



CSA Global
Mining Industry Consultants
an ERM Group company

MINING

Delivering comprehensive mining services globally
to help maximise the value of your project.

CSA Global (an ERM Group company) is a geological and mining consulting company providing strategic services and advice to companies in the global minerals sector.

We have more than 35 years international experience across all mineral commodities with offices located in Australia, Canada, Indonesia, Ireland, South Africa and the United Kingdom.



MINING

CSA Global's Mining services team provides effective evaluation, planning, review and development of surface and underground mines worldwide. We have experience across a wide spectrum of mineral commodities and diverse physical environments, delivering practical results with technical excellence.

Our specialist knowledge of diverse types of deposit and mining techniques, combined with our extensive experience, allows us to undertake full technical studies from scoping studies to feasibility studies and due diligence. We identify and investigate appropriate concepts for project development and support this at every stage of the mining cycle.

Our mining team work closely with the geology and resource estimation team to produce integrated solutions across mine planning, development and operations studies to ensure that our recommendations are sound and practical. We propose, and can implement, solutions that consider the project drivers and focus on adding value.

The mining team provide expert advice in preparing valuations of mineral assets and across complex due diligence assignments.

Services and systems we provide include:

- Conversion of Mineral Resources to Ore Reserves considering the 'modifying factors' in appropriate Reporting Codes such as JORC and NI 43-101
- Ore Reserve classification that considers the likely outcomes of the proposed mining and processing method
- Open pit and underground mining studies from concept to feasibility and implementation
- Strategic planning of project development
- On-site technical support and training
- Economic evaluation of costs and revenues, including cut off grade determination



- Financial modelling
- Mine optimisation, design and scheduling
- Mine fleet optimisation and maintenance effectiveness
- Capital and operating cost estimation
- Long term, medium term and short term planning
- Operation monitoring and productivity improvement
- Improvement of grade control procedures to collect, monitor and use data
- Implementation of effective systems to measure and control dilution and ore loss
- Reconciliation between the mill, mine, Ore Reserve and Mineral Resource
- Project evaluation, risk analysis and project management
- Due diligence evaluation of developing, operating and closed mines
- Operational commissioning, trouble shooting and performance improvement
- Safety improvement and ongoing management
- Mineralogy, metallurgical test work, process flowsheet evaluation and design, cost and recovery analysis, preliminary plant design, and optimisation of processing operations
- Training, continuous improvement and change management.

We provide appropriately experienced consultants who are practical, hands-on mining industry professionals able to work closely with corporate management and on-site personnel. We have the commercial skills to ensure that corporate goals are taken into account during each stage of review, planning and operations.

Our project improvement process is focused on enhancing the viability of resource projects, and thereby increasing profitability, through the implementation of proven practices and technological innovations.

We add value by approaching each assignment with integrity and provide dependable decision-making benefits.

Recent Experience

Base Metals	Canada
Base Metals	Armenia
Base Metals	Bulgaria
Base Metals	China
Bauxite	Guinea
Coal	Australia
Coal	Indonesia
Coal	Russia
Copper	Australia
Copper	Brazil
Gold	Kyrgyzstan
Gold	Indonesia
Gold	Australia
Gold	Philippines
Gold	Mali
Gold	Burkina Faso
Gold	Russia
Gold	Kazakhstan
Graphite	Tanzania
Iron Ore	Guinea
Mineral Sands	Australia
Nickel	Indonesia
Nickel	Australia
Nickel	Guinea
Tin	Malaysia



About CSA Global

CSA Global delivers trusted technical services, training and independent advice to public and private mining companies, governments, industry associations, financial and legal groups around the world.

We are fully supported by our parent company ERM, a leading global provider of environmental, health, safety, risk, social consulting services and sustainability related services.

Collectively, we have more than 6,100 people in over 40 countries and territories working out of more than 160 offices globally who are helping us to deliver innovative solutions to help our clients manage and understand their sustainability challenges.

CSA Global specialises in:



CORPORATE



MINING



RESOURCES



EXPLORATION



DATA & TECHNOLOGY



WATER

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