



ASX Announcement

November 22, 2019

Calix to join \$150m Future Battery Industries Co-operative Research Centre

Sydney, Australia | November 22, 2019 – Multi-award-winning Australian technology company Calix Limited (ASX: CXL) 'Calix' or 'the Company') is pleased to announce it will be joining the \$150m Future Battery Industries Co-operative Research Centre ("FBI-CRC") after the official opening of its BATMn reactor for advanced battery materials by Senator David Van in Bacchus Marsh, Victoria, yesterday.

Calix has been invited to join the \$150m Future Battery Industries Co-operative Research Centre ("FBI-CRC") as a key participant, given the role its technology could play not only in developing advanced battery materials, but also in improving extractive mineral techniques such as Lithium from Spodumene ore.

The FBI-CRC is the largest and most ambitious battery development program in Australia. With \$25m in Australian Government support, and the remainder from core industry participants such as BHP, Tianqi Lithium and Galaxy Resources, the ambition of the FBI-CRC is to position Australia as a world leader in innovative energy minerals extraction, processing and upstream battery storage technologies as well as how batteries are used in cities and regions.

BATMn is a \$2.7m proprietary electric reactor, based on Calix's core technology, for producing advanced battery materials, part-funded by the Australian government through the Advanced Manufacturing Growth Fund. BATMn was successfully commissioned on time and under budget in August, 2019.

Membership of the FBI-CRC comes on top of Calix's participation in the Australian Research Council \$6.5m StorEnergy industrial innovation training centre (announced August 2018), the EU Horizon 2020 €3.9m Polystorage (Polymers for Next Generation Electrochemical Energy Storage) program and the Calix-led \$9.4m CRC-P for Advanced Hybrid Batteries (announced August 2019). The rapid development of these research and development programs, and the associated international networks including global major industrial companies, is a testament to the potential of Calix's platform technology, and the successful execution of Calix's strategy to leverage this technology into new industries.

Phil Hodgson, CEO, Calix, said, "The rapid growth in electric vehicles and renewable energy is creating a global need for more efficient, cheaper, higher-capacity and more sustainable energy storage options. While a large part of this growth has been enabled through the performance of lithium-ion batteries, the issues around the cost, capacity, safety and sustainability of current lithium-ion batteries will increasingly limit this growth.

"There is a need for advanced materials for lithium-ion batteries that deliver superior performance and safety at lower cost while at the same time reducing environmental impact. With BATMn, and our expanded network of research institutes and major industrial players, this is exactly what Calix is trying to achieve."

Dr Matt Boot-Handford, Calix's R&D manager for batteries and catalysts, said, "Calix collaborates with and has backing from the government, industry, and research institutions including the Institute for Frontier Materials (IFM) and BatTRI-Hub at Deakin University, Monash University, Queensland University of Technology, the

European Union and Boron Molecular Pty Ltd. For advanced battery development, this is critical in fast-tracking development and commercialisation of high-performance electrochemical energy storage devices.”



Senator David Van and Calix CEO Phil Hodgson at the official opening of the BATMn reactor in Bacchus Marsh on 21st November 2019



About Calix

Calix is a team of dedicated people developing a unique, patented technology to provide industrial solutions that address global sustainability challenges.

The core technology is being used to develop more environmentally friendly solutions for advanced batteries, crop protection, aquaculture, wastewater, and carbon reduction.

Calix develops its technology via a global network of research and development collaborations, including governments, research institutes and universities, some of world's largest companies, and a growing customer base and distributor network for its commercialised products and processes.

Because there's only one Earth – Mars is for Quitters.

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