Layers of possibilities



Individual Investor Day

Lubin, 27-28 September 2022

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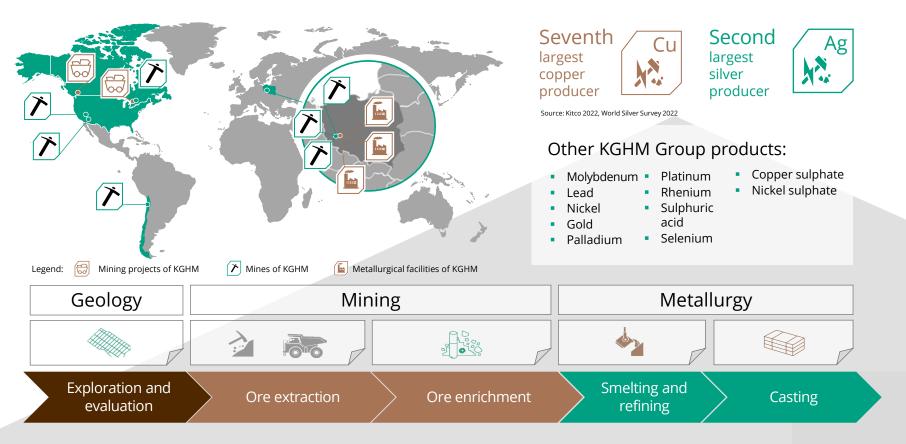
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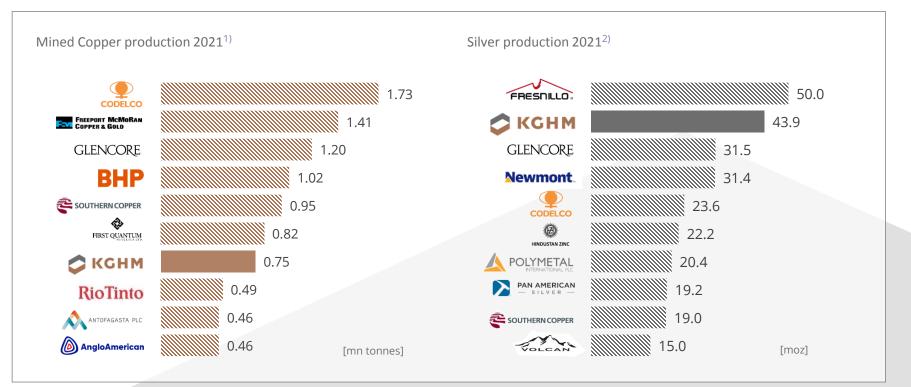


KGHM Group globally

Our location



KGHM among the biggest copper and silver producers



1) KITCO, April 2022
 2) World Silver Survey 2022



The KGHM Group offers a diversified portfolio of products

Main products

Copper products



Precious metals



Silver bars



Gold bars



Silver granules



Molybdenum oxides



Molybdenum

concentrate

Other



Copper, nickel and TPM ore



In addition, rock salt, sulphuric acid, lead, rhenium and others

ESG – an additional challenge for WSE-listed companies

KGHM fully supports initiatives related to the global challenge of sustainable development and the reporting of ESG data:

Environmental: counteracting climate change, adapting to climate change, water security, biodiversity and ecosystems

Social: safety, ethics, employees, supply chain employees, suppliers, customers and other stakeholders

Governance: corporate governance, ethics, organisation and management

We are cognizant of our obligations and responsibilities associated with sustainable development. For many years we have been developing and implementing appropriate rules and regulations in the form of Codes and Policies which reflect our commitment and approach to our social and natural environment, such as:

ESG reporting in compliance with laws in force and Best Practice as set forth among others in:



The Climate Policy - 2021



The Environmental Policy - 2021 update











Motion experiment of end comparison and end of the end

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treation of the threageness to



HUMAN RIGHTS POLICY



The Copper Mark[®]

The Copper Mark[®] was created to promote responsible copper production. The prolongation of this certification enables KGHM's products to continue being registered (copper cathodes and lead products) on the London Metal Exchange.

The Copper Smelters and Refineries in Głogów and Legnica joined the Copper Mark[®] program in 2020. International experts reviewed the compliance of the business processes in these divisions of KGHM with 32 criteria required for the granting of the Copper Mark[®]. Amongst the areas assessed were actions involving environmental protection, the supply chains for metals, working conditions, risk management practices and cooperation with local communities. This year a follow-up assessment was conducted to assess compliance with the Copper Mark[®] certificate.

- > Głogów Copper Smelter/Refinery certified 2021, follow-up assessment 2022
- **Legnica Copper Smelter/Refinery** certified 2021, follow-up assessment 2022
- > Cedynia Wire Rod Plant preparations to become certified underway



THE COPPER MARK

| RESPONSIBLY | PRODUCED | COPPER

The Copper Mark[®] arose to enable a better understanding of, and to deal with, the growing demands for independently verified, responsible production practices as well as to make a positive contribution to sustainable development. It is a voluntary program for companies in the copper industry which thereby have the opportunity to receive their own quality assurance certification. Companies which successfully pass the requirements may utilise the Copper Mark[®] in their corporate publications, in contracts and on their copper products.

The 32 topics covered by The Copper Mark[®] include:

- Forced Labor
- Gender Equality
- Occupational Health and Safety
- Freshwater Management and Conservation
- Waste Management

The full Summary Reports are available at The Copper Mark[®] website:

https://coppermark.org/participants-home/participants/

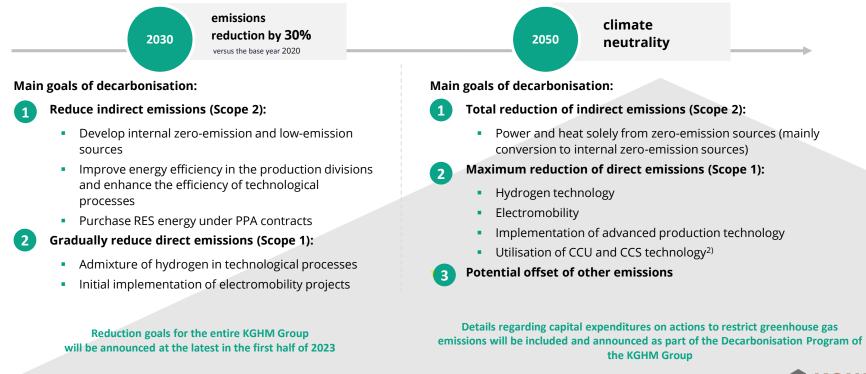
- Biodiversity and Protected Areas
- Community Development
- Human Rights
- Indigenous Peoples' Rights
- Cultural Heritage



Climate neutrality by 2050

9

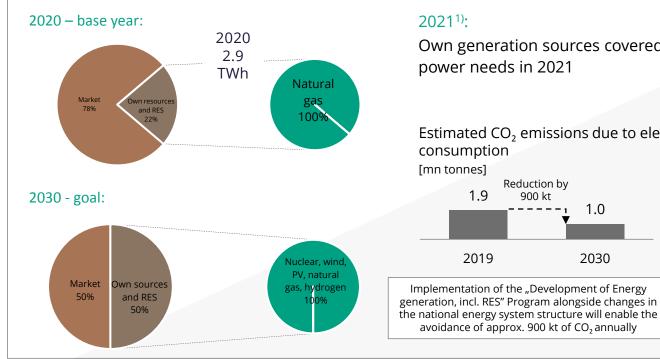
Achieving climate neutrality by 2050 is the overriding goal of the Climate Policy of KGHM Polska Miedź S.A. Intermediate goal – the reduction of total Scope 1 and Scope 2 emissions by 2030 by 30%¹⁾





By 2030 the increase in share of RES will lead to a substantial reduction in CO2 emissions

Share of power source in supplies to KGHM Polska Miedź S.A.



2021¹⁾:

[mn tonnes]

1.9

2019

Own generation sources covered 18.70% of KGHM's total power needs in 2021

Estimated CO₂ emissions due to electricty consumption

1.0

2030

Reduction by

900 kt

Implementation of the "Development of Energy

avoidance of approx. 900 kt of CO, annually

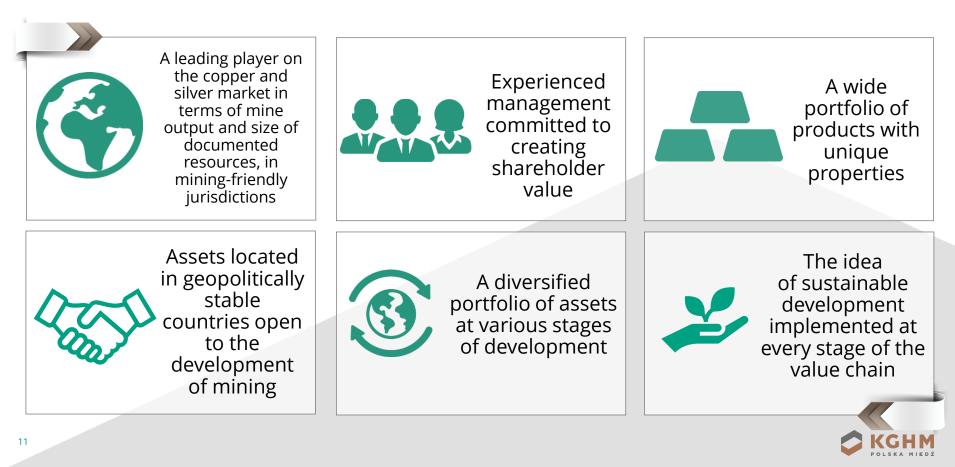


100% of electricty to be generated **by RES** in the **Sierra** Gorda mine from 2023



10

Why is it worth being our shareholder?



Challenges facing the KGHM Group



Strategy goals

- achieving by 2030 the key success measures among the five pillars

Decarbonization Program

- energy projects
- achievement of climate goals

Facing new regulatory challenges - including ESG

Strengthening the Company's resilience in the face of current and potential global threats

- incl. the war in Ukraine, rising cost inflation, unstable markets





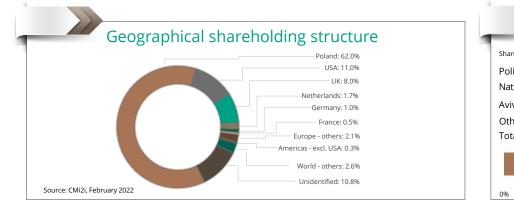
25 years on the Warsaw Stock Exchange

Development of KGHM over 25 years

Financial and production results



Shareholding and analytical coverage



Owner	ship stru	icture							
Shareholder		No. of shares/ votes	Perce of share c	Share in total numbers of votes					
Polish State Treasury		63 589 900		31.	31.79%				
Nationale-Nederlanden OFE		10 104 354		5.0	05%		5.05%		
Aviva OFE		10 039 684		5.0	02%		5.02%		
Other shareholders		116 266 062		58.14%			58.14%		
Total		200 000 000		100.00%			100.00%		
Polish State Treasury	NN OFE Aviva OFE		Other shareholders						
0% 10% 20%	30% 40%	50%	60%	70%	80%	90%	100%		

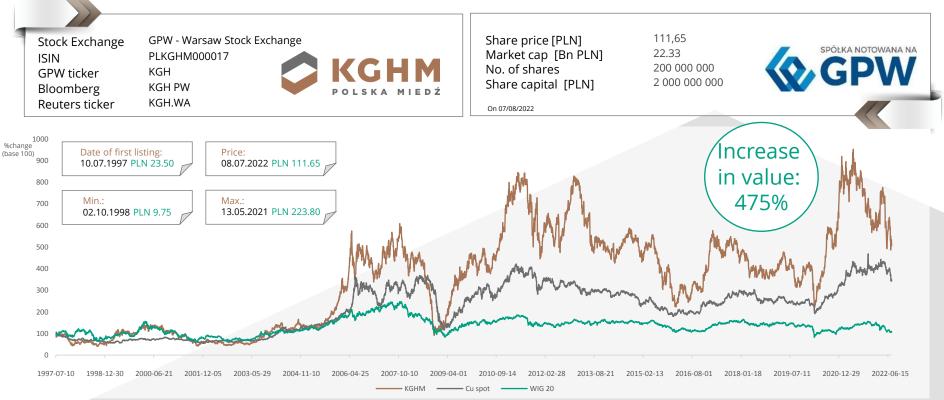
Analytical coverage and recommendations





25 years of growth in the value of the shares of KGHM Polska Miedź S.A.

Share price of KGHM Polska Miedź S.A. versus the WIG20 index and copper prices since 1997





Sharing our profits with shareholders

Dividend payouts

KGHM for years has followed a policy of sharing our earnings with shareholders at a level which is comparable to our peers in the mining sector. In future the Company intends to continue this policy in order to optimise shareholder returns.



2009-12-28

2014-02-26

2018-04-24

2022-06-27

- KGHM has distributed a total of more than PLN 22
 billion to shareholders in the form of dividends.
- Highest dividend paid: 28.34 PLN/share (for 2011).
- Another year with a dividend payout of

3 PLN/share (for 2021).

• **18th** dividend paid out by KGHM over the 25 years of its listing on the Warsaw Stock Exchange.



1) TSR = Total Shareholder Return

2001-09-10

-50%

17

KGHM is committed to the highest standards of communication with the capital market Investor Relations in KGHM: means of communication

Investor conferences	 Participation in major sector conferences in Poland and abroad, including: DM PKO BP, Investor day: mining sector Erste Group Investor Conference Goldman Sachs Wood & Company Individual Investors Association, WallStreet 	
Meetings with investors and analysts	 Annually around 100 one-on-one online/onsite meetings with portfolio managers and analysts during conferences and individual meetings 4 quarterly conferences and 4 investor chats to discuss the quarterly results Non-deal Roadshows 	
Analyst coverage	 Analyst coverage: 9 Poland-based analysts 8 analysts based abroad 	Investor Relations
Informational obligations	 Regulatory filings Financial statements Monthly production-sales reports Integrated Annual Report Disclosure Committee 	Main areas of activity
Communication	 Publication of IR Newsletter, IR Release, KGHM IR LinkedIn page Answers to inquiries from the market – email, phone Participation in online meetings with investors and analysts via dedicated internet platforms ESG reporting: cooperation with stakeholders (incl. rating agencies, CDP, Company customers) 	

Quarterly conferences



4 conferences per year with investors and analysts to discuss financial/operational results



~100 answers per year provided during the results conferences



Effective communication utilising both online and traditional forms of communication





Investor chats



4 quarterly investor chats to discuss the financial results

~80 responses provided during the chats



Wyniki finansowe Grupy KGHM za 202 czat z Wiceprezesem Zarządu ds. Fina Andrzejem Kensbokiem KGHA Polska Miedž S.A. to švratovný lider w vydobýciu i norma nuenz 2.4. to sinatony luna w nynonychi 1 przewierstwie cennych metali sutowców naturalnych – miedzi oraz przetwarszwie cennych mierań succensie nasu anych – nimoza s srebra. KGHA od wielu lat zajmuje wysoką pozyczę w śwratowej KGHM Investor Relations We invite you to an investor chat with the Vice Presiden We invite you to an investor char with the vice resident Board of KGHM Polska Miedž S.A. Andrzej Kensbok. Th board of Narini Poiska Wied2 2,4, Milli API Nerisuur, 11 Will be the financial results for Q1 2021 released yester Zobacz tłumaczenie Wyniki finansowe Grupy KGHM za I kwartał 2021 roku – czat z Wicep Zaradu ds. Finansowych, Andrzejem Kensbokiem torow.pl • Do przeczytania w 1 min



In the first quarter of this year we are proud of the highest historical EBITDA in the KGHM Group, which increased compared to Q1'21 by 20% and amounted to PLN 3 133 million. The company's revenues reached PLN 8 993 million, i.e. 33% more compared to Q1'21. Our operating and financial results for Q1'22 show the consistency of the Strategy implementation and stable operation in turbulent times.

Andrzej Kensbok, CFO

więcej na stronie strefainwestorow.pl





Participation by KGHM in major capital market events

Our investor relations activities are driven by the overarching principle of open dialogue with all capital market participants. We follow this rule both in our standard activities as well as whenever there arise communication challenges posed by the market. For years we have regularly participated in events dedicated to enriching investors' knowledge which are organised by the most important capital market institutions.



Polish Chamber of Brokerages conferences



WallStreet Conference, Individual Investors Association



Investor Relations Congresses, Polish Association of Listed Companies



XXII Konferencja Izby Domów Maklerskich

"RYNEK KAPITAŁOWY WOBEC PRZEMIAN GOSPODARCZYCH XXI WIEKU I WYZWAŃ ZRÓWNOWAŻONEGO ROZWOJU"



Individual Investor Day

The Investor Relations Department, jointly with the Individual Investors Association, regularly organises Individual Investor Days. These events are aimed at familiarising investors with the Company, the advancement of its development strategy, the current operating and financial situation of the KGHM Group and its individual assets.



Participation by individual investors



Site visits, workshops, panel discussions



Expansion of dialogue amongst individual investors as part of KGHM's information policy



Once per year on average

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Investor Days

INVESTORS

Shares and bonds

Investor bandbook

Investment case

Investor calendar

Factsheet

Investor Days

Market information

Corporate governance ESG Contacts The Investor Relations Department of KGHM Polska Miedź S.A. regularły organizes events for the capital market. This type of meeting is alimed at familiarisnig investors and analysts with the advancement of the Company's development strategy as well as with the actual operational and financial situation of the KGHM Group and its assets.



V Individual Investor Day

For years, KGHM Polska Miedź S.A. has been one of the world's lec copper and silver. In order to maintain a high level of investor rela demonstrate its commitment to maintaining an open dialogue wit future investors, the company, in cooperation with the Individual I (Stowarzyszeniem Investorów Indywidualnych) organised an Indion 1-2 October 2019.

Janusz Krystoslak, Director of the Investor Relations and IRO: of hosting individual investors during one of our regular site visits. Thi in a series which support our goal of maintaining the highest-quality of the capital market.

During this year's Individual Investors Day. Katarzyna Kreczmańsk

KGHM Polska Miedź @kghm sa

Dziś w Lubinie Dzień Inwestora Indywidualnego #KGHM. Trwa zwiedzanie kopalni i huty przez inwestorów 🛠 W planie także spotkanie poświęcone omówieniu sytuacji spółki 📈 👌



♡ 3 09:23 - 3 paź 2019



Stowarzyszenie Inwestorów Indywidualnych około tydzień temu

Tak było! Do zobaczenia następnym razem!





KGHM to my Społeczność · 13 447 polubień · 2 października o 05:19 · 🌍

Inwestorzy indywidualni odwiedzili dziś Zakłady Górnicze Polkowice-Sieroszowice 🖄

W KGHM trwa #DzieńInwestoralndywidualnego X zorganizowany przez Stowarzyszenie Inwestorów Indywidualnych.



Analyst Day

As part of its communications with the market, the Investor Relations Department organises Analyst Days. These events provide the opportunity to talk more deeply about the company, its finances and operations, and to build closer relations with the capital market.



Participation by domestic and international analysts



Site visits, workshops, panel discussions



An opportunity for deep dives into the operations and to build working relationships with analysts



Once per year on average



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Analyst Day

The Investor Relations Departament of KGHM Polska Miedź S.A. regularly organizes e capital market, such as Analyst Day. This type of meeting is aimed at familiarising ana with the advancement of the Company's development strategy as well as with the act and financial situation of the KGHM Group and its assets.





RODUCTION MATERIALS

For years, KGHM Polska Miledž SA: has been one of the world's leading producers of copper and silver. The steady development of trust amongst analysts and investors has resulted in the Company being included in the prestigious **RESPECT Index**. In pursuit of even better investor relations and to demonstrate its commitment to maintaining an open dialogue, KGHM invited people from the business community for direct contact with the company through its recent **Analyst Day**.

During his introductory remarks at the start of this year's Analyst Day, Marcin Chiudziński, President of the Management Board of KGHM Polska Miedž S.A., emphasised the following: We are renewing the tradition of holding meetings with our in aut that an open informational policy is the foundation of our operations. We want to be open and ransportent and thot. Thope that your visits to our focilities ond seeing close-hand the degree of care we take to do quality work has KGHM Polska Miedär represents an enormous variety of diverse and complex processes."

Our guests were given tours through the operations of KGHM Polska Miedź S.A and were familiarised with its

from our Polkowice-Sieroszowice r concentrate into refined copper ca rods at our Cedynia Wire Rod plan



PAGE TOOLS V



IR Newsletter

Ongoing distribution of KGHM's IR Newsletter: we continue to publish our bulletin for investors which has garnered praise from the capital market community.



4 annual issues

Provides accurate information about KGHM



A source of information about the global copper market



Facilitates analysis and assessment of the reasons and rationale for investing in the Company's shares



Subscribers to the IR Newsletter

The goal of the IR Newsletter is to provide accurate knowledge about KGHM and the global copper market.



The IR Newsletter continues to meet with the satisfaction of investors and persons associated with the capital market

The IR Newsletter has over 200

subscribers and that number is constantly growing

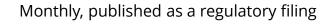
Our project was awarded and recognised as IR Best Practice during a WSE webcast, as well as by the Individual Investors Association





Production-sales reports







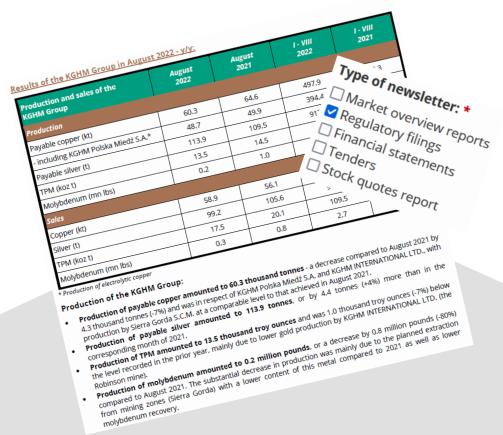
Preliminary production and sales data



Data for the KGHM Group



Additional data included in the Results Center





IR profile on LinkedIn

KGHM created an Investor Relations profile on the social media website LinkedIn.

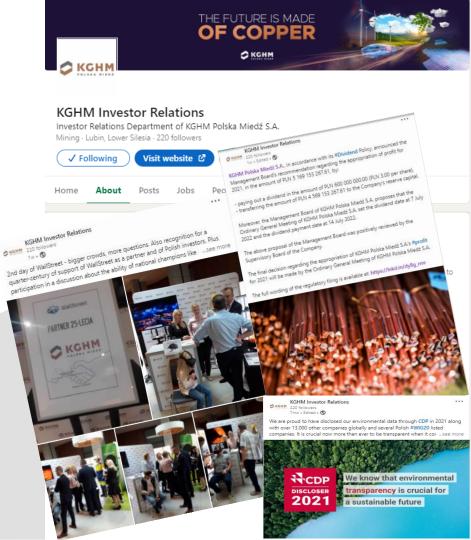


Another tool dedicated to serving investors and analysts



A place for news which could be of interest to investors, in a very flexible form

Our priority is to ensure equal access to information for everyone in the capital markets community



KGHM amongst the best: prizes and awards

The KGHM Investor Relations Team have been recognised for their effective process of communication with the investment community.



The KGHM Investor Relations Team strives to be pro-active in communicating with the capital market, as demonstrated by the appreciation bestowed both by the investment community as well as by major capital market institutions



Good IR is based on dialogue which makes use of effective, modern communication tools, as expected by capital market participants



Prompt reaction to important newsflow is critical, especially in crisis situations – the information coming from Investor Relations should be complete and accurate, even if the circumstances are not favourable







Results of the KGHM Group

Key financial indicators of the KGHM Group 2021

Substantially higher adjusted EBITDA for the KGHM Group compared to 2020

Higher adjusted EBITDA compared to 2020 (+PLN 3 704 mn; +56%), of which by segment:

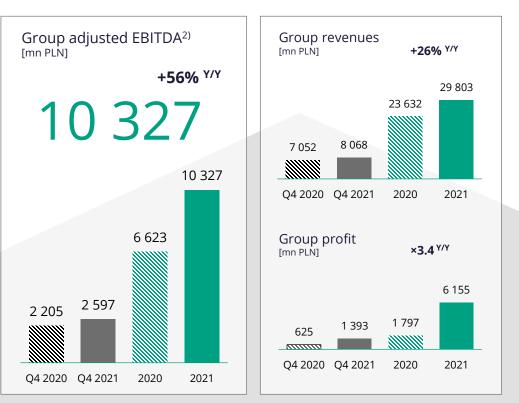
- KGHM Polska Miedź +PLN 1 016 mn higher copper prices
- Sierra Gorda1) +1 821 mn PLN mainly higher revenues from copper sales due to higher prices and a higher sales volume
- KGHM INTERNATIONAL +PLN 732 mn higher copper prices

Higher Group revenues

Impact of higher metals prices

Higher Group profit for the period

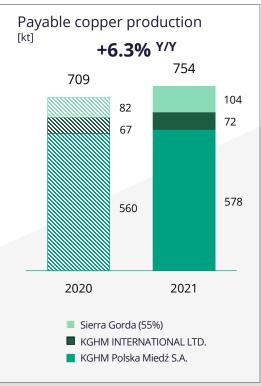
 Improvement in EBITDA and reversal of impairment on loans aided in achieving a profit higher by PLN 4 358 mn (a more than 3.4-times increase) than in 2020.

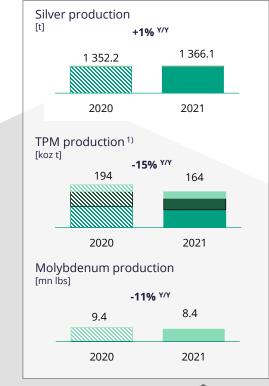




Metals production KGHM Group

- Higher payable copper production:
 - by KGHM Polska Miedź due to higher production from purchased copper-bearing materials
 - by KGHM INTERNATIONAL due mainly to higher production by the Robinson mine
 - by the Sierra Gorda mine due to higher recovery, higher copper content in ore and higher ore throughput
- Lower production of TPM by KGHM Polska Miedź, the Sudbury Basin and Sierra Gorda
- Lower molybdenum production by Sierra Gorda and Robinson
- In the international assets, TPM was lower by 2% compared to the target for 2021.
- Lower molybdenum production by Sierra Gorda and Robinson. Compared to the target for 2021 production was higher by 19%.



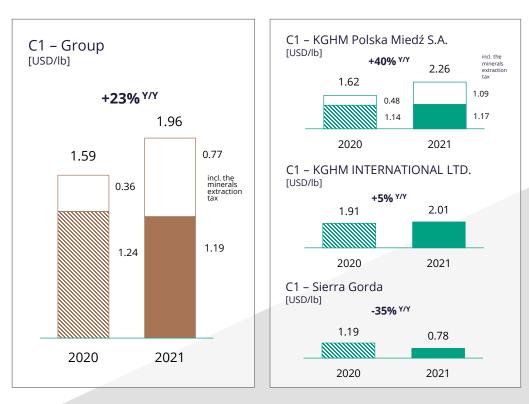


31

C1 unit cost¹⁾

KGHM Group

32

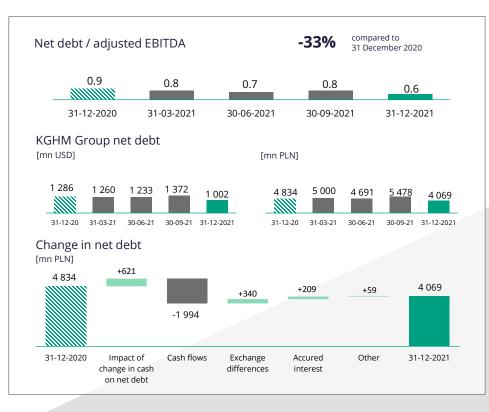


- The increase in C1 cost in KGHM Polska Miedź by 40% versus 2020 was mainly due to an increase in the minerals extraction tax charge (C1 excluding this tax was higher by only 3%)
- The increase in C1 by 5% in KGHM INTERNATIONAL versus 2020 was due to a lower copper sales volume and lower revenues from sales of associated metals
- The decrease in C1 cost in Sierra Gorda by 35% compared to the prior year was due to a higher copper sales volume and higher revenues from sales of associated metals



Net debt of the KGHM Group

As at the end of Q4 2021



Main factors affecting net debt in 2021

Increases in debt

- Cash expenditures on property, plant and equipment (PLN 3 890 mn)
- The minerals extraction tax (PLN 3 548 mn)
- Change in inventories (higher by PLN 1 933 mn)
- Negative exchange differences (an increase in PLN-denominated debt by PLN 340 mn)
- Dividend paid by KGHM Polska Miedź S.A. (PLN 300 mn)
- Change in trade and other payables, incl. trade liabilities transferred to the factor (lower by PLN 128 mn)
- Change in trade and other receivables (higher by PLN 97 mn)
- Borrowing costs recognised in cash flow (PLN 94 mn)

Decreases in debt

- Positive cash flow from operating activities, excluding the change in working capital and the minerals extraction tax (PLN 9 973 mn)
- Proceeds from repaid loans (PLN 1 259 mn)
- Proceeds from disposal of shares in the company PGE EJ1 (PLN 53 mn)



Minerals extraction tax

Change in the minerals extraction tax act



An Act dated 12 April 2019 on changing the minerals extraction tax act was signed into law on 1 July 2019

The update foresaw a decrease in the tax rate by reducing the coefficients applied in the calculation of the tax on the mining of copper and silver.



in savings thanks to the change in the minerals extraction tax formula since July 2019



An act on on changing corporate income tax, the act on vocational and social rehabilitation and the employment of handicapped persons as well as the minerals extraction tax act

-30%

New formula:



In the period from 1 January 2022 to 30 November 2022 the tax rate per tonne of mined copper is calculated under the following formula: tax rate = $[0.033 \times average copper price + (0.001 \times average copper price)^{2.5}] \times 0.6$



In the period from 1 January 2022 to 30 November 2022 the tax rate per tonne of mined silver is calculated under the following formula: tax rate = $[0.125 \times average silver price + (0.001 \times average silver price)^4] \times 0.6$





KGHM's Production Assets in Poland

Concessioned areas, resource base

CONCESSIONS

DEPOSITS

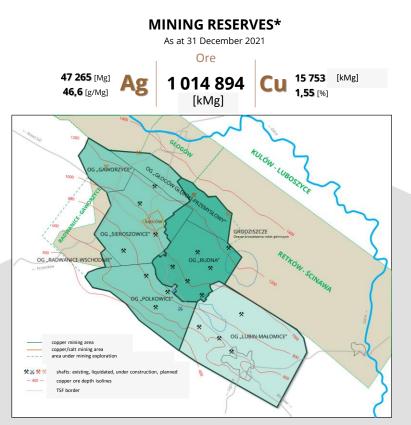
- LUBIN-MAŁOMICE Concession no.10/2013 dated 12.09.2013 (31.12.2063)
- SIEROSZOWICE Concession no. 11/2013 dated 12.09.2013 (31.12.2063)
- ◆ RADWANICE-GAWORZYCE Concession no. 8/2013 dated 14.08.2013 (31.12.2063) Concession no. 2/2017 dated 23.02.2017 (13.03.2065)
- + RUDNA

Concession no. 9/2013 dated 14.08.2013 (31.12.2063)

- ✦ GŁOGÓW GŁĘBOKI-PRZEMYSŁOWY (i.e. Deep Głogów) Concession no. 16/2004 dated 25.11.2004 (25.11.2054)
- ✦ BĄDZÓW

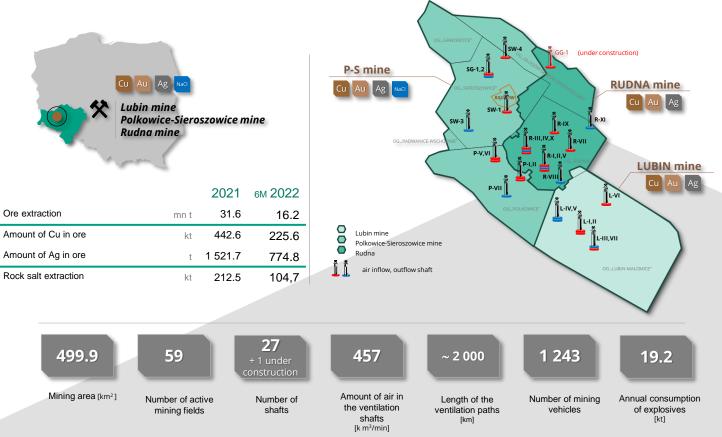
Concession no. 14/2013 dated 18.11.2013 (18.11.2063)

Since 2013 KGHM has held, directly adjacent to currentlymined areas, copper ore deposit exploration concessions for the areas "Retków-Ścinawa" and "Radwanice-Gaworzyce".





Characteristics of mining plants





Production results of mining plants in 2021



Lubin mine

- Ore extraction: 8.4 mn t
- Amount of Cu in the ore: 71.5 kt
- Amount of Ag in the ore: 339.1 t



Polkowice-Sieroszowice mine

- Ore extraction: 11.9 mn t
- Amount of Cu in the ore: 195.4 kt
- Amount of Ag in the ore: 477.0 t



Rudna mine

- Ore extraction: 11.3 mn t
- Amount of Cu in the ore: 175.7 kt
- Amount of Ag in the ore: 705.6 t



Average employment - 2021



		Total	Underground
Lubin mine		3 179	2 934
Polkowice-Sieroszowice mine		4 782	4 461
Rudna mine		4 492	4 152
	Total	12 453	11 547



Mining conditions in concessioned areas

GEOLOGICAL-MINING CONDITIONS

- increasing depth
- high variability in deposit lithology
- high primary rockmass temperature and more challenging microclimate conditions
- more challenging working conditions
- provoking of natural hazards

OPERATIONAL GOALS – DEVELOPMENT DIRECTIONS

TECHNIQUES AND TECHNOLOGY

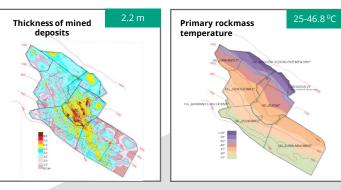
- new technologies for mining at greater depths,
- improved prevention of natural hazards,
- introduction of new generation of machines with low-emission or electrical engines.

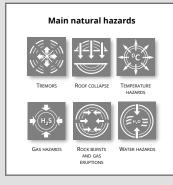
VENTILATION AND AIR COOLING

- building of new shafts,
- expansion of ventilation network infrastructure,
- expansion of central and worksite air cooling system (airconditioned cabins, rest chambers).

IMPROVING EXTRACTION EFFICIENCY

- automated and roboticised mining operations,
- optimal management of underground machines,
- implementation of integrated tools supporting production.







Change in tailings storage technology

Żelazny Most TSF – Construction of Southern Quarter

- Capacity of Southern Quarter: 170 mn m³
- Planned crown height of Southern Quarter: 195.00 m a.s.l.
- Area covered by Southern Quarter: 600 hectares
- Planned date when Southern Quarter, together with the main facility (Żelazny Most) reaches full capacity: 2035
- Change in tailings storage technology

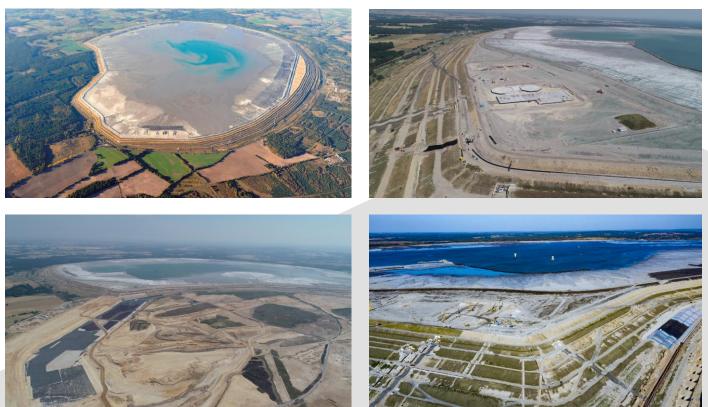
The decision to change the tailings storage technology into compacted form was based on lower restoration costs, the relative ease in its introduction and greater environmental safety. The selection of this new technology will lead to a substantial decrease in the environmental impact of the Żelazny Most TSF on the environment and greater safety in the process of storing tailings.





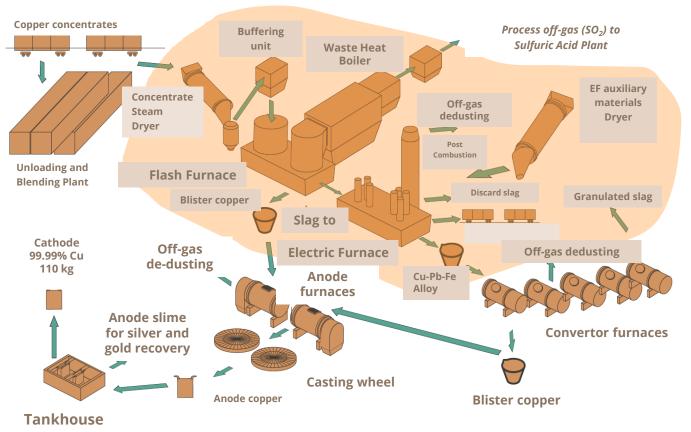
Construction of Southern Quarter

Żelazny Most TSF – Construction of Southern Quarter



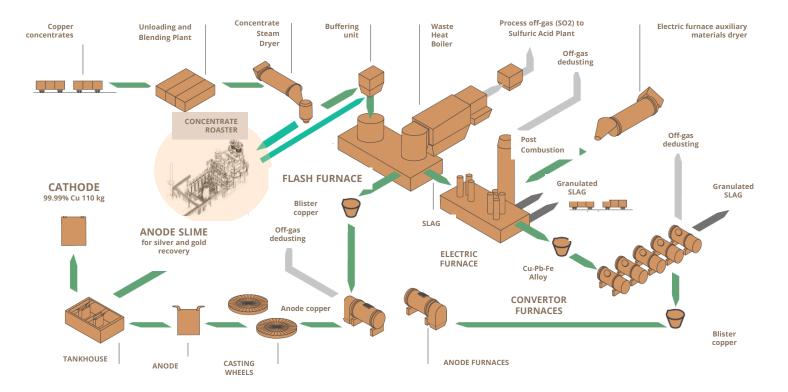


Technology used by the Głogów I smelter from September 2016





Głogów I – copper concentrate roasting installation

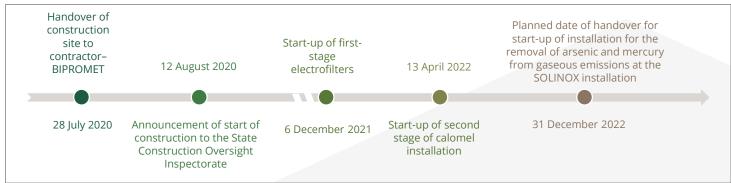




Start-up of installation for the removal of arsenic and mercury from gaseous emissions at the SOLINOX installation

Legnica Copper Smelter and Refinery

The purpose of building the installation was to adapt the emissions of arsenic and mercury to new, increasingly stringent European air emissions standards set forth in BAT (Best Available Technique) conclusions for the non-ferrous metals industry. To achieve the expected effects, innovative, dedicated solutions were designed. Two new gas treatment units were built at the SOLINOX installation. The first unit is for the removal of arsenic, and the second for mercury. Gases from the cooling tower are sent to the first-stage wet electrofilters, following which they move to the absorption tower of the installation working with the calomel technique, where mercury compounds are removed from the gases. Final dedusting and gas treatment is performed in second-stage wet electrofilters.







Start-up of wet electrofilters installation at the P-22 units of the flash furnace, electric furnace and P-23 convertors and P-31 lead Glogów Copper Smelter and Refinery

Another investment involving BATAs conclusions was the construction in various parts of the plant of wet electrofilters, which is currently one of the best and most effective methods for treating gases. This is additional equipment, augmenting the existing gases treatment installations. It is used at the final stage of contaminants removal. Wet electrofilters are at present the best means of treating process gases. A substantial positive environmental impact may be expected from the application of this method in various parts of the plant.





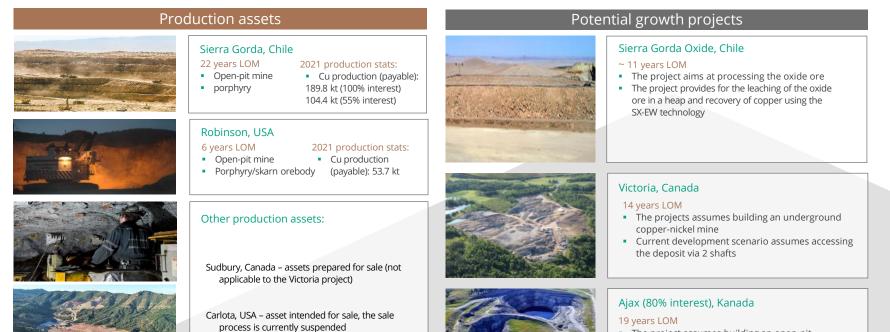




KGHM Group International Production Assets

Key international assets

Existing operations and growth potential from projects



 The project assumes building an open-pit copper-gold mine and processing plant with associated infrastructure



International assets of KGHM Group

Canada (Ontario)

KGHMI Headquarters – Vaughan (Toronto) **DMC Mining Services** Headquarters – Vaughan

Sudbury Basin– underground mines:

- McCreedy West (Cu, Ni, TPM)
- Morrison/Levack/Podolsky mines placed in the Care & Maintenance condition

Victoria Project (Cu, Ni, TPM)

USA Robinson (Cu, Au, Mo) – open-pit mine

Carlota (Cu) – open-pit mine



Main international assets - Robinson mine

KGHM INTERNATIONAL LTD.

- The open-pit Robinson mine is located in Nevada, USA, around 400 km north of Las Vegas
- Apart from the mine, the operations contain ore processing plants and a tailings storage facility
- The mine produces copper concentrate with gold and silver content, as well as molybdenum concentrate
- The life of mine of Robinson is currently forecast to 2028
- Payable copper production in 2021: 53.7 kt

Main international assets - Sierra Gorda

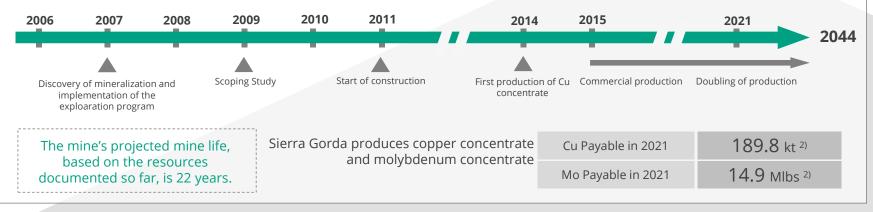
Sierra Gorda is an open-pit copper and molybdenum mine located in the Chilean Antofagasta region in the Atacama desert, 60 km from the town of Calama in the north of Chile.

Sierra Gorda is a Joint Venture between:

- KGHM Polska Miedź S.A. 55% interest
- South32 Limited 45% interest¹⁾

ACTIVATION OF A COMMAND OF A CO

The history of the development of the Sierra Gorda project

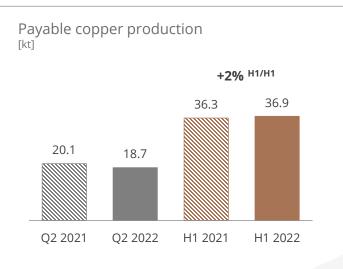




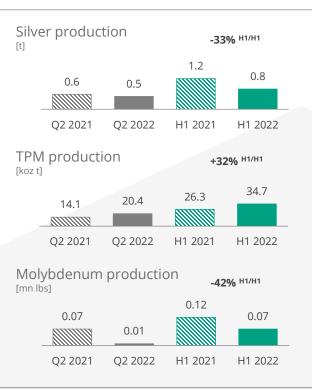
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Production results

KGHM INTERNATIONAL LTD.



- Higher production by the Robinson mine (higher copper content in mined ore)
- Sale by subsidiaries of KGHM INTERNATIONAL LTD. of 100% of the shares of Sociedad Contractual Minera Franke (SCMF), being the owner of the Franke mine in Chile

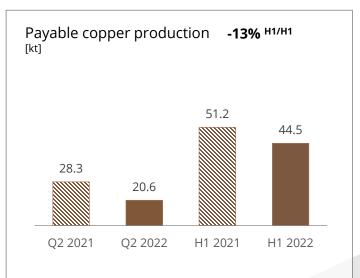


- Lower silver production by the Sudbury Basin due to lower silver content in ore
- Higher gold production by the Robinson mine (higher gold content in mined ore) and TPM by the Sudbury Basin (higher extraction)
- Lower molybdenum production by the Robinson mine due to mining of lower-quality ore from a transition zone

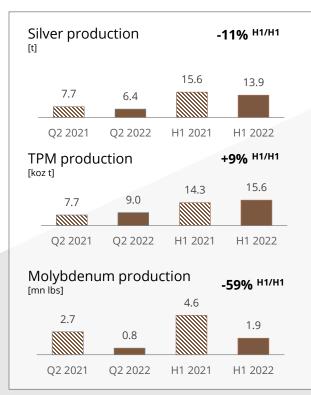


Production results

Sierra Gorda¹⁾



 Lower payable copper production in H1 2022 compared to H1 2021 due to the mining of ore with lower copper content and lower recovery

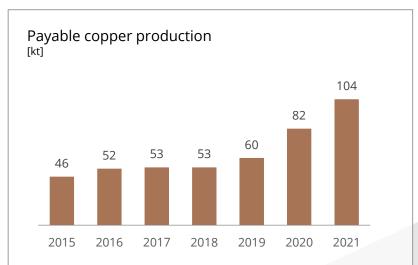


- The volume of precious metals production derived from the content of these metals in mined ore
- The decrease in molybdenum production was due to extraction from areas with lower molybdenum content compared to ore mined in the prior year. This was partially offset by the higher volume of ore processed

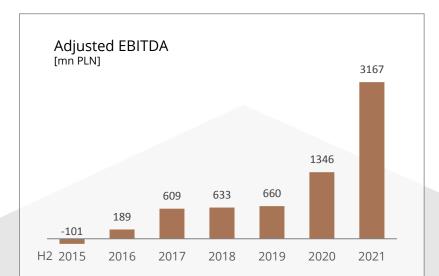


Historical results

Sierra Gorda¹⁾



 Higher copper production thanks to the optimisation program aimed at increasing processing capacity and improving recovery, as well as higher metal content in mined ore

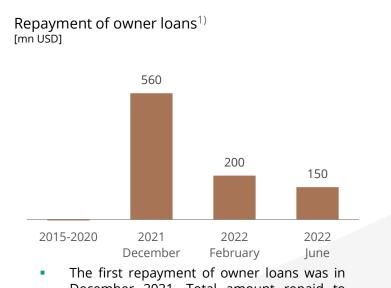


 Mainly higher revenues from copper sales due to higher metals prices and higher sales volumes



Important events

Sierra Gorda



December 2021. Total amount repaid to date: USD 910 million

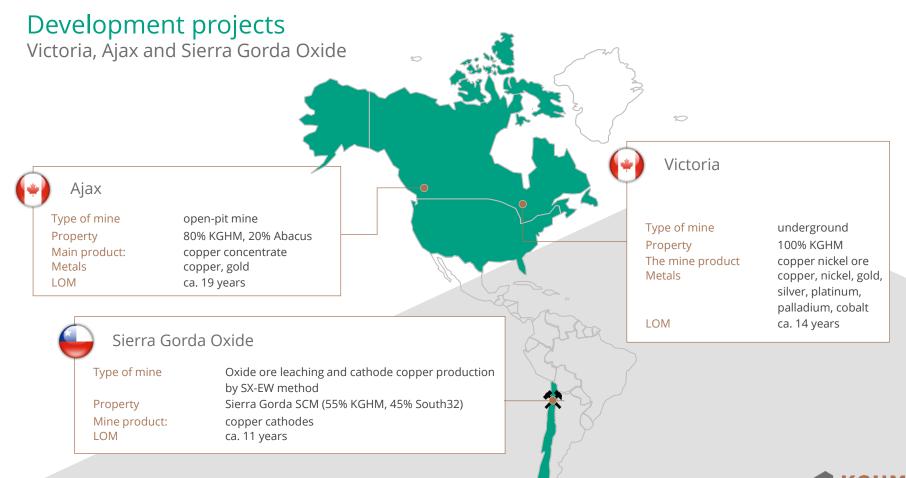
From 2023, 100% of Sierra Gorda's power needs will come from renewable resources.

Agreement between AES Gener and Sierra Gorda to supply electricity from renewable energy sources (RES), including solar power farms, which guarantees full coverage of the mine's power needs (approx. 1.3 TWh annually).



Source: AES Gener to supply renewable power to Chilean miner for 19 years (renewablesnow.com)





Sierra Gorda Oxide project

Basic inf	ormation	Multi-level pile – Oxide ore
Mine type/plant type	Ore leaching and copper production via SX-EW	ore leaching storage site
Ownership	Sierra Gorda SCM	SX-EW installation
Main product	copper cathodes	
Annual copper production	approx. 30 thousand tonnes	
LOM	approx. 11 years	and a second

Current project status

- Since January 2022 the owner of the project has been Sierra Gorda SCM, which is continuing work on the Oxide project (in prior years the
 project was advanced by KGHM Chile SpA.).
- The project foresees the processing of copper oxide ore, which initially overlaid the Sierra Gorda sulphide deposit. The mined ore will be processed via leaching on a multi-level pile, with production of copper cathodes in an SX-EW installation. At present, most of the ore which is destined to be processed has been extracted and stored near the projected site of the plant.
- The project has completed the Basic Engineering stage, with a partially-completed Detailed Engineering project, updated in 2022 with the aid of an external engineering firm.
- Further stages will continue this work, aimed at determining the subsequent directions for the project by the owners of Sierra Gorda SCM.



Victoria project

Current project status

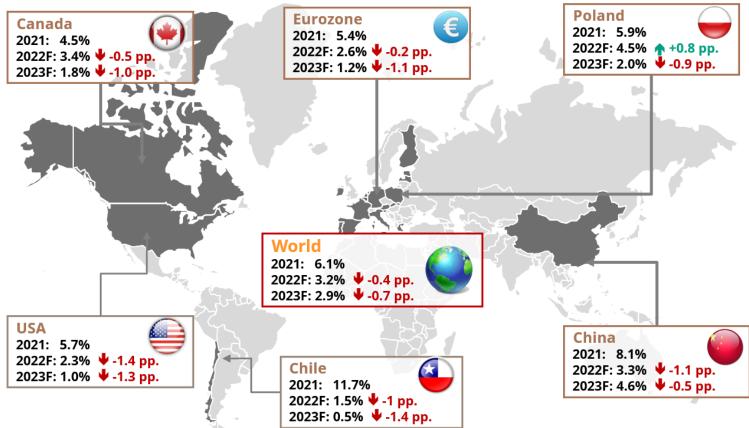
- The Victoria project is located within the Sudbury Basin, in the Canadian province of Ontario, around 35 km west of the town of Sudbury.
- The project foresees the mining of a polymetallic copper-nickel ore which also contains platinum, palladium, gold, silver and cobalt. The deposit will be accessed by two shafts: a production shaft and a ventilation shaft, at target depths of 2000 m and 1860 m below the surface.
- Geological resources are currently assessed as Inferred and partially as Indicated.
- Development work is currently underway to enable subsequent project stages, including: construction of elements of the shaft's headframe, a water treatment plant, parking, work related to the siting of a waste rock containment pad, etc. Work also began on updating the design for the production shaft.
- Work also continued aimed at maintaining good relations with key stakeholders in the project as well as administrative actions connected with obtaining the requisite project permits.





Macroeconomic situation

IMF World Economic Outlook – July 2022



Projections (F) of real GDP growth - International Monetary Fund - World Economic Outlook - July 2022 in comparison to April 2022; for Chile, the data is from April 2022 and compared to October 2021



Key events impacting the assessment of the prospects for the global economy











the world that won't criticise Ru

Pakistan's meddlesome genera

Partygate, the final episode?

A new geography of innovation



Investor sentiment began to worsen in the face of Russia's aggression against Ukraine and the risk of a recession due to the lack of gas in Europe

	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20	Sep-20	Oct-20	Nov-20	Dec-20	Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	mar 22 A	pr- 22 1	May-22	Jun- 22	Jul- 22
USA (ISM)	50,3	49,1	41,6	43,5	52,4	53,9	55,4	55,4	58,8	57,3	60,5	59,4	60,9	63,7	60,6	61,6	60,9	59,9	59,7	60,5	60,8	60,6	58,8	57,6	58,6	57,1	55,4	56,1	53,0	52,8
USA (PMI)	48,5	36,1	39,8	49,8	50,9	53,1	53,2	53,4	56,7	57,1	59,2	58,6	59,1	60,5	62,1	62,1	63,4	61,1	60,7	58,4	58,3	57,7	55,5	57,3	58,8	59,2	57,0	52,7	52,2	51,5
Canada	46,1	33,0	40,6	47,8	52,9	55,1	56,0	55,5	55,8	57,9	54,4	54,8	58,5	57,2	57,0	56,5	56,2	57,2	57,0	57,7	57,2	56,5	56,2	56,6	58,9	56,2	56,8	54,6	52,5	48,7
Mexico	47,9	35,0	38,3	38,6	40,4	41,3	42,1	43,6	43,7	42,4	43,0	44,2	45,6	48,4	47,6	48,8	49,6	47,1	48,6	49,3	49,4	49,4	46,1	48,0	49,2	49,3	50,6	52,2	48,5	48,5
Brazil	48,4	36,0	38,3	51,6	58,2	64,7	64,9	66,7	64,0	61,5	56,5	58,4	52,8	52,3	53,7	56,4	56,7	53,6	54,4	51,7	49,8	49,8	47,8	49,6	52,3	51,8	54,2	54,1	54,0	51,9
Eurozone	44,5	33,4	39,4	47,4	51,8	51,7	53,7	54,8	53,8	55,2	54,8	57,9	62,5	62,9	63,1	63,4	62,8	61,4	58,6	58,3	58,4	58,0	58,7	58,2	56,5	55,5	54,6	52,1	49,8	49,6
Germany	45,4	34,5	36,6	45,2	51,0	52,2	56,4	58,2	57,8	58,3	57,1	60,7	66,6	66,2	64,4	65,1	65,9	62,6	58,4	57,8	57,4	57,4	59,8	58,4	56,9	54,6	54,8	52,0	49,3	49,1
France	43,2	31,5	40,6	52,3	52,4	49,8	51,2	51,3	49,6	51,1	51,6	56,1	59,3	58,9	59,4	59,0	58,0	57,5	55,0	53,6	55,9	55,6	55,5	57,2	54,7	55,7	54,6	51,4	49,5	50,6
Italy	40,3	31,1	45,4	47,5	51,9	53,1	53,2	53,8	51,5	52,8	55,1	56,9	59,8	60,7	62,3	62,2	60,3	60,9	59,7	61,1	62,8	62,0	58,3	58,3	55,8	54,5	51,9	50,9	48,5	48,0
Spain	45,7	30,8	38,3	49,0	53,5	49,9	50,8	52,5	49,8	51,0	49,3	52,9	56,9	57,7	59,4	60,4	59,0	59,5	58,1	57,4	57,1	56,2	56,2	56,9	54,2	53,3	53,8	52,6	48,7	49,9
Netherlands	50,5	41,3	40,5	45,2	47,9	52,3	52,5	50,4	54,4	58,2	58,8	59,6	64,7	67,2	69,4	68,8	67,4	65,8	62,0	62,5	60,7	58,7	60,1	60,6	58,4	59,9	57,8	55,9	54,5	52,6
Austria	45,8	31,6	40,4	46,5	52,8	51,0	51,7	54,0	51,7	53,5	54,2	58,3	63,4	64,7	66,4	67,0	63,9	61,8	62,8	60,6	58,1	58,7	61,5	58,4	59,3	57,9	56,6	51,2	51,7	48,8
Ireland	45,1	36,0	39,2	51,0	57,3	52,3	50,0	50,3	52,2	57,2	51,8	52,0	57,1	60,8	64,1	64,0	63,3	62,8	60,3	62,1	59,9	58,3	59,4	57,8	59,4	59,1	56,4	53,1	51,8	51,1
UK	47,8	32,6	40,7	50,1	53,3	55,2	54,1	53,7	55,6	57,5	54,1	55,1	58,9	60,9	65,6	63,9	60,4	60,3	57,1	57,8	58,1	57,9	57,3	58,0	55,2	55,8	54,6	52,8	52,1	47,3
Greece	42,5	29,5	41,1	49,4	48,6	49,4	50,0	48,7	42,3	46,9	50,0	49,4	51,8	54,4	58,0	58,6	57,4	59,3	58,4	58,9	58,8	59,0	57,9	57,8	54,6	54,8	53,8	51,1	49,1	48,8
Poland	42,4	31,9	40,6	47,2	52,8	50,6	50,8	50,8	50,8	51,7	51,9	53,4	54,3	53,7	57,2	59,4	57,6	56,0	53,4	53,8	54,4	56,1	54,5	54,7	52,7	52,4	48,5	44,4	42,1	40,9
Czech Rep.	41,3	35,1	39,6	44,9	47,0	49,1	50,7	51,9	53,9	57,0	57,0	56,5	58,0	58,9	61,8	62,7	62,0	61,0	58,0	55,1	57,1	59,1	59,0	56,5	54,7	54,4	52,3	49,0	46,8	46,8
Turkey	48,1	33,4	40,9	53,9	56,9	54,3	52,8	53,9	51,4	50,8	54,4	51,7	52,6	50,4	49,3	51,3	54,0	54,1	52,5	51,2	52,0	52,1	50,5	50,4	49,4	49,2	49,2	48,1	46,9	47,4
Russia	47,5	31,3	36,2	49,4	48,4	51,1	48,9	46,9	46,3	49,7	50,9	51,5	51,1	50,4	51,9	49,2	47,5	46,5	49,8	51,6	51,7	51,6	51,8	48,6	44,1	48,2	50,8	50,9	50,3	51,7
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Azia	42,0	42,6	42,7	47,2	48,6	50,6	51,5	52,4	52,2	52,8	52,9	52,7	52,4	53,4	51,9	50,8	51,3	50,6	51,3	52,0	52,1	52,1	52,1	51,8	51,6	51,3	50,0	50,9	51,6	50,7
China (Caixin)	50,1	49,4	50,7	51,2	52,8	53,1	53,0	53,6	54,9	53,0	51,5	50,9	50,6	51,9	52,0	51,3	50,3	49,2	50,0	50,6	49,9	50,9	49,1	50,4	48,1	46,0	48,1	51,7	50,4	49,5
China	35,7	52,0	50,8	50,6	50,9	51,1	51,0	51,5	51,4	52,1	51,9	51,3	50,6	51,9	51,1	51,0	50,9	50,4	50,1	49,6	49,2	50,1	50,3	50,1	50,2	49,5	47,4	49,6	50,2	49,0
Japan	44,8	41,9	38,4	40,1	45,2	47,2	47,7	48,7	49,0	50,0	49,8	51,4	52,7	53,6	53,0	52,4	53,0	52,7	51,5	53,2	54,5	54,3	55,4	52,7	54,1	53,5	53,3	52,7	52,1	51,5
India	51,8	27,4	30,8	47,2	46,0	52,0	56,8	58,9	56,3	56,4	57,7	57,5	55,4	55,5	50,8	48,1	55,3	52,3	53,7	55,9	57,6	55,5	54,0	54,9	54,0	54,7	54,6	53,9	56,4	56,2
Indonesia	45,3	27,5	28,6	39,1	46,9	50,8	47,2	47,8	50,6	51,3	52,2	50,9	53,2	54,6	55,3	53,5	40,1	43,7	52,2	57,2	53,9	53,5	53,7	51,2	51,3	51,9	50,8	50,2	51,3	51,7
Malaysia	48,4	31,3	45,6	51,0	50,0	49,3	49,0	48,5	48,4	49,1	48,9	47,7	49,9	53,9	51,3	39,9	40,1	43,4	48,1	52,2	52,3	52,8	50,5	50,9	49,6	51,6	50,1	50,4	50,6	50,3
Taiwan	50,4	42,2	41,9	46,2	50,6	52,2	55,2	55,1	56,9	59,4	60,2	60,4	60,8	62,4	62,0	57,6	59,7	58,5	54,7	55,2	54,9	55,5	55,1	54,3	54,1	51,7	50,0	49,8	44,6	42,7
Thailand	46,4	35,8	41,3	42,5	45,3	50,0	49,6	51,1	50,7	52,3	48,5	47,2	49,2	49,7	46,4	48,9	48,0	48,5	49,1	51,5	51,4	50,3	52,4	52,8	51,4	50,4	50,0	49,8	52,1	54,0
South Korea	44,2	41,6	41,3	43,4	46,9	48,5	49,8	51,2	52,9	52,9	53,2	55,3	55,3	54,6	53,7	53,9	53,0	51,2	52,4	50,2	50,9	51,9	52,8	53,8	51,2	52,1	51,8	51,3	49,8	47,6

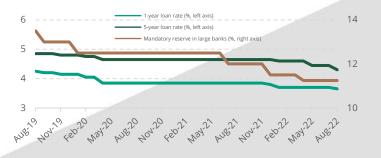


China: 'zero-covid' policy led to a weakening of GDP growth this year and calls into question the planned growth path

GDP dynamics weakened and according to forecasts it will be difficult to achieve the assumed rate of 5.5% for this year



The People's Bank of China continued to ease its monetary policy to stimulate weakening demand



Newly started house construction in Q2 2022 below levels from the first wave of the pandemic

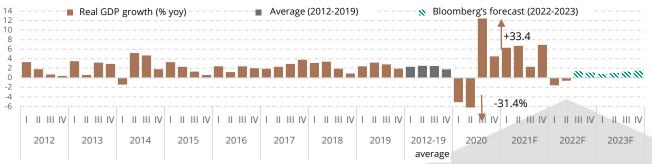


Source: Bloomberg, KGHM Polska Miedź

- Achieving the GDP growth target of 5.5% in 2022 seems unlikely
- It is unlikely that President Xi Jinping will give up his "zero-covid" policy before the autumn party elections
- The central bank of China is trying to stimulate the economy and weakening lending by further cuts in interest rates, especially the 5-year one responsible for housing loans. Subsidies for enterprises affected by the closure of the economy are being considered
- The difficulties in the real estate market are of a structural nature and will be a challenge for the Chinese economy in the coming quarters

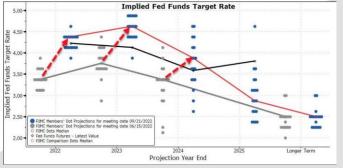
USA: The Fed is on a fine line between monetary tightening and a potential recession

The tandem of weaker GDP in 1H'22 and monetary tightening raises concerns about slowing growth



Source: Bloomberg, KGHM Polska Miedź analysis

Fed members are presenting an increasingly hawkish approach to monetary policy

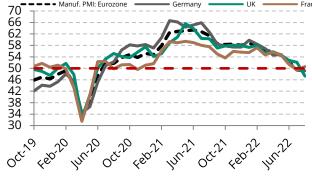


- Another two quarters of negative economic growth have raised investor fears, but the continued strong labor market is a stabilising factor
- Inflation surprised the members of the Fed both in terms of its level and its duration
- Expectations as to the target level of interest rates and how long they should be in effect are of key significance for the financial markets
- The scale of interest hikes by the Fed will have an impact not only on the American economy, but will also effect countries with USD-denominated debt and as a result of the USD's value on commodities quoted in this currency
- While an economic slowdown may lead to lower demand for commodities, in the case of metals connected with the green transformation, the impact of the slowdown will be softer

Source: US Federal Reserve, KGHM Polska Miedź

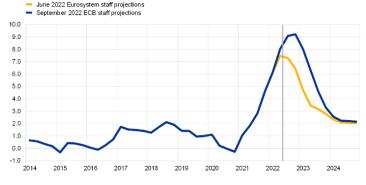
Europe: Inflation, tightening of monetary policy, the war in Ukraine and the energy crisis increased the risk of a visible slowdown in 2023

While PMIs in the largest European economies indicate a slowdown...



Source: Bloomberg, KGHM PM SA analysis

^{...}the peak of inflation and the end of the cycle of interest rate hikes is still ahead of us

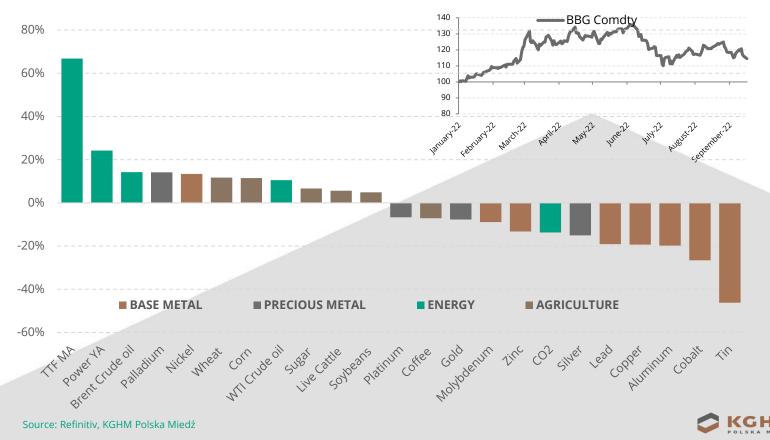


Source: ECB inflation projection - September 2022

- The war in Ukraine and the associated energy and food crises are exacerbating inflation
- High inflation is pushing central banks to tighten monetary policy
- The high and rising interest rates are having a negative impact on the conduct of business and are reducing the potential rate of economic growth, which will also impact demand for commodities



Commodities market: price movements of individual commodities since the start of 2022



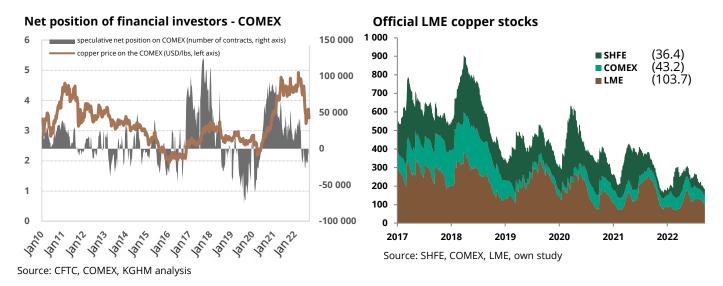
Metals market

- To achieve the goal of "net-zero" and to stop the rise in global temperatures requires enormous investments which, in the near term, form the foundation of global economic growth. Moreover, decarbonisation, electromobility and renewable energy sources should aid in extracting the glocal economy from this crisis and in the introduction of a new growth path, while at the same time starting a new supercycle for selected commodities.
- Official metals inventories are at multi-year lows, while years of under-investment and an increasingly complicated social and political situation in the major commodity-producing countries raises doubts about the availability of metals, especially in the second half of this decade.
- Due to the need to find alternative sources for Russian commodities (mainly energy commodities),
 Europe has undertaken a varity of measures aimed at ending the use of fossile fuels even more rapidly than heretofore declared, which should support metals, including copper and silver, although in the short term, volatility in the global economy could have a negative impact on the metals market.





The low level of inventories means that any significant increase in demand or interruption to supply could result in substantial price volatility

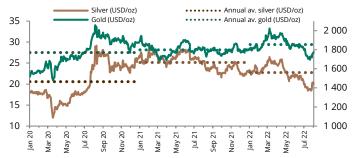


- Official inventory levels on the main three markets remain at the level of multi-year lows, with a similar situation in the case of bonded warehouse inventories in China
- This reduced availability of material could slow the rate of current decreases
- The net position of financial investors on COMEX confirms the negative sentiment of investors towards the metals market observed in market prices



Silver: USD putting pressure on precious metals

Despite inflation and volatility associated with the pandemic and geopolitical instability, precious metals have been losing value

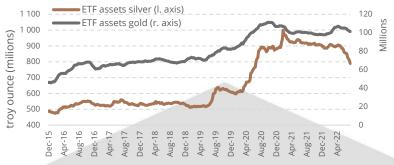


Source: Bloomberg, KGHM Polska Miedź

The Gold/Silver ratio is at levels far above average, suggesting possible adaptation



Recent weeks have also been characterised by strong outflows from ETF funds



Source: Bloomberg, KGHM Polska Miedź

- Silver, which is treated as both an investment and industrial material, has reflected to a greater extent the highly-negative impact of macroeconomic and geopolitical uncertainty than in the case of gold
- The outflow of money from ETFs is more evident in the case of silver
- The Gold/Silver ratio in recent weeks has again reached 90 points, the highest level since the start of the pandemic, and last seen in the 1990s. The average long-term level is approx. 66 points





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