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The National Geological Plan of Angola (PLANAGEO)

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Abstract

The National Geological Plan of Angola (PLANAGEO) has been one of the most significant african geothematic projects of recent decades. The Government of the Republic of Angola launched the project through Presidential Resolution 52/09. The project was implemented by the Geological Survey of Angola (IGEO) under the supervision of the Angolan Ministry of Mineral Resources, Petroleum and Gas (MIREMPET). The main objectives of PLANAGEO were to deepen the knowledge of Angola's geological resources, to foster the diversification of the national economy, and to attract foreign investment to promote the socio-economic development of the country. The PLANAGEO consortium, consisting of the Geological and Mining Institute of Spain (IGME), the National Laboratory of Energy and Geology of Portugal (LNEG), and the company Impulso Industrial Alternativo (IIA), was awarded to execute the project in southern Angola, covering an area of approximately 480,000 km². The contract, worth USD 115,312,500, was signed in October 2013 following an international call for tenders by IGEO. The work was carried out between July 2014 and the end of 2022. The project involved a regional aerogeophysical survey (magnetic/radiometric) and geological mapping at a scale of 1:250,000, along with other detailed geological mapping at a scale of 1:100,000. Additionally, synthesis mapping was carried out at scales of 1:500,000 and 1:000,000. Geochemical prospecting campaigns were conducted at a scale of 1:250,000, and other specific studies were made at a scale of 1:50,000. These studies included Metallic Minerals Mapping (CRMMA) and Rock and Industrial Minerals Mapping (CARMINA) in areas of special interest, for investigation of the potential of metallic and non-metallic mineral resources; as well as hydrogeological studies in the Angola's Kalahari basin very much needed to relieve the present drought in the basin where underground water reservoirs are poorly known.

Keyword

Republic of Angola, Geological/geophysical/geochemical cartography, Natural resources