Layers of possibilities



KGHM Polska Miedź - copper muscle of the Polish Just Transition

Brussels, November 2020



Key information about the KGHM Group

KGHM Group in brief

One of the world's largest producers of copper and silver with nearly 60 years of experience in mining and metallurgy

702.000 tonnes of copper production and 1417 tonnes of silver production in 2019

Fully integrated company with complete chain of extraction and processing of valuable natural resources

Member of the prestigious indices Respect Index & FTSE4Good published by the WSE and LSE* A stable and competitive position in a key sector for the global economy - copper mining and processing

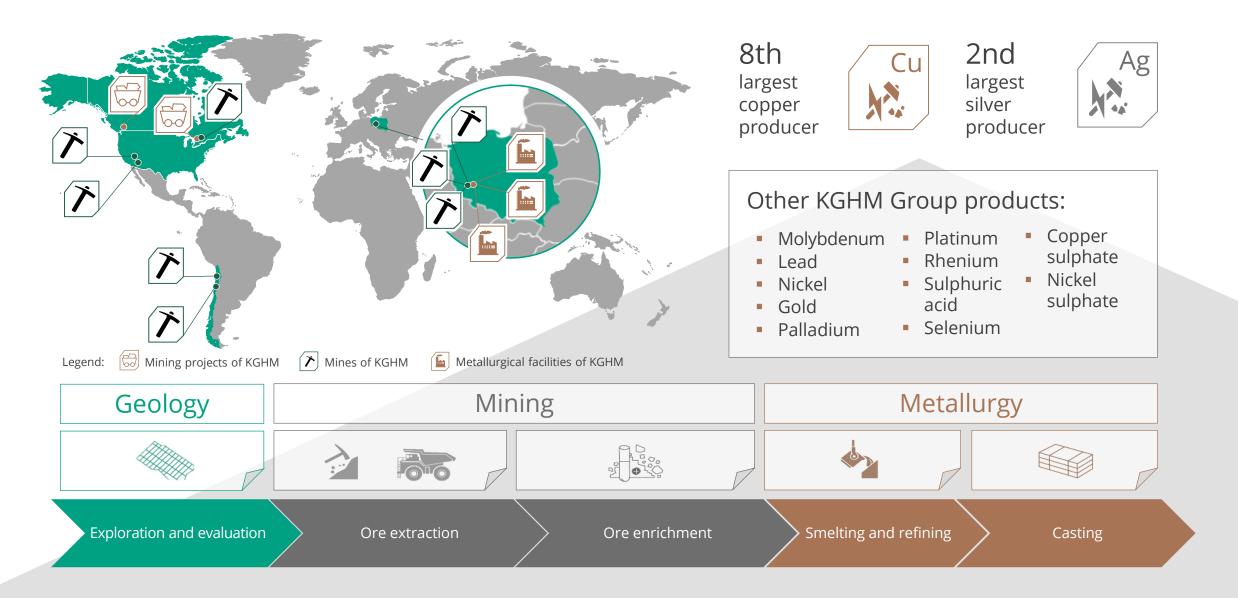
An organization with strong valuesbased roots, focused on corporate social responsibility

*In 2018 KGHM joined the **FTSE4Good** index. Being a member of the FTSE4Good index series confirms KGHM's efforts in the field of environmental protection, social responsibility and corporate governance. KGHM perceives joining the FTSE4Good index as an award for its solid performance in complying with demanding ESG standards.

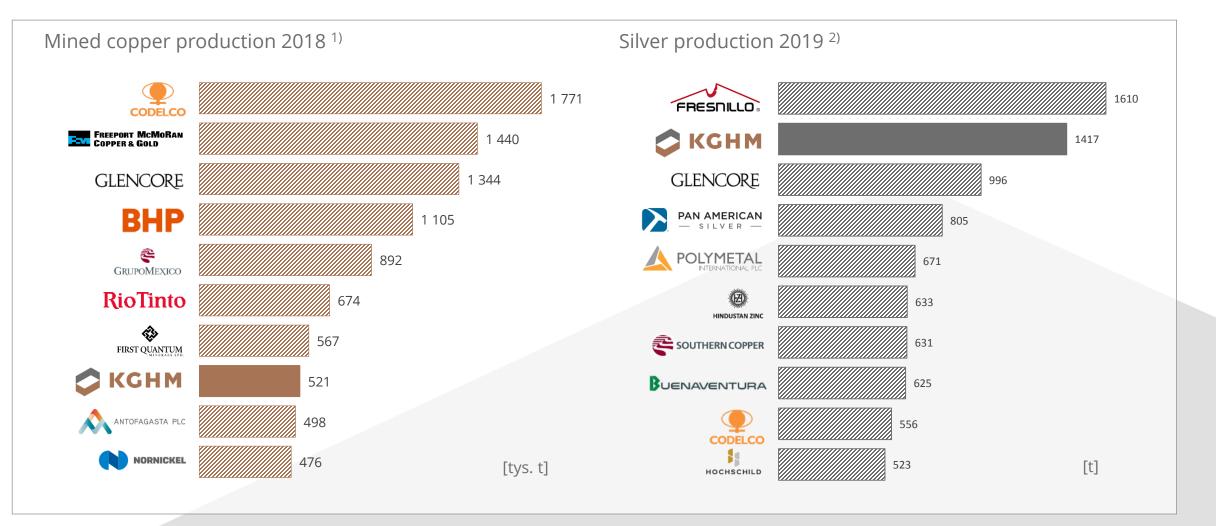
LSE - London Stock Exchange; WSE - Warsaw Stock Exchange



Important player on the global copper and silver markets



Among world's biggest copper and silver producers





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Energy transformation in KGHM



Energy consumer and producer

KGHM - no. 1 electricity consumer in Poland, 2,8 TWh. 20-25% comes from own sources, rest from the market

Two gas-steam CHP plants in Polkowice and Głogów, each with a capacity of **42 MWe** (electric), **40 MWt** (thermal). Built 2011-2016, cost: **EUR 170 million**

KGHM's CHP plants **operate for 11 months during the year**, reaching an **efficiency level** of **80%**

The **electricity** produced is **100% used for** KGHM's **own needs** on-site

100% of the produced **heat energy** is transferred **to the heating systems** of Polkowice, Lubin and Głogów (**165,000 inhabitants** in total)





Trail towards green copper

Ecology as one of four **strategic directions** for KGHM's development

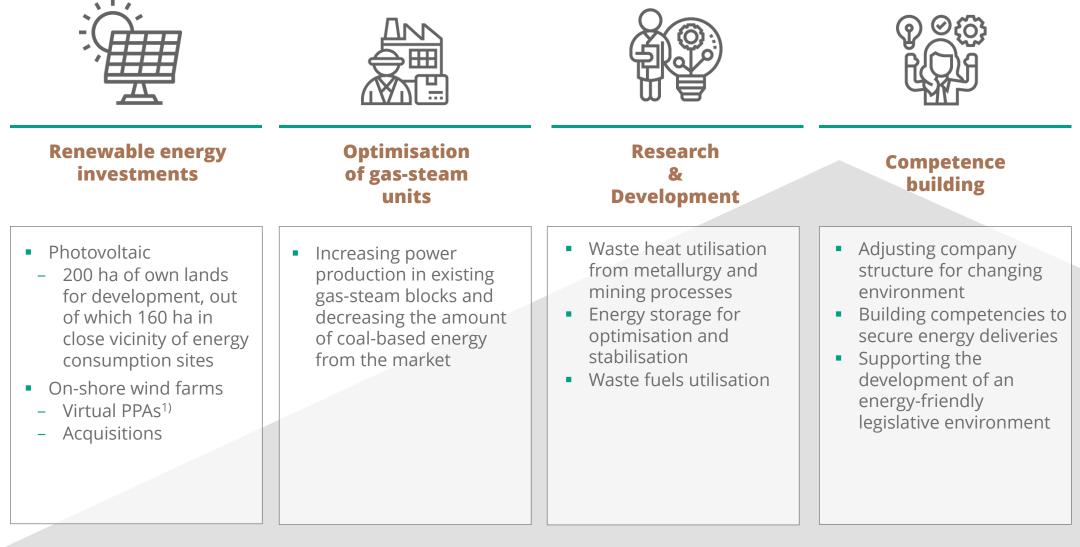
Our objective is to ensure a supply of **green energy** for safety and climate neutrality reasons

By the end of 2030, **up to 50%** of KGHM's annual demand (1,6 TWh) will be covered by **own energy sources**

There will be a considerable share of **renewable energy** (300 MW) from **solar and wind projects**

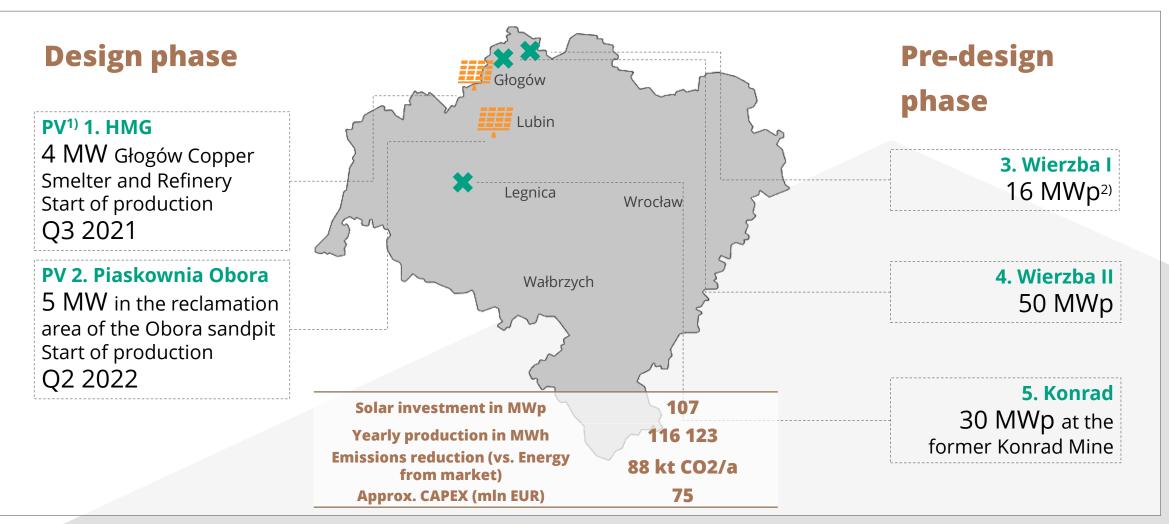


Energetics development program





First photovoltaic projects







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What can the money change?

The method and cost of financing will significantly affect the **economical feasibility** (NPV) of new investments

To achieve the strategic goal, **different approaches are being considered** – from increased gas usage, through gas/PV/wind mix to RES only with existing gas-steam blocks gradual withdrawal

Estimated CAPEX differs from 100 m€ (low
reduction of CO2 emissions) up to 670 m€ (approx.
1 Mt CO2 annually reduction)

As the energy produced in Poland emits approx. 0,8 t CO2/MWh, the support for such investments will **firmly contribute to decarbonisation**



Why cash and not debt?

Copper price **volatility** and the constant need to **sustain production through investments** leads to a significant increase in the KGHM's debt during economic slowdown

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Struggle with **increasing costs** (environmental standards & investments) and **strong competition** from outside Europe

Credit agreements with banks set **upper debt limits** (so-called **covenants**)

In this situation **we reduce our dependence** on loans and try **not to increase** current **debt**

We would also welcome other ways of financing our investments without **burdening the balance sheet**





Polish potential for coal-to-copper mining transformation

Lower Silesia Copper Basin

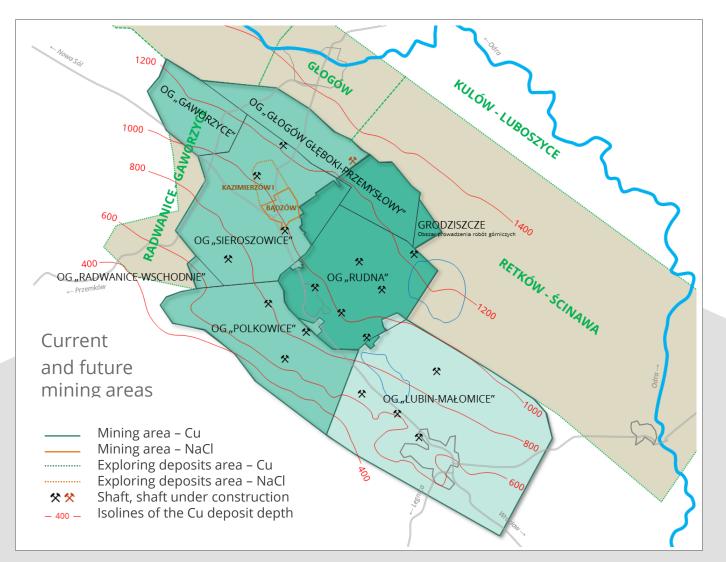
- Our copper ore deposits are located in Lower Silesia, southwestern Poland
- The area is approx. 550 km2, situated 80 km west of Wrocław and 70 km north of Wałbrzych (one of the traditional coal centres)
- The main cities of the district are Lubin (73,000), Głogów (69,000), Polkowice (23,000) and Legnica (100,000)
- More than **34,000 people employed** in the KGHM Group, the vast majority of them (about 31 500) in Poland
- Basing on Polish deposits (one of the largest in the world), we can continue production for at least 30-40 years





Sustainable & Responsible Raw Materials - role of Polish deposits

- Climate-neutral Europe only possible with sufficient amount of non-ferrous metals
- The growing deficit of European extraction makes EU dependent on uncertain and high carbon footprint imports
- Meanwhile the current crisis presents an historic opportunity to improve Europe's strategic autonomy in raw materials
- The situation could be resolved by the resources of KGHM located in Poland





No-one left behind

Support for KGHM will also **help the region**, which is still partly **affected by the end of coal exploration**

For several decades, coal mining has been **the most important industry** of Wałbrzych and its surroundings (**Lower Silesian Coal Basin**). Lower Silesia is close to Upper Silesia, the most coal-dependent region in Poland

This means better than in other regions **availability of qualified personnel** who could now take up employment in **copper mining**



It's much easier to train coal miner to work in copper mine than in other sectors. Such employment would be **the best fulfillment of the Just Transition idea**



What do we need?

Regulatory support: all **EU policies** affecting raw material companies should be **subjected to the main objective of decarbonisation** with **sustainable & responsible European raw materials**

Financial support for **creating new jobs** in the nonferrous metals sector in Europe – **investments in mining infrastructure**, shafts and conveyor belts, underground machines

Faster and less complicated administrative proceedings: mining license, environmental and water permits, spatial development plans





Thank you for your attention!

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