

Ambuja Cements and Leilac Partner to Develop Commercial-Scale Low-Carbon Cement

EDITOR'S SYNOPSIS

- Ambuja Cements and Leilac Limited have signed an agreement to develop one of the world's largest commercial-scale pathway for low-carbon cement production at Sanghipuram, Gujarat's Kutch district.
- A commercial demonstration project will assess Leilac's carbon capture and hybrid electrification technology designed to reduce emissions, lower fuel consumption and increase the use of renewable electricity in cement manufacturing, with the potential to reduce coal consumption to zero while enabling flexible use of alternate fuels.
- Once successful, the project could be scaled up by 7x to 8x to capture more than one million tonnes of carbon dioxide annually, helping establish a scalable pathway for low-carbon cement production in India and beyond.

Ahmedabad, 22 June 2026: Ambuja Cements, the cement and building materials company of the Adani Group, has partnered with Leilac Limited, a UK-headquartered clean technology company specialising in carbon capture and electrification solutions for emissions-intensive industries, including cement and lime manufacturing.

This partnership marks an important step in Ambuja Cements' broader decarbonisation strategy and supports its SBTi-validated net zero target for 2050. As the Company advances the electrification of cement manufacturing to increase the use of renewable energy, backed by nearly 1 GW of captive green power, it is laying the groundwork to scale breakthrough solutions such as carbon capture. Importantly, this collaboration is expected to improve the economics of carbon capture, strengthening the business case for large-scale deployment of carbon capture and utilisation.

The commercial demonstration project at Ambuja Cements' 6.6 MTPA Sanghi plant in Sanghipuram, Kutch, will evaluate the integration of Leilac's carbon capture and hybrid electric heating technology to support lower-emission cement production through greater use of renewable electricity and the capture of unavoidable process carbon dioxide. The technology is designed to enable a pathway where coal consumption can be reduced to zero, while allowing alternate fuels to be used flexibly.

Subject to successful demonstration, the project, positioned as the largest industrial-scale plant of its kind globally, could be scaled up by 7x to 8x to capture more than one million tonnes of carbon dioxide annually, helping establish a scalable pathway for low-carbon cement production in India and beyond.

Karan Adani, Director, Ambuja Cements, said: "The cement industry's transition to a lower-carbon future will require bold thinking, technological innovation and collaboration across the value chain. Our partnership with Leilac reflects our commitment to evaluating next-generation technologies that can reduce process emissions while improving energy efficiency and supporting long-term sustainable growth. This initiative aligns with our vision of building world-class manufacturing operations for the future."

Daniel Rennie, CEO, Leilac Limited, said: “Ambuja Cements operates one of the world’s largest and most advanced cement manufacturing networks. We’re delighted to begin this collaboration to deliver a commercial-scale project for low-cost, low-carbon cement production. Together, we aim to demonstrate an economic, replicable and future-proof solution for the global cement industry.”

About Ambuja Cements Limited

Ambuja Cements Limited is the 9th largest building materials solutions company globally, a key part of the diversified Adani Group – the country’s fastest-growing portfolio of sustainable businesses. With a cement capacity of 109 MTPA across 24 integrated manufacturing plants and 22 grinding units, Ambuja Cements is at the forefront of building a greener, stronger India. The Company is accelerating its decarbonisation journey through investments in 1 GW of renewable energy (solar + wind), 376 MW of Waste Heat Recovery Systems (WHRS) by FY’28. The Company has strategic partnerships with Leilac to develop commercial-scale Low-Carbon Cement and with Coolbrook to deploy zero-carbon RotoDynamic Heater™ (RDH™) technology. Ambuja Cements has achieved 12x water positivity and 7x plastic negativity. It is committed to net-zero by 2050, being amongst the four large-scale building materials companies in the world, with its near-term and net-zero targets validated by the Science Based Targets initiative (SBTi). Its innovative products are listed in the GRIHA product catalogue, and the Company operates a captive port network with ten terminals for cleaner, cost-effective bulk cement shipments. Recognised among 'India’s Most Trusted Cement Brands' by TRA Research, Ambuja Cements holds a 'Leadership Score' of A by CDP and is the world’s first cement manufacturer to join the Alliance for Industrial Decarbonization (AFID), a global alliance facilitated by IRENA.

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About Leilac Limited

Leilac Limited aims to enable the most cost-effective production of conventional cement and lime, while delivering future-proof solutions to mitigate hard-to-abate industrial emissions. Leilac’s retrofittable technology is designed to reduce production costs through a hybrid heating system that can operate flexibly using low-carbon and/or low-cost fuels and electricity. In doing so, it efficiently separates unavoidable carbon emissions ready for use or storage, without additional chemicals or processes. Through the production of zero emissions lime, Leilac also aims to support the decarbonisation of other hard-to-abate sectors, as well as removing carbon dioxide from the atmosphere. Leilac Limited, a subsidiary of Australian technology company Calix Limited, is working with multiple partners across Europe, the Americas and Asia Pacific to support industrial competitiveness and decarbonisation. leilac.com

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