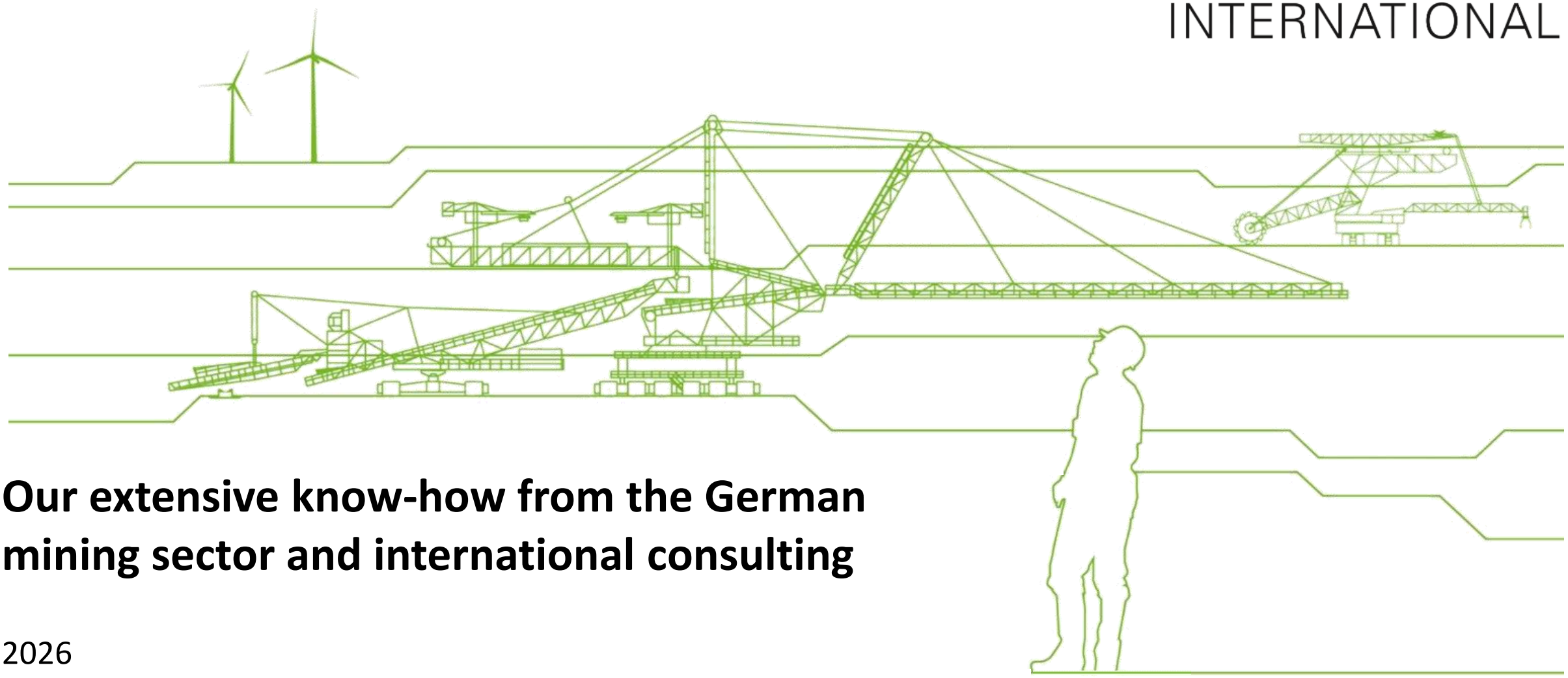
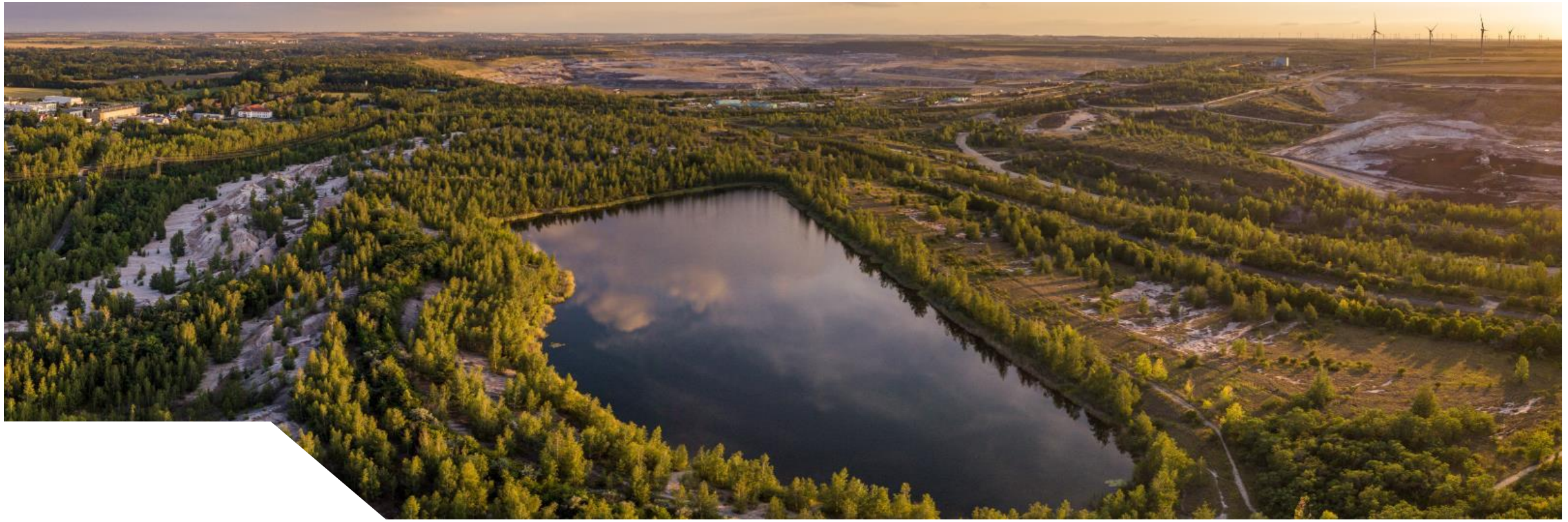
MIBRAG CONSULTING INTERNATIONAL



Our extensive know-how from the German mining sector and international consulting

2026



1 **GENERAL** INFORMATION EP HOLDING & MIBRAG CI

General information about EP Holding

MIBRAG CONSULTING INTERNATIONAL

EPH

EPH is a vertically integrated energy group that owns and operates assets in the Czech Republic, Slovakia, Poland, Italy, the UK, Germany and Hungary, with their headquarters in Prague

EP Energy Transition

LEAG

MIBRAG

*selected subsidiaries

LEAG

- MCR GmbH (100 %) — Maintenance and Technical Service.
- GMB GmbH (100 %) — Services for geotechnical investigations, surveying reclamation, mine closure.
- TSS GmbH (100 %) — Logistic services for mining and other equipment.

MIBRAG

- MIBRAG Consulting International GmbH (100 %) — Consulting and engineering services for international mining companies.
- MIBRAG Neue Energie GmbH (100 %) — Development of renewable energy sources.
- GALA-MIBRAG-Service GmbH (100 %) — Mine closure and reclamation.
- Helmstedter Revier GmbH (100 %) — Coal mining and energy production.
- Bohr- und Brunnenbau GmbH (100 %) — Exploration drilling.
- Geo!D GmbH (100 %) — Geodata and digitalization.
- GWL Grundwasser Leipzig GmbH (100 %) — Groundwater modeling, hydrogeological studies, software development.
- MIBRAG Bildungs-zentrum GmbH (100 %) — vocational training, adults' qualifications, further training

MIBRAG

- Norgam (61 %) — Mineral waste disposal.
- Erdbaulabor Leipzig GmbH (55 %) — Site assessment reports, geotechnical stability analyses.
- MUEG (50%) — Waste recycling.
- Fernwärme GmbH (49 %) — Heat supply.
- Ingenieurbüro für Grundwasser GmbH (27 %) — Engineering services for water management.

GENERAL INFORMATION ABOUT EP HOLDING

MIBRAG GmbH

- Wholly owned subsidiary of EPH
- Focus on mining and processing of lignite
- Operate two lignite mines in central Germany
- DIN EN ISO 50001 certified

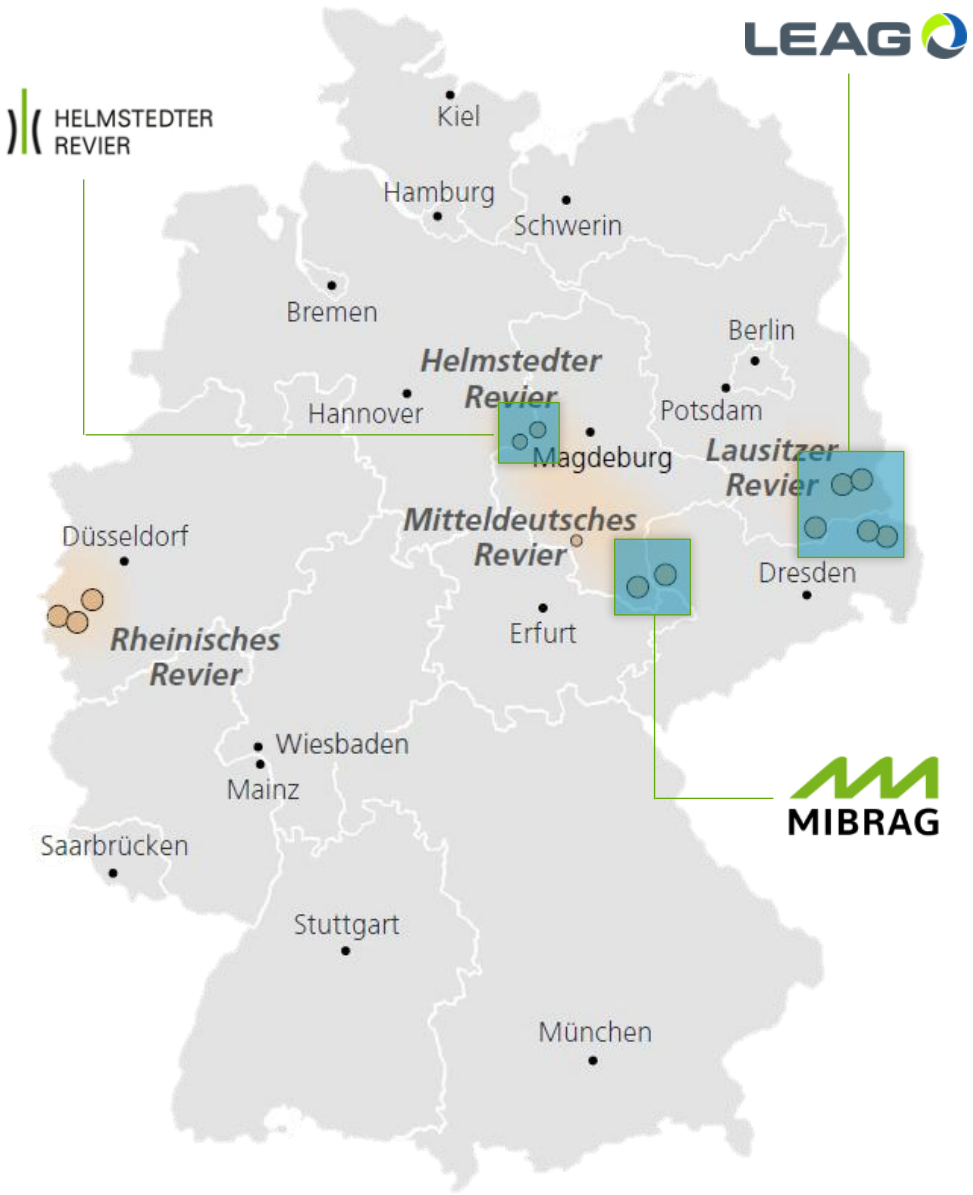
Lausitz Energie Bergbau AG and Lausitz Energie Kraftwerke (LEAG)

- Jointly owned by EPH and PPF Investments
- Focus on mining and processing of lignite and power generations
- Operate four lignite mines and power plants in Lusatia
- DIN EN ISO 14001 and DIN EN ISO 50001 certified

MIBRAG Consulting International GmbH (MIBRAG CI)

- Wholly owned subsidiary of MIBRAG
- Distribute Know-How of MIBRAG and LEAG
- International consulting along entire mining value chain
- Focus on open pit mining with continuous equipment, usage of IPCC systems

GENERAL INFORMATION ABOUT EP HOLDING

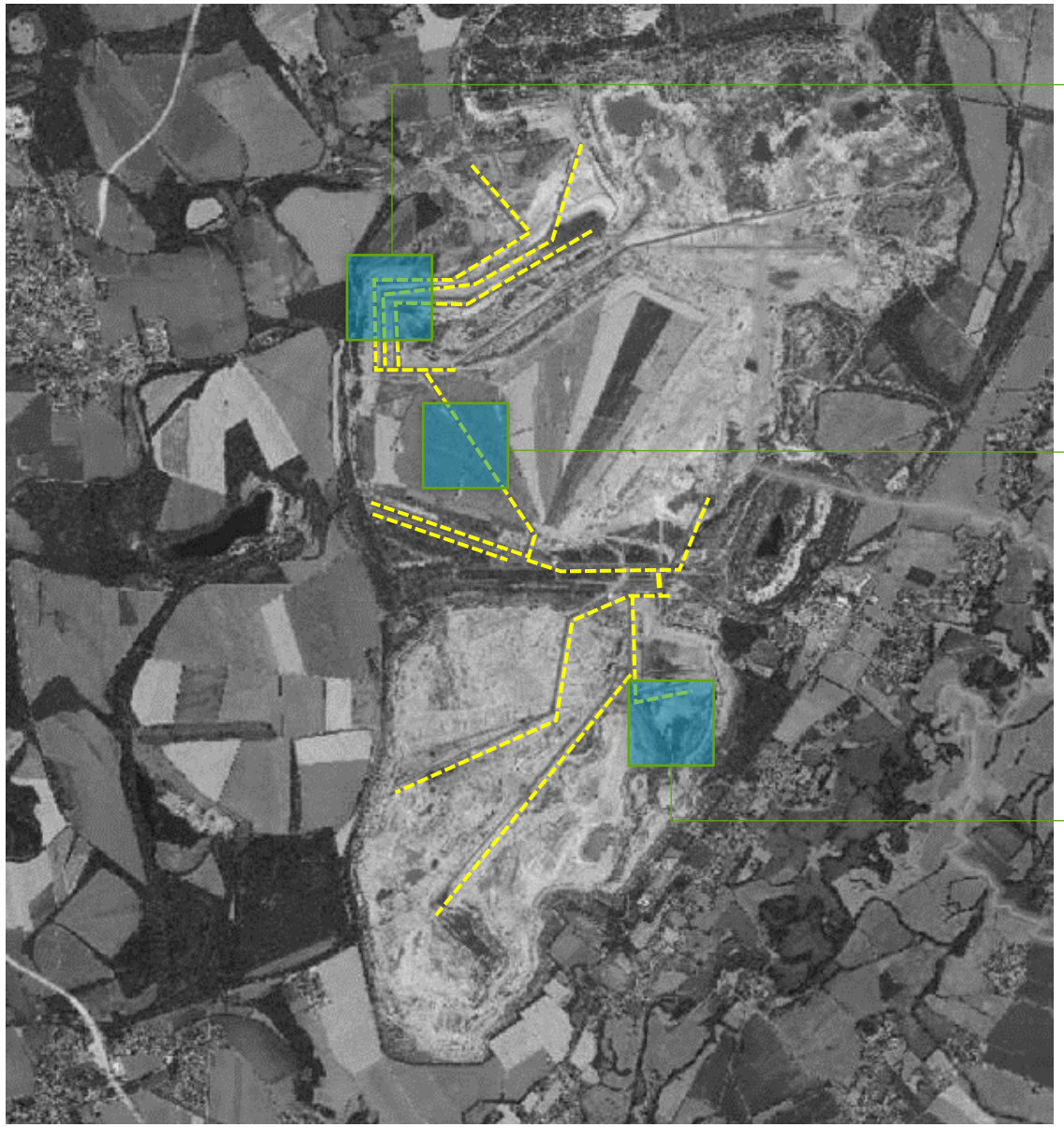


Open cast mines in operation		Overburden removal (Mm³/a) 2025	Lignite mining (Mt/a) 2025	Dewatering (Mm³/a) 2025
Profen	MIBRAG	16	4	39
Schleenhain	MIBRAG	25	7	26
Jänschwalde	LEAG	13	0	96
Welzow-Süd	LEAG	56	12	31
Nochten	LEAG	92	16	83
Reichwalde	LEAG	31	6	90
∑		**233**	**45**	**365**

Open cast mines under reclamation		Start	End (preliminary)
Schöningen	HELMSTEDTER REVIER	2016	2040
Cottbus Nord	LEAG	2015	2042

MIBRAG GMBH – PROFEN OPEN CAST MINE

MIBRAG CONSULTING INTERNATIONAL



HANDLING

- Conveying system of 34 km
- Overland and shiftable conveyors
- Width of 1.6 - 2.0 m
- 2 Distribution points
- Trucks

INFRASTRUCTURE

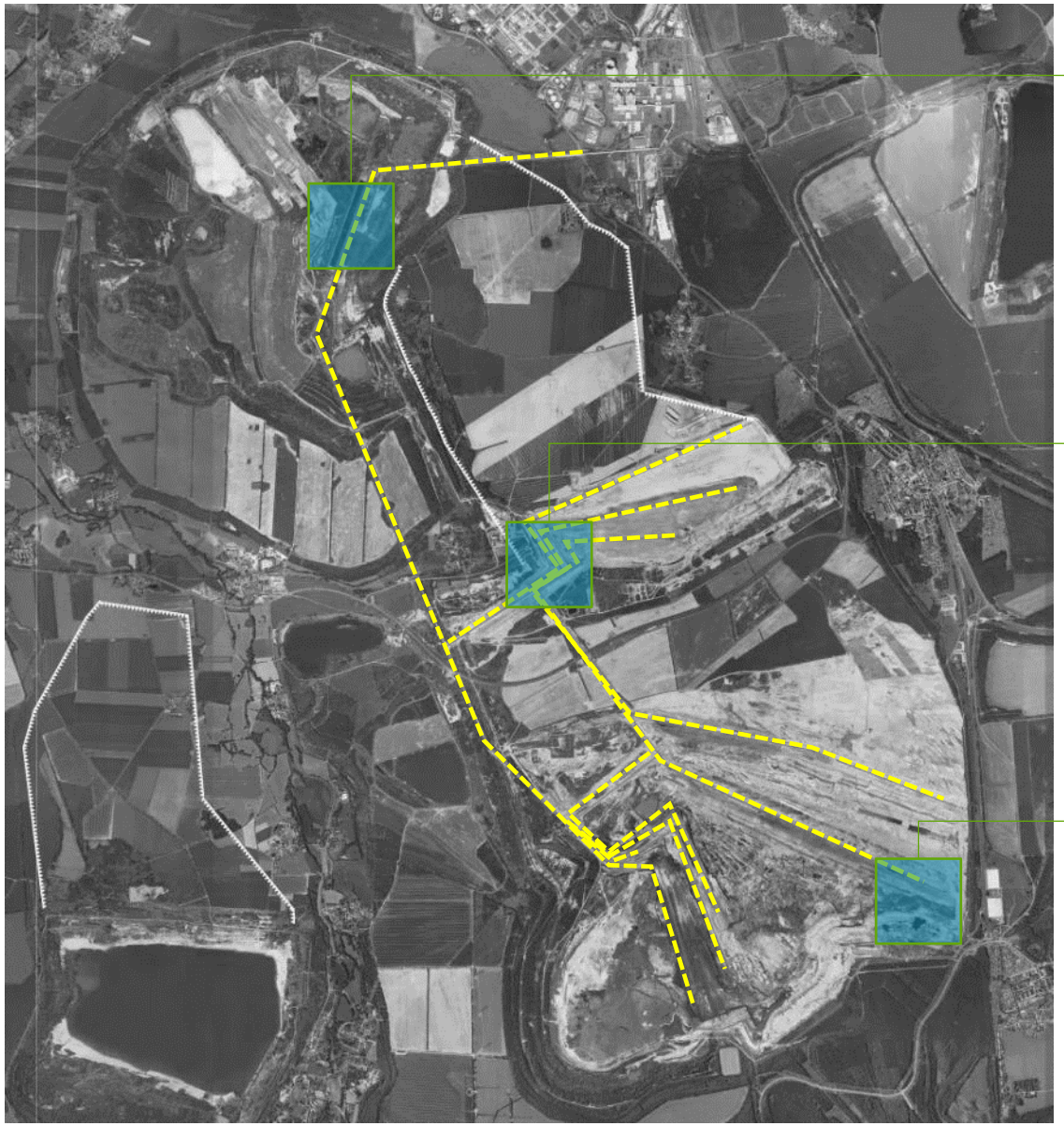
- Wind power park
- Stockyard of 300 kt
- 1 stacker and 1 reclaimer
- Coal laboratory and CQMS
- Water treatment facility

MINING

- 2 Spreaders
- 4 BWEs
- 3 Chain excavators
- Hydraulic excavators

MIBRAG GMBH – SCHLEENHAIN OPEN CAST MINE

MIBRAG CONSULTING INTERNATIONAL



INFRASTRUCTURE

- Stockyard of 400 kt
- 1 stacker and 1 scraper
- Crushers and CQMS
- Water treatment facility
- Recycling of TPP waste

HANDLING

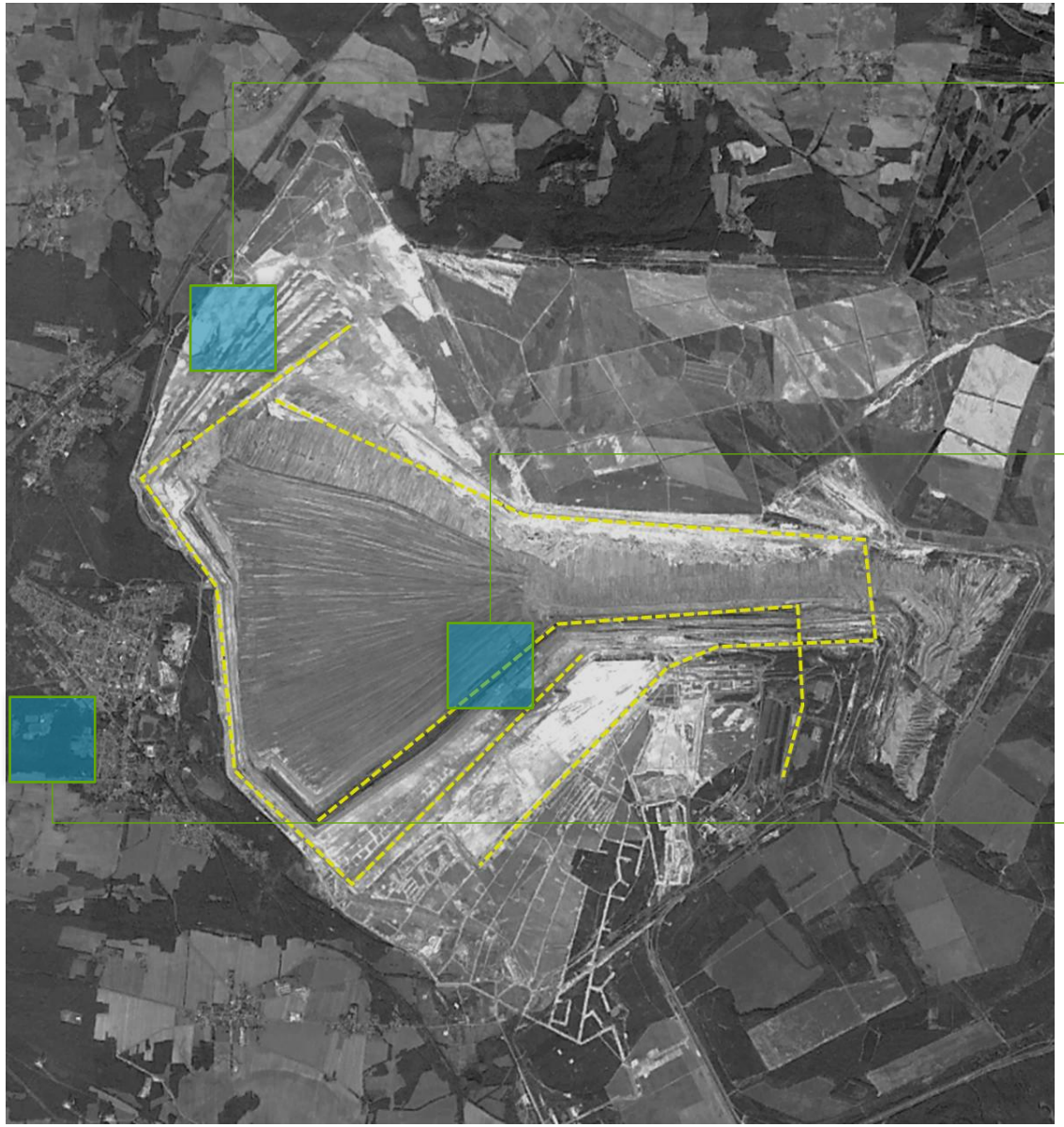
- Conveying system of 36 km
- Overland and shiftable conveyors
- Width of 1.6 - 2.0 m
- 1 Distribution point
- Trucks

MINING

- 2 Spreaders
- 6 BWEs
- 2 Chain excavators
- Hydraulic excavators

LEAG – OPEN CAST MINES (EXAMPLE OF WELZOW PIT)

MIBRAG CONSULTING INTERNATIONAL



MINING

- 7 Spreaders
- 15 BWEs
- 20 Chain excavators
- Hydraulic excavators

HANDLING

- Conveying system of 110 km
- Overland and shiftable conveyors
- Width of 2.0 - 2.5 m
- Overburden bridge
- Trucks

INFRASTRUCTURE

- 3 Stockyards
- 6 Stockyard equipment units
- Water treatment facility
- PV park
- Wind power park

2 MIBRAG CONSULTING INTERNATIONAL GMBH

MIBRAG CONSULTING INTERNATIONAL GMBH

MIBRAG CONSULTING INTERNATIONAL

KEY FACTS

27

Successful cooperation with mining companies worldwide over **2** years

2

Distributing the know-how and experience of **two** big mining companies MIBRAG and LEAG

6,500

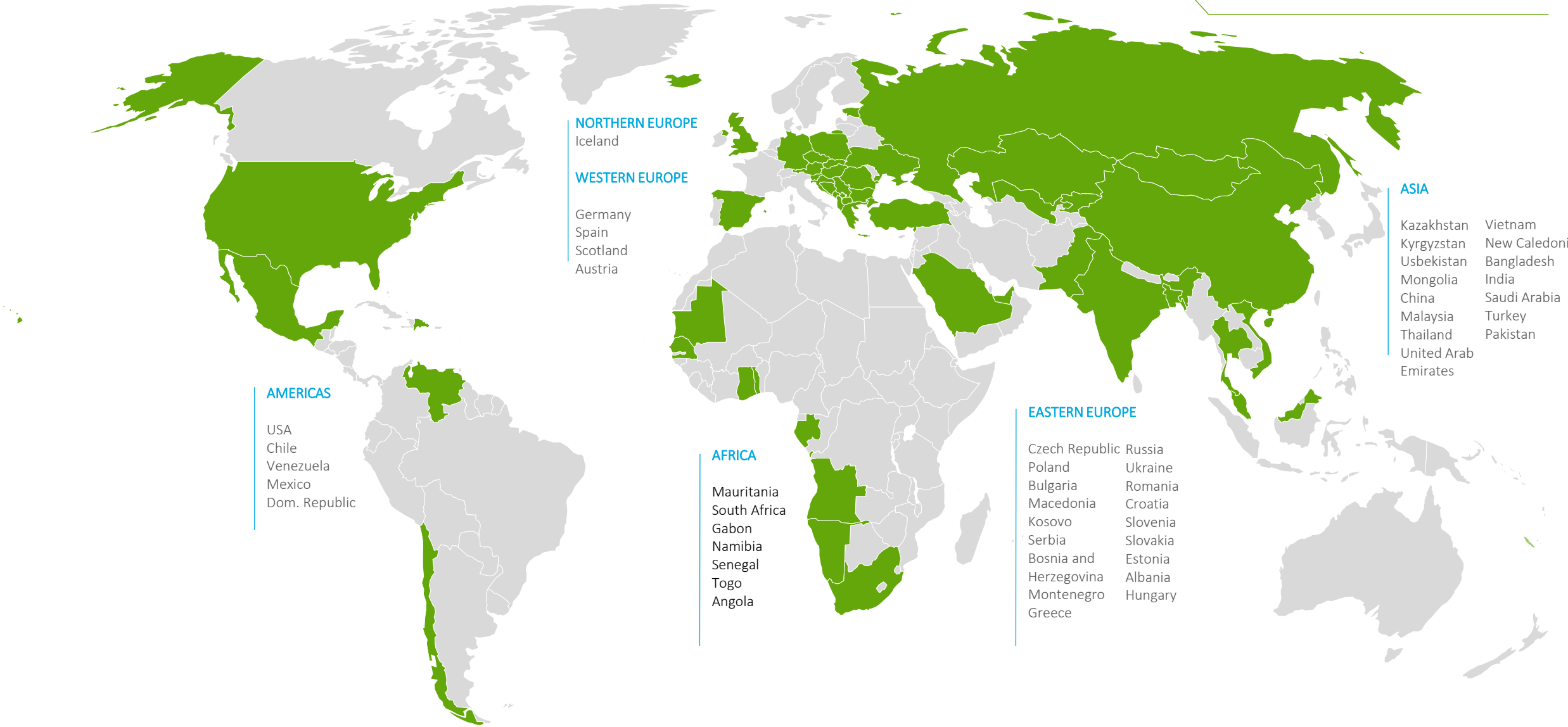
More than **6,500** experts in different fields related to mining

45

Realised and ongoing projects in **45** countries

EXPERIENCE WORLDWIDE (MCI+LEAG CONSULTING)

MIBRAG CONSULTING INTERNATIONAL



NORTHERN EUROPE
Iceland

WESTERN EUROPE
Germany
Spain
Scotland
Austria

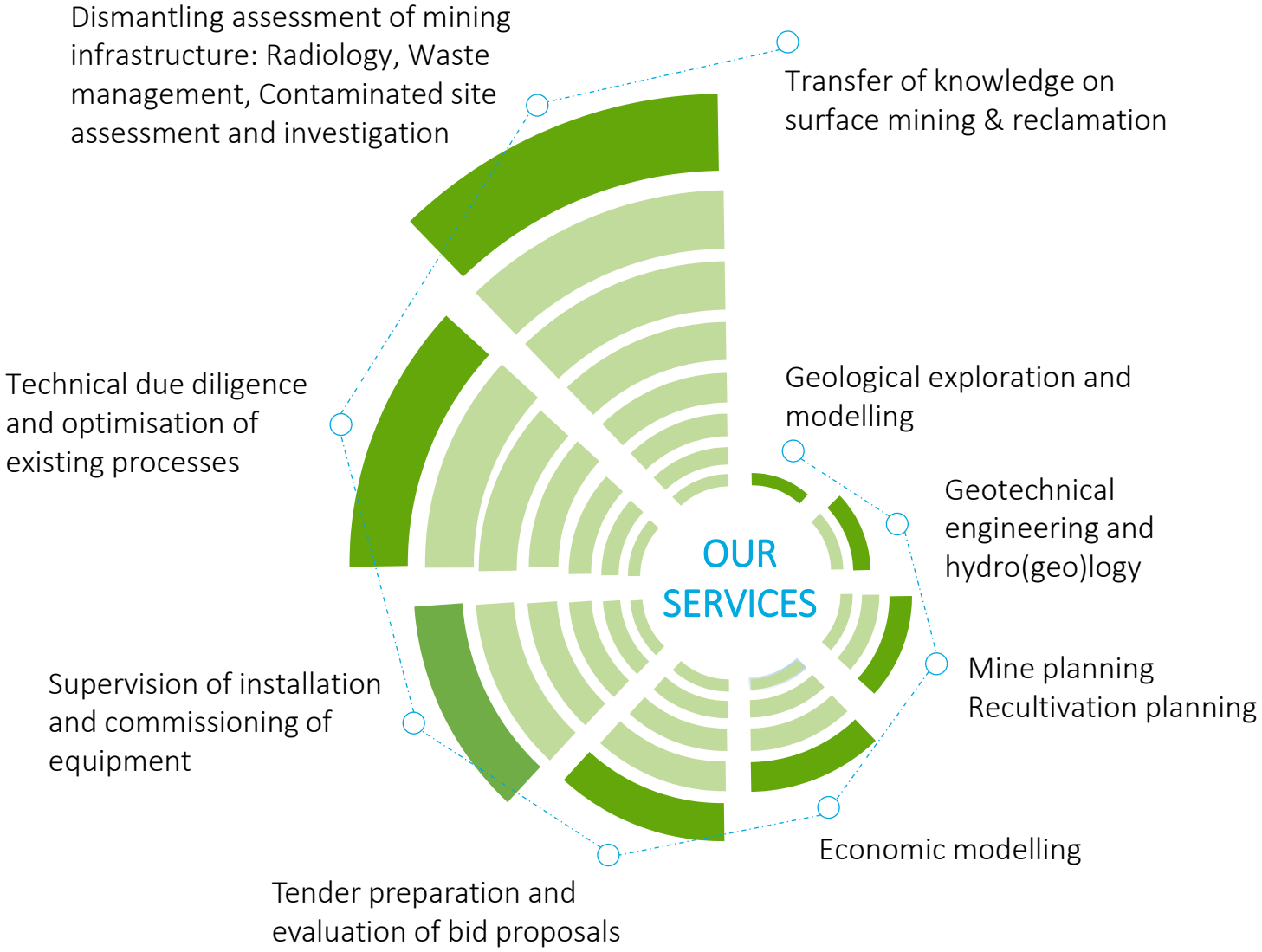
AMERICAS
USA
Chile
Venezuela
Mexico
Dom. Republic

AFRICA
Mauritania
South Africa
Gabon
Namibia
Senegal
Togo
Angola

EASTERN EUROPE
Czech Republic
Poland
Bulgaria
Macedonia
Kosovo
Serbia
Bosnia and Herzegovina
Montenegro
Greece
Russia
Ukraine
Romania
Croatia
Slovenia
Slovakia
Estonia
Albania
Hungary

ASIA
Kazakhstan
Kyrgyzstan
Usbekistan
Mongolia
China
Malaysia
Thailand
United Arab Emirates
Vietnam
New Caledonia
Bangladesh
India
Saudi Arabia
Turkey
Pakistan

MIBRAG CONSULTING INTERNATIONAL GMBH



CONSULTING SERVICES

MIBRAG CONSULTING INTERNATIONAL

Geological Exploration

- Project evaluation and coordination
- Planning and implementation of drilling programs
- Geological mapping
- Sedimentology and Petrology
- Quality control of sampling routines and data management
- Correlation of geological, geochemical and geophysical results
- Geological and geotechnical core logging

MIBRAG CONSULTING INTERNATIONAL

Geological Modelling

- Evaluation of existing exploration data (development of a follow-up program, if necessary)
- Creation of geological databases
- Development of 3D-geological models (stratigraphic models, block models, etc.)
- Calculation of Resources according to international standards for selected commodities (e.g. JORC Code)

SLHOLENAME	SLTOP	SLBASE	SLINTERVAL	SLLITHTYPE	SLLITHDESC1	SLLITHDESC2
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G_10587	5.8	5.8	S_NXP			"
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G_10587	7.8	8.6	1F12	F	cl	kct3x
G_10587	8.6	9.6	1F12	F	cl	kct3x
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G_10587	39.6	40.2	fcl2	F	cl	kct3x
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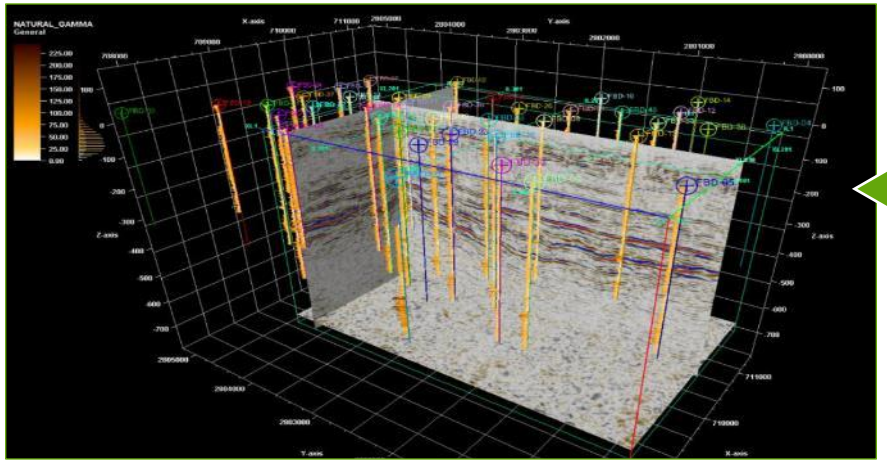
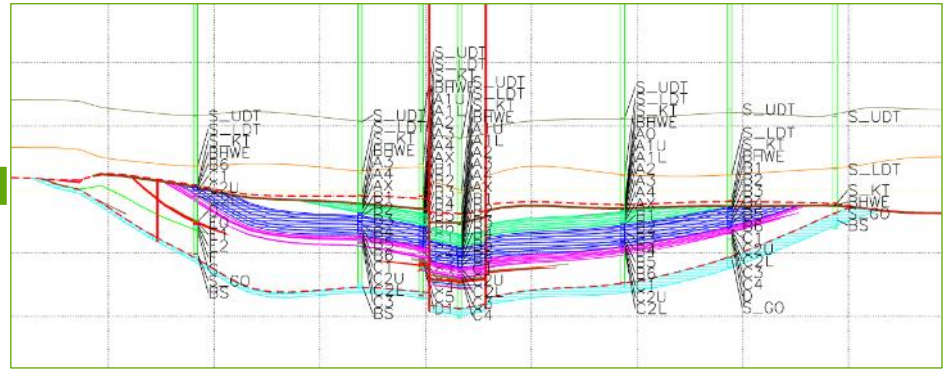
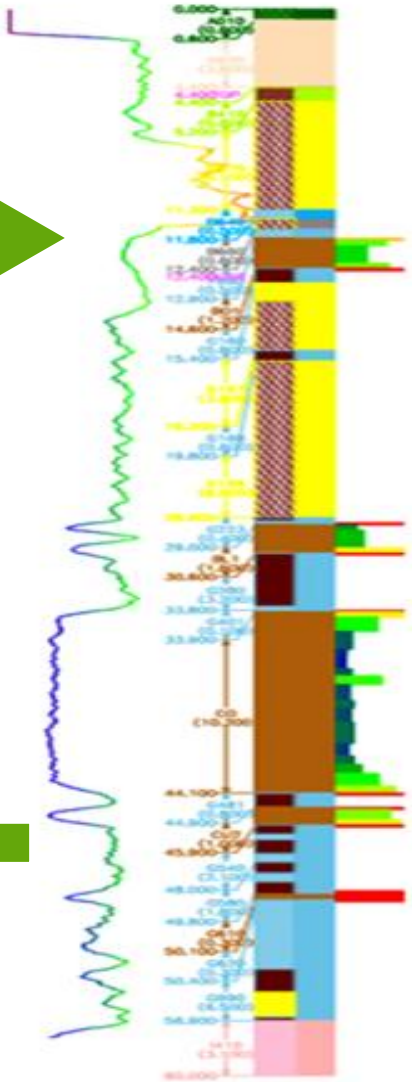
G_10587	41.4	41.4	S_KCT			"
G_10587	41.4	42.2	bsmt	CL3		bsmt
G_10587	42.2	42.8	bsmt	GR		bsmt
G_10587	42.8	46.3	bsmt	GR		bsmt



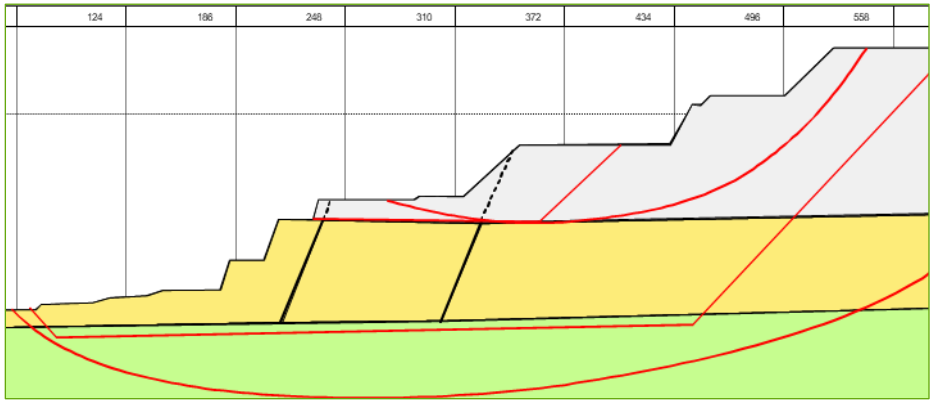




MIBRAG CONSULTING INTERNATIONAL

Geotechnical Engineering

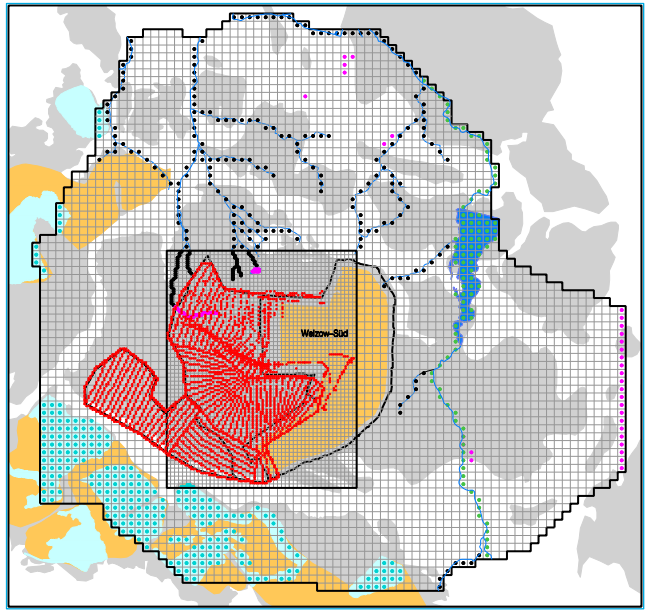
- Assessment of existing data and reports on geotechnical conditions
- Planning (location, drilling method, drill hole depth, sample tube diameter and length, etc.) and supervision of geotechnical sampling during drilling and sampling programs
- Preparation of laboratory test program for soil samples (soil mechanical tests such as shear tests) suited to the specific site conditions
- Supervision of laboratory tests such as shear tests, consolidated-unconsolidated, etc.
- Setup of geotechnical models for various slope stability calculations (for final slope and active slope systems), under consideration of seismic loads, if necessary
- Dimensioning of batter/ berm configuration for hard and soft rock slopes
- Our geotechnical engineers are certified „assessor for slope stability“

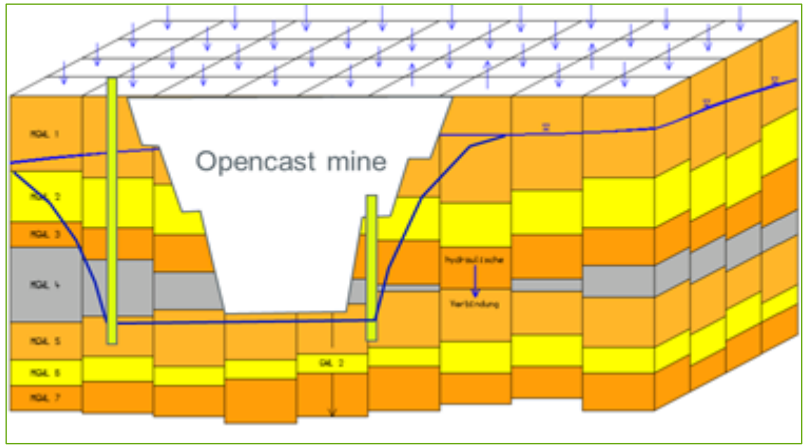


MIBRAG CONSULTING INTERNATIONAL

Hydro(geo)logy and Dewatering

- Creation of hydrogeological and hydraulic ground water models
- Goal: optimised dewatering requirements for safe opencast mining and dewatering forecasts
- Surface dewatering flow chart of rivers and flood protection for opencast mines
- Monitoring of all wells and pumping stations
- Controlled water collection, flood protection
- Control and compliance with limit values
- Targeted distribution of water in a dewatering system

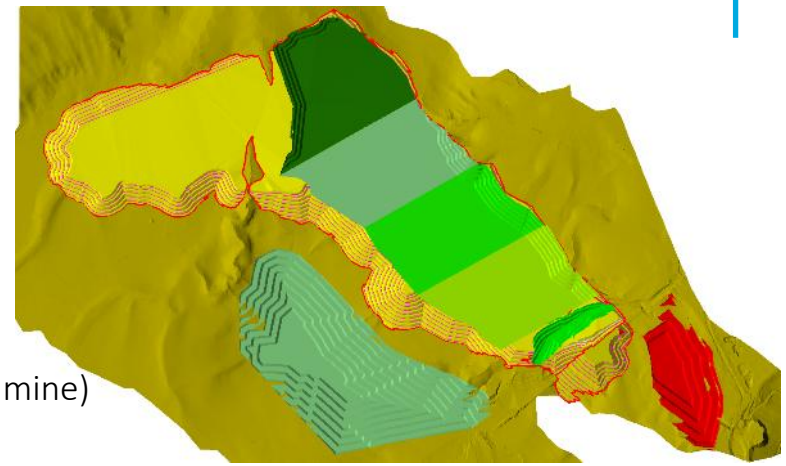


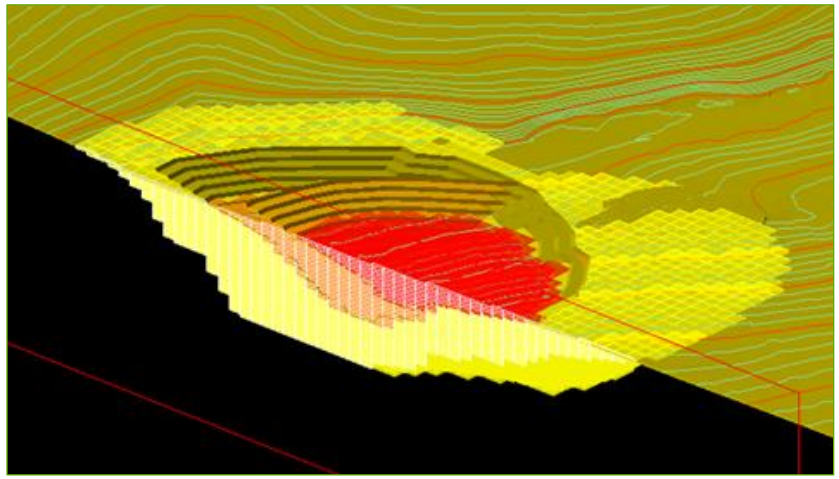


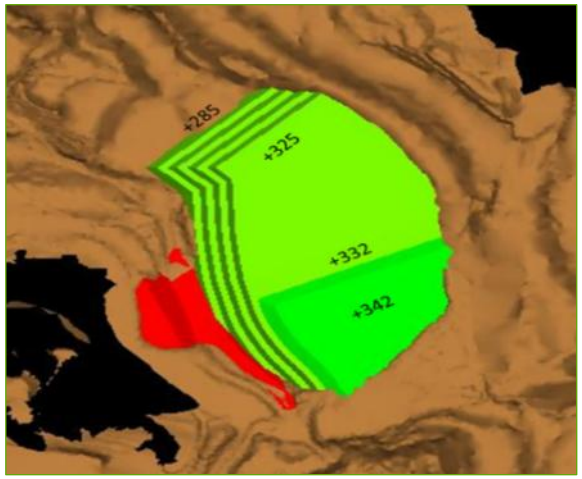
MIBRAG CONSULTING INTERNATIONAL

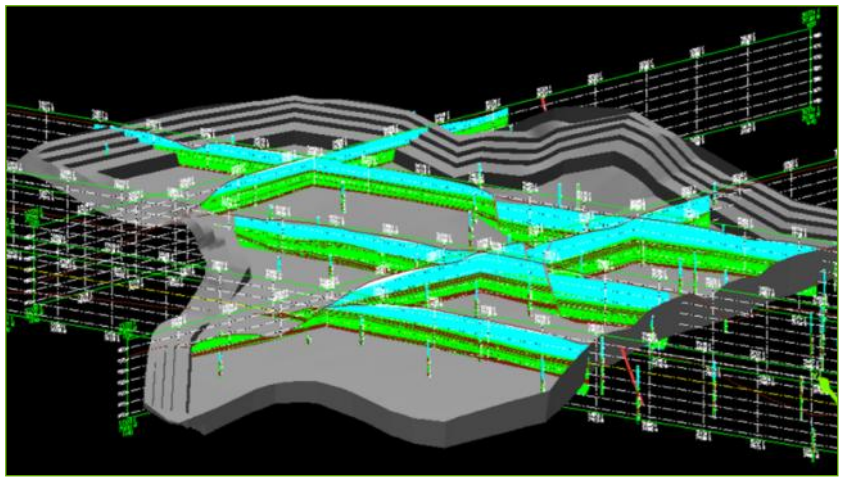
Mine Planning

- Calculation of minable reserves, economic pit shell optimisation
- Preparation of mine and dump designs
- Optimisation of existing mining processes - both on the production side and on the dump side
- Selection of suitable material transport methods (e.g. conveyor, dump truck, road train)
- Preparation of a mass balance and production schedule for mine operation (short, medium, long, life of mine)
- Economic modelling of mining processes and profitability calculations
- Reserve reporting (JORC reporting)





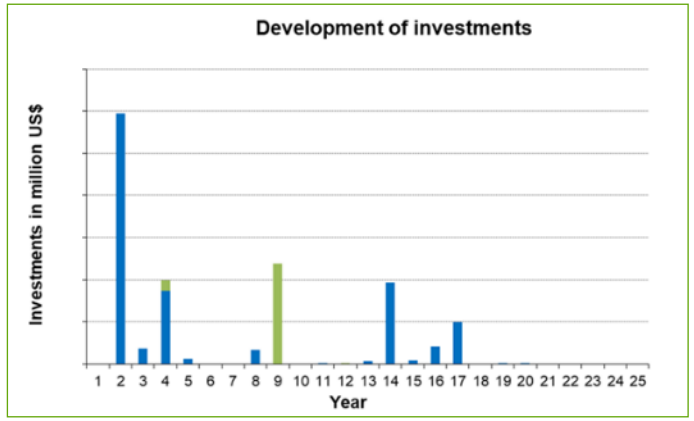


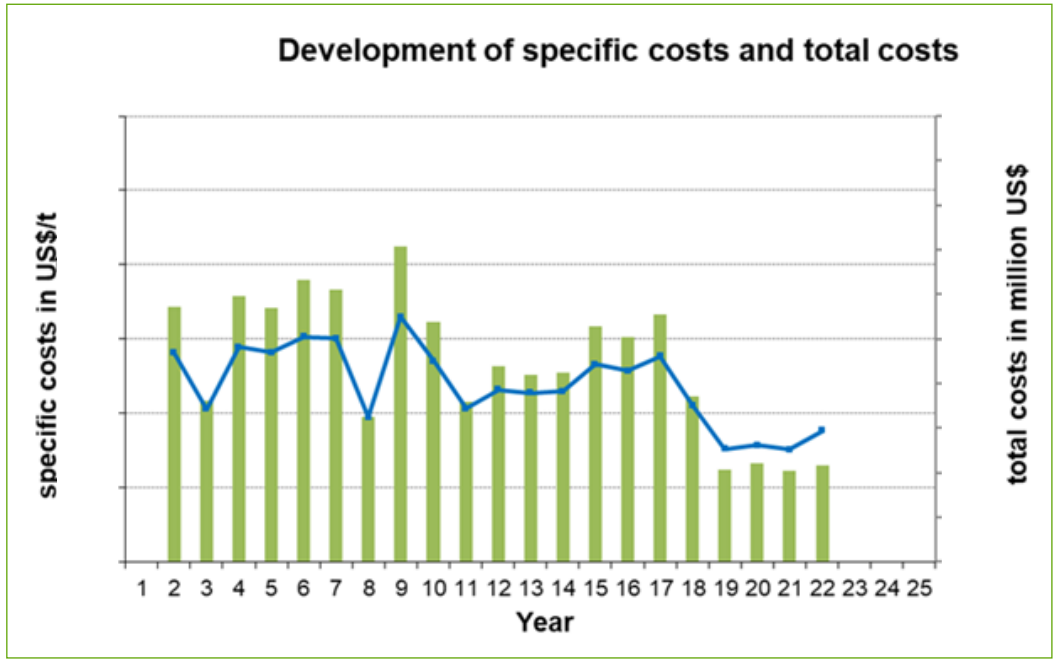


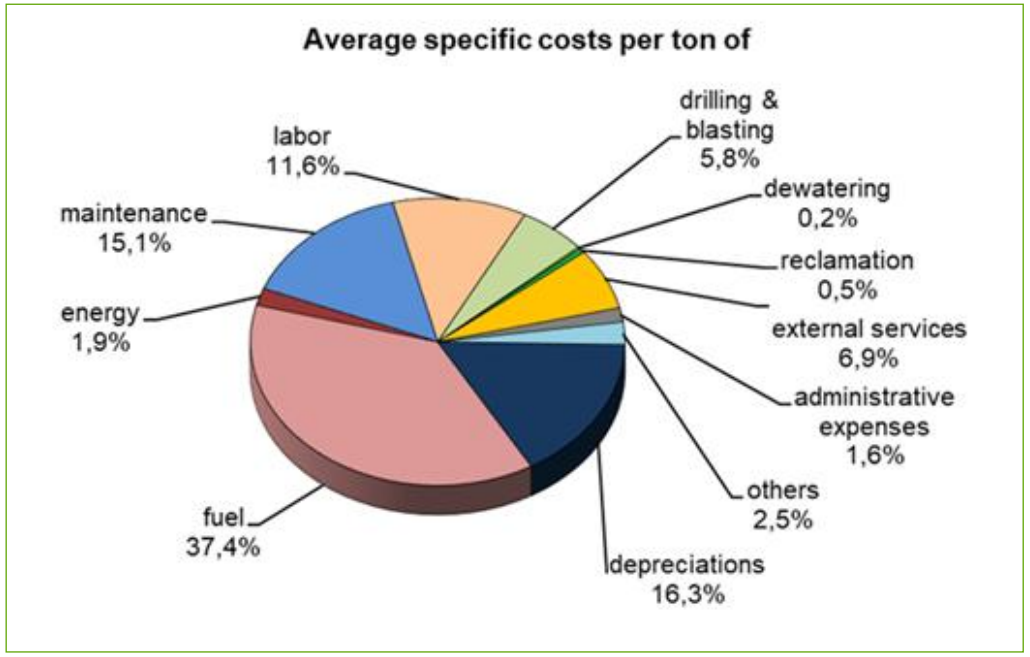
MIBRAG CONSULTING INTERNATIONAL

Economic Modelling

- Financial evaluation of mining projects
- NPV, IRR, payback period, cost per tonne/ m^3,OPEX, CAPEX
- Financial comparison of alternative mining options
- Calculation of mine closure costs



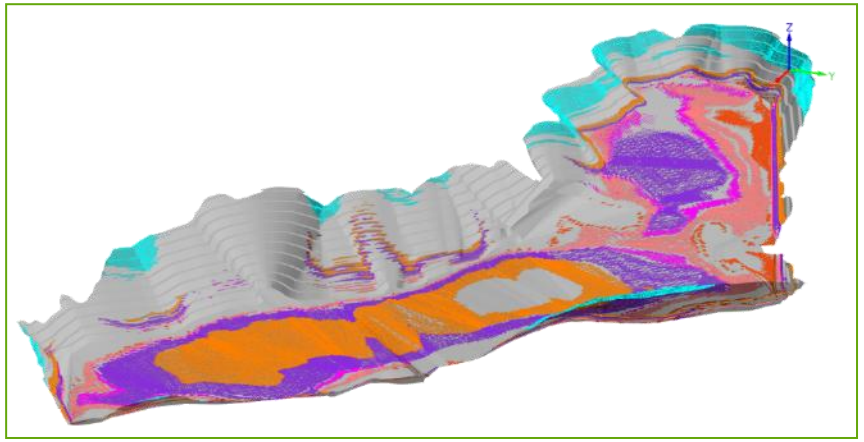




MIBRAG CONSULTING INTERNATIONAL

Transfer of knowledge on surface mining & reclamation

- Tailor-made training courses
- Training based on practical experience, process and successfully applied technologies along the mining value chain within the MIBRAG-LEAG-Group
- Site visits to LEAG/ MIBRAG lignite operations
- Mine planning, geotechnical engineering
- Hydrology, Hydrogeology



MIBRAG CONSULTING INTERNATIONAL

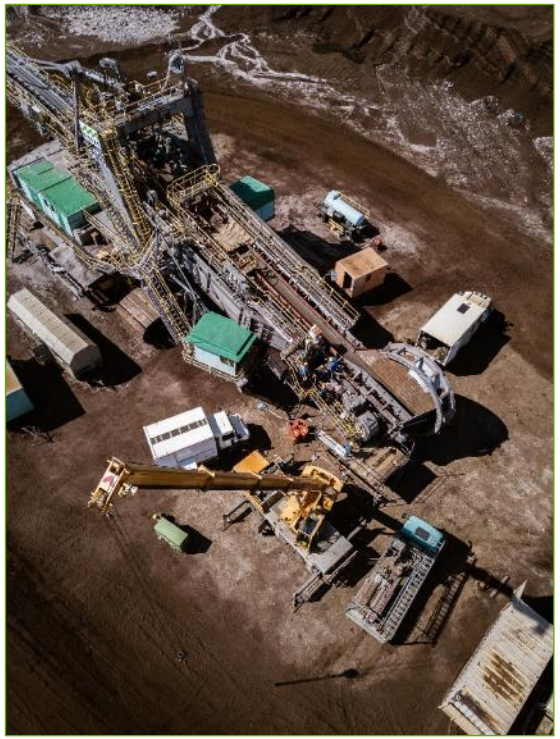
Tender preparation & evaluation of bid proposals

- Preparation of tender documents for clients
- Independent review of tender documents prepared by client
- Ensuring equal opportunities for all tenderers
- No unjustified reference of brands or types of equipment
- Assist in technical and financial evaluation of tender proposals
- Ensuring unbiased evaluation in line with international standards of the procurement guidelines
- Review of prices and data
- Report of tender evaluation including recommendations for approval or rejection

MIBRAG CONSULTING INTERNATIONAL

Supervision during installation & commissioning of equipment

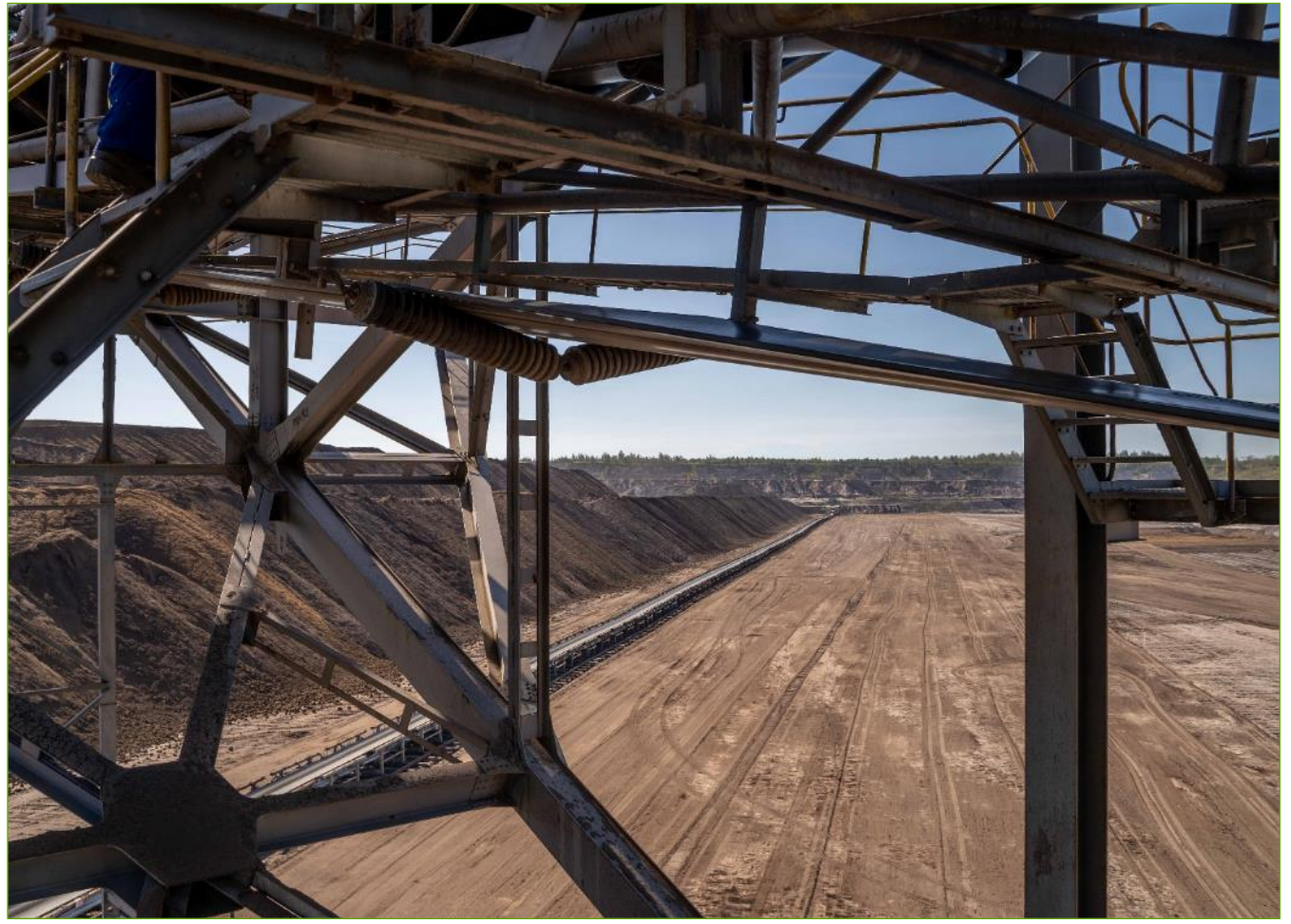
- Ensure design of equipment (mobile and stationary) is in accordance with tender specifications
- Aim to unify technical solutions as much as possible
- Attendance at design meetings and workshop tests (main components)
- Participation in factory acceptance tests and verification of delivered equipment in respect to compliance and conformity with technical specifications
- Supervision of commissioning tests and trial run operation
- Supervision of warranty tests and issuing of completion and acceptance certificates
- Assistance in negotiations and settlement of any claims by the owner, (sub)contractor, and supplier
- Assistance in negotiations and settlement of any disputes in connection with, or arising out of the contract



MIBRAG CONSULTING INTERNATIONAL

Technical due diligence & optimisation of existing processes

- Coordination of external technical, legal and financial consultants/ banks
- Evaluation of current mining situation, including geology, hydrology, hydrogeology, geotechnical, Reserve/ Resource estimation
- Development of different market scenarios (energy/ commodity prices/ political)
- Analysis of organisational structure
- Analysis of equipment, maintenance, infrastructure – maintenance philosophy
- Assessment/ plausibility check recultivation & mine closure plans, recultivation provisions
- Risk assessment & classification



MIBRAG CONSULTING INTERNATIONAL

Project Management and Monitoring

- Coordination, review and approval of detailed design, manufacturing, supply and installation, commissioning works performed by Contractor
- Control of critical path activities, minimise delays and conflicts, identify possible issues, assist owner in mitigating risks for future conflicts
- Anticipate & identify potential difficulties/ delays in implementation of project and effect on implementation schedule, develop & implement steps to overcome these and to avoid delays
- Evaluation and supervision of technical amendments and changes in scope of work
- Review of invoices and reconciliation with completed works – recommendation for payment
- Enforcement of regular project reports on project implementation (including technical aspects)
- Establishment of effective time – and cost control instruments
- Coordination and witnessing of functional and operational tests
- Review and confirmation of acceptance certification
- Analysis of the performance tests

MIBRAG CONSULTING INTERNATIONAL

Environmental Services in Germany

- Contaminated Sites Assessment and Investigation
  - based on the working methods of the federal states with a stepped approach for abandoned, commercial and industrial and contaminated sites -> ***Reclamation and Revitalization of areas***
  - Sample collection of building contaminants and assessment of contamination levels -> ***Demolition and Recycling of building materials***
  - Certified Soil Protection monitoring during construction in accordance with the German laws
  - Investigation and Assessment of Groundwater-Contaminations
- Radiology (for naturally occurring radioactive martials only)
  - Determination of radiological contamination in building materials (e.g., base and subbase levels) using ambient dose rate measurements and gamma-spectroscopic analyses Determination and release from radiological supervision in accordance with German law
  - Exposure assessments in accordance with German law

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Environmental Services in Germany

- Recycling and Waste Management
  - Waste disposal and recovery concepts for waste and mineral substitute construction materials in accordance with German law
  - Monitoring of disposal and recovery flows
  - Documentation of disposal and recovery flows
  - Material flow management
- Geothermal Energy
  - Consulting services for the implementation of renewable and alternative heat supply systems usings hallow geothermal probes and groundwater heat pumps
  - Geological supervision and documentation of drilling operations in accordance with the German law

MIBRAG
www.mibrag.de

MIBRAG CONSULTING INTERNATIONAL
www.mibrag-consulting.de

LEAG
www.leag.de