PURE RESOURCES LTD

3D Recycled Carbon Nanotube Fibre IP Collaboration

High-Flux, Low-Mass Thermal Management

ASX Presentation · April 2026

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Pure Resources Limited | ASX: PR1 ACN 653 330 413

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Corporate Structure

Pure Resources Limited | ASX: PR1

Pure Resources is a mineral exploration company focused on its Garnet Hills Garnet and Graphite project, located on a granted mining lease in the Halls Creek region of Western Australia.

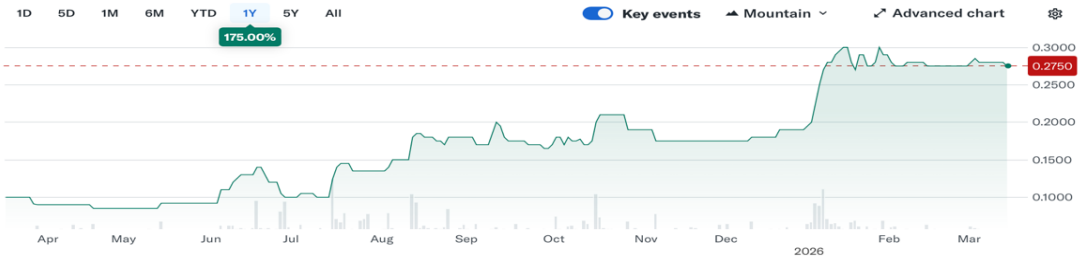
Key Metrics

69,842,127
Shares on Issue (post placement)

$17,460,531
Market Capitalisation (@$0.25 (post placement))

~$4,000,000
Cash (post placement)

PR1 ASX Share Price Chart



Top 20 Ownership

75%

Board of Directors

- Quinton Meyers (Non-Executive Chairman)
- Jane Law (Non-Executive Director)
- Marty Helean (Non-Executive Director)

Material Terms Of The R&D Collaboration

Pure Resources Limited X Rice University | Legally Binding Agreement

Graphite Supply from Garnet Hills

Pure will provide samples of graphite materials from the 100%-owned Garnet Hills Project to Rice for the development and testing of CNTF systems.

World-Class Research Team

Rice provides Prof. Pasquali, Preston, Sanchez and Wehmeyer, full testing facilities, and delivers all technical assessments and IP outputs to Pure.

USD$500,000 R&D Funding

Pure to fund up to USD$500,000 over a maximum 24-month term for the purpose of the collaboration.

Joint IP Ownership

Both Pure and Rice will have joint ownership of any intellectual property where there are inventors from both Rice and Pure Resources— including performance data on Garnet Hills materials in CNTF structures.

Commercial Pathway

Outputs provide Pure with an early-stage understanding of technical capabilities and commercialisation avenues for Garnet Hills graphite in advanced carbon markets.

Rice University Pedigree

Rice's capability validated through prior ASX collaborations: Metallium Ltd (ASX:MTM) — Flash Joule Heating; Locksley Resources (ASX:LKY) — DeepSolve Technology.

Garnet Hills Project

The Graphite Feedstock Underpinning The Rice University Collaboration

Large-to-Jumbo Flake Graphite[1]

Recent petrographic studies confirm average flake sizes of ~200 µm with occurrences exceeding 300 µm — supporting strong beneficiation potential and premium pricing.

Clean, inclusion-free graphite hosted in high-grade metamorphic rocks — a technically compelling hard-rock graphite opportunity and viable material for the Rice University collaboration.

Project Overview

- 100% owned by Pure Resources Limited
- Granted mining lease, Halls Creek region, Western Australia
- Dual-commodity platform: graphite and garnet
- Surrounded by GCM Corporation Ltd (ASX:GCM) McIntosh Graphite Project
- US market alignment: thermal management, defence and REE extraction pathways

Mine-to-Materials Strategy

Graphite and carbon materials form the foundation of a rapidly expanding advanced materials ecosystem underpinning next-generation energy, electronics and AI infrastructure.

Global technology trends are shifting value creation downstream into engineered carbon materials: graphene, carbon fibres and carbon nanotube-based systems.

The Rice collaboration positions Pure within emerging supply chains linking critical minerals, advanced materials manufacturing and next-generation digital infrastructure.

[1]Refer ASX Announcement 09 Dec 2025 - High-Value Jumbo Flake Graphite Identified at Garnet Hills

Garnet Hills Project

Large To Jumbo Flake Graphite On Granted Mining Lease[1]

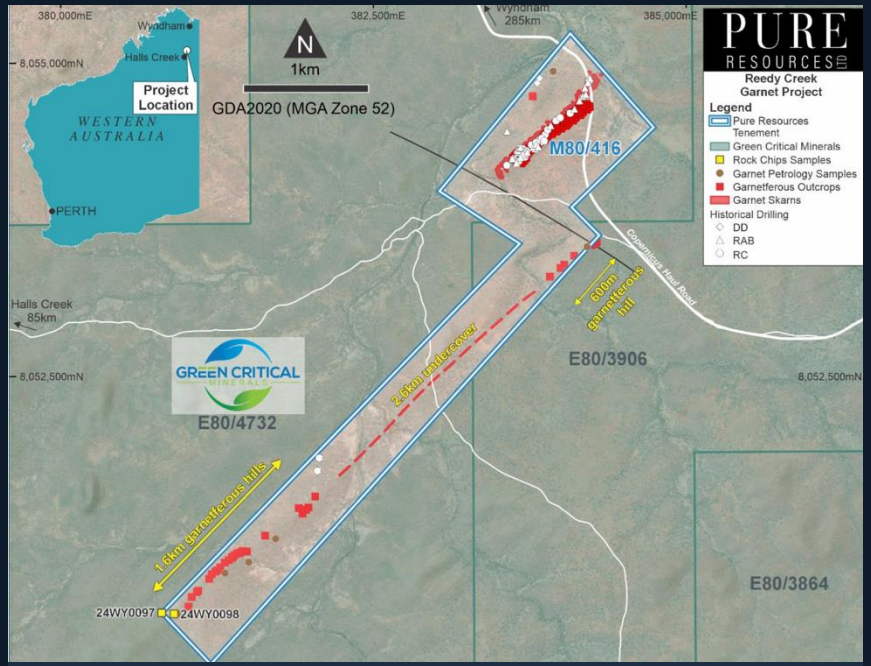


Figure 1 - Graphite Sample locations at M80/416

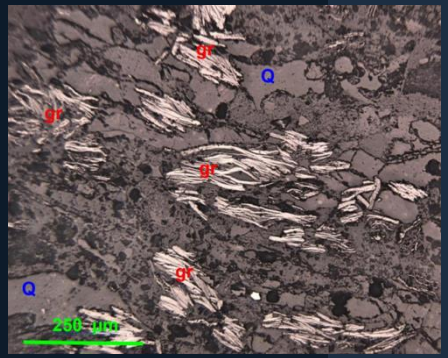


Figure 2. Sample P20097

- Large - sized flake graphite (gr) occurs as platy clumps that parallel the quartzofeldspathic (Q) gneissic host.
- Plane polarized reflected light.
- Field of view - 1.13 mm

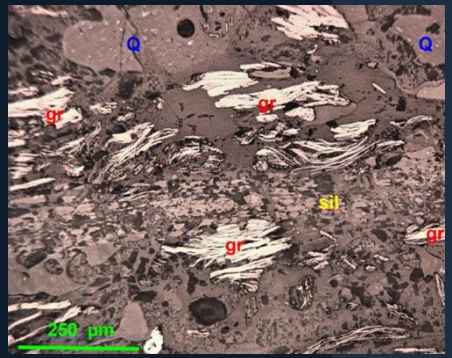


Figure 3. Sample P20098

- Large - sized flake graphite (gr) occurs as singular flakes and platy clumps that parallel the quartzofeldspathic (Q) gneissic host.
- Fibrous sillimanite (sil) parallels the gneissosity.
- Plane polarized reflected light.
- Field of view - 1.13 mm

[1]Refer ASX Announcement 09 Dec 2025 - High-Value Jumbo Flake Graphite Identified at Garnet Hills

Building A Global Team To Deliver

Building A World-class Leadership Team

OUR GOAL

Lead the transformation of the U.S. thermal management industry through:

- Collaboration
- Innovation
- Strategic leadership

Building A World-class Team

Actively forming a world-class management and advisory board with deep expertise in:

Achieving the highest levels in the value-add chain (downstream)

U.S. market expansion and regulatory frameworks

Intellectual Property Target Market
USA Data Centres, AI & Defence

Massive Scale & Opportunity

~US$30 -$100BN+

Advanced Heat Exchange &
Heat Sink Platforms Market (USA TAM)

US$35BN+

AI, Defence System-Level
Thermal Architecture (USA TAM)

CNTF's core properties are application-agnostic.

The Company will evaluate adjacent commercial opportunities as the R&D programme matures and IP positions are established

Our IP Experts – Rice University

Integrated Technical Capability

Professor Daniel J. Preston

Assistant Professor

Mechanical Engineering

Professor Geoff Wehmeyer

Assistant Professor

Mechanical Engineering

Professor Matteo Pasquali

A.J. Hartsook Professor

Chemical & Biomolecular Engineering

Professor Vanessa Sanchez

Assistant Professor

Mechanical Engineering

Carbon Hub

Overview – Why

Advanced TIM's, Heat Exchange & Heat Sink Platforms

Power & Cooling: The Two Biggest Data Centre Running Costs

- Cool running stacks quicker whilst maintaining performance
- Avoid thermal inefficiencies that lead to downtime, system failure, and energy waste

Consultation with end users reveals an alternative requirement to current Copper and Aluminum heat sinks and improved TIM efficiency — creating a clear market opening for next-gen materials.

Remove commodity price and supply shocks — ultimately lessening the requirement for critical minerals in the supply chain.

Traditional materials face Size, Weight, and Performance constraints — CNTF's aim to eliminate these limitations entirely.

Overview - The Problem

Thermal Management Is Now A Mission Constraint

Conventional cooling architectures are reaching physical limits.

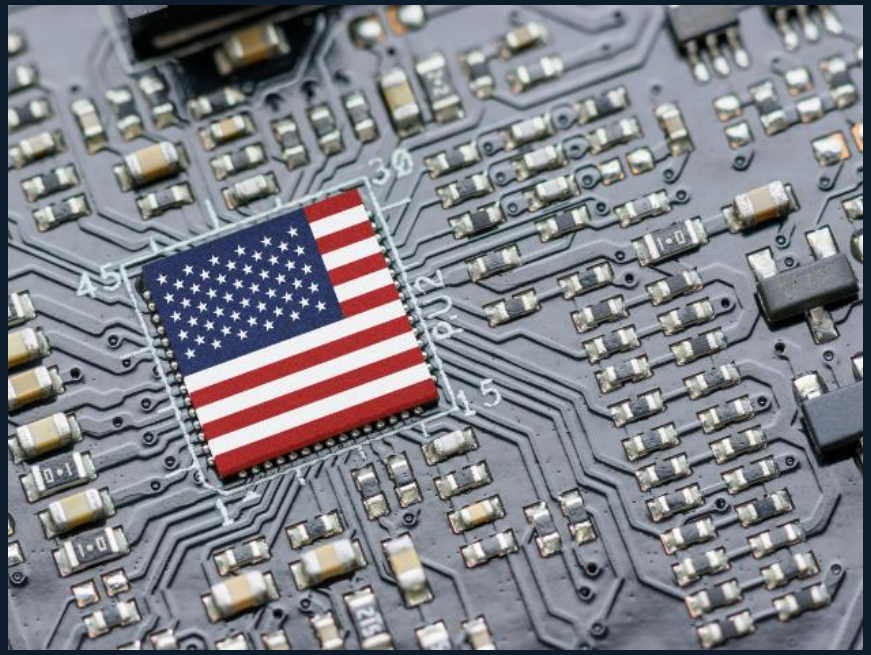
HEAT LOAD

↑↑↑

VS

COOLING CAPABILITY

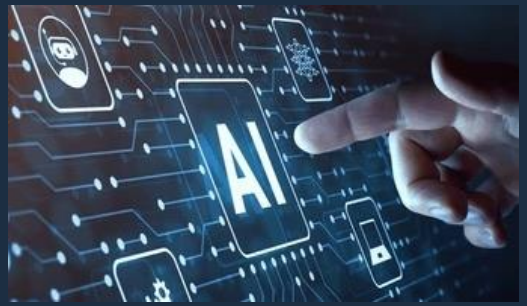
→ **Stagnant**



Overview - Why Now

Heat Flux Is Rising Everywhere

Power density is increasing faster than metal-based cooling can scale.



Data Centers

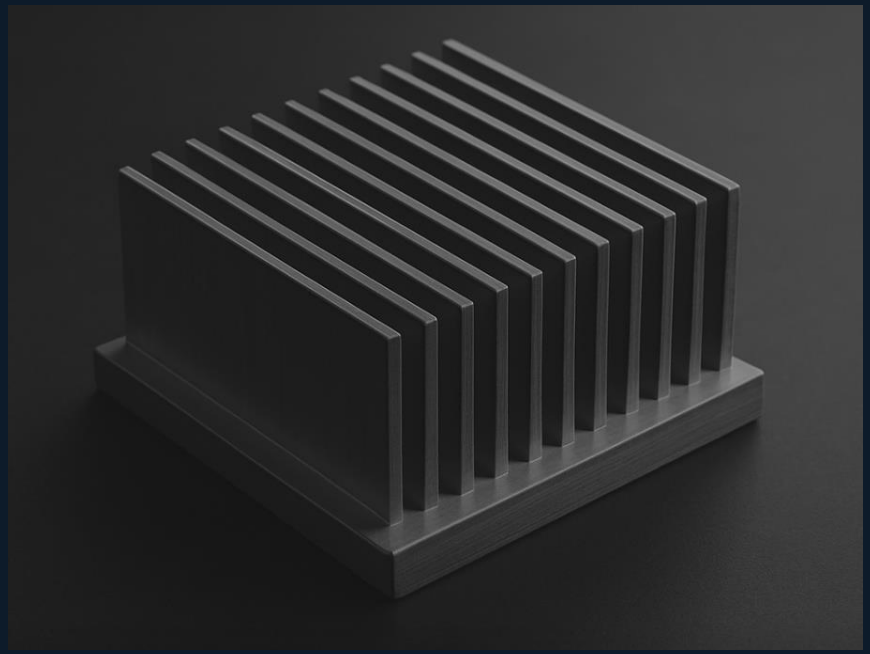
Aviation / Aerospace

AI Edge Compute

⚡ The cooling gap is now a hard constraint on peak power, range, and operational tempo.

Overview - Limit Of Metals

Why Aluminium And Copper Don't Scale



High Mass

Large heat sink mass per unit heat rejected — a critical penalty for mobile platforms.

Geometry Constraints

Directionally engineered heat flow through extreme thermal anisotropy and textile-enabled 3D architectures impossible with machined metals

Diminishing Returns

Further miniaturisation yields diminishing thermal gains with metals.

Overview – What Are CNTF's?

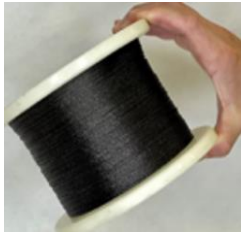
Carbon Nanotube Fibres (CNTFs)

Hierarchical carbon nanotube fibres processable as yarns and textiles allow for superior heat flow engineering

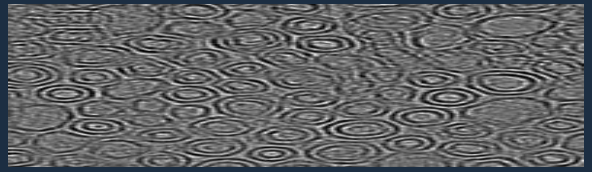
Single CNT

CNT Fiber

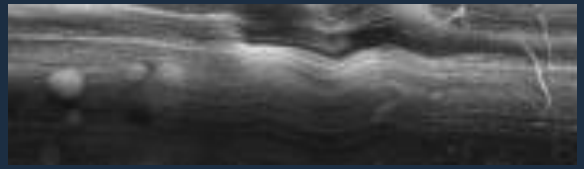
CNTF Yarns



CNTF Fabrics



SEM

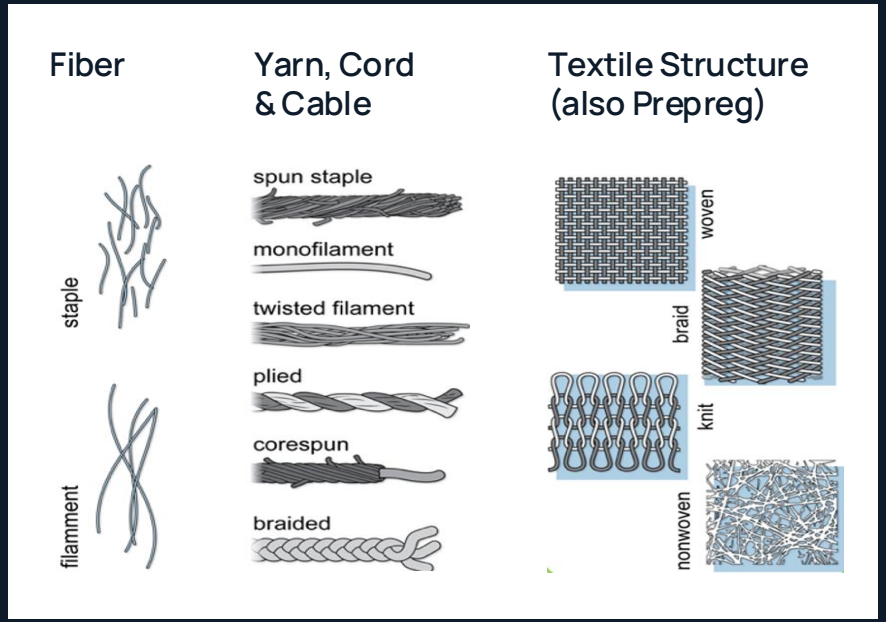


TEM / CNTFs

Overview - From Fibres To Structures

From Fibres To Thermal Architectures

Textile manufacturing enables scalable, customisable thermal structures.



Geometry freedom impossible with metals

- 3D braiding enables complex internal channel geometries
- 3D knitting creates conformable, surface-hugging structures
- Stitching and bonding for rapid, scalable assembly
- Textile architecture = unprecedented geometry freedom

Overview - Real Hardware

Hierarchically Structured CNTF Heat Exchangers

Lightweight

High-surface-area heat exchange structures from

Wire → Array → Fabric.

3D braiding enables complex internal channel geometries

Overview– How

Ai Defence Thermal Architecture

Rack-Level AI Heat Density

Optimisation of heat density at rack level for next-generation AI compute deployments in defence and sovereign facilities.

Sovereign Compute Cluster

Thermal engineering for sovereign compute clusters requiring secure, high-performance cooling in classified environments.

Radar & Electronic Warfare

Thermal management solutions for radar systems and electronic warfare platforms requiring reliable cooling under combat conditions.

Passive vs Liquid Integration

Modelling and analysis of passive versus liquid integration pathways to determine optimal cooling architecture per platform.

Overview – Why

Potential CNTF Thermal Management Solutions into the Defence Sector

Potential AUKUS Collaboration Focus

Engage with Australian and USA defence to explore opportunities

Ruggedised Structural-Thermal Enclosures

Shock & Vibration Resistant Composite Heat Spreaders

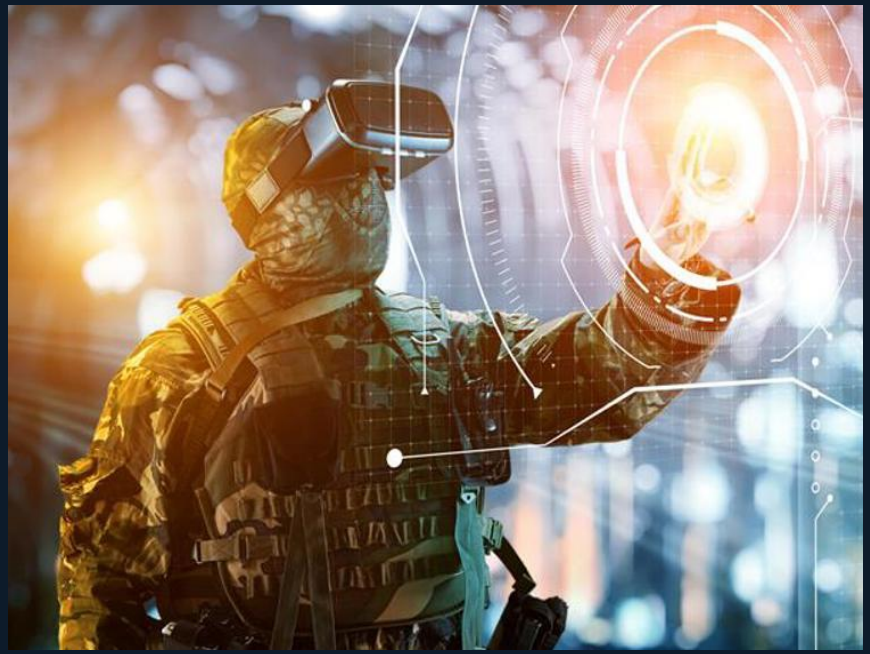
High-Temperature Continuous Operation Systems

Weight-Reduction for Aerospace & Mobility

Utilising Thermal Management into the defense sector

Overview – Defence Applications

Relevant Across DoD Systems



Sustained Edge Compute

Enable higher peak power and burst engagement

Higher-Duty RF Systems

Improve reliability, reduce system vulnerability

Autonomous Platforms

Support mobile platforms and operational stealth

Power Density Electronics

Higher power density without thermal penalty

Placement

$3,000,000 Equity Placement | Subject To Shareholder Approval | Expected End April 2026

$3,000,000

Placement Raise (before costs)

$0.25 per share

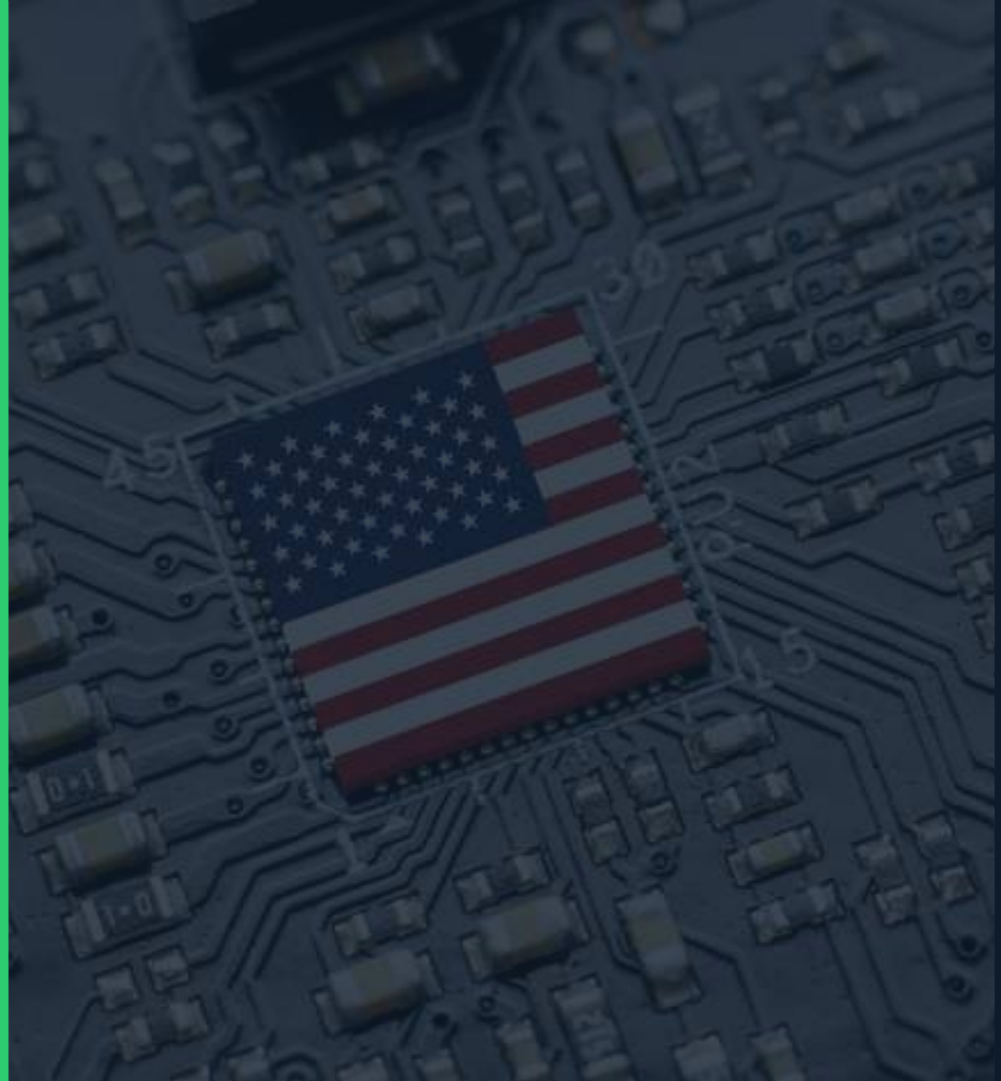
Issue Price | 12,000,000 shares to be issued

USE OF PROCEEDS

Follow-up exploration and drilling programs at the Garnet Hills Graphite Project

Exploration of Kilarney, Mt Monger, Yandal and Yundamindra Projects; and general working capital

Advancement of metallurgical and beneficiation studies to progress carbon downstream strategy initiatives to benefit the company, including the Rice University collaboration



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www.pureresources.com.au

+61 8 9388 0051

22 Townshend Road, Subiaco WA 6008

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