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**FORTESCUE COMPLETES ACQUISITION OF WILLIAMS ADVANCED ENGINEERING
AND
ANNOUNCES DEVELOPMENT OF THE WORLD'S FIRST ZERO EMISSION INFINITY TRAIN**
FMG 完成对 Williams Advanced Engineering 的收购
并
宣布将开发世界上第一辆零排放火车 Infinity Train

Fortescue Metals Group Ltd (Fortescue, ASX: FMG) today advises the completion of the acquisition of Williams Advanced Engineering (WAE) that was announced on 24 January 2022. Following the satisfaction of customary conditions precedent, the final purchase price is £164 million (US\$221 million).

FMG (澳大利亚证交所: FMG) 今天宣布完成在 2022 年 1 月 24 日提出的对 Williams Advanced Engineering (WAE) 的收购。在满足惯常先决条件后, 最终收购价格为 1.64 亿英镑 (2.21 亿美元) 。

The acquisition of WAE provides critical technology and expertise in high-performance battery systems and electrification to increase Fortescue's operational efficiency, lower maintenance costs and accelerate the decarbonisation of its mining operations. Importantly, it will establish a significant new global battery growth business opportunity for Fortescue. WAE will remain a strongly independent company to accelerate its growth, while its leading industrial battery technology division will be closely coordinated with Fortescue. Both will be managed by Fortescue's green energy, technology and development company Fortescue Future Industries (FFI).

收购 WAE 为高性能电池系统及电气化提供了关键技术及专业知识, 以提高 FMG 的运营效率、降低维护成本并加速其采矿业务的脱碳进程。重要的是, 它将为 FMG 创造一个关键的全球电池业务增长新的商机。WAE 仍将是一家高度独立运营的公司, 以加速其发展, 而其领先的工业电池技术部门将与 FMG 密切合作。两者都将由 FMG 的绿色能源、技术和开发公司 FMG 未来产业公司(FFI) 管理。

ZERO EMISSION INFINITY TRAIN

零排放 Infinity Train 项目

WAE has significant industrial battery technology that has already added considerable value to Fortescue. FFI and WAE have also commenced development of a regenerating battery electric iron ore train project (Infinity Train) to support the delivery of Fortescue's industry-leading target to achieve net zero Scope 1 and Scope 2 emissions by 2030. In a world first development, the Infinity Train will utilise the gravitational energy generated on the downhill loaded sections of Fortescue's rail network to recharge its battery electric systems, without any additional charging requirements for the return trip to reload.

WAE 拥有先进的工业电池技术, 已经为 FMG 增加了可观的价值。FFI 和 WAE 已启动了再生电池电动铁矿石列车项目(Infinity Train)的研发工作, 以支持 FMG 行业领先的脱碳目标, 即到 2030 年

实现范围 1 及范围 2 的净零排放。Infinity Train 项目将利用 FMG 铁路网络下坡路段产生的重力能量为其电池电力系统充电，而无需为回程重新充电，这项技术属世界首创。

The self-sustaining system will increase operational efficiency, lower maintenance costs, and eliminate diesel and the associated CO₂ emissions from Fortescue's iron ore trains. The regenerative capability will remove the requirement for investment in recharging infrastructure and additional renewable energy generation capacity.

自我维持系统将提高运营效率、降低维护成本，并消除了 FMG 铁矿石列车的柴油消耗及相关二氧化碳排放。该能源再生能力将可减少充电基础设施及额外可再生能源发电能力的投资需求。

Fortescue's current rail operations include 54 operating locomotives that haul 16 train sets, together with other on-track mobile equipment. Each train set is about 2.8 kilometres in length and has the capacity to haul 34,404 tonnes of iron ore in 244 ore cars. Fortescue's rail operations consumed 82 million litres of diesel in financial year 2021 accounting for 11 per cent of Fortescue's Scope 1 emissions. This diesel consumption and associated emissions will be eliminated once the Infinity Train is fully implemented across Fortescue's operations, significantly contributing to Fortescue's target to be diesel free by 2030.

FMG 目前的铁路运营包括 54 台运行机车，可牵引 16 组列车，以及其他在轨移动设备。每列火车全长约 2.8 公里，244 节矿车可运载 34404 吨铁矿石。FMG 的铁路运营在 2021 财年消耗了 8200 万升柴油，占 FMG 范围 1 排放量的 11%。一旦 Infinity Train 项目在 FMG 的运营中全面实施，将减少柴油消耗及相关的排放，从而为 FMG 到 2030 年实现零柴油目标做出重大贡献。

Fortescue's studies and development costs for the Infinity Train are expected to be US\$50 million over the next two years and will be classified as operating cost efficiencies, with the studies to refine the capital estimate and schedule. The technology, to be jointly developed by Fortescue and WAE, will address the reduction in emissions in the hard to abate heavy industry sector with significant opportunities for this technology to be commercialised on a global basis.

在未来两年中，FMG 对 Infinity Train 的研究及开发费用预计将达到 5000 万美元，将被归类为运营成本效率，并进行研究已完善资本估算及时间表。该技术将由 FMG 和 WAE 联合开发，将解决难以减排的重工业部门的减排问题，并为该技术在全球范围内商业化提供重要机会。

Fortescue Chief Executive Officer, Elizabeth Gaines said, "The acquisition of WAE is an important step in Fortescue's transition to a global green energy and resources company. We are rapidly establishing the building blocks which will allow us to fully integrate technologies, manufacturing capabilities and green energy generation and distribution to deliver across the entire value chain. The Infinity Train is an important project to be developed together with WAE, as we work to deliver on our target to decarbonise our mining operations by 2030.

FMG 首席执行官伊丽莎白·盖恩斯女士表示：“成功收购 WAE 是 FMG 向全球绿色能源和资源公司转型的重要一步。我们正在迅速布局构建各个业务板块，使我们能够充分整合技术、制造能力以及绿色能源的生产及分销至整个价值链的各个环节。Infinity Train 是与 WAE 共同开发的一个重要项目，将助力我们于 2030 年实现采矿业务全部脱碳的目标。

"The Infinity Train has the capacity to be the world's most efficient battery electric locomotive. The regeneration of electricity on the downhill loaded sections will remove the need for the installation of renewable energy generation and recharging infrastructure, making it a capital efficient solution for eliminating diesel and emissions from our rail operations."

“Infinity Train 有能力成为世界上最高效的电池电力机车。下坡路段的电力再生系统将无需安装可再生能源发电及充电基础设施，这将是解决铁路运营中替代柴油及消除相关排放问题的一个资本效率高的解决方案。”

Fortescue Founder and Chairman, Dr Andrew Forrest AO, said “The Infinity Train will not only accelerate Fortescue’s race to reach net zero emissions by 2030, but also lower our operating costs, create maintenance efficiencies and productivity opportunities.

FMG 创始人兼董事长安德鲁·福瑞斯特博士表示：“Infinity Train 不仅将加速 FMG 到 2030 年实现净零排放的进程，还提供了降低运营成本、提高维护效率及生产力的良机。

“The Infinity Train will join Fortescue’s green fleet under development and will contribute to Fortescue becoming a major player in the growing global market for green industrial transport equipment, providing great value for our shareholders.

“Infinity Train 将加入 FMG 正在开发的绿色车队，并将有助于 FMG 早日成为日益增长的全球绿色工业运输设备市场的主要参与者，为我们的股东创造巨大价值。

“The commercial opportunities for FFI as it pioneers this technology, captures its value and distributes it globally are obvious. Less obvious, but just as important, is that we lower our operating costs, eliminate the cost of diesel from our company and of course, our carbon emissions.

“FFI 在开创这项技术、获取其价值并在全球范围内布局时，其商业机会是显而易见的。与此同时，这一举措还可降低运营成本、节省了公司的柴油成本，当然还有消除了我们的碳排放，这些优势虽不明显但同样重要。

“The Infinity Train continues FFI’s inexorable march to change the world’s attitude to energy generation. To move business leaders and politicians globally to the realisation that fossil fuel is just one source of energy and there are others rapidly emerging, which are more efficient, lower cost and green. The world must, and clearly can, move on from its highly polluting, deadly if not stopped epoch of fossil fuel,” Dr Forrest said.

“Infinity Train 延续了 FFI 致力于改变世界对能源生产态度的坚定意志。让全球的商界领袖和政界人士认识到，化石燃料只是一种能源，其他更高效、更低成本、更绿色的能源正在迅速涌现。这个世界必须，而且显然能够，从高度污染和致命的化石燃料时代中走出来，” 福瑞斯特博士说。

Authorised by

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