

POSITION, CHANCE OF MINING SECTOR IN VIETNAM

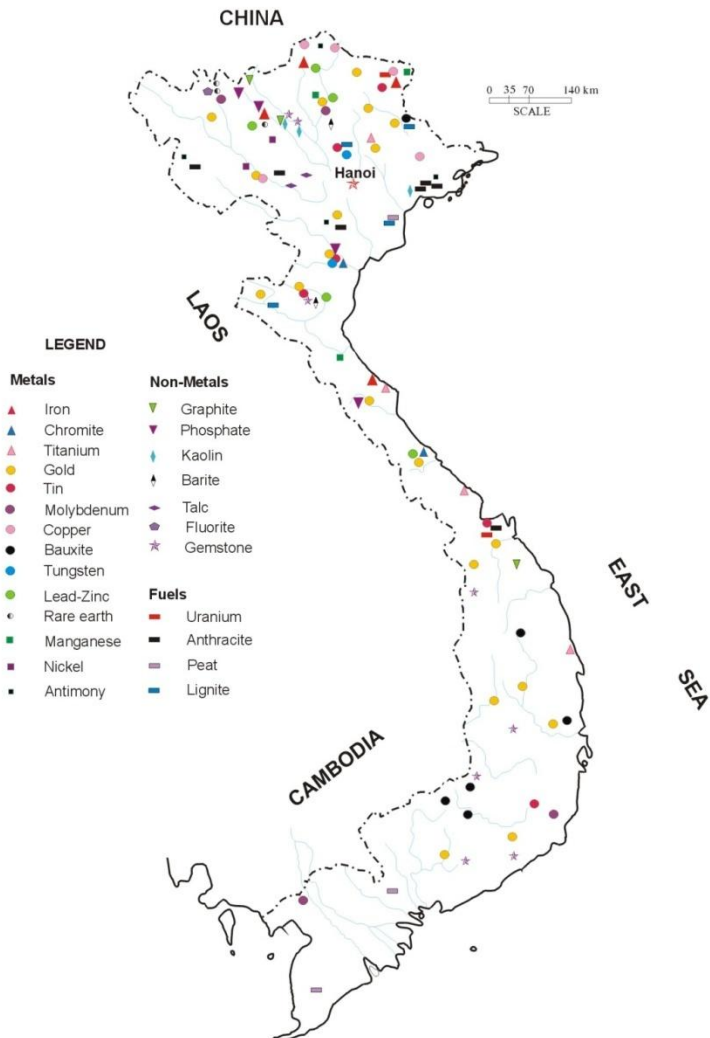
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Potential of Mineral Resources of Vietnam

Overview



- More than 5.000 ore deposits and ore occurrences of 60 mineral types have been explored and assessed
- Some type of mineral deposits with big reserve and have great economic value, eg: bauxite, titanium - zirconium, photphorite, copper, coal, gold, iron, tungsten-tin and industrial minerals.

Potential of Mineral Resources of Vietnam

Overview

- **1. Bauxite:** Sedimentary bauxite deposits and weathering related bauxite deposits
- **2. Titanium-Zirconium:** distributed mainly in the sand dune along the coastal zone with total reserve of 500 millions tons.
- **3. Coal:** Mainly distributed in Quang Ninh province and Red river delta. Total reserve is 40 billion tons, of which, 10 billions tons of antracite coal in Quang Ninh.
- **4. Rare earth elements:** Resource and reserve of REE in Vietnam is about 17 million tons of oxide REE distributed mainly in North & South Nam Xe, Dong Pao (Lai Chau province), Muong Hum (Lao Cai province) and Yen Phu (Yen Bai province).
- **5. Photphorite:** 17 mines and occurrences of apatite ore have been recorded in Lao Cai province, along the right bank of the Red River, from Bat Xat to Van Ban districts

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- **6. Iron ores:** Discovered 80 mines, including 7 large-scale mines.
- **7. Copper:** Total copper resources have been explored as 3.5 million tonnes. Total copper reserves have been explored is 1.47 million copper tons
- **8. The other types of minerals:**
 - Tungsten deposits are mainly distributed in northeast Vietnam, total reserve have been explored is 0.3Mt WO_3
 - Lead-zinc deposits are mainly distributed in northern Vietnam, total Pb+Zn reserves have been explored is 1.3Mt
 - The other mineral deposits (Au, Mn, Mo, etc.) and industrial minerals (sericite, kaolinite, etc) are small and scattered across the country

2. Policies about mining industry in Vietnam

2.1. Mineral Law 2010:

The law was passed by the National Assembly of the Socialist Republic of Vietnam at the 8th Session of the 12th National Assembly on 17 November 2010.

There are a lot of new points in the Mineral Law 2010



2. Policies about mining industry in Vietnam

- **2.2 Mineral Strategy:** The Mineral Strategy until 2020, vision 2030, in accordance with the regulation of Mineral Law has been approved by Vietnam Prime Minister on 22nd December 2011 include: strategy, long-term target, priority for basic geological investment of mineral resources. Exploration, mining associated with deep processing. Balance between exploitation and mineral reserve; sustainable development mining industry associate with environment protection and ensure national security.

2. Policies about mining industry in Vietnam

2.3. *Environmental protection*

- Although, the environmental law and related legal documents issued recently focusing on the enhancing the environmental protection in general, the mineral law 2010 has formulated in one chapter specialized in environmental protection in mineral activities, water usage, fundamental in mineral activities. Accordingly, the environmental protection following the EIA and rehabilitation report for the all stages of mineral activities must be done.
- At this forum, we expect the foreign entities, which hold high technologies, will cooperate with Vietnamese once to invest in mineral processing.

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THANKS FOR YOUR ATTENTION!