



## **Quantum Sunlands Partnership** **Technical and Commercial Studies Update**

Further to our announcement of 23 December 2021, the Company is pleased to announce the completion of the Quantum Sunlands Partnership's (QSP) National Electricity Market Study. The results of this commercial study will be announced shortly and the study findings will also be available on the Company's website.

The earlier announcement outlined two key studies, the results of which would provide the Company with important data to assess the scope of the contribution of QSP to the Company's Uley 2 project returns.

In addition to the National Electricity Market Study, the second study is a technical study consisting of high temperature test work to confirm certain thermal performance features of the selected Uley 2 flake specification. This test work is a significant expansion of the bench scale work performed to date. It will provide valuable data required for QSP's manufacture of the thermal storage media to be installed within Sunlands Co.'s thermal energy storage cells.

As announced earlier, the test work program is being undertaken under the supervision of Lycopodium Minerals and ProTherm Systems.

The Company is pleased to announce that the detailed design of the test work program has now been completed and a high temperature laboratory selected to perform the program. The laboratory selected is the **Institute for Non-Ferrous Metallurgy and High Purity Materials of the Technische Universität Bergakademie Freiberg** (<https://tu-freiberg.de/en/fakult5/inemet>). TU Freiburg is a world leading materials science and technology university with significant expertise in non-ferrous high temperature, high purity metallurgy.

*Director, David Trimboli commented that, "the end game for QSP is facilitating the building of the pilot and the deployment of Sunlands Co.'s technology. The challenge has been selecting the right institution to perform this work at a scale that can be immediately applied to our manufacture of the media and the construction of the pilot. The selection of INEMET is a very exciting development, it delivers the essential expertise and the critical equipment needed to perform this work."*

**FOR FURTHER INFORMATION CONTACT:**

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**ABOUT QUANTUM GRAPHITE LIMITED**

QGL is the owner of the Uley flake graphite mineral deposits located south-west of Port Lincoln, South Australia. The company's Uley 2 project represents the next stage of development of the century old Uley mine, one of the largest high-grade natural flake deposits in the world. For further information, [qgraphite.com](http://qgraphite.com).

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