



Arca Announces Partnerships to Drive Carbon Removal Projects at WA Mine Sites

Australian-Canadian trade mission underscores the mining industry's decarbonisation opportunity.

Perth, Australia – 17 February 2025 – [Arca](#), a leader in mineral carbonation technology, today announced strategic partnerships to accelerate carbon removal at mine sites across Western Australia.

Arca has joined the Development Partner Institute (DPI) as an Associate Partner, ensuring Traditional Owners and stakeholders are engaged from the outset in designing future carbon removal projects. Arca is also partnering with the Climate Recovery Institute, a not-for-profit working with governments, industry and communities to develop a durable carbon removal industry in Australia.

Additionally, Arca is partnering with Wyloo and a gold producer in WA to assess carbon removal opportunities at their mining operations, using existing tailings streams to capture and store atmospheric CO₂.

"We are thrilled to collaborate with forward-thinking partners who recognise the critical role carbon mineralisation can play in decarbonising the mining industry," **said Paul Needham, CEO of Arca**. "We believe we need to make big, bold moves to stabilise the climate, and this is an important step towards achieving Australia's climate goals," he added.

"There is strong alignment between Indigenous values of stewardship and environmental restoration, and Arca's mission to stabilise the climate by removing carbon dioxide from the atmosphere," **said Florence Drummond, Executive Director of DPI**. "We are excited to join Arca's journey and host the important dialogues that further the mining industry's position as a true partner in development."

In addition to the partnerships, Arca has secured US\$8 million from investors, including Side Stage Ventures and Saniel Ventures, two leading Australian venture capital firms. The funding will help Arca further scale its impact.

The announcement coincides with the Team Canada Trade Mission (TCTM), led by The Honourable Mary Ng, Canada's Minister of Export Promotion, International Trade and Economic Development, reinforcing the alignment of Australian and Canadian efforts in climate technology.

"This is a great example of Canadian and Australian cooperation that involves the exchange of technical, business and social expertise," **said Minister Ng**. "Australia is a key Indo-Pacific ally and long-standing partner of Canada's and this TCTM will help Canadian and Australian companies explore new markets, establish new connections and support the growth of both countries' economies," she concluded.

Australia's vast mineral resources position it to become a global leader in carbon mineralisation, a process recognised in recent Western Australian policy initiatives, including Premier Roger Cook's Carbon Capture Utilisation and Storage Action Plan and the Minerals Research Institute of WA's mineral carbonation roadmap.

Arca's technology repurposes mine waste for large-scale carbon removal, accelerating the natural geochemical process that transforms atmospheric CO₂ into stable carbonate minerals. By working within existing industrial footprints, Arca offers mining companies a viable pathway to decarbonisation.

This announcement points to a growing coalition of corporations, investors, mining companies, climate technology innovators, governments and Indigenous communities that are aligned on practical action to address cooperation on the climate emergency.

For more information, visit www.arcaclimate.com

Additional comments on the news:

Wyloo

"Wyloo is planning to ultimately eliminate carbon emissions from our operations. Through our investigations with Arca we are looking to go beyond this and actively remove carbon dioxide from the atmosphere as we process our nickel", said Wyloo CEO Luca Giacobazzi. "The mining industry must look for innovative ways to reduce our carbon footprint, and mineral carbonation presents a unique opportunity to turn waste into part of that solution. We're excited about partnering with Arca to trial mineral carbonation at our Kambalda sites, and to share these learnings with our Canadian project."

Climate Recovery Institute

"Australian and international climate goals are now no longer possible without removing vast amounts of historical emissions from the atmosphere, in addition to the rapid and deep decarbonisation of existing emissions sources" said Henry Adams, Director. "Atmospheric carbon mineralisation solutions like Arca's represent an opportunity for Australia to build a new resource recovery industry that helps clean up the historical emissions needed to help meet net zero targets and begin to reverse global warming," he said.

Side Stage Ventures and Co-chair of the Canadian Australian Chamber of Commerce

Elli Hanson, Principal Investor at Side Stage Ventures and Co-chair of the Canadian Australian Chamber of Commerce, said "Australia is a world leader in mining and is uniquely positioned to drive the global industry to a lower carbon future – Arca is at the forefront of this shift. As a Canadian investor based in Australia, I'm particularly excited by this collaboration between our two resource-rich nations, leveraging decades of innovation to drive large-scale decarbonisation. Arca's ability to transform mine tailings into a powerful climate solution is not just groundbreaking—it highlights the strength of Australian-Canadian partnerships in shaping a more sustainable industrial future."

Saniel Ventures

Leigh Jasper, founder of Saniel Ventures said: "Arca brings together an exceptional team, cutting-edge technology, and a clear path to large-scale impact in mining decarbonisation. We are

thrilled to support them in this valuable mission. With Australia at the forefront of this sector, Arca's success locally positions it well to drive sustainability in mining globally."

Tamsin Senders, Arca Australia General Manager

"At this moment of great global climate peril, it is encouraging to know that there are practical solutions, plentiful immediate feedstocks and widespread positive support for implementation of these technologies across industry, government and communities."

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About Arca

Arca is the carbon mineralization company committed to stabilizing the climate by capturing carbon dioxide from the air and transforming it into rock. Founded by Dr. Greg Dipple and fellow geoscientists from the University of British Columbia, Arca has developed cutting-edge technologies that accelerate the natural process of carbon mineralization. The company is developing strategic partnerships with global producers of critical materials. We leverage historical mine waste to remove atmospheric CO₂ safely and permanently. Arca's pathway has gigaton-scale potential with no new demands on land or precious water resources.

The company's innovative approach has garnered support from significant entities such as Lower Carbon Capital, The Grantham Foundation, InBC, the National Research Council of Canada Industrial Research Assistance Programme (NRC IRAP), Sustainable Development Technology Canada (SDTC), the Natural Resources Canada (NRCan) and the BC Centre for Innovation and Clean Energy (CICE).

The [latest climate science](#) indicates that decarbonisation alone will not be sufficient to meet the requirement to keep temperature rising below 1.5 degrees C by 2050, which would prevent the worst impacts of climate change. We must do more by actively removing carbon dioxide from the atmosphere, and Arca's technology offers an effective step forward in decarbonization.