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Leilac-2 location confirmed at Heidelberg Materials' cement plant in Ennigerloh, Germany

Sydney, Australia | 4 March 2024 – Australian environmental technology company Calix Limited (ASX:CXL, "Calix" or "the Company") is pleased to announce that the Leilac-2 (Low Emissions Intensity Lime And Cement) project will be hosted at Heidelberg Materials' (FWB: HEI) cement plant in Ennigerloh, Germany.

Highlights

- Leilac-2 will be constructed at Heidelberg Materials' cement plant in Ennigerloh, Germany.
- The selection of Ennigerloh as the project's host plant is the result of a thorough site assessment process that followed Heidelberg Materials' decision to end clinker production in Hanover, Germany.
- The Leilac-2 project has already delivered a robust detailed design ready for construction. This design will now be deployed at Ennigerloh, with minimal delay and additional cost expected.
- Construction of Leilac-2 at Ennigerloh using the already prepared design is anticipated to commence promptly following permitting.
- The Leilac-2 project aims to demonstrate a scalable solution for the efficient capture of unavoidable carbon dioxide emissions released during cement and lime production whilst operating on a range of fuels.
- The successful relocation of Leilac-2 demonstrates the robust and transferrable nature of the Leilac technology and its ability to be rapidly applied at other operational cement plants.

The Leilac-2 project aims to demonstrate a replicable module that can efficiently capture up to 100,000 tonnes per year of unavoidable process carbon dioxide emissions released during cement and lime production. The retrofittable module is designed to be integrated into an operational cement plant with minimal downtime and operate on a range of fuels.

Following Heidelberg Materials' decision to end clinker production in Hanover, Germany, Calix's subsidiary, Leilac Limited ("Leilac"), Heidelberg Materials and IKN, a Leilac-2 project partner, have conducted detailed technical and financial assessments of alternative sites for the project. This process has resulted in the selection of Heidelberg Materials' Ennigerloh cement plant in North Rhine-Westphalia, Germany as the new host plant for the Leilac-2 project.

The Leilac-2 project has already delivered a robust detailed design ready for construction. The Ennigerloh site assessment found that the Leilac-2 design developed for the Hanover plant could be installed at the operational Ennigerloh plant with minimal delay and cost. The required additional engineering work is expected to be limited to site-specific permitting and integration and no increase in total project capital cost is expected.

Construction of Leilac-2 at Ennigerloh based on the existing engineered design is targeted to begin promptly following the conclusion of the permitting process.

The successful relocation of the Leilac-2 project to Ennigerloh will demonstrate the robust and transferrable nature of the Leilac technology and its ability to be quickly deployed at other operational cement plants. Ultimately, Leilac's technology is designed to be delivered through a blueprint model, for construction by local companies, using local resources.

Leilac CEO, Daniel Rennie said, "The Leilac technology represents a scalable and economical solution to address the carbon dioxide emissions that are produced unavoidably by the cement and lime industries, and the rapid demonstration of such solutions is essential to achieving our industrial decarbonisation goals.

"The swift and successful selection of Ennigerloh as the new Leilac-2 host plant is the result of the proactive, positive, and committed approach by Heidelberg Materials, the European Commission, and our partners, and the dedication of an exceptional collective project team.

"We look forward to continuing to work with all our partners to rapidly deploy efficient decarbonisation solutions at Ennigerloh and cement and lime plants around the world."

Heidelberg Materials General Manager Germany, Christian Knell said, "Heidelberg Materials has again demonstrated its commitment to develop the Leilac technology and is pleased to host the Leilac-2 project at the Ennigerloh cement plant. Leilac continues to be an important technology solution for our industry-leading efforts to meet societies' net-zero commitments."

An impression of the Leilac-2 module located at Heidelberg Materials' Ennigerloh cement plant.

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This announcement has been authorised for release to the ASX by:

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About Calix

Calix Limited (ASX: CXL) is an environmental technology company solving global challenges in industrial decarbonisation and sustainability, including CO_2 mitigation, sustainable processing, batteries, biotechnology and water treatment.

Calix's patented core platform technology delivers efficient indirect heating of raw materials to enable electrification of industries, efficient capture of unavoidable emissions, and green industrial processing solutions. Its flash heating approach can also produce unique nanoporous materials with enhanced chemical and/or bio-active properties.

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

Mars is for quitters.

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