## Contractions & Exhibitions Australia P

2025 **April** 

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Boonanarring's success in its evolution from explorer to miner as it readies for

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Valued at \$500b, the estimated market for key energy transition minerals rivals iron ore. The time for investment is now, with experts anticipating the market to more than double, surpassing \$1t by 2040.

In the first installment of our critical minerals outlook, we explore the investment-ready projects from Austrade's Australian Critical Minerals Prospectus that will convert our resources into results.

### **EnviroMist**<sup>®</sup> **INNOVATE DUST CONTROL AT GOONYELLA**

n 2018 EnviroMist was approached by BMA Goonyella Riverside's Engineering Department to design and supply a High Energy Micro Mist system to suppress dust generated at the Goonyella Riverside's ROM 1 Coal stockpile. As there was no available electrical power at the installation point, EnviroMist designed and manufactured a containerised, diesel engine driven high pressure pump system to supply pressurised water to the misting spray bars mounted on the discharge point of the conveyor to suppress liberated dust at the stockpile.

The ROM 1 Dust Suppression System continues to provide dust suppression capability for the Coal stockpile.

In 2019, EnviroMist was again tasked to provide a solution to suppress dust generated from rear dump trucks discharging at Riverside ROM 3, which was affecting the site workshop and surrounding infrastructure.

EnviroMist designed and supplied a bespoke system, utilising a pressure boosting pump, filtration system and storage tank coupled to EnviroMist's patented spray bars mounted on either side of the ROM walls to suppress the liberated dust within the high windage environment of ROM 3 bin.

The EnviroMist's dust suppression equip-

ment is designed for a 20 year life service with the pump (in frame) undergoing a 'wet end' rebuild between 10,000 and 15,000 operating hours, keeping maintenance costs to a minimum.

Another benefit of the ROM 3 system is the option to also supply dust suppression to the Breaker Station and Rejects Stockpile via switchable HP valves.

EnviroMist continues to support Goonyella Riverside Mine with its maintenance and spare parts requirements and is engaged in ongoing Research and Development to create incremental system improvements. In the longer term, EnviroMist intends to develop a modular Dust Suppression System, which will provide substantial benefits to Goonyella Riverside Mine and other clients, such as reduced lead times for manufacturing, reduced installation costs and the capability to relocate the Dust Suppression System to other areas of the mine site.

EnviroMist congratulates Goonyella Riverside Mine on achieving its operational milestones and improving environmental and workplace health and safety outcomes through the implementation of the EnviroMist Dust Suppression System.

> For more information: www.enviro-mist.com.au AMR

# DUST SUPPRESSION **SYSTEMS**

ROMs & Stockpiles **Transfer Points & Chutes** Crushers & Conveyors

### **NEW** Containerised System

UV Water Treatment (optional) Water Conditioning Decalcification System (optional)



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CONTAINERISED DUST SUPPRESSION SYSTEM





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