SEKCOKO RESOURCES www.sekokko.co.za

CORPORATE BROCHURE



Sekoko Resources wants to extend its reach from exploration and development to supporting South Africa's energy independence by harnessing the resources it can recover with emerging power generation technology. Jayne Alverca reports

the

iversity has been the hallmark of Sekoko since the company was founded in 2004. Its interests in South Africa's Limpopo Province range from coal bearing properties in the Waterberg, Tuli and Mopane fields in the north, through to platinum reserves on the eastern and western limbs of the Bushveld igneous complex in the south, and iron ore in the Capricorn region, north of Polokwani. To complete the energy cycle, Sekoko is also closely examining the application of new sustainable technologies which will see it diversifying into oil production and power generation during the next decade.

Sekoko Resources



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Much of the portfolio is still at the initial The Waterberg coal reserves are located on eight exploratory phase; however, in a recent landmark farms in an area of just under 8,000 hectares and announcement, Sekoko's flagship project, the represent one of South Africa's largest undeveloped Waterberg coal project, has received the green coal deposits. When in full production, Waterberg light for development in a joint venture with will produce approximately three million tonnes Firestone Energy, an independent Australian per annum of washed export-grade coking coal, exploration company. The two companies have destined principally for China and India. recently signed a shareholders' joint venture The project is expected to start production at about 43,000 tonnes in April 2012, ramping up to agreement to develop Waterberg, declaring in a

joint statement issued in February 2011 that the 83,000 tonnes in April 2015. It comprises all eight decision was based on the economic robustness farms in the Waterberg coal field and entails the construction of an open-cast coal mine on the of the venture as indicated by extensive studies.





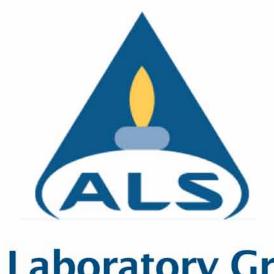












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From here, and our satellite laboratories, we are able to provide testing and analysis of bore core exploration samples, consignment sampling and analysis, superintending of exports, efficiency testing of washing plants and boiler operations, and bias testing of sampling facilities for major mining companies such as Sekoko.

"When in full production, Waterberg will produce approximately three million tonnes per annum of washed export-grade coking coal'

Smitspan farm. The feasibility study had shown that will increase strongly as pressure on oil supplies Smitspan alone contains sufficient coal to produce and prices continues to mount. The potential to around 120 million tons of coal for power stations. utilise coal to offset petroleum consumption in with some of the higher grade coal suitable for the the transportation sector is viewed as critical to metallurgical and thermal export markets. South Africa's long term economic future.

However, a major feature of the development In response to these challenges, Sekoko is will focus on opportunities to progress up the exploring the development of an integrated value chain into gasification technology, with the standalone greenfield coal-to-liquids (CTL) and economic potential for the production of power, co-generation power facility that could produce chemicals and liquid fuels. Sekoko believes it can approximately 50,000 barrels of synthetic fuel and make an important contribution to South Africa's 300 megawatts of power per day based on the drive towards lessening its reliance on energy coal assets contained at the Waterberg project. imports, particularly oil. Even before civil unrest CTL is a proven technology capable of and revolution took hold in the Middle East, oil converting coal into gas and synthetic fuels, and production was struggling to keep pace with rising the associated combined-cycle power units have world demand. South Africa depends on oil for over been shown to produce around 20 per cent less half of its consumer energy and 70 per cent of its CO2 than conventional coal fired plants-a figure transport energy-and most of this oil is imported. that can be further reduced with carbon capture Long term forecasts suggest demand for coal technology. However, the company believes that





"Sekoko's flagship project, the Waterberg coal project, has received the green light for development in a joint venture with Firestone Energy"

future generations of carbon capture technology could potentially reduce CO2 emissions to zero. A shift towards this form of power generation would not only support South Africa's energy security, but would also make a contribution to greater environmental sustainability.

The company believes it can also harness new sustainable technologies at its magnetite iron ore project in the Capricorn region. This project involves the development of a greenfield open-cast iron ore mine in the Polokwane area. Here, Sekoko is targeting an unweathered magnetite guartzite resource of between 300 million and 600 million

tonnes, which is thought to be capable of producing approximately 20 million tonnes of magnetite concentrate per year. Preliminary metallurgical tests have delivered excellent results, showing high recovery levels and minimal contamination.

The iron ore will be extracted by conventional methods from a series of open pits. Once crushed, a second phase of the development envisages the development of a sustainable iron ore smelter facility. The company is currently undertaking a study of how new technology could enable the smelter to use iron ore fines directly, without the need to sinter or pelletise, and enable the recycling

Cabanga Concepts cc

Cabanga, the appointed environmental consultants for Sekoko Resources projects, have been an integral part in bringing their Waterberg operation to fruition. Cabanga was formed in 2006 and specialises in strategic concepts, environmental and social management projects. We have extensive experience in the environmental management field, during which time we developed numerous concepts to protect the environment.

The development of these reserves can be expected to show a similar flair for innovation. A of iron-bearing wastes. Drawing on the coal reserves strong environmental and technological focus are at its disposal, Sekoko is also investigating how key elements of future strategic plans and Sekoko is determined to demonstrate that an ethical approach coal could be introduced directly, with no coking or other thermal pre-treatments. to business can be compatible with maximising the Meanwhile, there are still other promising value of its assets. www.sekoko.co.za



projects in the pipeline. The Tuli coal project is still at the initial exploration stage, and Sekoko continues to investigate two platinum bearing sites. One, at Sekhukhuneland on the eastern limb of the Bushveld complex-the world's largest known reserve of platinum-is located mid-way between two well established and productive mines. Efforts at the second platinum project, on the western limb of the Bushveld complex near Thabazimbi, have focused on assessing, exploring and evaluating the mineral resources for commercial exploitation.

