

## **Sunlands Co. Thermal Energy Storage Technology South African Grant of Patent**

The Company is pleased to announce that its joint venture partner, Sunlands Co., has received its first patent grant for its thermal battery technology. The patent priority date is 29 November 2017. Specifically, the South African Patent Office granted it Deed of Letters Patent for its THERMAL BATTERY AND ELECTRICITY GENERATION SYSTEM.

Sunlands Co.'s technology is the subject of an international patent application filed in November 2017 under the World Intellectual Property Organisation's Patent Cooperation Treaty which covers 155 countries.

The joint venture with Sunlands Co. cements the Company's participation in world leading, long duration energy storage technology, critical to decarbonisation of our energy sector. The joint venture's manufacture of the storage media utilising Uley 2 coarse graphite as the essential raw material, is the critical component in Sunlands Co. energy storage cells.

This technology is the only available technology capable of operating at the high temperatures (670°C to 2,000°C) required to drive large, utility scale steam turbine generators thereby offering coal fired generators a viable path to retrofitting their facilities and achieving emissions free energy.

REPUBLIC OF SOUTH AFRICA



REPUBLIEK VAN SUID AFRIKA

PATENTS ACT, 1978

### **CERTIFICATE**

In accordance with section 44 (1) of the Patents Act, No. 57 of 1978, it is hereby certified that:

#### **THE SUNLANDS COMPANY PTY LTD**

Has been granted a patent in respect of an invention described and claimed in complete specification deposited at the Patent Office under the number

**2020/03803**

A copy of the complete specification is annexed, together with the relevant Form P2.

In testimony thereof, the seal of the Patent Office has been affixed at Pretoria with effect

from the **29<sup>th</sup>** day of **September 2021**



.....  
**Registrar of Patents**

#### **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).

**FOR FURTHER INFORMATION CONTACT:**

Company Secretary

Quantum Graphite Limited

T: +61 3 8614 8414

E: [info@qgraphite.com](mailto:info@qgraphite.com)