

STRENGTHENING STUDY ON CONCENTRATED MINERALIZED AREA: GUARANTEE OF SUS-TAINABLE DEVELOPMENT OF MINING INDUSTRY

WANG DONGBO, SHAO SHICAI, XU YONG. Beijing Institute of Geology for Mineral Resources, Beijing, P. R. China

The concentrated mineralized area (CMA) is an area (covering hundreds km²) in which several medium-large (super-large) ore deposits are concentrated. About 80% of proved ore reserves are discovered in CMAs in China. One CMA is commonly a large mining base. The exploration experiences have demonstrated that CMAs still have great potential for development of mineral resources since 1980s. Besides the considerable discovery of ore bodies in the depth and periphery of mining field, the new types of and new elementary kinds of ore deposits have being continuously discovered through exploration. The convenient transportation and infrastructure can reduce the costs of development of mineral resources in the CMAs. The massive mining activities in the CMAs raise a challenge for ecological environment, which furthers the improvement of environmental protection technology. The continuous exploration and discovery of new mineral deposits in the CMAs deepen the understanding of regional geological setting, and promote the advancement and breakthrough of geosciences, as well as improve exploration technology and upgrade integrated exploration methods. Consequentially, in order to guarantee the sustainable development of mining industry and balance of ecological environment, it is imperative to strengthen the comprehensive study on metallogenetic environment, exploration technology and environment protection.