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Two Leilac projects selected for U.S. DOE grant funding

Sydney, Australia | 10 January 2025 – Australian environmental technology company, Calix Limited (ASX: CXL) (“Calix”) welcomes the announcement by the U.S. Department of Energy (“DOE”) that two Leilac projects have been selected for grant funding¹². The awards provide funding to undertake preliminary front-end engineering design (“pre-FEED”) studies.

Highlights:

- Two Leilac projects selected for U.S. DOE funding for pre-FEED studies.
- A project led by Roanoke Cement Company, in partnership with Amazon, was selected for US\$1.49 million in grant funding and aims to:
 - Develop the application of the Leilac technology to an operating cement plant at full commercial scale.
 - Capture over 500,000 tonnes of unavoidable process CO₂ emissions per annum.
 - Enable the use of low-carbon fuels and electrification.
- A project led by Mississippi Lime Company, was selected for US\$1.5 million in grant funding and aims to:
 - Capture approximately 150,000 tonnes of unavoidable process CO₂ emissions per year with the Leilac technology.
 - Enable the use of low-carbon alternative fuels in lime manufacturing.
 - Demonstrate viable pathways to net-zero lime.
- Grant awards remain subject to final negotiation and execution over the next few months.

Cement decarbonisation with Titan and Amazon

A project led by Roanoke Cement Company³, a member of the Titan Group, in partnership with Leilac US Inc, Amazon, and Virginia Tech, was selected for the award of US\$1,498,218. Located in Roanoke, Virginia, the project seeks to develop the application of the Leilac technology to directly capture over 500,000 tonnes of unavoidable process CO₂ from cement scope one emissions at

¹ The selection for award negotiations is not a commitment by DOE to issue an award or provide funding. Before funding is issued, DOE and the applicants will undergo a negotiation process, with execution of the grant awards subject to the agreement of grant terms and conditions. The DOE may cancel negotiations and rescind the selection for any reason during that time.

² [U.S. DOE. Funding Selections: FY24 Energy and Emissions Intensive Industries FOA](#)

³ <https://www.titanamerica.com/our-businesses/roanoke-cement-company-llc/>

high purity, simplifying post-capture equipment requirements.

The project also aims to advance the Leilac technology by demonstrating (1) compatibility with low carbon fuels and electrification; (2) modular design and staged integration to facilitate retrofit with minimal operational downtime; (3) flexibility of layout, footprint, and system height to help ensure scalability and replicability to a broad range of plants.

Making net-zero lime with Mississippi Lime Company

A project led by Mississippi Lime Company⁴, in partnership with Leilac US Inc, Industrial Ally, and Nuada LTD, was selected for the award of US\$1,500,000. Located in St. Louis, Missouri, the project seeks to demonstrate the viability of net-zero lime manufacturing. The approach centres on using Leilac's technology for process emission capture and alternative fuel use, coupled with Nuada's carbon capture system for combustion emissions. The technology has the potential to enhance energy efficiency, reduce overall energy consumption, and lower the carbon footprint of the production process while improving local air quality.

Calix CEO and Managing Director, Phil Hodgson said:

"Building on our progress in the U.S. with Heirloom and Direct Air Capture, it is very pleasing to see our Leilac business progress in applications for our CO₂ capture technology in the cement and lime sectors in the U.S., with major players. We look forward to concluding the grant agreements and developing these exciting projects that have the potential to demonstrate industry leading solutions to produce both low-carbon cement and lime at commercial scale.

-ENDS-

This announcement has been authorised for release to the ASX by Managing Director and CEO, Phil Hodgson.

About Calix

Calix Limited (ASX: CXL) is an environmental technology company solving urgent global challenges in industrial decarbonisation and sustainability.

Calix's unique patented core platform technology delivers indirect heating of raw materials to enable efficient, precise, flexible and renewably powered mineral processing and capture of unavoidable industrial emissions.

With strong and increasing demand driven by global decarbonisation commitments, Calix is applying its core technology to the cement, steel, alumina and critical minerals industries, as well as the direct air capture of atmospheric carbon dioxide, and the production of sustainable environmental products.

Leveraging its core platform technology and a global network of partners, Calix is urgently developing multiple businesses that deliver positive global impact. Because there's only one Earth.

⁴ <https://www.mlc.com/>

Mars is for quitters.

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