

Global Metals & Mining

Takeaways: costs, supply constraints and resilient demand to support coal prices

Industry Overview

Coal prices supported by cost and supply constraints

We hosted a conference call with Wood Mackenzie's coal analysts today on the outlook for global met and thermal coal in 2024 and the next decade. Supply constraints, costs and energy crisis will continue to support met and thermal coal prices in the next few years. WoodMac forecasts 90th percentile met coal breakeven price at US\$179/t (real) which is different to BofA's estimated LT met coal price using incentive price of US\$200/t (real). WoodMac's LT thermal coal price of US\$102/t in a balanced market is largely in-line with BofA's LT thermal coal price forecast of US\$100/t (real).

Met coal export from Australia is expected to recover

Weak premium HCC supply from Australia and increasing steel demand from India are supporting Australia PLV prices above US\$300/t. BMA and Anglo America's met coal operations impacted by maintenance, higher strip ratios and tough mining conditions such as high gas levels. Australia met coal supply is expected to recover from 2024.

Seaborne Met coal demand growth from India and SE Asia

WoodMac forecasts EAF's share in global steel production to increase from 72% in 2022 to 62% in 2033. However steel production growth from emerging and cost sensitive regions such as India and SE Asia will grow by BF using met coal & iron ore. WoodMac forecasts 28 Mtpa of met coal demand growth in India to 2033 compared with 2022. Subsequently the seaborne met coal demand is expected to increase by 6.0% through 2033 despite Met coal demand to contract from the peak in 2023.

Seaborne thermal coal demand to peak in 2025

A reliable and cost-effective energy source is required for Europe, Japan and North America to replace thermal coal in order to achieve the emission target amid increasing power demand in the next decade. The speakers forecast permanent decline in thermal coal demand from 2025 for Europe, China and JKT, while increasing demand from India, SE Asia and RoW. The speakers believe low cost but intermittent renewables can't replace fossil fuel power alone in APAC despite increasing nuclear power consumption in Japan, China and South Korea.

Thermal coal supply will decline with demand

WoodMac forecasts declining supply from major thermal coal exporting countries driven by depleting reserves/finished coal mines and decreasing thermal coal demand from developed countries to achieve decarbonization goals. Despite the declining demand in North Asia such as JKT, lack of thermal coal projects from Australia are insufficient to support the Australian thermal coal exports. The speakers expect high CV thermal coal seaborne market remain tight due to limited high quality coal supply from Australia.

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PLV: Premium Low Vol

HCC: Hard coking coal

LT: Long term

BMA: BHP Mitsubishi Alliance

EAF: Electric Arc Furnace

BF: Blast Furnace

BOF: Basic oxygen steelmaking

CV: Calorific Value

SE: Southeast

RoW: Rest of world

JKT: Japan, Korea and Taiwan

Key takeaways

- WoodMac estimates 2023's key M&A met coal transactions have an averaged implied met coal price of US\$188/t.
- The speakers forecast 90th percentile breakeven price at US\$179/t (real) which is below BofA's LT met coal price of US\$200/t (real) setting from incentive price.
- WoodMac's quality adjusted thermal coal cost curve suggests a LT thermal coal price of US\$102/t in a balanced market which is largely in-line with BofA's LT thermal coal (real) price forecast of US\$100/t.
- High CV thermal coal seaborne market remain tight due to limited high quality supply from Australia while high CV importing countries such as JKT's demand remain stable in the short and medium term.
- China increased met coal imports from Russia and Mongolian at cheaper prices
 while Australia coal exports into China remain at low level due to less competitive
 prices vs. China domestic met coal.
- WoodMac forecasts EAF's share in global steel production to increase from 72% in 2022 to 62% in 2033. However steel production growth from emerging and cost sensitive countries will grow by BF-BOF.
- India's EAF share is expected to decrease from 54% to 38% and Southeast Asia to
 decrease from 47% to 41% as the new steel production growth will be coming from
 BF using met coal & iron ore. WoodMac forecasts 28 Mtpa of met coal demand
 growth in India in 2033 compared with 2022.
- Subsequently the seaborne met coal market will increase by 6.0% through 2033 despite WoodMac expects Met coal demand to contract from the peak in 2023.
- According to WoodMac, the speakers anticipate most countries 2030 CO2 emission targets would be not achieved, except for China's peak CO2 by 2030. A reliable and cost-effective energy source is required for Europe, Japan and North America to replace thermal coal amid increasing electricity/power demand in the next decade.
- WoodMac forecasts permanent decline in thermal coal demand from 2025 for Europe, China and JKT, while increasing demand from India, South East Asia and rest of the world. The speakers believe low cost but intermittent renewables can't replace fossil fuel power alone in APAC despite increasing nuclear power consumption in Japan, China and South Korea.
- WoodMac forecasts declining supply from major thermal coal exporting countries.
 Colombian and South Africa are expected to decline by 5.0% CAGR from 2023 to
 2033 largely due to depleted reserves and lack of investment in thermal coal to
 develop replacement supply. 4.7% CAGR decline from Indonesia, 6.8% CAGR from
 Russia and 4.0% CAGR decline from Australia from 2023-2033 driven by decreasing
 demand.
- Despite the declining demand in North Asia such as JKT, lack of thermal coal projects from Australia to replace finished coal mines are insufficient to support the Australian thermal coal exports.



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