



## Morupule Coal Mine

*Seam to Energy*



### Safety, Health and Environment

**Our motto** is 'Zero Harm'.

Morupule Coal Mine is ISO 14001:2015, ISO 45001:2018 and ISO 55001 certified.

### Social Performance

**Morupule Coal Mine's** approach to sustainability focuses on its commitment to managing risks and mitigating the impacts of our operations while creating shared prosperity for all our stakeholders.

#### Contact us

Morupule Coal Mine

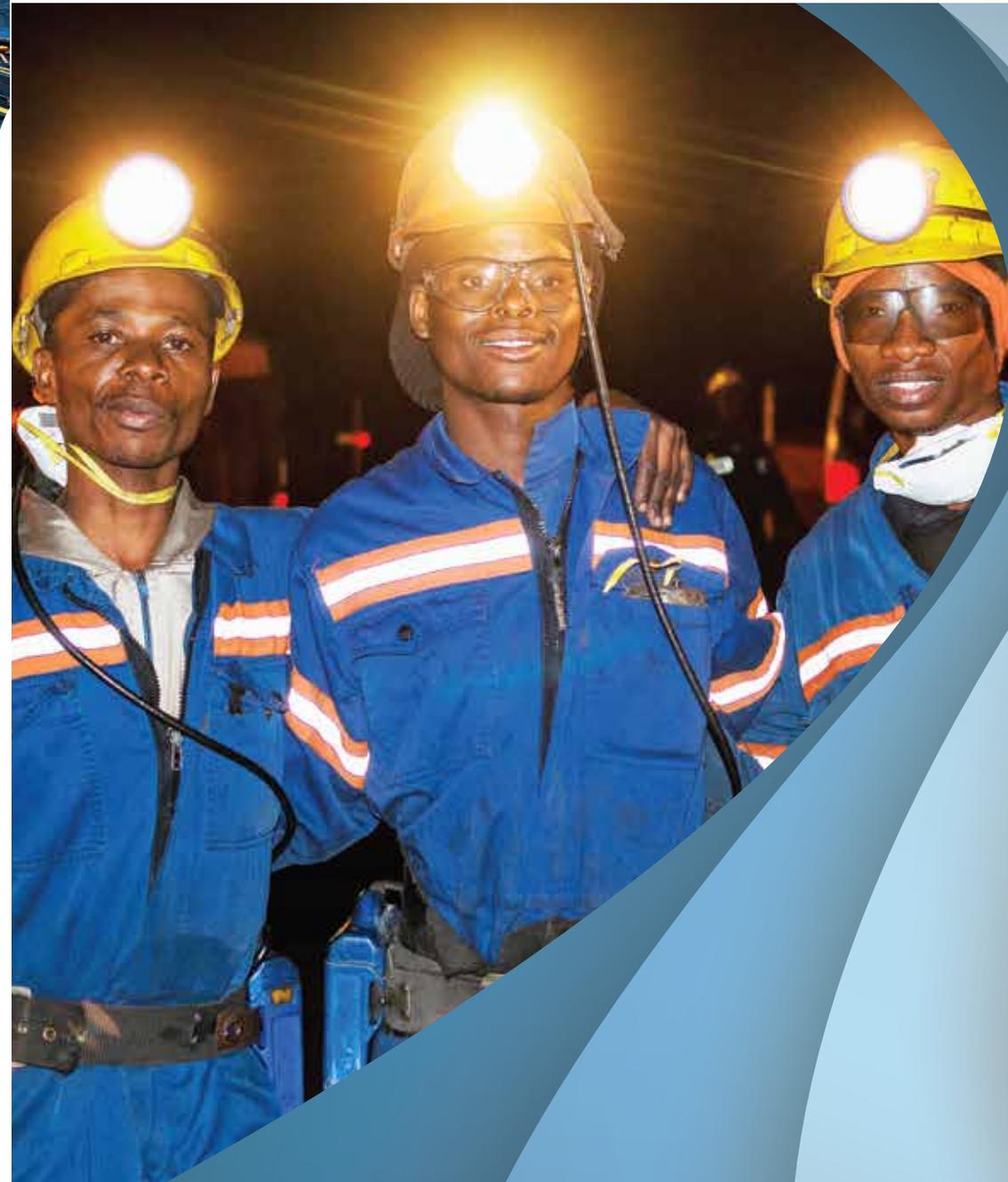
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## About Us

**Morupule Coal Mine (MCM)**, initially known as Morupule Colliery, was established in 1973 as a subsidiary of Anglo American Corporation. MCM has grown from a 30 thousand tonnes per annum via conventional drilling and blasting operation, to a single section 1mtpa continuous miner operation in 2005. MCM ownership was transferred to Debswana Diamond Company in 2000 when Anglo disinvested its operations in Botswana. In 2016, the De Beers interest in MCM (held under Debswana) was acquired by the Minerals Development Company Botswana (MDCB), giving MDCB 100% ownership of MCM.

**Morupule Coal Mine** is located 14 km northwest of the urbanized village of Palapye (the fastest growing center outside the capital city of Gaborone), along the Serowe-Palapye national highway (A14).

### Vision

To be a leading coal energy business.

### Mission

We mine coal and deliver energy for the benefit of our stakeholders in a sustainable manner.

### Values



SAFETY



PASSION



CARING



GROWTH



WORKING TOGETHER



EXCELLENCE



### MCM Background Information

MCM operates a 3 million tonnes per annum (mtpa) bord and pillar underground mine in the MCM1 resource block, within a 4 billion tonne classified semi-bituminous thermal coal resource in a fairly favourable geological setting. The resource is largely unexploited, some towards the west of the 425km<sup>2</sup> mine lease, present in-situ calorific value (cv) as high as 25MJ/kg (adb). Current activities exploit reserves of in situ cv of 22-23MJ/kg (adb), supplying mine mouth power plants and other customers, with some of the ROM coal being upgraded in a DMS (WEMCO drum 16x75mm particle size) plant to various washed products that average cv of 25.5MJ/kg (adb), sulphur and content below 0.8% and 15% respectively. The mine operates its own railway siding that links into the national rail line that evacuates products to the north and the south of the country.

MCM coal has "self-scrubbing" characteristics and unlike many coals, does not have proclivity to produce acid mine drainage. This is due to the unique proportion of the buffering inorganic minerals in the coal to the acidic minerals.

MCM is undergoing a second expansion of its operations since the MCM1 Expansion Project undertaken between 2008 and 2011. MCM1 expansion increased ROM coal production capacity to 2.8mtpa. The latest expansion is branded Project Motheo, exploiting the resources within the MCM3 resource block. Construction of Project Motheo will deliver a 3mtpa truck and shovel open cast mine, producing ROM coal at 2mtpa and up to 1.2mtpa low ash and low sulphur washed products into the regional market (cv of 25.0 – 26.0 MJ/kg air dried) by end of March 2021. The washed product from the open cast operation (0x50mm particle size) is anticipated to be of a better quality than current DMS due to DMS cyclone and the particle size being processed.

Strategically, the open cast mine can be scaled up, to produce up to 6mtpa saleable coal at these qualities, coupled with development of rail link into the Waterberg region of RSA and other markets that are currently being studied.

### Our Product

We produce different specifications of coal being:

