	500 000	450 000	450 000	450 000	-10.00	0.00
Talc	(t)	450 000	400 000	400 000	350 000	350 000	-22.22	0.00
Nat. Gas	(Mio m ³)	9	16	17	22	20	122.22	-9.09
Oil Shales	(t)	2 000	2 000	2 000	2 000	2 000	0.00	0.00
Petroleum	(t)	774 100	719 800	644 700	647 830	595 700	-23.05	-8.05
Total	(t)	13 243 718	11 595 832	10 000 201	10 566 995	10 769 757		

French Guiana

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	1 320	1 157	1 058	1 225	916	-30.61	-25.22
Total	(t)	1	1	1	1	1		

Gabon

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	2 874 600	3 158 100	3 709 100	4 228 900	4 529 000	57.55	7.10
Gold	(kg)	83	107	55	1 106	1 063	1 180.72	-3.89

Abbreviations: see Definitions

Nat. Gas (Mio m ³)		511	464	502	454	418	-18.20	-7.93
Petroleum (t)		9 646 000	10 848 000	10 766 000	10 038 600	10 367 900	7.48	3.28
Total (t)		12 929 400	14 377 300	14 876 700	14 630 701	15 231 301		

Georgia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese (t)		210 500	170 600	202 400	226 500	160 000	-23.99	-29.36
Copper (t)		9 100	9 500	8 000	8 130	6 400	-29.67	-21.28
Gold (kg)		2 913	4 052	5 401	3 513	4 908	68.49	39.71
Silver (kg)		20 042	4 100	11 200	12 700	22 400	11.77	76.38
Bentonite (t)		25 498	27 872	12 750	16 315	16 000	-37.25	-1.93
Gypsum (t)		91 700	137 831	87 655	79 515	80 000	-12.76	0.61
Perlite (t)		22 577	21 000	31 736	31 572	30 000	32.88	-4.98
Steam Coal (t)		137 900	15 300	99 300	147 900	146 347	6.13	-1.05
Nat. Gas (Mio m ³)		10	10	9	16	15	50.00	-6.25
Petroleum (t)		30 200	35 100	31 300	35 500	36 600	21.19	3.10
Total (t)		535 498	425 211	480 357	558 249	487 374		

Germany

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron (t)		82 900	94 100	95 500	87 500	86 000	3.74	-1.71
Aluminium (t)		528 900	507 934	529 056	509 193	341 212	-35.49	-32.99
Cadmium (t)		520	620	500	450	300	-42.31	-33.33
Copper (t)		51	40	37	60	67	31.37	11.67
Selenium (t)		300	300	300	300	300	0.00	0.00
Gold (kg)		9	15	10	12	14	55.56	16.67
Silver (kg)		5 000	4 000	4 000	6 000	7 000	40.00	16.67
Baryte (t)		37 897	30 474	26 656	27 921	24 128	-36.33	-13.58
Bentonite (t)		379 000	366 000	333 000	363 000	316 000	-16.62	-12.95
Diatomite (t)		58 340	53 802	51 511	58 519	50 321	-13.75	-14.01
Feldspar (t)		252 693	235 289	221 527	223 007	205 330	-18.74	-7.93
Fluorspar (t)		49 197	79 959	64 933	56 632	104 461	112.33	84.46
Graphite (t)		222	207	108	181	185	-16.67	2.21
Gypsum (t)		4 550 000	4 850 000	5 200 000	6 260 000	5 820 000	27.91	-7.03
Kaolin (t)		4 930 000	4 760 000	4 969 000	5 291 000	4 594 000	-6.82	-13.17
Potash (t)		2 754 085	2 615 284	2 874 026	2 793 326	2 708 650	-1.65	-3.03
Salt (t)		16 229 929	16 627 893	14 226 154	17 668 366	15 073 463	-7.13	-14.69
Sulfur (t)		419 597	460 012	353 293	382 049	370 664	-11.66	-2.98

Abbreviations: see Definitions

Steam Coal	(t)	1 212 700	0	0	0	0	-100.00	.
Coking Coal	(t)	1 370 800	0	0	0	0	-100.00	.
Lignite	(t)	166 258 000	131 314 000	107 377 260	126 256 594	130 801 111	-21.33	3.60
Nat. Gas	(Mio m ³)	6 888	6 699	5 692	5 731	5 281	-23.33	-7.85
Oil Shales	(t)	494 650	487 012	471 404	442 886	415 916	-15.92	-6.09
Petroleum	(t)	2 066 643	1 923 232	1 895 942	1 805 932	1 699 014	-17.79	-5.92
Uranium	(t)	0	28	8	0	0	.	.
Total	(t)	207 186 829	169 765 390	143 243 819	166 811 722	166 835 929		

Ghana

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	1 320 000	1 507 200	660 100	934 200	919 800	-30.32	-1.54
Aluminium	(t)	42 867	43 908	37 566	39 239	55 592	29.68	41.68
Bauxite	(t)	1 011 302	1 116 334	1 162 086	839 465	773 213	-23.54	-7.89
Gold	(kg)	149 057	142 371	125 114	87 721	116 179	-22.06	32.44
Silver	(kg)	4 000	4 000	3 000	1 000	1 000	-75.00	0.00
Diam. (Gem)	(ct)	46 025	27 030	20 230	43 340	61 690	34.04	42.34
Diam. (Ind)	(ct)	11 505	6 760	5 060	10 835	20 560	78.70	89.76
Salt	(t)	330 000	300 000	330 000	300 000	300 000	-9.09	0.00
Nat. Gas	(Mio m ³)	910	1 550	2 660	3 020	3 300	262.64	9.27
Petroleum	(t)	8 876 500	10 205 700	9 561 000	7 864 300	7 393 900	-16.70	-5.98
Total	(t)	12 308 822	14 413 288	13 878 880	12 393 293	12 082 622		

Greece

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	16 650	12 080	790	0	0	-100.00	.
Nickel	(t)	19 980	17 240	9 270	4 770	1 700	-91.49	-64.36
Aluminium	(t)	187 465	186 903	181 708	169 775	171 450	-8.54	0.99
Bauxite	(t)	1 559 359	1 379 123	1 428 631	1 227 487	1 173 319	-24.76	-4.41
Lead	(t)	15 345	14 818	19 717	16 773	10 100	-34.18	-39.78
Zinc	(t)	21 515	22 322	28 090	22 621	10 502	-51.19	-53.57
Gold	(kg)	2 839	2 333	2 177	3 315	1 752	-38.29	-47.15
Silver	(kg)	39 150	37 790	51 111	44 086	32 870	-16.04	-25.44
Bentonite	(t)	1 365 374	1 393 958	979 329	1 253 789	1 106 201	-18.98	-11.77
Gypsum	(t)	827 298	589 012	622 834	647 164	656 296	-20.67	1.41
Magnesite	(t)	425 882	358 841	335 943	393 715	393 287	-7.65	-0.11
Perlite	(t)	790 412	718 077	821 233	1 053 019	839 108	6.16	-20.31
Salt	(t)	163 474	201 107	201 000	210 000	220 000	34.58	4.76
Sulfur	(t)	280 000	260 000	210 000	250 000	250 000	-10.71	0.00

Abbreviations: see Definitions

Lignite	(t)	36 574 360	27 383 575	13 866 637	12 427 717	14 340 293	-60.79	15.39
Nat. Gas	(Mio m ³)	12	9	6	4	0	-100.00	-100.00
Petroleum	(t)	201 786	164 905	89 715	57 570	0	-100.00	-100.00
Total	(t)	42 458 542	32 709 201	18 799 750	17 737 647	19 172 291		

Guatemala

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 590	30	0	0	0	-100.00	.
Nickel	(t)	48 400	44 600	57 600	59 100	52 600	8.68	-11.00
Antimony	(t)	0	150	50	0	12	.	.
Lead	(t)	264	377	0	0	0	-100.00	.
Baryte	(t)	63	50	50	100	20	-68.25	-80.00
Bentonite	(t)	16 953	12 700	6 000	7 378	7 400	-56.35	0.30
Feldspar	(t)	30 257	28 771	25 578	34 232	30 000	-0.85	-12.36
Gypsum	(t)	132 897	140 901	423 281	138 552	206 143	55.11	48.78
Kaolin	(t)	724	700	402	295	300	-58.56	1.69
Magnesite	(t)	4 745	4 500	6 000	14 100	10 000	110.75	-29.08
Talc	(t)	2 187	10	3 151	2 111	1 450	-33.70	-31.31
Nat. Gas	(Mio m ³)			0	72	72	.	0.00
Petroleum	(t)	458 800	478 200	389 000	355 500	349 200	-23.89	-1.77
Total	(t)	697 880	710 989	911 112	668 968	714 725		

Guinea

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)		0	418 800	1 140 800	197 900	.	-82.65
Bauxite	(t)	59 573 707	70 173 326	87 766 199	87 438 557	103 525 513	73.78	18.40
Gold	(kg)	25 823	27 708	91 798	102 046	86 236	233.95	-15.49
Diam. (Gem)	(ct)	219 530	171 880	96 430	204 990	160 000	-27.12	-21.95
Diam. (Ind)	(ct)	73 180	57 300	32 145	68 330	53 330	-27.12	-21.95
Total	(t)	59 573 733	70 173 354	88 185 091	88 579 459	103 723 499		

Guyana

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)				0	105 800	.	.
Bauxite	(t)	1 926 053	1 919 747	608 168	618 452	705 631	-63.36	14.10
Gold	(kg)	19 069	19 963	18 209	15 522	15 129	-20.66	-2.53

Abbreviations: see Definitions

Diam. (Gem)	(ct)	62 110	54 990	19 240	45 106	83 614	34.62	85.37
Petroleum	(t)	0	58 280	3 709 780	5 820 870	13 832 300	.	137.63
Total	(t)	1 926 072	1 978 047	4 317 966	6 439 338	14 643 746		

Honduras

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Antimony	(t)	20	15	10	120	0	-100.00	-100.00
Lead	(t)	9 893	12 308	13 400	14 000	12 400	25.34	-11.43
Zinc	(t)	28 422	29 454	30 200	32 300	28 200	-0.78	-12.69
Gold	(kg)	2 070	3 035	1 963	2 824	1 911	-7.68	-32.33
Silver	(kg)	31 182	45 174	40 400	37 495	30 000	-3.79	-19.99
Gypsum	(t)	35 000	34 964	45 254	45 000	75 000	114.29	66.67
Salt	(t)	63 500	49 900	61 200	63 500	60 000	-5.51	-5.51
Total	(t)	136 868	126 689	150 106	154 960	175 632		

Hungary

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bauxite	(t)	4 200	0	0	0	0	-100.00	.
Bentonite	(t)	25 000	41 500	42 000	42 000	38 501	54.00	-8.33
Perlite	(t)	44 970	43 900	44 000	60 000	85 505	90.14	42.51
Lignite	(t)	7 898 689	6 847 230	6 125 178	4 987 686	4 927 434	-37.62	-1.21
Nat. Gas	(Mio m ³)	1 905	1 716	1 708	1 526	1 549	-18.69	1.51
Petroleum	(t)	1 103 000	1 160 000	1 030 000	1 087 000	1 080 000	-2.09	-0.64
Total	(t)	10 599 859	9 465 430	8 607 578	7 397 486	7 370 640		

Iceland

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	731 478	682 616	691 989	695 857	730 394	-0.15	4.96
Salt	(t)	5 000	5 000	5 000	5 000	5 000	0.00	0.00
Total	(t)	736 478	687 616	696 989	700 857	735 394		

India

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	129 615 740	151 827 100	125 963 950	156 024 500	158 405 600	22.21	1.53
Chromium	(t)	1 864 070	1 832 600	1 273 300	1 716 800	1 614 600	-13.38	-5.95
Manganese	(t)	920 230	919 640	834 340	832 100	872 600	-5.18	4.87
Titanium	(t)	172 700	205 200	205 500	176 000	154 000	-10.83	-12.50
Vanadium	(t)	442	76	100	100	50	-88.69	-50.00
Aluminium	(t)	3 696 181	3 635 089	3 619 237	3 585 800	4 073 000	10.19	13.59
Bauxite	(t)	23 689 619	21 825 227	20 380 548	22 493 947	23 831 706	0.60	5.95
Copper	(t)	32 530	28 585	25 260	26 580	26 200	-19.46	-1.43
Lead	(t)	205 920	197 080	216 280	216 023	223 038	8.31	3.25
Rare Earths	(t)	2 110	2 520	2 500	2 600	2 600	23.22	0.00
Selenium	(t)	17	17	20	20	20	17.65	0.00
Tin	(t)	16	12	13	20	34	112.50	70.00
Zinc	(t)	728 400	719 220	756 090	801 035	839 051	15.19	4.75
Gold	(kg)	1 664	1 742	1 127	1 251	1 302	-21.75	4.08
Silver	(kg)	679 386	609 340	705 795	647 140	713 625	5.04	10.27
Baryte	(t)	2 488 756	2 739 035	2 500 000	2 500 000	2 000 000	-19.64	-20.00
Bentonite	(t)	3 661 450	3 605 000	3 740 000	3 550 000	3 500 000	-4.41	-1.41
Diam. (Gem)	(ct)	13 877	10 301	5 010	0	0	-100.00	.
Diam. (Ind)	(ct)	24 560	18 515	8 910	266	388	-98.42	45.86
Feldspar	(t)	8 486 262	6 172 997	4 820 000	6 430 000	6 000 000	-29.30	-6.69
Fluorspar	(t)	1 079	1 315	1 052	1 237	1 100	1.95	-11.08
Graphite	(t)	39 030	34 674	35 386	57 264	82 439	111.22	43.96
Gypsum	(t)	4 664 046	3 006 046	6 788 200	3 547 250	4 000 000	-14.24	12.76
Kaolin	(t)	8 201 946	8 000 000	8 000 000	8 000 000	8 400 000	2.41	5.00
Magnesite	(t)	146 875	102 554	74 661	113 495	107 525	-26.79	-5.26
Phosphates	(t)	342 890	332 940	337 800	323 750	459 100	33.89	41.81
Salt	(t)	30 033 300	28 058 400	26 564 400	26 600 100	30 000 000	-0.11	12.78
Sulfur	(t)	4 290 400	3 900 950	3 750 000	3 681 000	3 725 000	-13.18	1.20
Talc	(t)	1 682 825	1 748 963	1 720 000	1 575 000	1 630 000	-3.14	3.49
Vermiculite	(t)	2 992	2 774	1 260	3 061	2 303	-23.03	-24.76
Zircon	(t)	11 906	15 600	16 000	16 000	16 000	34.39	0.00
Steam Coal	(t)	687 586 000	677 938 000	671 296 000	726 508 000	832 430 000	21.07	14.58
Coking Coal	(t)	41 132 000	52 936 000	44 787 000	51 702 000	60 760 000	47.72	17.52
Lignite	(t)	44 283 000	42 096 000	37 895 000	47 492 000	44 990 000	1.60	-5.27
Nat. Gas (Mio m ³)		32 058	30 257	27 784	33 131	33 664	5.01	1.61
Petroleum	(t)	34 203 270	32 169 270	30 494 090	29 688 440	29 178 680	-14.69	-1.72
Uranium	(t)	499	363	472	708	708	41.88	0.00
Total	(t)	1 057 833 582	1 068 259 458	1 018 326 366	1 124 170 278	1 244 257 269		

Indonesia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	600 000	1 379 300	2 951 100	3 300 000	3 000 000	400.00	-9.09
Cobalt	(t)	350	350	1 000	2 100	9 600	2 642.86	357.14
Manganese	(t)	24 000	24 000	23 500	40 000	0	-100.00	-100.00
Nickel	(t)	651 600	1 036 200	816 700	1 173 200	1 593 400	144.54	35.82
Aluminium	(t)	219 306	233 457	220 089	200 577	223 774	2.04	11.57
Bauxite	(t)	11 023 850	16 592 740	25 859 895	25 781 187	28 808 674	161.33	11.74

Abbreviations: see Definitions

Copper	(t)	651 132	351 220	505 650	731 060	940 770	44.48	28.69
Lead	(t)	10 880	9 450	7 090	6 735	4 800	-55.88	-28.73
Tin	(t)	82 809	76 390	52 617	34 466	56 093	-32.26	62.75
Zinc	(t)	21 100	25 215	20 390	14 780	11 375	-46.09	-23.04
Gold	(kg)	135 250	108 900	66 190	72 660	96 800	-28.43	33.22
Silver	(kg)	308 810	487 400	338 100	295 920	298 650	-3.29	0.92
Feldspar	(t)	749 300	480 800	287 400	313 200	325 700	-56.53	3.99
Kaolin	(t)	1 368 400	2 754 600	1 636 000	1 568 000	975 300	-28.73	-37.80
Salt	(t)	2 719 256	2 852 125	1 365 711	879 986	635 865	-76.62	-27.74
Sulfur	(t)	500 000	500 000	500 000	500 000	500 000	0.00	0.00
Zircon	(t)	53 700	73 100	77 200	54 630	97 400	81.38	78.29
Steam Coal	(t)	543 919 000	594 796 500	561 979 800	564 815 600	680 712 000	25.15	20.52
Coking Coal	(t)	5 117 786	5 752 018	4 800 000	6 000 000	6 000 000	17.24	0.00
Nat. Gas (Mio m ³)		72 570	67 160	59 180	58 960	57 410	-20.89	-2.63
Petroleum	(t)	38 434 800	37 104 200	35 367 913	32 786 100	30 489 800	-20.67	-7.00
Total	(t)	664 203 713	717 770 261	683 816 459	685 369 990	800 312 947		

Iran

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	24 700 000	28 305 000	33 660 000	34 980 000	36 874 200	49.29	5.42
Chromium	(t)	113 410	104 400	103 340	85 620	130 440	15.02	52.35
Manganese	(t)	45 595	50 240	63 580	93 940	65 800	44.31	-29.96
Molybdenum	(t)	3 690	4 160	3 536	4 150	5 980	62.06	44.10
Titanium	(t)	30 000	4 880	5 000	6 860	19 570	-34.77	185.28
Aluminium	(t)	304 800	258 166	424 475	543 715	611 551	100.64	12.48
Antimony	(t)	1 645	330	1 065	1 960	3 890	136.47	98.47
Bauxite	(t)	866 683	828 788	1 042 325	883 950	955 528	10.25	8.10
Copper	(t)	316 380	314 143	313 323	313 612	314 995	-0.44	0.44
Lead	(t)	49 600	72 500	81 800	74 100	105 500	112.70	42.38
Zinc	(t)	143 600	209 900	215 200	195 100	228 700	59.26	17.22
Gold	(kg)	7 600	8 140	6 919	6 990	7 472	-1.68	6.90
Silver	(kg)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Baryte	(t)	477 227	247 207	285 756	297 469	224 626	-52.93	-24.49
Bentonite	(t)	423 604	761 079	714 684	1 153 283	1 341 023	216.57	16.28
Boron	(t)	851	2 026	1 495	2 000	2 735	221.39	36.75
Diatomite	(t)	0	600	170	5 550	0	.	-100.00
Feldspar	(t)	1 320 452	2 415 368	1 910 505	2 803 515	3 094 356	134.34	10.37
Fluorspar	(t)	55 000	54 824	116 159	65 000	62 005	12.74	-4.61
Gypsum	(t)	10 904 289	14 750 093	15 124 823	14 322 761	18 406 880	68.80	28.51
Kaolin	(t)	1 158 983	1 813 395	1 923 895	1 348 232	2 600 110	124.34	92.85
Magnesite	(t)	137 445	147 760	256 124	248 376	210 513	53.16	-15.24
Perlite	(t)	71 579	31 828	52 750	77 024	6 709	-90.63	-91.29
Phosphates	(t)	105 840	102 230	105 000	83 900	95 430	-9.84	13.74
Potash	(t)	32 900	37 200	37 000	40 000	50 000	51.98	25.00
Salt	(t)	2 453 873	2 639 192	3 200 232	3 083 719	3 877 712	58.02	25.75
Sulfur	(t)	2 200 000	2 200 000	2 200 000	2 000 000	2 000 000	-9.09	0.00
Talc	(t)	73 259	49 650	61 665	74 537	93 535	27.68	25.49

Abbreviations: see Definitions

Steam Coal	(t)	400 000	485 000	450 000	318 200	364 200	-8.95	14.46
Coking Coal	(t)	1 650 000	1 600 000	1 423 900	980 000	1 909 050	15.70	94.80
Nat. Gas	(Mio m ³)	224 899	232 900	249 530	256 650	259 399	15.34	1.07
Petroleum	(t)	219 633 830	158 608 670	144 367 790	168 793 020	176 541 170	-19.62	4.59
Total	(t)	447 593 793	402 418 687	407 769 649	438 199 650	457 715 465		

Iraq

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	1 000 000	1 000 000	1 000 000	1 000 000	1 100 000	10.00	10.00
Phosphates	(t)	377 120	300 000	300 000	0	0	-100.00	.
Salt	(t)	271 500	270 000	300 000	57 602	60 000	-77.90	4.16
Sulfur	(t)	40 000	40 000	40 000	179 600	180 000	350.00	0.22
Nat. Gas	(Mio m ³)	10 574	10 967	7 005	9 107	9 429	-10.83	3.54
Petroleum	(t)	227 012 450	234 220 100	202 037 850	200 829 370	221 310 150	-2.51	10.20
Total	(t)	237 160 270	244 603 700	209 281 850	209 352 172	230 193 350		

Ireland

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Lead	(t)	16 712	16 053	14 401	13 192	14 181	-15.14	7.50
Zinc	(t)	131 742	122 463	127 008	112 249	103 264	-21.62	-8.00
Silver	(kg)	1 160	1 578	918	1 342	2 750	137.07	104.92
Gypsum	(t)	200 000	200 000	150 000	110 000	110 000	-45.00	0.00
Nat. Gas	(Mio m ³)	3 060	2 390	1 840	1 400	1 290	-57.84	-7.86
Total	(t)	2 796 455	2 250 518	1 763 410	1 355 442	1 259 448		

Israel

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	75 800	72 000	0	0	0	-100.00	.
Phosphates	(t)	1 100 500	898 200	988 800	777 900	694 400	-36.90	-10.73
Potash	(t)	2 149 300	2 043 500	2 415 600	2 379 000	2 446 710	13.84	2.85
Salt	(t)	377 000	301 000	275 200	262 350	255 000	-32.36	-2.80
Nat. Gas	(Mio m ³)	9 010	9 035	13 305	16 623	18 910	109.88	13.76
Oil Shales	(t)	414 580	402 882	392 990	430 840	254 425	-38.63	-40.95
Petroleum	(t)	73 933	84 020	130 427	164 765	187 443	153.53	13.76
Total	(t)	11 399 113	11 029 602	14 847 017	17 313 255	18 965 978		

Abbreviations: see Definitions

Italy

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bentonite	(t)	100 067	82 720	65 989	32 252	102 264	2.20	217.08
Feldspar	(t)	2 200 000	2 200 000	2 200 000	2 200 000	2 200 000	0.00	0.00
Gypsum	(t)	188 618	298 242	163 749	0	847 447	349.29	.
Kaolin	(t)	300 000	250 000	200 000	180 000	200 000	-33.33	11.11
Salt	(t)	1 514 829	1 538 072	1 192 956	1 500 458	1 460 833	-3.56	-2.64
Sulfur	(t)	809 900	1 261 100	458 700	613 100	745 200	-7.99	21.55
Talc	(t)	165 000	160 000	165 000	165 000	180 000	9.09	9.09
Nat. Gas	(Mio m ³)	5 443	4 852	4 117	3 343	3 316	-39.08	-0.81
Petroleum	(t)	4 684 200	4 279 000	5 393 780	4 840 300	4 497 484	-3.99	-7.08
Total	(t)	14 317 014	13 950 734	13 133 774	12 205 510	12 886 028		

Jamaica

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bauxite	(t)	10 058 228	9 022 286	7 546 139	5 949 600	4 364 700	-56.61	-26.64
Gypsum	(t)	47 000	55 000	66 000	66 000	84 000	78.72	27.27
Salt	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Total	(t)	10 115 228	9 087 286	7 622 139	6 025 600	4 458 700		

Japan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Arsenic	(t)	45	45	40	40	40	-11.11	0.00
Bismuth	(t)	571	540	570	478	480	-15.94	0.42
Cadmium	(t)	1 980	1 783	1 880	1 900	1 800	-9.09	-5.26
Gallium	(t)	3	3	3	3	3	0.00	0.00
Germanium	(t)	2	2	2	2	2	0.00	0.00
Indium	(t)	70	70	66	66	66	-5.71	0.00
Selenium	(t)	768	740	740	720	710	-7.55	-1.39
Tellurium	(t)	58	50	70	68	68	17.24	0.00
Gold	(kg)	6 453	6 313	7 590	6 225	4 886	-24.28	-21.51
Silver	(kg)	3 596	3 467	4 192	3 339	2 923	-18.72	-12.46
Bentonite	(t)	250 000	250 000	250 000	250 000	260 000	4.00	4.00
Kaolin	(t)	12 000	12 000	12 000	12 000	12 000	0.00	0.00
Salt	(t)	929 000	903 000	874 000	855 000	897 000	-3.44	4.91
Sulfur	(t)	3 408 300	3 259 000	3 140 500	2 995 100	3 120 000	-8.46	4.17
Talc	(t)	160 000	160 000	160 000	160 000	140 000	-12.50	-12.50
Nat. Gas	(Mio m ³)	2 707	2 524	2 295	2 305	2 148	-20.65	-6.81
Petroleum	(t)	449 000	470 200	461 000	441 200	378 700	-15.66	-14.17
Total	(t)	7 377 407	7 076 642	6 736 883	6 560 586	6 529 277		

Abbreviations: see Definitions

Jordan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	190 606	264 724	184 917	399 968	400 000	109.86	0.01
Kaolin	(t)	11 000	11 000	11 000	11 000	11 000	0.00	0.00
Phosphates	(t)	2 567 170	2 951 470	2 860 140	3 204 880	3 602 500	40.33	12.41
Potash	(t)	1 485 960	1 516 460	1 598 200	1 563 430	1 637 240	10.18	4.72
Salt	(t)	48 901	36 850	39 088	42 359	40 000	-18.20	-5.57
Sulfur	(t)	279 910	255 060	282 200	316 540	321 440	14.84	1.55
Nat. Gas	(Mio m ³)	93	99	150	184	152	63.44	-17.39
Petroleum	(t)	1 000	1 600	2 500	14 300	12 900	1 190.00	-9.79
Total	(t)	4 658 947	5 116 364	5 098 045	5 699 677	6 146 680		

Kazakhstan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	12 968 800	14 278 750	15 105 100	15 966 300	12 567 100	-3.10	-21.29
Chromium	(t)	2 378 200	2 458 800	1 977 900	1 901 500	1 833 900	-22.89	-3.56
Manganese	(t)	288 300	230 700	164 300	129 800	136 600	-52.62	5.24
Molybdenum	(t)	149	258	384	880	2 005	1 245.64	127.84
Titanium	(t)	65 000	60 000	28 000	20 000	22 000	-66.15	10.00
Aluminium	(t)	258 400	264 895	265 665	262 361	249 141	-3.58	-5.04
Antimony	(t)	150	0	0	0	467	211.33	.
Bauxite	(t)	6 104 200	4 118 400	4 057 800	4 370 100	4 175 900	-31.59	-4.44
Bismuth	(t)	159	200	270	250	101	-36.48	-59.60
Cadmium	(t)	850	1 200	1 500	1 500	1 000	17.65	-33.33
Copper	(t)	632 550	604 970	548 760	511 940	594 050	-6.09	16.04
Lead	(t)	86 500	55 700	30 200	29 900	30 100	-65.20	0.67
Rhenium	(kg)	1 600	1 000	1 000	1 000	800	-50.00	-20.00
Selenium	(t)	10	10	0	0	0	-100.00	.
Zinc	(t)	346 000	321 900	341 400	318 400	315 100	-8.93	-1.04
Gold	(kg)	100 288	106 559	116 964	114 843	129 779	29.41	13.01
Silver	(kg)	969 347	1 022 068	1 035 181	1 004 789	1 013 070	4.51	0.82
Asbestos	(t)	202 900	210 700	227 400	250 100	250 100	23.26	0.00
Baryte	(t)	773 200	530 600	445 300	1 016 500	650 000	-15.93	-36.06
Bentonite	(t)	120 000	52 000	59 200	60 000	60 000	-50.00	0.00
Boron	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Gypsum	(t)	121 400	78 200	94 500	184 700	233 100	92.01	26.20
Phosphates	(t)	381 200	388 540	456 010	426 330	428 040	12.29	0.40
Salt	(t)	885 717	1 094 659	1 237 455	1 231 996	1 678 472	89.50	36.24
Sulfur	(t)	3 218 250	3 834 100	4 378 900	4 587 200	4 310 200	33.93	-6.04
Steam Coal	(t)	101 085 800	98 593 000	97 924 100	102 638 500	104 500 100	3.38	1.81
Coking Coal	(t)	10 836 000	10 478 500	10 052 900	8 752 200	7 627 000	-29.61	-12.86
Lignite	(t)	6 560 700	5 929 100	5 422 100	4 827 800	5 664 100	-13.67	17.32
Nat. Gas	(Mio m ³)	36 350	33 100	32 810	26 747	27 011	-25.69	0.99
Petroleum	(t)	90 359 500	90 555 500	85 656 100	85 879 400	84 235 900	-6.78	-1.91
Uranium	(t)	25 595	26 895	22 967	25 729	25 031	-2.20	-2.71
Total	(t)	266 810 601	260 678 707	254 777 364	254 822 107	251 229 451		

Abbreviations: see Definitions

Kenya

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	7 000	16 600	13 600	28 500	61 200	774.29	114.74
Titanium	(t)	340 150	262 660	256 410	254 210	275 290	-19.07	8.29
Gold	(kg)	472	395	150	292	564	19.49	93.15
Diatomite	(t)	1 548	921	928	763	1 401	-9.50	83.62
Gypsum	(t)	5 700	5 700	5 700	6 000	6 000	5.26	0.00
Kaolin	(t)	1 000	1 000	800	900	1 900	90.00	111.11
Salt	(t)	28 841	13 728	4 703	7 099	23 215	-19.51	227.02
Vermiculite	(t)	0	100	0	700	300	.	-57.14
Zircon	(t)	36 387	30 440	31 730	28 933	29 715	-18.34	2.70
Petroleum	(t)	0	32 400	41 000	0	0	.	.
Total	(t)	420 626	363 549	354 871	327 105	399 022		

Korea, North

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 082 800	1 796 400	1 640 800	1 684 000	1 647 800	-20.89	-2.15
Molybdenum	(t)	560	530	100	100	620	10.71	520.00
Tungsten	(t)	1 410	1 130	410	50	1 520	7.80	2 940.00
Cadmium	(t)	200	150	150	150	150	-25.00	0.00
Copper	(t)	15 000	2 000	2 000	2 000	2 000	-86.67	0.00
Lead	(t)	35 000	25 000	24 000	25 000	25 000	-28.57	0.00
Zinc	(t)	30 000	25 700	25 000	28 000	28 000	-6.67	0.00
Gold	(kg)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Silver	(kg)	70 000	50 000	50 000	50 000	50 000	-28.57	0.00
Baryte	(t)	4 200	4 000	4 000	4 000	4 000	-4.76	0.00
Fluorspar	(t)	6 900	6 900	6 900	6 000	6 000	-13.04	0.00
Graphite	(t)	45 000	45 000	45 000	30 000	20 000	-55.56	-33.33
Magnesite	(t)	100 000	100 000	100 000	80 000	80 000	-20.00	0.00
Salt	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Sulfur	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Talc	(t)	40 000	40 000	30 000	30 000	30 000	-25.00	0.00
Steam Coal	(t)	16 899 000	20 210 000	19 000 000	15 600 000	16 300 000	-3.54	4.49
Total	(t)	19 370 150	22 366 870	20 988 420	17 599 360	18 255 150		

Korea, South

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	229 530	205 410	345 140	323 140	260 400	13.45	-19.42
Molybdenum	(t)	1	266	411	408	366	36 500.00	-10.29
Titanium	(t)	117 250	162 790	158 340	177 420	152 250	29.85	-14.19

Abbreviations: see Definitions

Cadmium	(t)	5 100	3 950	4 100	4 000	4 000	-21.57	0.00
Gallium	(t)	3	2	2	2	2	-33.33	0.00
Indium	(t)	235	225	210	190	180	-23.40	-5.26
Lead	(t)	2 340	1 930	1 680	1 530	970	-58.55	-36.60
Zinc	(t)	3 660	4 110	4 250	4 370	3 960	8.20	-9.38
Gold	(kg)	239	181	170	162	128	-46.44	-20.99
Silver	(kg)	7 090	5 245	7 203	10 001	7 100	0.14	-29.01
Bentonite	(t)	31 824	43 886	5 314	34 243	341 335	972.57	896.80
Diatomite	(t)	25 902	40 910	65 240	49 616	49 097	89.55	-1.05
Feldspar	(t)	617 166	396 898	415 426	987 309	851 046	37.90	-13.80
Graphite	(t)	670	302	3 052	18 297	23 798	3 451.94	30.07
Kaolin	(t)	369 274	317 626	393 236	352 003	426 960	15.62	21.29
Salt	(t)	282 590	261 970	176 247	280 876	260 616	-7.78	-7.21
Sulfur	(t)	2 000 000	2 000 000	2 000 000	2 000 000	2 000 000	0.00	0.00
Talc	(t)	348 648	330 250	315 446	355 104	322 830	-7.41	-9.09
Steam Coal	(t)	1 201 920	1 084 000	1 019 000	897 900	820 181	-31.76	-8.66
Nat. Gas	(Mio m ³)	293	248	177	53	0	-100.00	-100.00
Petroleum	(t)	25 730	21 130	13 990	4 800	2 320	-90.98	-51.67
Total	(t)	5 496 250	5 074 060	5 062 691	5 533 618	5 520 318		

Kosovo

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nickel	(t)	4 790	3 360	4 150	4 960	300	-93.74	-93.95
Lead	(t)	4 700	3 960	3 870	5 250	4 734	0.72	-9.83
Zinc	(t)	3 600	3 050	3 890	3 620	4 108	14.11	13.48
Lignite	(t)	7 169 767	8 063 051	8 537 948	8 535 436	8 253 435	15.11	-3.30
Total	(t)	7 182 857	8 073 421	8 549 858	8 549 266	8 262 577		

Kuwait

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	59 300	58 600	59 000	60 000	60 000	1.18	0.00
Sulfur	(t)	671 000	623 300	649 800	959 000	1 268 500	89.05	32.27
Nat. Gas	(Mio m ³)	17 925	17 516	17 522	18 800	19 300	7.67	2.66
Petroleum	(t)	136 244 500	133 309 720	121 347 440	120 264 800	134 810 500	-1.05	12.09
Total	(t)	151 314 800	148 004 420	136 073 840	136 323 800	151 579 000		

Abbreviations: see Definitions

Kyrgyzstan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Antimony	(t)	680	20	20	0	20	-97.06	.
Copper	(t)	8 813	8 640	6 500	8 100	7 500	-14.90	-7.41
Mercury	(t)	88	20	20	12	5	-94.32	-58.33
Gold	(kg)	22 602	26 127	24 150	24 870	27 800	23.00	11.78
Silver	(kg)	18 328	19 010	16 127	16 549	17 400	-5.06	5.14
Gypsum	(t)	152 842	150 000	23 019	31 680	32 000	-79.06	1.01
Kaolin	(t)	15 000	15 000	15 000	15 000	15 000	0.00	0.00
Salt	(t)	4 665	5 605	6 000	6 000	6 000	28.62	0.00
Steam Coal	(t)	316 200	346 500	522 200	570 300	538 500	70.30	-5.58
Lignite	(t)	2 079 000	2 259 500	1 997 500	2 483 600	3 217 200	54.75	29.54
Nat. Gas	(Mio m ³)	27	24	22	22	30	11.11	36.36
Petroleum	(t)	200 000	233 100	239 200	275 700	294 900	47.45	6.96
Total	(t)	2 798 929	3 037 630	2 827 099	3 408 034	4 135 170		

Laos

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	59 500	282 180	607 830	2 113 560	1 076 900	1 709.92	-49.05
Antimony	(t)	330	70	0	240	250	-24.24	4.17
Copper	(t)	154 948	140 935	88 163	38 349	43 766	-71.75	14.13
Lead	(t)	330	250	90	170	1 800	445.45	958.82
Tin	(t)	430	530	600	890	1 130	162.79	26.97
Zinc	(t)	3 080	1 250	860	5 400	18 750	508.77	247.22
Gold	(kg)	5 579	5 207	5 097	8 742	9 383	68.18	7.33
Silver	(kg)	37 465	34 443	29 075	26 998	22 685	-39.45	-15.98
Baryte	(t)	35 000	48 600	96 278	37 403	302 709	764.88	709.32
Gypsum	(t)	618 783	606 387	737 749	1 221 959	1 589 771	156.92	30.10
Potash	(t)	343 500	286 900	442 500	507 600	920 000	167.83	81.25
Salt	(t)	46 863	10 079	3 951	6 846	188	-99.60	-97.25
Steam Coal	(t)	142 994	161 494	320 231	698 521	1 270 812	788.72	81.93
Lignite	(t)	15 903 277	15 263 562	14 366 628	13 618 072	15 358 322	-3.43	12.78
Total	(t)	17 309 078	16 802 276	16 664 914	18 249 046	20 584 430		

Latvia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	320 080	318 450	359 190	383 990	0	-100.00	-100.00
Total	(t)	320 080	318 450	359 190	383 990	0		

Abbreviations: see Definitions

Lebanon

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	3 000	3 000	3 000	3 000	3 000	0.00	0.00
Total	(t)	3 000	3 000	3 000	3 000	3 000		

Lesotho

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Diam. (Gem)	(ct)	1 294 283	1 113 526	481 243	339 452	1 275 887	-1.42	275.87
Total	(t)	0	0	0	0	0		

Liberia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 794 300	2 657 200	2 924 600	2 520 000	2 640 000	-5.52	4.76
Gold	(kg)	7 289	5 068	4 396	7 860	11 718	60.76	49.08
Diam. (Gem)	(ct)	45 330	33 560	32 760	37 820	26 590	-41.34	-29.69
Diam. (Ind)	(ct)	30 220	22 370	21 840	25 210	28 800	-4.70	14.24
Total	(t)	2 794 307	2 657 205	2 924 604	2 520 008	2 640 012		

Libya

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	150 000	200 000	200 000	200 000	250 000	66.67	25.00
Salt	(t)	30 000	30 000	30 000	40 000	40 000	33.33	0.00
Sulfur	(t)	133 000	169 500	133 300	139 000	139 500	4.89	0.36
Nat. Gas	(Mio m ³)	21 290	26 830	20 930	13 010	12 570	-40.96	-3.38
Petroleum	(t)	55 146 500	57 738 100	19 437 000	60 084 200	52 759 520	-4.33	-12.19
Total	(t)	72 491 500	79 601 600	36 544 300	70 871 200	63 245 020		

Lithuania

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Sulfur	(t)	93 960	86 040	71 250	72 990	64 497	-31.36	-11.64
Petroleum	(t)	46 030	39 570	31 630	28 920	27 040	-41.26	-6.50
Total	(t)	139 990	125 610	102 880	101 910	91 537		

Abbreviations: see Definitions

Madagascar

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	53 500	37 300	6 100	6 600	9 000	-83.18	36.36
Cobalt	(t)	2 887	2 897	833	2 111	3 428	18.74	62.39
Nickel	(t)	33 204	33 736	9 908	29 285	35 737	7.63	22.03
Titanium	(t)	214 900	252 200	280 600	354 800	299 800	39.51	-15.50
Beryllium	(t)	140	30	30	30	20	-85.71	-33.33
Rare Earths	(t)	2 400	3 200	4 300	3 900	2 600	8.33	-33.33
Gold	(kg)	3 052	2 423	1 779	2 000	2 000	-34.47	0.00
Graphite	(t)	52 951	45 106	61 405	127 562	116 700	120.39	-8.52
Salt	(t)	110 000	110 000	110 000	110 000	120 000	9.09	9.09
Zircon	(t)	22 757	29 473	26 029	23 109	26 821	17.86	16.06
Total	(t)	492 742	513 944	499 207	657 399	614 108		

Malawi

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	1 540	1 800	3 010	2 990	590	-61.69	-80.27
Gold	(kg)			0	55	187	.	240.00
Phosphates	(t)	270	300	0	0	0	-100.00	.
Steam Coal	(t)	49 753	54 728	54 876	30 251	62 166	24.95	105.50
Total	(t)	51 563	56 828	57 886	33 241	62 756		

Malaysia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 112 790	2 621 100	3 383 990	3 070 930	3 094 320	46.46	0.76
Manganese	(t)	530 340	474 910	365 340	280 790	312 720	-41.03	11.37
Tantalum	(t)	27	2	1	1	4	-85.19	300.00
Titanium	(t)	12 600	6 930	6 280	13 470	21 180	68.10	57.24
Aluminium	(t)	760 000	760 000	980 700	901 000	960 000	26.32	6.55
Bauxite	(t)	589 685	900 561	594 715	47 577	129 825	-77.98	172.87
Rare Earths	(t)	990	70	10	30	310	-68.69	933.33
Tin	(t)	3 868	3 611	2 963	3 013	3 521	-8.97	16.86
Gold	(kg)	2 978	3 151	1 716	1 781	1 828	-38.62	2.64
Silver	(kg)	1 542	686	423	672	414	-73.15	-38.39
Feldspar	(t)	414 441	241 189	144 487	168 570	216 394	-47.79	28.37
Kaolin	(t)	496 219	400 722	336 565	228 605	236 840	-52.27	3.60
Zircon	(t)	509	449	157	1 518	768	50.88	-49.41

Abbreviations: see Definitions

Steam Coal	(t)	2 652 814	3 459 122	2 978 248	3 110 605	3 405 847	28.39	9.49
Nat. Gas	(Mio m ³)	66 212	68 700	63 370	67 520	71 850	8.52	6.41
Petroleum	(t)	32 509 900	30 384 800	27 679 100	25 169 300	25 023 600	-23.03	-0.58
Total	(t)	93 053 788	94 213 470	87 168 558	87 011 412	90 885 331		

Mali

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	60 893	66 739	71 200	69 400	72 200	18.57	4.03
Silver	(kg)	2 844	3 000	3 000	3 000	3 000	5.49	0.00
Total	(t)	64	70	74	72	75		

Malta

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	1 600	2 000	2 000	2 000	2 000	25.00	0.00
Total	(t)	1 600	2 000	2 000	2 000	2 000		

Mauritania

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	7 005 800	8 013 100	8 243 500	8 185 200	8 465 400	20.83	3.42
Copper	(t)	28 137	29 620	28 491	18 846	13 313	-52.69	-29.36
Gold	(kg)	9 236	13 554	14 125	6 499	17 711	91.76	172.52
Gypsum	(t)	130 000	130 000	120 000	70 000	70 000	-46.15	0.00
Total	(t)	7 163 946	8 172 734	8 392 005	8 274 052	8 548 731		

Mauritius

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Salt	(t)	500	570	556	793	674	34.80	-15.01
Total	(t)	500	570	556	793	674		

Abbreviations: see Definitions

Mexico

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	8 412 810	10 331 270	10 774 600	13 430 600	10 963 300	30.32	-18.37
Manganese	(t)	209 023	232 957	258 045	225 703	220 745	5.61	-2.20
Molybdenum	(t)	20 265	21 694	20 577	19 894	19 329	-4.62	-2.84
Tungsten	(t)	45	15	32	0	50	11.11	.
Antimony	(t)	300	289	136	413	632	110.67	53.03
Bismuth	(t)	313	251	0	0	0	-100.00	.
Cadmium	(t)	1 307	952	978	1 051	1 174	-10.18	11.70
Copper	(t)	696 580	713 704	800 316	782 136	828 189	18.89	5.89
Lead	(t)	230 869	372 106	468 486	272 231	428 971	85.81	57.58
Mercury	(t)	230	50	70	40	20	-91.30	-50.00
Selenium	(t)	107	127	106	135	141	31.78	4.44
Zinc	(t)	662 355	859 194	1 008 252	742 926	876 985	32.40	18.04
Gold	(kg)	141 143	133 893	142 787	133 340	147 674	4.63	10.75
Silver	(kg)	7 243 341	7 485 602	7 424 554	6 492 180	7 067 536	-2.43	8.86
Baryte	(t)	366 234	415 180	480 954	320 642	498 225	36.04	55.38
Bentonite	(t)	264 800	24 321	79 219	80 000	80 000	-69.79	0.00
Diatomite	(t)	152 028	129 274	144 105	140 928	107 062	-29.58	-24.03
Feldspar	(t)	907 755	516 196	903 385	390 076	325 235	-64.17	-16.62
Fluorspar	(t)	1 959 654	1 931 532	1 571 269	1 007 118	1 856 557	-5.26	84.34
Graphite	(t)	4 130	2 342	2 033	1 509	3 420	-17.19	126.64
Gypsum	(t)	11 275 293	7 759 139	7 977 953	9 157 381	8 283 113	-26.54	-9.55
Kaolin	(t)	898 246	246 645	236 033	223 332	227 798	-74.64	2.00
Magnesite	(t)	101 000	800	0	0	0	-100.00	.
Perlite	(t)	26 400	24 497	0	28 800	0	-100.00	-100.00
Phosphates	(t)	222 500	249 520	91 240	145 050	132 510	-40.44	-8.65
Salt	(t)	9 392 052	8 845 239	9 084 859	7 001 505	7 914 780	-15.73	13.04
Sulfur	(t)	442 657	364 967	315 935	219 439	290 121	-34.46	32.21
Talc	(t)	8 448	7 202	29 122	36 465	34 630	309.92	-5.03
Vermiculite	(t)	244	148	104	0	0	-100.00	.
Steam Coal	(t)	6 772 528	5 316 000	3 357 000	4 312 000	4 300 000	-36.51	-0.28
Coking Coal	(t)	3 897 000	3 275 000	3 897 000	1 319 000	1 300 000	-66.64	-1.44
Nat. Gas (Mio m ³)		29 860	29 370	28 580	27 160	28 630	-4.12	5.41
Petroleum	(t)	101 605 440	94 161 830	93 860 550	94 785 920	95 765 300	-5.75	1.03
Total	(t)	172 425 997	159 306 061	158 233 927	156 378 919	157 369 503		

Moldova

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	352 500	276 400	292 600	307 900	270 200	-23.35	-12.24
Petroleum	(t)	5 100	5 032	5 032	4 972	4 652	-8.78	-6.44
Total	(t)	357 600	281 432	297 632	312 872	274 852		

Abbreviations: see Definitions

Mongolia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	3 486 220	4 800 430	5 165 660	5 136 260	4 289 540	23.04	-16.49
Molybdenum	(t)	2 580	2 490	2 890	2 975	2 780	7.75	-6.55
Tungsten	(t)	430	370	35	120	236	-45.12	96.67
Copper	(t)	309 750	290 980	291 010	303 030	268 930	-13.18	-11.25
Lead	(t)	11 320	13 500	12 400	9 700	10 850	-4.15	11.86
Tin	(t)	25	20	0	11	46	84.00	318.18
Zinc	(t)	43 950	41 550	38 150	39 490	38 300	-12.86	-3.01
Gold	(kg)	20 655	16 235	20 226	19 054	19 383	-6.16	1.73
Silver	(kg)	69 120	79 864	77 762	79 035	73 476	6.30	-7.03
Fluorspar	(t)	555 230	699 400	678 900	644 270	387 740	-30.17	-39.82
Gypsum	(t)	47 700	107 100	97 900	111 400	111 500	133.75	0.09
Salt	(t)	997	533	2 624	1 349	394	-60.48	-70.79
Steam Coal	(t)	6 914 400	6 683 100	5 394 200	5 029 260	3 291 600	-52.40	-34.55
Coking Coal	(t)	27 073 750	28 962 970	25 821 930	23 934 520	19 496 400	-27.99	-18.54
Lignite	(t)	7 449 000	8 053 080	6 657 650	5 115 960	4 802 000	-35.53	-6.14
Petroleum	(t)	871 500	937 900	560 000	636 600	350 000	-59.84	-45.02
Uranium	(t)	0	0	1	4	0	.	-100.00
Total	(t)	46 766 942	50 593 519	44 723 448	40 965 047	33 050 408		

Montenegro

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	40 163	36 522	37 208	45 214	43 196	7.55	-4.46
Bauxite	(t)	468 164	774 725	791 813	526 760	438 205	-6.40	-16.81
Lead	(t)	3 100	3 480	640	0	1 350	-56.45	.
Zinc	(t)	10 670	9 520	10 130	9 360	8 070	-24.37	-13.78
Lignite	(t)	1 595 900	1 605 200	1 665 449	1 548 612	1 722 535	7.94	11.23
Total	(t)	2 117 997	2 429 447	2 505 240	2 129 946	2 213 356		

Morocco

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	18 520	7 150	14 090	8 870	10 000	-46.00	12.74
Cobalt	(t)	1 806	2 397	2 416	1 796	1 690	-6.42	-5.90
Manganese	(t)	39 770	35 600	42 050	41 250	24 500	-38.40	-40.61
Nickel	(t)	126	131	142	147	157	24.60	6.80
Arsenic	(t)	5 578	5 055	7 694	6 883	5 450	-2.29	-20.82
Copper	(t)	32 430	30 720	31 750	50 340	46 000	41.84	-8.62
Lead	(t)	30 360	32 770	38 190	31 340	30 000	-1.19	-4.28
Mercury	(t)	5	2	2	2	2	-60.00	0.00
Zinc	(t)	57 700	43 570	35 810	40 230	40 000	-30.68	-0.57

Abbreviations: see Definitions

Gold	(kg)	386	221	143	147	167	-56.74	13.61
Silver	(kg)	200 530	216 580	189 220	194 360	200 340	-0.09	3.08
Baryte	(t)	899 365	1 119 811	501 939	840 486	1 100 000	22.31	30.88
Bentonite	(t)	172 749	188 081	92 387	134 340	135 000	-21.85	0.49
Feldspar	(t)	75 298	101 947	185 772	427 387	430 000	471.06	0.61
Fluorspar	(t)	87 874	73 244	83 833	189 012	50 000	-43.10	-73.55
Phosphates	(t)	10 960 200	11 267 500	11 959 000	12 176 200	9 728 000	-11.24	-20.11
Salt	(t)	691 637	854 397	490 896	295 741	600 000	-13.25	102.88
Nat. Gas	(Mio m ³)	87	99	98	110	77	-11.49	-30.00
Petroleum	(t)	4 840	4 335	4 098	3 246	2 394	-50.54	-26.25
Total	(t)	13 148 059	13 846 127	13 568 658	14 335 464	12 264 993		

Mozambique

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Niobium	(t)	12	11	17	14	17	41.67	21.43
Tantalum	(t)	66	59	94	75	84	27.27	12.00
Titanium	(t)	701 400	786 900	874 000	1 126 800	1 387 200	97.78	23.11
Aluminium	(t)	571 125	564 756	571 125	564 756	587 200	2.81	3.97
Bauxite	(t)	9 912	8 024	6 491	7 852	14 583	47.12	85.72
Beryllium	(t)	416	45	80	330	531	27.64	60.91
Gold	(kg)	507	430	488	764	1 264	149.31	65.45
Bentonite	(t)	1 091	77 734	80 189	118 692	113 985	10 347.75	-3.97
Diatomite	(t)	34 200	72 439	35 257	72 914	51 449	50.44	-29.44
Graphite	(t)	104 000	153 000	18 159	77 116	165 932	59.55	115.17
Salt	(t)	27 729	50 740	38 377	34 453	13 482	-51.38	-60.87
Zircon	(t)	202 022	121 768	104 076	123 011	134 082	-33.63	9.00
Steam Coal	(t)	6 891 201	4 983 146	3 370 585	5 346 781	8 420 436	22.19	57.49
Coking Coal	(t)	8 355 292	5 356 390	4 670 626	5 732 902	6 385 797	-23.57	11.39
Nat. Gas	(Mio m ³)	5 120	4 597	4 541	4 600	4 519	-11.74	-1.76
Petroleum	(t)	51 810	41 250	38 350	36 330	45 930	-11.35	26.42
Total	(t)	21 046 277	15 893 862	13 440 226	16 922 027	20 935 909		

Myanmar

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	207 500	429 000	254 000	206 100	207 100	-0.19	0.49
Nickel	(t)	17 750	14 200	22 000	18 100	9 600	-45.92	-46.96
Tungsten	(t)	190	130	80	40	30	-84.21	-25.00
Antimony	(t)	2 640	4 800	6 600	2 870	3 230	22.35	12.54
Copper	(t)	179 310	219 200	196 500	98 000	1 500	-99.16	-98.47
Lead	(t)	24 930	35 090	27 000	12 900	16 000	-35.82	24.03
Rare Earths	(t)	20 400	17 100	21 000	27 100	17 550	-13.97	-35.24
Tin	(t)	54 500	38 900	33 440	33 950	40 500	-25.69	19.29
Zinc	(t)	12 240	13 680	11 310	6 200	10 200	-16.67	64.52

Abbreviations: see Definitions

Gold	(kg)	467	267	871	773	467	0.00	-39.59
Baryte	(t)	9 658	12 439	2 642	2 220	32 089	232.25	1 345.45
Bentonite	(t)	540	0	500	500	0	-100.00	-100.00
Gypsum	(t)	309 343	299 316	258 620	51 240	96 246	-68.89	87.83
Salt	(t)	189 146	213 319	229 755	161 774	138 413	-26.82	-14.44
Steam Coal	(t)	819 715	1 325 586	1 283 428	992 159	1 179 400	43.88	18.87
Lignite	(t)	485 724	785 480	760 498	587 906	698 900	43.89	18.88
Nat. Gas (Mio m ³)		16 040	18 810	18 270	17 680	17 150	6.92	-3.00
Petroleum	(t)	480 500	429 000	572 200	309 800	295 500	-38.50	-4.62
Total	(t)	15 646 086	18 885 240	18 295 574	16 654 860	16 466 258		

Namibia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	8 730	8 400	27 570	51 490	0	-100.00	-100.00
Manganese	(t)	8 800	14 660	11 860	10 250	10 600	20.45	3.41
Copper	(t)	15 177	14 940	15 741	950	0	-100.00	-100.00
Lead	(t)	4 291	6 320	8 890	10 130	12 240	185.25	20.83
Lithium	(t)	600	0	0	0	0	-100.00	.
Tin	(t)	0	7	242	492	533	.	8.33
Zinc	(t)	118 310	124 630	62 260	41 180	38 400	-67.54	-6.75
Gold	(kg)	6 632	7 016	6 718	7 648	7 438	12.15	-2.75
Silver	(kg)	3 850	7 765	7 520	5 847	5 200	35.06	-11.07
Diam. (Gem)	(ct)	1 985 670	1 722 830	1 428 445	1 446 964	2 078 670	4.68	43.66
Diam. (Ind)	(ct)	104 510	90 675	75 180	76 156	109 405	4.68	43.66
Graphite	(t)	3 456	0	0	0	0	-100.00	.
Salt	(t)	1 151 153	983 354	987 872	926 677	1 022 448	-11.18	10.33
Sulfur	(t)	78 610	72 920	81 500	118 150	161 120	104.96	36.37
Uranium	(t)	6 514	6 459	6 382	6 784	6 617	1.58	-2.46
Total	(t)	1 395 652	1 231 705	1 202 332	1 166 117	1 251 970		

Nauru

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Phosphates	(t)	23 000	30 600	39 400	102 500	97 500	323.91	-4.88
Total	(t)	23 000	30 600	39 400	102 500	97 500		

Nepal

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	180	120	770	0	0	-100.00	.
Lead	(t)	0	0	1 800	5 550	0	.	-100.00

Abbreviations: see Definitions

Talc	(t)	8 658	7 813	4 931	4 450	2 113	-75.59	-52.52
Steam Coal	(t)	10 049	7 184	7 250	11 304	6 927	-31.07	-38.72
Total	(t)	18 887	15 117	14 751	21 304	9 040		

Netherlands

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	41 300	81 100	70 600	46 700	0	-100.00	-100.00
Cadmium	(t)	960	860	880	854	574	-40.21	-32.79
Salt	(t)	6 750 546	5 913 782	5 712 038	6 201 542	5 893 118	-12.70	-4.97
Nat. Gas	(Mio m ³)	36 911	31 517	22 813	20 438	16 838	-54.38	-17.61
Petroleum	(t)	1 129 300	892 600	862 200	864 000	498 100	-55.89	-42.35
Total	(t)	37 450 906	32 101 942	24 896 118	23 463 496	19 862 192		

New Caledonia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Cobalt	(t)	2 104	1 703	2 197	1 500	1 770	-15.87	18.00
Nickel	(t)	216 225	208 185	199 375	186 284	199 951	-7.53	7.34
Total	(t)	218 329	209 888	201 572	187 784	201 721		

New Zealand

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 100 000	1 915 000	2 260 000	2 200 000	2 280 000	8.57	3.64
Aluminium	(t)	340 678	351 481	333 314	333 135	335 871	-1.41	0.82
Gold	(kg)	10 045	8 217	5 860	5 815	6 674	-33.56	14.77
Silver	(kg)	6 332	4 060	1 393	3 055	3 922	-38.06	28.38
Bentonite	(t)	4 482	500	500	500	500	-88.84	0.00
Kaolin	(t)	51 369	50 569	50 000	55 000	55 000	7.07	0.00
Salt	(t)	100 000	76 000	66 000	70 000	0	-100.00	-100.00
Steam Coal	(t)	1 710 060	1 545 230	1 482 000	1 448 565	1 292 541	-24.42	-10.77
Coking Coal	(t)	1 213 400	1 200 900	1 038 970	1 134 310	1 068 687	-11.93	-5.79
Lignite	(t)	307 378	287 830	297 690	284 735	276 248	-10.13	-2.98
Nat. Gas	(Mio m ³)	4 322	4 608	4 508	3 945	3 694	-14.53	-6.36
Petroleum	(t)	1 086 450	1 128 870	964 420	840 780	736 140	-32.24	-12.45
Total	(t)	10 371 433	10 242 792	10 099 301	9 523 034	9 000 198		

Abbreviations: see Definitions

Nicaragua

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	7 703	9 190	8 087	11 144	11 549	49.93	3.63
Silver	(kg)	11 263	17 362	20 411	21 460	21 697	92.64	1.10
Gypsum	(t)	70 341	39 925	64 573	19 999	39 865	-43.33	99.33
Salt	(t)	50 000	55 000	55 000	55 000	55 000	10.00	0.00
Total	(t)	120 360	94 951	119 601	75 031	94 899		

Niger

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	6 207	5 224	2 361	4 010	2 601	-58.10	-35.14
Silver	(kg)	300	100	120	87	100	-66.67	14.94
Steam Coal	(t)	221 580	225 920	246 880	105 760	235 328	6.20	122.51
Petroleum	(t)	827 300	903 400	855 500	873 100	778 100	-5.95	-10.88
Uranium	(t)	3 433	3 516	3 527	2 691	2 382	-30.61	-11.48
Total	(t)	1 052 319	1 132 841	1 105 909	981 555	1 015 813		

Nigeria

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	700	18 300	2 400	1 300	6 700	857.14	415.38
Manganese	(t)	22 880	1 000	5 850	22 380	23 100	0.96	3.22
Niobium	(t)	181	170	80	140	60	-66.85	-57.14
Tantalum	(t)	230	120	80	160	140	-39.13	-12.50
Tungsten	(t)	66	15	18	24	52	-21.21	116.67
Beryllium	(t)	35	1	2	0	0	-100.00	.
Lead	(t)	17 900	23 550	20 100	45 500	52 400	192.74	15.16
Lithium	(t)	50	10	0	20	20	-60.00	0.00
Tin	(t)	7 850	6 900	5 970	6 890	8 340	6.24	21.04
Zinc	(t)	26 920	23 220	26 620	32 220	55 650	106.72	72.72
Gold	(kg)	10 000	9 000	1 520	2 000	3 048	-69.52	52.40
Baryte	(t)	387	370	544	460	500	29.20	8.70
Feldspar	(t)	41 355	33 702	19 453	43 997	20 000	-51.64	-54.54
Fluorspar	(t)		4 730	17 557	6 275	25 900	.	312.75
Gypsum	(t)	39 052	22 142	30 706	13 401	20 000	-48.79	49.24
Kaolin	(t)	11 707	8 649	7 033	23 530	10 000	-14.58	-57.50
Talc	(t)	2 668	6 630	8 404	65 061	10 000	274.81	-84.63
Zircon	(t)	1 421	1 000	242	3 033	4 705	231.10	55.13
Steam Coal	(t)	352 679	543 424	747 979	1 444 139	3 043 000	762.82	110.71
Nat. Gas	(Mio m ³)	48 270	49 280	49 950	48 570	44 300	-8.22	-8.79
Petroleum	(t)	95 675 000	100 287 000	91 504 570	77 220 000	68 607 900	-28.29	-11.15
Total	(t)	134 817 091	140 404 942	132 357 610	117 784 532	107 328 470		

Abbreviations: see Definitions

North Macedonia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper	(t)	7 718	7 231	6 625	6 810	7 595	-1.59	11.53
Lead	(t)	41 900	43 490	44 930	42 870	41 600	-0.72	-2.96
Zinc	(t)	29 720	31 040	31 750	30 070	29 730	0.03	-1.13
Gold	(kg)	767	593	448	470	600	-21.77	27.66
Silver	(kg)	15 060	15 620	16 090	15 470	15 260	1.33	-1.36
Bentonite	(t)	2 945	682	2 196	1 277	0	-100.00	-100.00
Feldspar	(t)	30 813	29 519	13 115	26 625	35 815	16.23	34.52
Gypsum	(t)	230 029	267 181	229 322	273 497	190 902	-17.01	-30.20
Talc	(t)	559	0	0	0	0	-100.00	.
Lignite	(t)	4 946 486	5 066 083	4 532 745	4 758 504	5 592 335	13.06	17.52
Total	(t)	5 290 186	5 445 243	4 860 699	5 139 668	5 897 993		

Norway

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	1 129 900	1 069 700	1 014 700	1 057 500	1 105 900	-2.12	4.58
Molybdenum	(t)	0	1	1	1	1	.	0.00
Nickel	(t)	170	135	120	350	190	11.76	-45.71
Titanium	(t)	176 370	211 280	229 780	295 610	252 990	43.44	-14.42
Aluminium	(t)	1 295 000	1 312 000	1 339 330	1 430 183	1 424 571	10.01	-0.39
Cadmium	(t)	380	370	344	390	420	10.53	7.69
Bentonite	(t)	3 234	0	0	12 803	0	-100.00	-100.00
Feldspar	(t)	88 000	80 000	69 000	60 000	60 000	-31.82	0.00
Graphite	(t)	10 000	9 780	5 549	6 293	10 380	3.80	64.95
Gypsum	(t)	89 655	102 100	93 602	92 794	86 317	-3.72	-6.98
Salt	(t)	56 000	10 000	5 300	13 000	13 000	-76.79	0.00
Sulfur	(t)	120 000	90 000	86 000	89 000	81 000	-32.50	-8.99
Steam Coal	(t)	154 200	117 000	63 000	121 000	118 000	-23.48	-2.48
Nat. Gas (Mio m ³)		122 203	115 123	112 332	115 178	123 777	1.29	7.47
Petroleum	(t)	84 275 900	79 388 000	93 492 500	95 254 000	89 819 000	6.58	-5.71
Total	(t)	185 161 209	174 488 766	186 264 826	190 575 324	191 993 369		

Oman

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	353 630	293 040	182 720	195 540	164 800	-53.40	-15.72
Manganese	(t)	11 170	12 500	3 200	3 300	3 000	-73.14	-9.09
Aluminium	(t)	379 775	390 515	396 929	395 360	394 780	3.95	-0.15

Abbreviations: see Definitions

Gypsum	(t)	9 666 701	10 982 900	11 120 200	13 538 800	9 510 100	-1.62	-29.76
Kaolin	(t)	110 300	34 100	58 300	35 350	0	-100.00	-100.00
Salt	(t)	11 537	15 003	11 700	10 142	11 500	-0.32	13.39
Sulfur	(t)	84 990	79 140	80 830	87 765	87 160	2.55	-0.69
Nat. Gas	(Mio m ³)	37 660	37 460	37 020	39 750	41 740	10.83	5.01
Petroleum	(t)	48 710 000	48 339 100	47 374 500	48 353 500	52 982 500	8.77	9.57
Total	(t)	89 456 103	90 114 298	88 844 379	94 419 757	96 545 840		

Pakistan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	257 340	238 440	218 000	306 160	272 570	5.92	-10.97
Chromium	(t)	38 970	55 300	48 570	56 050	78 000	100.15	39.16
Manganese	(t)	50	190	180	50	200	300.00	300.00
Antimony	(t)	20	0	17	33	0	-100.00	-100.00
Bauxite	(t)	145 189	92 936	101 047	97 495	70 000	-51.79	-28.20
Copper	(t)	12 538	13 049	13 200	18 806	16 346	30.37	-13.08
Lead	(t)	4 820	8 090	7 094	7 277	8 886	84.36	22.11
Zinc	(t)	26 980	37 365	35 054	35 391	42 349	56.96	19.66
Baryte	(t)	88 847	116 480	55 341	51 553	128 000	44.07	148.29
Bentonite	(t)	74 268	48 332	107 742	59 744	45 000	-39.41	-24.68
Feldspar	(t)	151 743	295 381	343 075	451 985	413 000	172.17	-8.63
Fluorspar	(t)	2 777	4 186	5 981	7 841	9 200	231.29	17.33
Gypsum	(t)	2 475 893	2 517 825	2 149 873	2 527 215	2 325 000	-6.09	-8.00
Kaolin	(t)	19 483	20 756	14 919	12 309	17 000	-12.74	38.11
Magnesite	(t)	23 596	42 996	16 165	15 120	5 886	-75.06	-61.07
Phosphates	(t)	12 340	17 320	15 790	21 640	32 000	159.32	47.87
Salt	(t)	3 888 344	4 012 304	3 483 732	3 592 205	2 896 000	-25.52	-19.38
Sulfur	(t)	22 040	20 715	19 948	19 398	16 288	-26.10	-16.03
Talc	(t)	141 504	158 109	150 009	289 423	301 000	112.71	4.00
Steam Coal	(t)	4 477 555	5 406 878	8 599 166	9 229 377	9 678 000	116.14	4.86
Nat. Gas	(Mio m ³)	41 313	40 679	37 283	36 224	37 039	-10.35	2.25
Petroleum	(t)	4 441 610	4 433 150	3 832 330	3 760 980	3 833 290	-13.70	1.92
Uranium	(t)	53	53	53	53	53	0.00	0.00
Total	(t)	49 356 360	50 083 055	49 043 686	49 539 305	49 819 268		

Panama

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper	(t)	0	147 480	205 548	331 000	350 438	.	5.87
Gold	(kg)	0	1 869	2 633	4 405	4 347	.	-1.32
Silver	(kg)	0	35 217	49 628	78 419	87 498	.	11.58
Salt	(t)	17 281	27 389	24 958	23 794	22 742	31.60	-4.42
Total	(t)	17 281	174 906	230 559	354 876	373 271		

Abbreviations: see Definitions

Papua New Guinea

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	40 290	52 010	51 560	53 830	47 250	17.27	-12.22
Cobalt	(t)	3 275	2 915	2 941	2 955	2 987	-8.79	1.08
Nickel	(t)	35 354	33 091	33 659	31 594	34 302	-2.98	8.57
Copper	(t)	96 277	99 432	82 403	66 958	75 834	-21.23	13.26
Gold	(kg)	67 282	71 050	52 265	39 135	42 310	-37.12	8.11
Silver	(kg)	113 890	162 630	129 695	103 210	111 710	-1.91	8.24
Nat. Gas	(Mio m ³)	2 914	3 339	3 325	3 400	5 736	96.84	68.71
Petroleum	(t)	1 898 700	1 889 900	1 960 100	1 842 600	1 669 400	-12.08	-9.40
Total	(t)	4 405 277	4 748 782	4 790 845	4 718 079	6 418 727		

Paraguay

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	4 500	4 500	4 500	4 500	4 500	0.00	0.00
Kaolin	(t)	6 000	6 000	6 000	6 000	6 000	0.00	0.00
Total	(t)	10 500	10 500	10 500	10 500	10 500		

Peru

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	9 096 994	9 666 412	8 893 972	12 149 274	12 936 826	42.21	6.48
Manganese	(t)	17 203	18 814	10 120	9 073	1 169	-93.20	-87.12
Molybdenum	(t)	28 034	30 441	32 185	34 148	31 588	12.68	-7.50
Arsenic	(t)	20 376	24 915	19 014	21 872	25 379	24.55	16.03
Bismuth	(t)	145	73	74	248	251	73.10	1.21
Cadmium	(t)	765	772	451	636	460	-39.87	-27.67
Copper	(t)	2 416 881	2 437 925	2 153 952	2 329 886	2 445 271	1.17	4.95
Indium	(t)	5	7	7	7	7	40.00	0.00
Lead	(t)	288 796	307 021	241 548	264 427	255 443	-11.55	-3.40
Selenium	(t)	52	56	53	48	57	9.62	18.75
Tin	(t)	18 601	19 853	20 647	26 995	28 231	51.77	4.58
Zinc	(t)	1 471 846	1 382 753	1 334 570	1 533 135	1 369 649	-6.94	-10.66
Gold	(kg)	125 934	113 586	85 173	97 190	96 966	-23.00	-0.23
Silver	(kg)	3 999 990	3 706 760	2 768 240	3 375 645	3 084 039	-22.90	-8.64
Baryte	(t)	15 621	16 373	5 242	10 361	29 293	87.52	182.72
Bentonite	(t)	2 383	46 887	25 532	56 199	22 931	862.27	-59.20
Boron	(t)	100 552	111 108	43 645	246 362	292 986	191.38	18.92
Diatomite	(t)	96 532	91 103	85 406	94 860	104 660	8.42	10.33
Feldspar	(t)	31 588	29 134	24 132	27 274	24 358	-22.89	-10.69
Gypsum	(t)	458 479	254 382	171 093	435 459	315 292	-31.23	-27.60
Kaolin	(t)	16 004	9 208	12 536	13 142	14 300	-10.65	8.81

Abbreviations: see Definitions

Phosphates	(t)	1 237 000	1 331 000	1 031 300	1 293 100	1 314 600	6.27	1.66
Salt	(t)	1 509 564	1 266 347	1 030 598	1 175 828	1 093 559	-27.56	-7.00
Sulfur	(t)	552 800	511 500	474 500	529 900	588 300	6.42	11.02
Talc	(t)	47 309	43 974	37 938	50 355	49 869	5.41	-0.97
Steam Coal	(t)	218 787	181 023	131 516	146 982	192 094	-12.20	30.69
Nat. Gas (Mio m ³)		12 721	13 429	12 030	11 375	13 705	7.74	20.48
Petroleum	(t)	6 688 500	6 956 200	6 221 400	5 949 800	5 835 100	-12.76	-1.93
Total	(t)	34 515 743	35 484 302	31 628 284	35 502 844	37 938 854		

Philippines

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	0	0	25 700	40 900	45 500	.	11.25
Chromium	(t)	20 260	14 570	14 040	12 290	59 000	191.21	380.07
Cobalt	(t)	3 600	3 750	3 600	3 200	3 400	-5.56	6.25
Nickel	(t)	344 966	323 325	328 911	386 359	345 200	0.07	-10.65
Copper	(t)	69 933	71 892	60 856	51 586	62 100	-11.20	20.38
Selenium	(t)	100	100	100	200	200	100.00	0.00
Gold	(kg)	20 765	20 687	21 030	25 332	29 007	39.69	14.51
Silver	(kg)	29 782	31 267	24 024	30 856	56 227	88.80	82.22
Bentonite	(t)	10 800	13 050	4 720	6 059	22 603	109.29	273.05
Feldspar	(t)	47 000	47 000	47 000	47 000	47 000	0.00	0.00
Kaolin	(t)	13 000	15 000	40 200	27 700	18 612	43.17	-32.81
Magnesite	(t)	140	40	0	0	0	-100.00	.
Perlite	(t)	7 329	6 608	0	4 631	24 878	239.45	437.21
Phosphates	(t)	1 500	200	200	0	0	-100.00	.
Salt	(t)	600 000	200 000	200 000	100 000	60 000	-90.00	-40.00
Sulfur	(t)	1 321 800	716 100	575 900	625 500	600 000	-54.61	-4.08
Steam Coal	(t)	13 055 840	15 273 525	13 267 098	14 378 268	16 077 914	23.15	11.82
Nat. Gas (Mio m ³)		4 270	4 409	4 013	3 429	3 217	-24.66	-6.18
Petroleum	(t)	728 300	652 300	572 100	486 800	460 000	-36.84	-5.51
Total	(t)	19 640 619	20 864 712	18 350 870	18 913 749	20 400 092		

Poland

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nickel	(t)	660	755	710	740	830	25.76	12.16
Cadmium	(t)	305	199	485	292	250	-18.03	-14.38
Copper	(t)	401 300	398 900	392 700	391 300	392 500	-2.19	0.31
Lead	(t)	40 210	48 510	46 790	29 430	28 770	-28.45	-2.24
Rhenium	(kg)	6 290	5 770	6 580	6 401	4 367	-30.57	-31.78
Selenium	(t)	66	76	74	66	82	24.24	24.24
Zinc	(t)	43 000	40 000	43 000	0	0	-100.00	.

Abbreviations: see Definitions

Gold	(kg)	523	674	878	768	769	47.04	0.13
Palladium	(kg)	5	5	4	4	4	-20.00	0.00
Platinum	(kg)	8	8	6	5	5	-37.50	0.00
Silver	(kg)	1 264 300	1 249 000	1 218 200	1 302 900	1 315 800	4.07	0.99
Bentonite	(t)	560	500	920	500	0	-100.00	-100.00
Diatomite	(t)	580	680	810	980	1 170	101.72	19.39
Feldspar	(t)	71 480	42 160	29 440	11 110	15 030	-78.97	35.28
Gypsum	(t)	1 042 000	1 065 000	1 057 000	1 123 000	1 034 000	-0.77	-7.93
Kaolin	(t)	310 850	317 190	292 940	315 040	317 570	2.16	0.80
Magnesite	(t)	102 110	91 490	65 250	65 820	66 380	-34.99	0.85
Salt	(t)	3 830 000	3 800 000	3 460 000	3 950 000	3 883 000	1.38	-1.70
Sulfur	(t)	1 250 400	1 210 240	1 011 080	1 058 800	1 046 970	-16.27	-1.12
Steam Coal	(t)	51 336 590	49 552 170	42 111 970	42 421 560	40 464 610	-21.18	-4.61
Coking Coal	(t)	12 047 000	12 071 220	12 273 960	12 584 820	12 364 750	2.64	-1.75
Lignite	(t)	58 570 900	50 328 580	45 983 410	52 355 510	54 621 410	-6.74	4.33
Nat. Gas (Mio m ³)		4 926	4 976	4 934	4 860	4 720	-4.18	-2.88
Petroleum	(t)	937 040	936 760	911 430	858 030	816 540	-12.86	-4.84
Total	(t)	133 927 122	123 886 486	111 630 395	119 056 308	118 831 183		

Portugal

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Tungsten	(t)	716	518	553	542	448	-37.43	-17.34
Copper	(t)	49 064	41 553	32 230	39 443	32 098	-34.58	-18.62
Lead	(t)	19 440	27 852	28 178	29 526	23 347	20.10	-20.93
Lithium	(t)	914	710	280	225	210	-77.02	-6.67
Tin	(t)	111	108	104	60	60	-45.95	0.00
Zinc	(t)	144 983	161 569	176 849	188 395	182 262	25.71	-3.26
Silver	(kg)	90 760	95 270	95 954	97 945	78 412	-13.61	-19.94
Feldspar	(t)	130 475	106 754	122 969	145 362	167 673	28.51	15.35
Gypsum	(t)	232 921	209 076	210 231	254 913	191 753	-17.67	-24.78
Kaolin	(t)	374 029	311 677	320 655	387 223	410 584	9.77	6.03
Salt	(t)	100 825	112 215	97 104	94 778	125 853	24.82	32.79
Talc	(t)	10 144	12 901	9 751	8 277	4 273	-57.88	-48.38
Total	(t)	1 063 713	985 028	999 000	1 148 842	1 138 639		

Qatar

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	616 000	627 400	631 400	634 270	637 975	3.57	0.58
Sulfur	(t)	1 767 000	2 050 000	1 650 000	2 100 000	3 150 000	78.27	50.00
Nat. Gas (Mio m ³)		165 600	167 610	166 740	168 240	169 754	2.51	0.90
Petroleum	(t)	76 030 410	72 034 260	71 100 920	71 601 750	71 963 220	-5.35	0.50
Total	(t)	210 893 410	208 799 660	206 774 320	208 928 020	211 554 395		

Abbreviations: see Definitions

Romania

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	5 150	9 290	8 450	6 600	5 900	14.56	-10.61
Aluminium	(t)	282 810	280 326	271 307	293 399	191 454	-32.30	-34.75
Copper	(t)	8 555	9 180	9 130	9 240	11 550	35.01	25.00
Lead	(t)	1 200	520	510	690	300	-75.00	-56.52
Zinc	(t)	330	1 260	100	2 500	6 970	2 012.12	178.80
Gold	(kg)	900	500	500	500	500	-44.44	0.00
Silver	(kg)	18 000	18 000	18 000	18 000	18 000	0.00	0.00
Bentonite	(t)	34 809	41 964	45 495	54 648	61 165	75.72	11.93
Feldspar	(t)	20 000	20 000	20 000	20 000	20 000	0.00	0.00
Gypsum	(t)	749 668	878 546	925 782	952 617	897 176	19.68	-5.82
Kaolin	(t)	7 220	6 089	0	0	0	-100.00	.
Salt	(t)	2 374 973	2 015 579	1 175 979	1 328 738	1 461 264	-38.47	9.97
Lignite	(t)	23 647 150	21 652 320	15 030 906	17 733 034	18 200 623	-23.03	2.64
Nat. Gas	(Mio m ³)	10 278	9 959	8 914	8 938	9 060	-11.85	1.36
Petroleum	(t)	3 577 000	3 568 000	3 457 000	3 319 000	3 131 000	-12.47	-5.66
Total	(t)	38 931 284	36 450 293	28 075 878	30 870 885	31 235 421		

Russia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	64 192 000	65 726 000	65 372 000	59 375 800	56 109 000	-12.59	-5.50
Chromium	(t)	177 500	175 000	187 000	167 360	203 200	14.48	21.41
Cobalt	(t)	8 700	9 400	9 700	8 000	9 000	3.45	12.50
Manganese	(t)	8 600	5 900	28 200	10 700	16 500	91.86	54.21
Molybdenum	(t)	2 262	1 989	1 707	1 691	1 700	-24.85	0.53
Nickel	(t)	238 800	233 800	237 000	202 100	220 000	-7.87	8.86
Niobium	(t)	669	659	617	648	549	-17.94	-15.28
Tantalum	(t)	44	32	60	39	24	-45.45	-38.46
Titanium	(t)	3 000	3 600	3 300	2 900	3 200	6.67	10.34
Tungsten	(t)	2 234	2 433	2 274	2 143	2 000	-10.47	-6.67
Vanadium	(t)	17 052	18 380	19 533	20 058	21 000	23.15	4.70
Aluminium	(t)	3 774 000	3 894 400	3 928 800	3 931 000	4 014 000	6.36	2.11
Antimony	(t)	30 828	21 671	17 532	9 750	4 391	-85.76	-54.96
Arsenic	(t)	500	102	500	800	500	0.00	-37.50
Bauxite	(t)	7 057 000	6 641 000	6 647 000	6 565 000	6 712 000	-4.89	2.24
Bismuth	(t)	15	46	45	45	0	-100.00	-100.00
Cadmium	(t)	1 201	1 000	1 000	1 000	1 000	-16.74	0.00
Copper	(t)	870 500	812 400	924 100	938 800	948 000	8.90	0.98
Gallium	(t)	6	8	5	5	5	-16.67	0.00
Germanium	(t)	6	5	5	5	5	-16.67	0.00
Indium	(t)	4	6	10	10	10	150.00	0.00
Lead	(t)	206 100	207 900	200 700	212 300	220 000	6.74	3.63
Lithium	(t)	37	43	45	46	46	24.32	0.00
Mercury	(t)	50	50	30	30	10	-80.00	-66.67
Rare Earths	(t)	2 596	2 620	2 663	2 276	2 038	-21.49	-10.46
Rhenium	(kg)	1 000	1 000	2 000	2 000	2 000	100.00	0.00

Abbreviations: see Definitions

Selenium	(t)	185	193	195	230	200	8.11	-13.04
Tellurium	(t)	35	38	55	60	40	14.29	-33.33
Tin	(t)	1 531	2 471	2 559	3 317	3 507	129.07	5.73
Zinc	(t)	288 000	275 400	260 700	287 900	310 000	7.64	7.68
Gold	(kg)	279 850	305 050	308 560	313 830	320 000	14.35	1.97
Palladium	(kg)	92 570	92 910	81 990	83 640	80 870	-12.64	-3.31
Platinum	(kg)	21 370	22 430	21 740	19 840	18 660	-12.68	-5.95
Rhodium	(kg)	2 146	2 115	1 800	1 650	1 805	-15.89	9.39
Silver	(kg)	1 400 100	1 533 000	1 457 000	1 508 000	1 470 000	4.99	-2.52
Asbestos	(t)	752 917	789 600	707 811	750 000	629 000	-16.46	-16.13
Baryte	(t)	265 300	163 000	265 000	252 000	260 000	-2.00	3.17
Bentonite	(t)	714 000	720 000	720 000	500 000	535 000	-25.07	7.00
Boron	(t)	88 000	81 800	85 500	89 600	88 800	0.91	-0.89
Diam. (Gem)	(ct)	22 973 133	25 804 591	18 711 931	23 470 180	25 154 350	9.49	7.18
Diam. (Ind)	(ct)	20 187 926	19 466 621	12 474 620	15 646 790	16 769 560	-16.93	7.18
Diatomite	(t)	50 600	51 000	51 000	176 800	180 000	255.73	1.81
Feldspar	(t)	281 300	281 300	290 000	290 000	300 000	6.65	3.45
Fluorspar	(t)	6 000	4 000	32 000	76 000	76 000	1 166.67	0.00
Graphite	(t)	11 900	17 500	12 900	17 300	18 800	57.98	8.67
Gypsum	(t)	5 453 400	4 179 300	4 060 000	4 629 000	4 630 000	-15.10	0.02
Kaolin	(t)	1 485 900	1 530 800	2 478 000	2 193 800	3 000 000	101.90	36.75
Magnesite	(t)	1 571 400	1 013 800	1 281 400	1 108 700	1 327 100	-15.55	19.70
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	5 304 000	5 382 000	5 382 000	5 517 800	5 597 100	5.53	1.44
Potash	(t)	7 055 000	7 368 000	8 194 200	8 890 000	6 900 000	-2.20	-22.38
Salt	(t)	6 710 000	8 175 000	6 026 000	8 242 000	8 186 000	22.00	-0.68
Sulfur	(t)	7 170 000	7 175 000	6 850 000	4 690 900	5 989 439	-16.47	27.68
Talc	(t)	12 500	48 000	104 000	50 000	100 000	700.00	100.00
Vermiculite	(t)	25 904	29 237	28 442	39 804	35 619	37.50	-10.51
Zircon	(t)	7 400	6 300	6 000	6 650	7 850	6.08	18.05
Steam Coal	(t)	271 200 000	266 700 000	240 900 000	262 226 600	242 600 000	-10.55	-7.48
Coking Coal	(t)	89 800 000	93 900 000	88 600 000	100 800 000	105 000 000	16.93	4.17
Lignite	(t)	78 300 000	80 800 000	72 600 000	73 620 000	89 400 000	14.18	21.43
Nat. Gas (Mio m ³)		711 500	718 960	672 400	727 600	666 800	-6.28	-8.36
Petroleum	(t)	555 833 900	560 256 690	512 761 000	524 050 000	535 000 000	-3.75	2.09
Uranium	(t)	3 424	3 433	3 356	3 107	2 957	-13.64	-4.83
Total	(t)	1 678 233 106	1 691 927 271	1 567 252 824	1 652 091 012	1 612 152 492		

Russia, Asia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	17 331 800	18 403 300	18 957 900	17 219 000	15 710 500	-9.35	-8.76
Cobalt	(t)	7 850	8 450	8 700	7 000	7 900	0.64	12.86
Molybdenum	(t)	2 262	1 989	1 707	1 691	1 700	-24.85	0.53
Nickel	(t)	210 100	205 700	210 900	175 800	191 400	-8.90	8.87
Tungsten	(t)	2 234	2 433	2 274	2 143	2 000	-10.47	-6.67
Aluminium	(t)	3 632 000	3 752 900	3 788 900	3 797 800	3 880 000	6.83	2.16
Antimony	(t)	30 828	21 671	17 532	9 750	4 391	-85.76	-54.96
Arsenic	(t)	500	102	500	800	500	0.00	-37.50
Bismuth	(t)	15	46	45	45	0	-100.00	-100.00
Cadmium	(t)	1 201	1 000	1 000	1 000	1 000	-16.74	0.00
Copper	(t)	696 400	649 920	739 280	798 000	806 000	15.74	1.00
Germanium	(t)	6	5	5	5	5	-16.67	0.00
Indium	(t)	4	6	10	10	10	150.00	0.00

Abbreviations: see Definitions

Lead	(t)	206 100	207 900	200 700	212 300	220 000	6.74	3.63
Lithium	(t)	13	15	16	16	16	23.08	0.00
Mercury	(t)	50	50	30	30	10	-80.00	-66.67
Selenium	(t)	185	193	195	230	200	8.11	-13.04
Tellurium	(t)	35	38	55	60	40	14.29	-33.33
Tin	(t)	1 531	2 471	2 559	3 317	3 507	129.07	5.73
Zinc	(t)	250 560	242 350	221 600	201 500	217 000	-13.39	7.69
Gold	(kg)	274 450	300 750	301 660	306 830	313 000	14.05	2.01
Palladium	(kg)	92 570	92 910	81 990	83 640	80 870	-12.64	-3.31
Platinum	(kg)	21 370	22 430	21 740	19 840	18 660	-12.68	-5.95
Rhodium	(kg)	2 146	2 115	1 800	1 650	1 805	-15.89	9.39
Silver	(kg)	1 331 600	1 480 000	1 374 800	1 427 000	1 380 000	3.63	-3.29
Asbestos	(t)	314 217	315 300	287 371	321 000	240 000	-23.62	-25.23
Baryte	(t)	265 300	163 000	265 000	252 000	260 000	-2.00	3.17
Bentonite	(t)	499 800	492 900	500 000	470 000	500 000	0.04	6.38
Boron	(t)	88 000	81 800	85 500	89 600	88 800	0.91	-0.89
Diam. (Gem)	(ct)	17 624 988	19 525 587	16 339 353	17 278 180	19 560 000	10.98	13.21
Diam. (Ind)	(ct)	15 488 177	14 729 829	10 892 902	11 518 790	13 040 000	-15.81	13.21
Feldspar	(t)	275 700	281 300	290 000	290 000	300 000	8.81	3.45
Fluorspar	(t)	6 000	4 000	32 000	76 000	76 000	1 166.67	0.00
Graphite	(t)	11 900	17 500	12 900	17 300	18 800	57.98	8.67
Talc	(t)	12 500	38 000	42 000	40 000	57 000	356.00	42.50
Steam Coal	(t)	271 200 000	266 700 000	240 900 000	262 226 600	242 600 000	-10.55	-7.48
Coking Coal	(t)	89 800 000	93 900 000	88 600 000	100 800 000	105 000 000	16.93	4.17
Lignite	(t)	70 470 000	72 720 000	65 340 000	66 258 000	80 460 000	14.18	21.43
Nat. Gas (Mio m ³)		675 920	683 010	638 800	691 200	640 100	-5.30	-7.39
Petroleum	(t)	389 083 730	448 205 350	410 208 800	419 240 000	449 400 000	15.50	7.19
Uranium	(t)	3 424	3 433	3 356	3 107	2 957	-13.64	-4.83
Total	(t)	1 385 141 974	1 452 833 027	1 341 762 623	1 425 475 949	1 412 131 537		

Russia, Europe

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	46 860 200	47 322 700	46 414 100	42 156 800	40 398 500	-13.79	-4.17
Chromium	(t)	177 500	175 000	187 000	167 360	203 200	14.48	21.41
Cobalt	(t)	850	950	1 000	1 000	1 100	29.41	10.00
Manganese	(t)	8 600	5 900	28 200	10 700	16 500	91.86	54.21
Nickel	(t)	28 700	28 100	26 100	26 300	28 600	-0.35	8.75
Niobium	(t)	669	659	617	648	549	-17.94	-15.28
Tantalum	(t)	44	32	60	39	24	-45.45	-38.46
Titanium	(t)	3 000	3 600	3 300	2 900	3 200	6.67	10.34
Vanadium	(t)	17 052	18 380	19 533	20 058	21 000	23.15	4.70
Aluminium	(t)	142 000	141 500	139 900	133 200	134 000	-5.63	0.60
Bauxite	(t)	7 057 000	6 641 000	6 647 000	6 565 000	6 712 000	-4.89	2.24
Copper	(t)	174 100	162 480	184 820	140 800	142 000	-18.44	0.85
Gallium	(t)	6	8	5	5	5	-16.67	0.00
Lithium	(t)	24	28	29	29	29	20.83	0.00
Rare Earths	(t)	2 596	2 620	2 663	2 276	2 038	-21.49	-10.46
Rhenium	(kg)	1 000	1 000	2 000	2 000	2 000	100.00	0.00
Zinc	(t)	37 440	33 050	39 100	86 400	93 000	148.40	7.64
Gold	(kg)	5 400	4 300	6 900	7 000	7 000	29.63	0.00
Silver	(kg)	68 500	53 000	82 200	81 000	90 000	31.39	11.11

Abbreviations: see Definitions

Asbestos	(t)	438 700	474 300	420 440	429 000	389 000	-11.33	-9.32
Bentonite	(t)	214 200	227 100	220 000	30 000	35 000	-83.66	16.67
Diam. (Gem)	(ct)	5 348 145	6 279 004	2 372 578	6 192 000	5 594 350	4.60	-9.65
Diam. (Ind)	(ct)	4 699 749	4 736 792	1 581 718	4 128 000	3 729 560	-20.64	-9.65
Diatomite	(t)	50 600	51 000	51 000	176 800	180 000	255.73	1.81
Feldspar	(t)	5 600	0	0	0	0	-100.00	.
Gypsum	(t)	5 453 400	4 179 300	4 060 000	4 629 000	4 630 000	-15.10	0.02
Kaolin	(t)	1 485 900	1 530 800	2 478 000	2 193 800	3 000 000	101.90	36.75
Magnesite	(t)	1 571 400	1 013 800	1 281 400	1 108 700	1 327 100	-15.55	19.70
Perlite	(t)	45 000	45 000	45 000	45 000	45 000	0.00	0.00
Phosphates	(t)	5 304 000	5 382 000	5 382 000	5 517 800	5 597 100	5.53	1.44
Potash	(t)	7 055 000	7 368 000	8 194 200	8 890 000	6 900 000	-2.20	-22.38
Salt	(t)	6 710 000	8 175 000	6 026 000	8 242 000	8 186 000	22.00	-0.68
Sulfur	(t)	7 170 000	7 175 000	6 850 000	4 690 900	5 989 439	-16.47	27.68
Talc	(t)	0	10 000	62 000	10 000	43 000	.	330.00
Vermiculite	(t)	25 904	29 237	28 442	39 804	35 619	37.50	-10.51
Zircon	(t)	7 400	6 300	6 000	6 650	7 850	6.08	18.05
Lignite	(t)	7 830 000	8 080 000	7 260 000	7 362 000	8 940 000	14.18	21.43
Nat. Gas	(Mio m ³)	35 580	35 950	33 600	36 400	26 700	-24.96	-26.65
Petroleum	(t)	166 750 170	112 051 340	102 552 200	104 810 000	85 600 000	-48.67	-18.33
Total	(t)	293 091 131	239 094 244	225 490 201	226 615 061	200 020 954		

Rwanda

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Niobium	(t)	245	205	160	160	195	-20.41	21.88
Tantalum	(t)	380	315	240	245	300	-21.05	22.45
Tungsten	(t)	1 155	1 120	990	1 545	1 610	39.39	4.21
Beryllium	(t)	30	20	20	20	20	-33.33	0.00
Tin	(t)	3 405	2 780	2 030	2 260	3 115	-8.52	37.83
Gold	(kg)	2 163	2 000	2 000	2 000	2 000	-7.54	0.00
Total	(t)	5 217	4 442	3 442	4 232	5 242		

Saudi Arabia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	280 100	294 100	275 000	335 200	351 700	25.56	4.92
Aluminium	(t)	775 500	775 561	796 004	805 056	776 413	0.12	-3.56
Bauxite	(t)	4 906 000	5 127 000	5 227 927	5 649 000	5 930 000	20.87	4.97
Copper	(t)	59 200	66 610	75 370	75 180	74 690	26.17	-0.65
Zinc	(t)	27 100	27 270	26 790	22 710	24 660	-9.00	8.59
Gold	(kg)	13 397	12 418	13 222	11 153	12 268	-8.43	10.00
Silver	(kg)	6 480	7 123	7 479	8 604	9 464	46.05	10.00
Feldspar	(t)	175 594	216 000	523 000	621 000	652 000	271.31	4.99
Gypsum	(t)	3 352 832	3 472 000	3 803 000	3 640 000	3 822 000	13.99	5.00
Kaolin	(t)	207 461	227 000	213 000	266 000	279 000	34.48	4.89
Magnesite	(t)	155 000	200 000	250 000	250 000	176 049	13.58	-29.58

Abbreviations: see Definitions

Phosphates	(t)	1 827 000	2 275 000	2 600 000	2 730 000	2 950 000	61.47	8.06
Salt	(t)	2 646 000	2 778 000	2 220 000	2 231 000	2 342 000	-11.49	4.98
Sulfur	(t)	6 600 000	6 600 000	6 600 000	6 600 000	7 000 000	6.06	6.06
Talc	(t)	46 000	48 000	61 000	167 000	175 000	280.43	4.79
Nat. Gas	(Mio m ³)	118 000	117 000	119 000	120 485	122 895	4.15	2.00
Petroleum	(t)	576 817 650	556 564 010	519 613 000	515 878 200	574 692 000	-0.37	11.40
Total	(t)	692 275 456	672 270 570	637 484 111	635 658 366	697 561 533		

Senegal

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Manganese	(t)	3 330	1 880	6 580	4 040	13 370	301.50	230.94
Titanium	(t)	287 940	281 030	291 740	310 310	284 998	-1.02	-8.16
Gold	(kg)	12 508	14 550	12 408	14 678	15 220	21.68	3.69
Silver	(kg)	940	898	1 090	1 310	1 325	40.96	1.15
Phosphates	(t)	775 410	855 850	684 300	792 800	859 970	10.91	8.47
Salt	(t)	245 700	286 100	290 873	306 347	272 041	10.72	-11.20
Zircon	(t)	93 569	80 747	83 257	90 760	84 062	-10.16	-7.38
Nat. Gas	(Mio m ³)	11	15	14	6	4	-63.64	-33.33
Petroleum	(t)	20 300	28 500	25 280	0	0	-100.00	.
Total	(t)	1 435 063	1 546 123	1 393 243	1 509 073	1 517 657		

Serbia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Copper	(t)	44 096	43 550	52 207	121 150	203 998	362.62	68.38
Lead	(t)	9 110	9 970	8 420	6 330	6 660	-26.89	5.21
Selenium	(t)	28	20	10	4	10	-64.29	150.00
Zinc	(t)	8 230	7 510	11 480	11 310	9 960	21.02	-11.94
Gold	(kg)	839	1 452	1 550	4 794	7 290	768.89	52.07
Palladium	(kg)	55	100	100	140	110	100.00	-21.43
Platinum	(kg)	6	10	22	30	10	66.67	-66.67
Silver	(kg)	8 970	14 502	15 900	11 600	10 900	21.52	-6.03
Kaolin	(t)	279 000	254 000	234 000	249 000	301 000	7.89	20.88
Salt	(t)	7 811	13 464	6 703	6 469	5 969	-23.58	-7.73
Lignite	(t)	37 648 957	38 880 520	39 673 059	36 417 513	35 129 690	-6.69	-3.54
Nat. Gas	(Mio m ³)	450	439	409	362	328	-27.11	-9.39
Petroleum	(t)	910 712	881 000	859 226	835 319	823 280	-9.60	-1.44
Total	(t)	39 267 954	40 441 250	41 172 323	37 936 712	36 742 985		

Abbreviations: see Definitions

Sierra Leone

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	561 800	418 950	0	950 300	1 230 000	118.94	29.43
Tantalum	(t)	31	16	29	36	25	-19.35	-30.56
Titanium	(t)	145 400	165 180	135 930	149 380	161 250	10.90	7.95
Bauxite	(t)	1 938 461	1 883 863	1 342 139	1 396 678	910 344	-53.04	-34.82
Gold	(kg)	464	75	25	149	150	-67.67	0.67
Diam. (Gem)	(ct)	402 530	433 054	603 360	541 400	447 800	11.25	-17.29
Diam. (Ind)	(ct)	339 070	391 403	83 040	297 700	241 200	-28.86	-18.98
Zircon	(t)	11 400	8 500	4 564	4 100	7 200	-36.84	75.61
Total	(t)	2 657 092	2 476 509	1 482 662	2 500 494	2 308 819		

Slovakia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	173 721	174 794	151 875	163 995	71 933	-58.59	-56.14
Copper	(t)	21	17	20	76	30	42.86	-60.53
Lead	(t)	114	111	102	101	126	10.53	24.75
Zinc	(t)	151	119	96	25	65	-56.95	160.00
Gold	(kg)	515	346	336	392	399	-22.52	1.79
Silver	(kg)	345	295	269	328	354	2.61	7.93
Baryte	(t)	11 100	0	0	0	0	-100.00	.
Bentonite	(t)	269 990	260 120	261 640	274 350	302 135	11.91	10.13
Feldspar	(t)	16 800	19 100	29 100	10 000	22 900	36.31	129.00
Gypsum	(t)	55 190	58 250	72 300	66 600	54 300	-1.61	-18.47
Kaolin	(t)	34 400	24 970	30 960	38 780	24 610	-28.46	-36.54
Magnesite	(t)	1 053 900	1 015 800	787 476	781 600	592 900	-43.74	-24.14
Perlite	(t)	35 600	32 450	37 850	37 240	38 280	7.53	2.79
Talc	(t)	43 000	70 100	91 600	99 900	114 600	166.51	14.71
Lignite	(t)	1 506 940	1 474 830	986 270	1 080 562	870 764	-42.22	-19.42
Nat. Gas (Mio m ³)		90	80	70	71	58	-35.56	-18.31
Petroleum	(t)	7 522	6 331	3 790	6 130	3 680	-51.08	-39.97
Total	(t)	3 280 450	3 200 992	2 509 079	2 616 159	2 142 723		

Slovenia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	80 511	68 255	50 185	37 867	19 211	-76.14	-49.27
Bentonite	(t)	113	99	77	75	68	-39.82	-9.33
Salt	(t)	2 018	1 437	805	1 671	2 342	16.06	40.16

Abbreviations: see Definitions

Lignite	(t)	3 216 735	3 218 696	3 259 309	2 807 476	2 745 022	-14.66	-2.22
Nat. Gas	(Mio m ³)	18	8	6	6	5	-72.22	-16.67
Petroleum	(t)	769	490	385	296	127	-83.49	-57.09
Total	(t)	3 314 546	3 295 377	3 315 561	2 852 185	2 770 770		

Solomon Islands

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bauxite	(t)	1 646 200	1 234 030	841 890	0	0	-100.00	.
Gold	(kg)				0	121	.	.
Silver	(kg)				0	25	.	.
Total	(t)	1 646 200	1 234 030	841 890	0	0		

South Africa

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	48 277 430	47 064 410	36 163 000	47 554 200	41 414 300	-14.22	-12.91
Chromium	(t)	7 524 700	7 384 000	5 479 400	7 605 500	7 905 000	5.05	3.94
Cobalt	(t)	1 007	1 027	897	355	250	-75.17	-29.58
Manganese	(t)	5 641 200	6 456 400	6 029 368	7 098 396	7 113 500	26.10	0.21
Nickel	(t)	43 236	43 443	34 908	31 846	29 500	-31.77	-7.37
Titanium	(t)	911 000	1 064 000	950 000	900 000	1 050 000	15.26	16.67
Vanadium	(t)	7 691	8 062	8 584	8 799	8 872	15.36	0.83
Aluminium	(t)	714 000	717 000	717 000	714 000	718 000	0.56	0.56
Copper	(t)	46 900	52 501	29 068	44 958	49 194	4.89	9.42
Lead	(t)	35 118	42 936	28 048	31 224	40 000	13.90	28.11
Zinc	(t)	28 129	125 157	160 816	193 785	224 400	697.75	15.80
Gold	(kg)	117 144	105 185	95 786	105 036	96 400	-17.71	-8.22
Palladium	(kg)	80 629	80 684	66 264	84 336	78 155	-3.07	-7.33
Platinum	(kg)	137 053	132 989	111 993	141 626	134 750	-1.68	-4.86
Rhodium	(kg)	18 608	19 545	16 972	20 875	18 865	1.38	-9.63
Silver	(kg)	46 467	55 903	38 118	37 146	45 700	-1.65	23.03
Bentonite	(t)	173 486	105 084	85 558	98 606	103 200	-40.51	4.66
Diam. (Gem)	(ct)	4 594 990	3 373 210	4 160 000	4 494 000	4 213 000	-8.31	-6.25
Diam. (Ind)	(ct)	5 316 840	3 807 495	4 318 000	5 224 000	5 447 000	2.45	4.27
Feldspar	(t)	76 803	76 255	48 427	67 113	78 800	2.60	17.41
Fluorspar	(t)	212 000	252 974	330 000	400 000	410 000	93.40	2.50
Gypsum	(t)	321 988	277 102	205 542	277 376	265 270	-17.61	-4.36
Kaolin	(t)	23 724	27 827	20 639	29 168	10 000	-57.85	-65.72
Magnesite	(t)	9 400	8 100	8 500	5 000	8 000	-14.89	60.00
Perlite	(t)	1 000	1 000	1 000	1 000	1 000	0.00	0.00
Phosphates	(t)	720 400	639 000	461 000	767 600	674 800	-6.33	-12.09
Salt	(t)	478 285	510 012	538 355	545 942	531 100	11.04	-2.72
Sulfur	(t)	239 297	919 624	575 491	61 929	74 540	-68.85	20.36
Talc	(t)	102 142	135 430	92 318	270 944	449 600	340.17	65.94
Vermiculite	(t)	141 346	158 013	118 223	150 104	183 133	29.56	22.00
Zircon	(t)	341 304	368 336	311 800	301 000	310 000	-9.17	2.99

Abbreviations: see Definitions

Steam Coal	(t)	251 607 600	254 767 800	246 025 000	225 804 400	227 554 000	-9.56	0.77
Coking Coal	(t)	4 508 302	3 722 225	2 057 020	2 840 646	2 351 000	-47.85	-17.24
Nat. Gas	(Mio m ³)	615	658	554	44	4	-99.35	-90.91
Petroleum	(t)	23 770	29 774	31 974	15 633	6 540	-72.49	-58.17
Uranium	(t)	231	163	131	153	170	-26.41	11.11
Total	(t)	322 703 891	325 484 452	300 955 598	295 855 268	291 567 745		

South Sudan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Petroleum	(t)	7 107 700	8 448 490	8 126 230	7 515 700	6 947 860	-2.25	-7.56
Total	(t)	7 107 700	8 448 490	8 126 230	7 515 700	6 947 860		

Spain

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)			0	36 580	0	.	-100.00
Tantalum	(t)	0	18	16	19	19	.	0.00
Tungsten	(t)	856	414	238	642	396	-53.74	-38.32
Aluminium	(t)	350 000	230 000	200 000	190 000	0	-100.00	-100.00
Copper	(t)	187 714	170 556	182 678	142 381	124 949	-33.44	-12.24
Lead	(t)	9 936	11 390	11 397	10 880	9 557	-3.81	-12.16
Tin	(t)	81	101	115	255	315	288.89	23.53
Zinc	(t)	106 352	90 980	90 368	90 480	82 963	-21.99	-8.31
Gold	(kg)	1 991	1 913	1 609	1 822	1 369	-31.24	-24.86
Silver	(kg)	88 514	77 501	92 662	80 848	58 235	-34.21	-27.97
Bentonite	(t)	178 463	160 477	205 773	171 572	186 363	4.43	8.62
Diatomite	(t)	61 056	62 741	59 250	55 982	87 095	42.65	55.58
Feldspar	(t)	616 229	855 139	911 095	820 749	716 535	16.28	-12.70
Fluorspar	(t)	176 188	145 185	185 958	187 225	153 415	-12.93	-18.06
Gypsum	(t)	10 593 056	11 279 443	13 376 353	14 629 150	14 380 727	35.76	-1.70
Kaolin	(t)	474 462	463 617	274 137	303 743	277 170	-41.58	-8.75
Magnesite	(t)	738 994	634 580	626 055	703 834	676 699	-8.43	-3.86
Potash	(t)	603 812	519 644	351 918	375 779	429 893	-28.80	14.40
Salt	(t)	4 512 243	4 330 514	3 676 039	4 329 090	3 987 690	-11.63	-7.89
Sulfur	(t)	662 000	663 100	584 300	687 600	641 800	-3.05	-6.66
Talc	(t)	15 500	13 100	2 920	651	0	-100.00	-100.00
Steam Coal	(t)	645 612	0	0	0	0	-100.00	.
Lignite	(t)	1 727 513	0	0	0	0	-100.00	.
Nat. Gas	(Mio m ³)	90	135	47	38	38	-57.78	0.00
Petroleum	(t)	89 476	40 244	26 819	5 785	910	-98.98	-84.27
Total	(t)	21 821 634	19 779 323	20 803 124	22 772 880	21 786 955		

Abbreviations: see Definitions

Sri Lanka

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Titanium	(t)	35 670	25 940	11 150	28 775	18 025	-49.47	-37.36
Feldspar	(t)	70 000	65 400	50 000	60 000	50 000	-28.57	-16.67
Graphite	(t)	3 800	3 100	2 500	3 388	3 299	-13.18	-2.63
Kaolin	(t)	20 000	34 100	30 000	30 000	30 000	50.00	0.00
Phosphates	(t)	16 290	16 600	18 240	23 880	12 360	-24.13	-48.24
Salt	(t)	68 834	57 291	60 076	63 254	111 000	61.26	75.48
Zircon	(t)	785	971	419	400	268	-65.86	-33.00
Total	(t)	215 379	203 402	172 385	209 697	224 952		

Sudan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	12 960	5 950	4 300	2 700	1 450	-88.81	-46.30
Manganese	(t)	4 000	1 000	0	0	0	-100.00	.
Gold	(kg)	93 600	57 700	35 700	49 700	41 800	-55.34	-15.90
Silver	(kg)	1 000	1 000	1 000	1 000	2 000	100.00	100.00
Feldspar	(t)	36 000	17 000	25 000	6 400	10 000	-72.22	56.25
Gypsum	(t)	226 000	193 000	173 000	136 000	150 000	-33.63	10.29
Kaolin	(t)	11 000	29 000	19 700	3 700	20 000	81.82	440.54
Salt	(t)	267 000	263 000	237 000	121 000	200 000	-25.09	65.29
Talc	(t)	4 000	2 000	0	4 500	4 500	12.50	0.00
Petroleum	(t)	3 560 000	3 778 300	2 932 600	2 605 000	2 532 000	-28.88	-2.80
Total	(t)	4 121 055	4 289 309	3 391 637	2 879 351	2 917 994		

Suriname

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	26 006	24 516	21 214	18 634	19 541	-24.86	4.87
Petroleum	(t)	818 400	825 200	818 400	811 600	837 500	2.33	3.19
Total	(t)	818 426	825 225	818 421	811 619	837 520		

Sweden

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	18 405 000	19 367 200	20 112 200	19 964 200	18 799 000	2.14	-5.84
Aluminium	(t)	125 000	120 000	117 000	124 000	120 000	-4.00	-3.23
Copper	(t)	106 140	99 332	100 065	88 108	88 337	-16.77	0.26
Lead	(t)	64 751	68 635	65 402	65 404	70 339	8.63	7.55

Abbreviations: see Definitions

Selenium	(t)	59	53	69	51	20	-66.10	-60.78
Tellurium	(t)	45	41	42	41	33	-26.67	-19.51
Zinc	(t)	237 715	247 657	234 811	236 416	233 958	-1.58	-1.04
Gold	(kg)	7 866	7 972	8 249	8 805	8 054	2.39	-8.53
Silver	(kg)	443 624	419 926	400 929	428 585	422 086	-4.86	-1.52
Feldspar	(t)	28 000	25 000	27 537	28 000	25 000	-10.71	-10.71
Sulfur	(t)	416 560	347 990	339 890	375 370	375 000	-9.98	-0.10
Total	(t)	19 383 722	20 276 336	20 997 425	20 882 028	19 712 117		

Switzerland

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	330 000	330 000	320 000	330 000	330 000	0.00	0.00
Salt	(t)	530 414	477 325	324 527	512 700	422 665	-20.31	-17.56
Total	(t)	860 414	807 325	644 527	842 700	752 665		

Syria

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	66 000	70 000	70 000	70 000	100 000	51.52	42.86
Phosphates	(t)	95 000	134 000	580 000	400 000	400 000	321.05	0.00
Salt	(t)	12 000	50 000	70 000	70 000	112 000	833.33	60.00
Nat. Gas	(Mio m ³)	3 470	3 330	2 920	3 110	2 900	-16.43	-6.75
Petroleum	(t)	1 051 030	1 510 590	1 964 180	4 598 420	4 563 840	334.23	-0.75
Total	(t)	4 000 030	4 428 590	5 020 180	7 626 420	7 495 840		

Taiwan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	4	6	3	1	1	-75.00	0.00
Kaolin	(t)	20	500	404	30	0	-100.00	-100.00
Salt	(t)	78 539	76 255	77 854	77 297	78 415	-0.16	1.45
Sulfur	(t)	169 698	195 358	167 337	192 228	162 571	-4.20	-15.43
Talc	(t)	17	6	0	43	0	-100.00	-100.00
Nat. Gas	(Mio m ³)	198	167	105	110	96	-51.52	-12.73
Petroleum	(t)	4 000	3 300	1 860	2 110	1 600	-60.00	-24.17
Total	(t)	410 674	409 019	331 455	359 708	319 386		

Abbreviations: see Definitions

Tajikistan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	95 800	100 800	84 000	61 000	62 000	-35.28	1.64
Antimony	(t)	28 890	29 900	24 070	24 110	14 500	-49.81	-39.86
Copper	(t)	8 490	8 500	978	4 480	19 240	126.62	329.46
Lead	(t)	47 140	52 720	33 282	48 058	47 510	0.78	-1.14
Mercury	(t)	120	91	178	311	326	171.67	4.82
Zinc	(t)	82 330	78 150	48 416	70 573	59 055	-28.27	-16.32
Gold	(kg)	6 432	8 100	8 764	9 330	9 225	43.42	-1.13
Silver	(kg)	9 500	11 100	11 350	11 500	11 000	15.79	-4.35
Fluorspar	(t)	400	1 000	10 000	10 000	2 000	400.00	-80.00
Gypsum	(t)	9 639	14 000	8 183	10 000	10 000	3.75	0.00
Salt	(t)	36 964	35 324	26 637	26 169	37 000	0.10	41.39
Steam Coal	(t)	1 907 055	2 027 790	2 023 000	2 080 000	2 394 000	25.53	15.10
Nat. Gas	(Mio m ³)	1	1	1	1	1	0.00	0.00
Petroleum	(t)	23 939	23 293	24 400	24 635	24 860	3.85	0.91
Total	(t)	2 241 583	2 372 387	2 283 964	2 360 157	2 671 311		

Tanzania

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)		0	14 200	39 100	25 500	.	-34.78
Bauxite	(t)	7	0	25 995	38 142	40 921	584 485.71	7.29
Copper	(t)	1 500	1 500	1 706	1 521	3 097	106.47	103.62
Tin	(t)	6	18	35	158	404	6 633.33	155.70
Gold	(kg)	39 304	48 408	55 805	59 638	56 943	44.88	-4.52
Silver	(kg)	12 041	12 550	13 187	9 324	13 602	12.96	45.88
Diam. (Gem)	(ct)	324 105	354 240	125 110	53 165	375 715	15.92	606.70
Diam. (Ind)	(ct)	57 195	62 510	22 080	9 380	66 300	15.92	606.82
Gypsum	(t)	241 260	256 529	443 926	598 053	604 408	150.52	1.06
Kaolin	(t)	129 383	15 343	98 454	100 950	46 973	-63.69	-53.47
Phosphates	(t)	650	5 050	6 240	5 390	5 850	800.00	8.53
Salt	(t)	36 600	99 510	83 974	112 995	181 818	396.77	60.91
Steam Coal	(t)	627 652	712 136	689 959	976 319	2 511 419	300.13	157.23
Nat. Gas	(Mio m ³)	1 675	1 807	1 616	1 838	2 239	33.67	21.82
Total	(t)	2 377 109	2 535 747	2 657 358	3 343 097	5 211 661		

Thailand

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	0	10 950	70 210	201 450	117 800	.	-41.52
Manganese	(t)	1 920	2 305	670	0	320	-83.33	.
Titanium	(t)	23	64	84	36	1	-95.65	-97.22
Tungsten	(t)	65	22	57	58	60	-7.69	3.45

Abbreviations: see Definitions

Tin	(t)	47	46	198	220	85	80.85	-61.36
Baryte	(t)	67 490	33 644	22 394	4 988	6 509	-90.36	30.49
Feldspar	(t)	1 117 803	1 251 143	1 105 344	1 346 997	1 953 918	74.80	45.06
Fluorspar	(t)	16 700	22 247	9 807	9 766	59 243	254.75	506.63
Gypsum	(t)	11 197 657	9 787 287	9 279 119	10 402 998	9 847 562	-12.06	-5.34
Kaolin	(t)	110 437	92 414	87 320	124 798	86 076	-22.06	-31.03
Perlite	(t)	5 600	15 000	3 500	3 500	2 500	-55.36	-28.57
Salt	(t)	1 487 364	1 580 390	1 439 877	1 563 970	1 737 090	16.79	11.07
Talc	(t)	58 676	14 564	38 146	31 950	30 369	-48.24	-4.95
Lignite	(t)	14 851 950	14 071 710	13 250 574	14 221 573	13 641 283	-8.15	-4.08
Nat. Gas	(Mio m ³)	36 454	37 450	33 799	33 117	27 368	-24.92	-17.36
Petroleum	(t)	11 361 670	11 362 210	10 077 510	8 820 540	7 134 630	-37.20	-19.11
Total	(t)	69 440 602	68 203 996	62 424 010	63 226 444	56 511 846		

Togo

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gold	(kg)	10 000	8 227	3 565	3 600	3 600	-64.00	0.00
Diam. (Ind)	(ct)	0	16	2	0	0	.	.
Phosphates	(t)	370 810	260 320	488 900	538 860	570 460	53.84	5.86
Total	(t)	370 820	260 328	488 904	538 864	570 464		

Trinidad and Tobago

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Nat. Gas	(Mio m ³)	35 005	35 545	30 230	25 425	26 735	-23.63	5.15
Petroleum	(t)	4 122 240	3 869 080	3 600 510	3 652 900	3 524 510	-14.50	-3.51
Total	(t)	32 126 240	32 305 080	27 784 510	23 992 900	24 912 510		

Tunisia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	95 000	100 700	93 400	143 900	140 000	47.37	-2.71
Baryte	(t)	10 000	10 000	10 000	11 100	10 000	0.00	-9.91
Gypsum	(t)	984 031	946 892	890 000	908 130	900 000	-8.54	-0.90
Phosphates	(t)	812 800	1 124 700	911 800	1 080 700	1 033 300	27.13	-4.39
Salt	(t)	2 116 972	1 966 528	1 666 075	1 889 614	1 900 000	-10.25	0.55
Nat. Gas	(Mio m ³)	1 950	1 780	1 850	2 240	2 030	4.10	-9.38
Petroleum	(t)	2 027 230	1 859 060	1 726 250	2 079 000	1 757 000	-13.33	-15.49
Total	(t)	7 606 033	7 431 880	6 777 525	7 904 444	7 364 300		

Abbreviations: see Definitions

Türkiye

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	9 546 700	8 828 800	13 087 300	9 791 300	11 928 200	24.95	21.82
Chromium	(t)	1 146 600	1 528 700	1 087 400	1 227 900	1 460 300	27.36	18.93
Cobalt	(t)	259	115	250	2 400	2 100	710.81	-12.50
Manganese	(t)	29 900	39 900	35 600	30 300	36 900	23.41	21.78
Molybdenum	(t)	450	0	0	0	0	-100.00	.
Nickel	(t)	13 560	4 740	20 200	11 650	14 540	7.23	24.81
Titanium	(t)	6 175	6 130	6 455	7 080	6 860	11.09	-3.11
Aluminium	(t)	73 291	78 100	79 600	79 200	80 000	9.15	1.01
Antimony	(t)	3 570	3 815	2 570	4 210	10 640	198.04	152.73
Bauxite	(t)	678 138	2 255 480	2 399 680	2 764 873	2 072 968	205.69	-25.02
Copper	(t)	87 000	73 300	107 000	108 100	115 000	32.18	6.38
Lead	(t)	75 990	71 480	81 520	93 660	81 650	7.45	-12.82
Zinc	(t)	184 500	146 800	136 300	180 500	184 800	0.16	2.38
Gold	(kg)	27 100	39 000	42 100	39 290	31 020	14.46	-21.05
Silver	(kg)	202 400	241 590	98 270	162 670	143 260	-29.22	-11.93
Baryte	(t)	465 138	413 811	283 161	256 076	344 322	-25.97	34.46
Bentonite	(t)	1 331 955	1 533 547	1 658 837	2 020 356	2 018 993	51.58	-0.07
Boron	(t)	2 432 000	2 040 000	1 680 000	2 540 000	2 590 000	6.50	1.97
Diatomite	(t)	242 789	220 757	100 327	207 732	237 267	-2.27	14.22
Feldspar	(t)	11 474 040	9 447 810	10 050 911	12 936 959	15 781 540	37.54	21.99
Fluorspar	(t)	6 200	14 400	19 896	10 348	17 252	178.26	66.72
Graphite	(t)	16 752	9 990	15 205	28 336	27 715	65.44	-2.19
Gypsum	(t)	10 896 476	7 489 129	9 280 864	10 620 061	10 679 212	-1.99	0.56
Kaolin	(t)	1 515 609	1 283 776	1 224 746	1 748 014	2 289 367	51.05	30.97
Magnesite	(t)	1 958 847	1 496 081	1 560 818	1 927 280	1 820 068	-7.08	-5.56
Perlite	(t)	1 088 983	1 174 486	1 146 341	1 428 695	1 319 432	21.16	-7.65
Phosphates	(t)	0	94 600	261 900	287 100	289 000	.	0.66
Salt	(t)	6 298 705	6 961 015	7 698 018	7 843 502	9 085 711	44.25	15.84
Sulfur	(t)	250 000	242 600	117 400	120 600	132 700	-46.92	10.03
Talc	(t)	284 216	92 077	143 470	220 350	43 196	-84.80	-80.40
Vermiculite	(t)	18 183	1 370	19 230	3 300	21 230	16.76	543.33
Zircon	(t)	1 950	0	0	0	0	-100.00	.
Steam Coal	(t)	2 160 520	2 695 628	2 457 720	2 288 148	647 117	-70.05	-71.72
Coking Coal	(t)	692 130	698 870	617 280	619 565	759 996	9.81	22.67
Lignite	(t)	81 084 000	83 694 600	71 637 000	83 558 680	80 928 800	-0.19	-3.15
Nat. Gas (Mio m ³)		436	483	458	415	408	-6.42	-1.69
Petroleum	(t)	2 850 828	2 984 800	3 202 924	3 441 659	3 583 040	25.68	4.11
Total	(t)	137 264 483	136 013 388	130 586 463	146 740 136	148 936 490		

Turkmenistan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Bentonite	(t)	10 000	10 000	10 000	10 000	10 000	0.00	0.00
Potash	(t)	15 200	11 100	16 000	19 000	26 500	74.34	39.47
Salt	(t)	100 000	100 000	94 600	96 000	96 480	-3.52	0.50
Sulfur	(t)	480 000	330 000	470 000	590 000	320 000	-33.33	-45.76

Abbreviations: see Definitions

Nat. Gas (Mio m ³)		70 000	71 000	67 960	83 773	82 700	18.14	-1.28
Petroleum (t)		10 640 000	10 420 000	9 490 000	10 961 000	10 756 800	1.10	-1.86
Total (t)		67 245 200	67 671 100	64 448 600	78 694 400	77 369 780		

Uganda

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron (t)		2 700	0	0	34 300	61 600	2 181.48	79.59
Niobium (t)		2	3	52	9	0	-100.00	-100.00
Tungsten (t)		113	87	7	25	38	-66.37	52.00
Beryllium (t)		24	15	186	35	35	45.83	0.00
Tin (t)		53	15	0	7	0	-100.00	-100.00
Gold (kg)		12	7	10	13	8	-33.33	-38.46
Diatomite (t)			0	96	433	21	.	-95.15
Feldspar (t)				0	95	1 388	.	1 361.05
Kaolin (t)		17 281	10 448	12 014	10 264	226	-98.69	-97.80
Vermiculite (t)		10 413	9 674	14 170	21 754	22 947	120.37	5.48
Total (t)		30 586	20 242	26 525	66 922	86 255		

Ukraine

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron (t)		38 751 300	47 584 000	49 274 000	52 431 000	22 354 000	-42.31	-57.36
Manganese (t)		682 700	686 100	698 500	652 300	372 800	-45.39	-42.85
Titanium (t)		518 950	564 050	537 430	489 200	180 000	-65.31	-63.21
Gallium (t)		6	5	4	1	0	-100.00	-100.00
Germanium (t)		1	1	1	1	0	-100.00	-100.00
Bentonite (t)		178 200	124 700	125 000	125 000	50 000	-71.94	-60.00
Feldspar (t)		50 000	60 000	50 000	60 000	30 000	-40.00	-50.00
Graphite (t)		15 000	10 000	10 000	17 000	846	-94.36	-95.02
Gypsum (t)		1 386 400	1 409 400	1 529 000	1 783 300	1 000 000	-27.87	-43.92
Kaolin (t)		2 091 525	1 843 561	1 680 891	2 317 723	1 000 000	-52.19	-56.85
Salt (t)		2 191 619	2 092 795	2 075 000	1 900 000	500 000	-77.19	-73.68
Sulfur (t)		222 200	220 400	223 500	255 600	150 000	-32.49	-41.31
Zircon (t)		21 614	18 000	16 000	28 800	14 100	-34.76	-51.04
Steam Coal (t)		21 648 100	19 747 200	17 733 500	22 153 000	4 500 000	-79.21	-79.69
Coking Coal (t)		4 606 300	5 783 200	6 434 800	7 234 000	2 480 000	-46.16	-65.72
Nat. Gas (Mio m ³)		20 806	20 520	20 183	19 757	18 500	-11.08	-6.36
Petroleum (t)		2 293 300	2 453 600	2 430 800	2 455 400	527 800	-76.99	-78.50
Uranium (t)		1 390	944	877	536	142	-89.78	-73.51
Total (t)		91 303 405	99 013 956	98 965 703	107 708 461	47 959 688		

Abbreviations: see Definitions

United Arab Emirates

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Aluminium	(t)	2 640 000	2 579 000	2 505 000	2 577 680	2 650 000	0.38	2.81
Sulfur	(t)	5 300 000	5 980 000	5 500 000	5 950 000	6 105 000	15.19	2.61
Nat. Gas	(Mio m ³)	52 920	56 197	50 551	58 346	57 996	9.59	-0.60
Petroleum	(t)	175 958 530	179 898 440	165 945 480	163 436 800	181 116 570	2.93	10.82
Total	(t)	226 234 530	233 415 040	214 391 280	218 641 280	236 268 370		

United Kingdom

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Tungsten	(t)	890	0	0	0	0	-100.00	.
Aluminium	(t)	44 400	39 400	35 700	37 571	38 000	-14.41	1.14
Lead	(t)	100	150	100	100	100	0.00	0.00
Tin	(t)	220	0	0	0	0	-100.00	.
Gold	(kg)	0	50	28	79	266	.	236.71
Silver	(kg)	0	130	100	358	1 328	.	270.95
Baryte	(t)	50 000	46 000	46 000	27 000	27 000	-46.00	0.00
Fluorspar	(t)	11 000	14 000	15 000	16 674	10 000	-9.09	-40.03
Gypsum	(t)	1 400 000	1 600 000	1 300 000	2 400 000	2 400 000	71.43	0.00
Kaolin	(t)	996 000	715 000	635 000	735 000	715 000	-28.21	-2.72
Potash	(t)	291 100	88 480	99 260	110 460	133 420	-54.17	20.79
Salt	(t)	3 430 266	2 377 765	2 327 965	2 687 483	2 587 790	-24.56	-3.71
Sulfur	(t)	129 000	130 000	106 000	107 000	107 000	-17.05	0.00
Talc	(t)	1 640	3 131	1 386	1 397	1 300	-20.73	-6.94
Steam Coal	(t)	1 996 860	1 849 060	1 166 420	717 080	457 050	-77.11	-36.26
Coking Coal	(t)	785 470	742 340	506 870	336 740	193 890	-75.32	-42.42
Nat. Gas	(Mio m ³)	40 736	39 386	39 433	32 570	37 737	-7.36	15.86
Petroleum	(t)	51 550 700	52 856 200	49 361 500	41 162 470	38 036 800	-26.21	-7.59
Total	(t)	93 276 446	91 970 326	87 147 601	74 394 975	74 896 951		

United States

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	31 185 000	29 547 000	24 100 000	30 100 000	24 687 000	-20.84	-17.98
Cobalt	(t)	480	500	600	650	500	4.17	-23.08
Molybdenum	(t)	41 400	43 600	51 100	41 100	34 600	-16.43	-15.82
Nickel	(t)	17 600	13 500	16 700	18 400	17 500	-0.57	-4.89
Titanium	(t)	100 000	100 000	100 000	100 000	200 000	100.00	100.00
Vanadium	(t)	0	460	17	0	0	.	.
Aluminium	(t)	896 652	1 126 032	1 026 617	907 846	872 270	-2.72	-3.92
Bauxite	(t)	399 700	154 900	16 440	0	12 580	-96.85	.
Beryllium	(t)	4 170	4 050	4 160	4 380	4 330	3.84	-1.14
Cadmium	(t)	73	131	211	241	212	190.41	-12.03

Abbreviations: see Definitions

Copper	(t)	1 220 000	1 260 000	1 200 000	1 230 000	1 300 000	6.56	5.69
Germanium	(t)	2	2	2	2	2	0.00	0.00
Lead	(t)	280 000	266 000	297 000	286 000	264 000	-5.71	-7.69
Lithium	(t)	1 500	1 450	1 220	2 505	1 640	9.33	-34.53
Mercury	(t)	15	15	15	15	15	0.00	0.00
Rare Earths	(t)	14 000	27 620	38 503	42 413	42 499	203.56	0.20
Rhenium	(kg)	8 220	8 360	8 830	9 290	8 870	7.91	-4.52
Selenium	(t)	152	144	66	112	120	-21.05	7.14
Tellurium	(t)	0	2	2	10	10	.	0.00
Zinc	(t)	824 000	753 000	723 000	704 000	761 000	-7.65	8.10
Gold	(kg)	225 528	201 000	193 400	187 000	173 000	-23.29	-7.49
Palladium	(kg)	14 267	14 323	14 555	13 725	10 096	-29.24	-26.44
Platinum	(kg)	4 165	4 152	4 203	4 017	3 003	-27.90	-25.24
Rhodium	(kg)	100	100	100	100	100	0.00	0.00
Silver	(kg)	934 000	981 000	1 080 000	1 020 000	1 010 000	8.14	-0.98
Baryte	(t)	366 000	414 000	125 409	257 450	361 582	-1.21	40.45
Bentonite	(t)	4 570 000	4 520 000	4 250 000	4 580 000	4 580 000	0.22	0.00
Boron	(t)	1 075 000	1 030 000	830 000	900 000	1 160 000	7.91	28.89
Diatomite	(t)	957 000	768 000	822 000	998 000	827 000	-13.58	-17.13
Feldspar	(t)	550 000	450 000	420 000	380 000	540 000	-1.82	42.11
Gypsum	(t)	21 100 000	21 600 000	21 300 000	20 800 000	22 300 000	5.69	7.21
Kaolin	(t)	5 350 000	5 120 000	4 640 000	4 360 000	4 340 000	-18.88	-0.46
Magnesite	(t)	238 828	294 590	419 076	442 976	357 811	49.82	-19.23
Perlite	(t)	504 000	629 000	853 000	879 000	672 000	33.33	-23.55
Phosphates	(t)	7 250 000	6 547 000	6 604 000	6 070 000	5 564 000	-23.26	-8.34
Potash	(t)	520 000	510 000	460 000	480 000	430 000	-17.31	-10.42
Salt	(t)	43 900 000	44 800 000	42 600 000	39 300 000	41 000 000	-6.61	4.33
Sulfur	(t)	9 670 000	8 710 000	7 890 000	8 060 000	8 640 000	-10.65	7.20
Talc	(t)	648 000	578 000	491 000	577 000	511 000	-21.14	-11.44
Vermiculite	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Zircon	(t)	100 000	30 000	30 000	30 000	20 000	-80.00	-33.33
Steam Coal	(t)	562 012 600	521 540 300	394 850 100	429 228 900	439 784 100	-21.75	2.46
Coking Coal	(t)	71 948 200	64 168 100	50 358 700	56 084 900	55 280 200	-23.17	-1.43
Lignite	(t)	51 744 500	48 255 700	44 783 600	42 968 700	43 115 700	-16.68	0.34
Nat. Gas (Mio m ³)		871 440	959 920	957 430	977 770	1 029 410	18.13	5.28
Petroleum	(t)	723 520 700	809 798 800	776 781 100	782 355 100	835 099 700	15.42	6.74
Uranium	(t)	657	79	7	9	88	-86.61	877.78
Total	(t)	2 238 263 415	2 341 099 183	2 152 128 946	2 214 506 943	2 316 410 664		

Uruguay

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 520	2 510	1 240	3 310	2 220	-11.90	-32.93
Gold	(kg)	393	0	0	0	0	-100.00	.
Bentonite	(t)	7 760	6 730	16 550	19 710	21 574	178.02	9.46
Feldspar	(t)	380	100	210	240	300	-21.05	25.00
Talc	(t)	420	50	520	570	1 162	176.67	103.86
Total	(t)	11 080	9 390	18 520	23 830	25 256		

Abbreviations: see Definitions

Uzbekistan

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Molybdenum	(t)	750	800	760	1 282	1 177	56.93	-8.19
Tungsten	(t)	97	100	20	25	34	-64.95	36.00
Bismuth	(t)	0	2	2	2	3	.	50.00
Cadmium	(t)	237	250	450	470	500	110.97	6.38
Copper	(t)	117 000	137 300	142 800	148 500	148 520	26.94	0.01
Indium	(t)	1	1	1	1	1	0.00	0.00
Lead	(t)	21 300	19 100	18 400	30 500	17 200	-19.25	-43.61
Rhenium	(kg)	500	800	1 000	2 370	3 000	500.00	26.58
Selenium	(t)	28	30	40	90	35	25.00	-61.11
Tellurium	(t)	2	2	3	5	3	50.00	-40.00
Zinc	(t)	38 400	35 400	37 200	42 000	42 000	9.38	0.00
Gold	(kg)	92 716	100 900	100 000	100 360	105 540	13.83	5.16
Palladium	(kg)	0	28	91	160	93	.	-41.88
Silver	(kg)	161 700	172 000	196 000	211 500	217 725	34.65	2.94
Bentonite	(t)	12 559	32 588	48 739	59 053	60 000	377.75	1.60
Kaolin	(t)	291 814	377 184	373 440	413 910	441 900	51.43	6.76
Phosphates	(t)	144 000	137 100	150 500	158 700	160 100	11.18	0.88
Potash	(t)	176 900	198 400	210 000	197 600	228 000	28.89	15.38
Steam Coal	(t)	160 000	245 168	246 800	258 100	264 800	65.50	2.60
Lignite	(t)	4 014 400	3 807 600	3 869 375	4 781 193	5 073 900	26.39	6.12
Nat. Gas	(Mio m ³)	61 585	60 712	49 768	53 802	51 678	-16.09	-3.95
Petroleum	(t)	2 890 915	2 815 400	2 030 400	2 098 040	2 075 026	-28.22	-1.10
Uranium	(t)	4 062	4 127	4 127	4 158	4 198	3.35	0.96
Total	(t)	57 140 721	56 380 426	46 947 754	51 235 543	49 860 124		

Venezuela

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	2 017 500	2 062 800	1 159 000	1 372 500	4 575 000	126.77	233.33
Aluminium	(t)	64 700	10 000	9 996	38 340	8 430	-86.97	-78.01
Bauxite	(t)	92 000	50 000	0	22 000	770 000	736.96	3 400.00
Gold	(kg)	9 100	9 100	9 000	9 000	9 000	-1.10	0.00
Diam. (Gem)	(ct)	800	0	794	457	1 665	108.13	264.33
Diam. (Ind)	(ct)	1 200	0	0	0	0	-100.00	.
Feldspar	(t)	30 000	30 000	30 000	30 000	30 000	0.00	0.00
Phosphates	(t)	16 800	21 500	20 000	20 000	10 000	-40.48	-50.00
Salt	(t)	600 000	600 000	500 000	300 000	350 000	-41.67	16.67
Sulfur	(t)	700 000	500 000	300 000	300 000	300 000	-57.14	0.00

Abbreviations: see Definitions

Steam Coal	(t)	100 000	379 907	683 583	223 660	196 730	96.73	-12.04
Nat. Gas	(Mio m ³)	31 619	25 576	21 561	28 059	29 178	-7.72	3.99
Oil Sands*	(t)	20 000 000	18 000 000	14 900 000	15 000 000	18 000 000	-10.00	20.00
Petroleum	(t)	84 296 810	52 747 340	33 566 730	34 360 750	37 306 030	-55.74	8.57
Total	(t)	113 213 019	76 862 356	53 518 118	59 114 459	66 888 599		

*Oil Sands as part of Petroleum

Vietnam

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Iron	(t)	3 353 100	3 663 400	2 136 200	1 850 300	1 105 800	-67.02	-40.24
Manganese	(t)	115 100	106 000	121 100	147 000	155 000	34.67	5.44
Titanium	(t)	122 250	112 680	139 760	156 000	172 380	41.01	10.50
Tungsten	(t)	4 881	4 816	5 970	11 735	10 817	121.61	-7.82
Antimony	(t)	245	396	312	268	252	2.86	-5.97
Bauxite	(t)	3 569 700	3 700 000	3 610 000	4 100 000	4 000 000	12.05	-2.44
Bismuth	(t)	2 639	917	993	2 067	1 938	-26.56	-6.24
Copper	(t)	25 300	29 240	30 780	33 930	34 710	37.19	2.30
Lead	(t)	14 500	12 500	14 100	16 350	20 560	41.79	25.75
Tin	(t)	5 521	6 071	7 260	7 666	8 139	47.42	6.17
Zinc	(t)	12 000	13 000	11 150	10 700	14 420	20.17	34.77
Gold	(kg)	570	540	559	664	1 114	95.44	67.77
Silver	(kg)	0	500	555	670	1 451	.	116.57
Baryte	(t)	50 000	43 000	51 500	39 600	42 000	-16.00	6.06
Fluorspar	(t)	238 700	238 003	219 920	215 027	217 975	-8.68	1.37
Graphite	(t)	1 500	3 500	3 700	1 200	500	-66.67	-58.33
Kaolin	(t)	100 000	100 000	100 000	100 000	100 000	0.00	0.00
Phosphates	(t)	1 299 660	1 346 880	606 650	813 960	754 140	-41.97	-7.35
Salt	(t)	996 500	945 000	1 134 600	1 208 100	987 000	-0.95	-18.30
Zircon	(t)	10 500	6 600	10 700	30 400	16 500	57.14	-45.72
Steam Coal	(t)	42 384 000	47 158 000	44 598 400	48 315 600	49 854 700	17.63	3.19
Nat. Gas	(Mio m ³)	10 010	10 200	9 160	7 460	8 080	-19.28	8.31
Petroleum	(t)	11 989 000	11 043 000	9 650 000	9 100 000	8 980 000	-25.10	-1.32
Total	(t)	72 303 097	76 693 005	69 781 097	72 127 905	72 940 833		

Yemen

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Gypsum	(t)	50 000	20 000	20 000	20 000	20 000	-60.00	0.00
Salt	(t)	50 000	50 000	50 000	50 000	50 000	0.00	0.00
Nat. Gas	(Mio m ³)	100	100	130	200	200	100.00	0.00
Petroleum	(t)	3 853 400	3 967 300	3 588 000	3 289 000	3 180 350	-17.47	-3.30
Total	(t)	4 033 400	4 117 300	3 762 000	3 519 000	3 410 350		

Abbreviations: see Definitions

Zambia

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Cobalt	(t)	1 766	1 271	316	247	252	-85.73	2.02
Manganese	(t)	37 800	11 970	20 000	56 860	69 490	83.84	22.21
Nickel	(t)	0	2 500	2 760	3 672	3 946	.	7.46
Beryllium	(t)	7	7	2	6	7	0.00	16.67
Copper	(t)	857 847	796 430	882 061	830 357	795 141	-7.31	-4.24
Gold	(kg)	4 044	4 522	3 994	3 987	3 409	-15.70	-14.50
Sulfur	(t)	947 800	960 200	917 300	691 900	640 800	-32.39	-7.39
Steam Coal	(t)	344 717	361 648	446 153	663 345	823 450	138.88	24.14
Total	(t)	2 189 941	2 134 031	2 268 596	2 246 391	2 333 089		

Zimbabwe

		2018	2019	2020	2021	2022	Change 18/22	Change 21/22
Chromium	(t)	402 600	720 330	572 460	644 400	670 860	66.63	4.11
Cobalt	(t)	403	402	956	298	241	-40.20	-19.13
Nickel	(t)	17 850	16 918	16 480	16 213	14 260	-20.11	-12.05
Tungsten	(t)	16	37	30	8	18	12.50	125.00
Copper	(t)	9 077	8 731	7 933	8 650	10 168	12.02	17.55
Lithium	(t)	3 160	2 650	860	1 670	3 540	12.03	111.98
Gold	(kg)	35 054	29 429	20 873	31 477	37 265	6.31	18.39
Palladium	(kg)	12 094	11 640	12 890	12 619	13 935	15.22	10.43
Platinum	(kg)	14 703	13 857	15 004	14 732	16 460	11.95	11.73
Rhodium	(kg)	1 334	1 224	1 368	1 334	1 461	9.52	9.52
Silver	(kg)	1 542	1 500	1 522	2 677	1 545	0.19	-42.29
Diam. (Gem)	(ct)	975 730	423 840	534 090	844 860	968 800	-0.71	14.67
Diam. (Ind)	(ct)	2 276 690	1 695 350	2 136 370	3 379 440	3 875 220	70.21	14.67
Phosphates	(t)	15 400	8 100	13 500	11 900	6 600	-57.14	-44.54
Vermiculite	(t)	33 161	25 524	26 388	27 713	26 380	-20.45	-4.81
Steam Coal	(t)	3 049 730	2 428 370	2 328 030	1 716 120	2 212 880	-27.44	28.95
Coking Coal	(t)	297 770	301 550	422 860	1 529 890	1 972 540	562.44	28.93
Total	(t)	3 829 233	3 512 670	3 389 549	3 956 926	4 917 558		

Abbreviations: see Definitions

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