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Mining3 and Low Emission Technology Australia partner with hte GmbH to advance Methane abatement technology as part of industry initiative

Brisbane and Heidelberg [March 27, 2025]: Mining3 and Low Emission Technology Australia (LETA) are pleased to announce a partnership with hte GmbH to accelerate the development of catalytic technology to reduce Methane emissions from Australian mine sites. The partnership is part of the CATCH4: Catalytic Oxidation of Methane Program funded by LETA, a not-for-profit investment fund that accelerates the development and large-scale deployment of technology solutions to reduce and remove greenhouse gas emissions from critical industries.

Methane, a greenhouse gas with a global warming potential 28 times greater than carbon dioxide, is a major contributor to climate change. Addressing methane emissions from mining is critical to reducing the industry's environmental footprint.

Through this initiative, the CATCH4 Project will explore the potential of catalytic oxidation technology as an effective solution for Methane abatement.

Phase 1, (CAT-Op) of the CATCH4 project aims to evaluate promising catalysts through comprehensive testing protocols. This approach aims to provide valuable insights into catalyst performance under various conditions, supporting informed decision-making for future commercialisation efforts. In parallel to testing, Phase one will also assess and suggest a commercialisation roadmap including suitable pilot designs for next phases.

hte GmbH will conduct comprehensive assessments of various catalysts to get insights to their operational envelopes. Leveraging its advanced high throughput experimentation capabilities, hte will map out the conditions under which catalysts will meet the required performance which will inform their current readiness stage for large-scale deployment in Australian coal mines and worldwide. These tests, scheduled for the first half of this year, will provide crucial data to inform the design of pilot programs in subsequent project phases.

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This partnership is a significant step forward in advancing sustainable mining practices and contributing to Australia's net-zero ambitions.

Dr Neville Plint, Chief Executive Officer at Mining3, expressed enthusiasm and confidence in the partnership: "We are delighted to collaborate with hte GmbH on this significant initiative. Their expertise in catalyst testing and ability to accommodate our unique program makes them an ideal partner. We are confident that this continued partnership will accelerate the development of effective solutions to reduce methane emissions in the mining industry."

Dr Wolfram Stichert, Chief Executive Officer at hte GmbH, emphasised the impact of the collaboration: "This collaboration represents a pivotal step toward addressing the global challenge of Methane emissions in the mining industry. By leveraging our cutting-edge catalytic processing technology, we aim to help mitigate the environmental impact of these emissions. Together with Mining3 and LETA, we seek to provide practical, sustainable solutions that can make a real difference in the mining sector."

Mark McCallum, Chief Executive Officer of LETA highlighted the opportunity of the industry collaboration: "Mitigating methane emissions from mine sites is an important goal that LETA has been supporting for more than a decade. The CATCH4 Program has significant potential and we welcome hte GmbH to this important project."

Dr Adrian Seyfaee, Program Director—Scale Up & Commercialisation at Mining3, highlighted the strategic importance of the partnership: "Working with hte's team allows us to leverage their state-of-the-art facilities and expert team to advance our catalytic VAM abatement technology. This collaboration is a significant step towards transforming the mining industry through sustainable innovation."

Mining3's collaboration with LETA on this initiative underscores a shared commitment to developing and commercialising technologies that can safely reduce emissions at Australian mine sites. The findings from this research will provide key insights into the viability of catalytic oxidation technology for large-scale methane abatement, supporting industry-wide efforts to reduce greenhouse gas emissions.

About Mining3

[Mining3](#) is dedicated to transforming the mining industry by leveraging extensive knowledge and fostering partnerships with mining companies, innovators, and technology suppliers. We accelerate the deployment of world-class innovations to ensure that mining operations are safe, sustainable, and profitable. With expertise across multiple engineering disciplines and



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access to cutting-edge testing facilities, Mining3 is well-equipped to manage and build consortiums that drive multi-year programs of work.

About hte

Founded in 1999 and headquartered in Heidelberg, Germany, hte develops innovative R&D workflows on lab-scale. These workflows comprise reactor systems, precise analytics, software solutions, and in-depth application expertise. With our more than 400 employees and our expertise, we are able to downscale commercial processes to lab-scale and quickly generate results with high data quality and commercial relevance to help our customers achieving their sustainability goals. For more information, visit our website www.hte-company.com.

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