Creating a Sustainable Vanadium Industry in Queensland – primary mining and recycling

G. Loyden

Managing Director, QEM Limited, Surfers Paradise QLD 4217. Email: gavin@qldem.com.au

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# ABSTRACT (USE ‘heading 1’ STYLE)

Vanadium is a critical new-economy mineral needed for the transition to renewable energy. Australia hosts the second largest vanadium resource globally, following China, but there is no sovereign production. On-shore processing plants near prospective mines will help retain jobs and capital in Australia.

QEM Limited (ASX: QEM) is a publicly listed company focused on the exploration and development of its flagship multi commodity Julia Creek Project, covering 250km² in the Julia Creek area of North-West Queensland.

The company’s vanadium project is a unique world class resource with the potential to utilise and deliver innovative and sustainable energy solutions. In response to a global vanadium deficit, QEM strives to become a leading producer of high purity vanadium pentoxide to the swiftly growing energy storage sector.

QEM is taking innovative steps to power the Julia Creek Project sustainably. QEM has prioritised renewable energy for the Project, aiming to power mining processes and green hydrogen production using 100% renewable sources. The overall project represents a significant step towards sustainable critical minerals production.

QEM has also engaged with The University of Queensland (UQ) for a Circular Economy project, upcycling vanadium-bearing spent catalysts into high-purity vanadium pentoxide (V2O5).

To progress the responsible growth of a nascent Queensland vanadium industry, will require an innovative approach, circular economy initiatives, and commitment to sustainability.