

22 June 2021

Drilling campaign underway at Phoenix Platinum Zone

MELBOURNE, Australia – Sunrise Energy Metals ('the Company') (ASX:SRL and OTC:SREMF) is pleased to announce that drilling activity has recommenced at the highly prospective Phoenix Platinum Zone at the Sunrise Project in NSW, Australia.

Key Highlights

- The initial 3-hole drilling campaign confirmed a high grade platinum intersection of 0.6m at 129g/t platinum at 255.9m downhole (ref ASX announcement 3 May 2020).
- The intersection also included significant grades of palladium, rhodium, iridium, osmium and ruthenium (Hole SDD022: 0.6m from 255.9m at 129g/t Platinum, 1.23g/t Palladium, 1.79g/t Rhodium, 4.00g/t Iridium, 0.89g/t Osmium and 0.28g/t Ruthenium).
- The second phase of the drilling campaign at Phoenix has commenced. The campaign will comprise an additional 3 drill holes targeting the high grade intercepts discovered in the initial campaign.
- The program is expected to be completed by the end of July with assay results expected during the September quarter.

Sunrise Energy Metals launched an initial drill campaign to target the Phoenix platinum anomaly at the Sunrise Project located in NSW. The first hole (SDD022) of a planned six-hole diamond core drill program returned an extraordinarily high grade intersection of 0.6m at 129g/t platinum at 255.9m downhole. The intersection included significant grades of palladium, rhodium, iridium, osmium and ruthenium.

The Company has launched the next phase of the drilling campaign which will see a further 3 holes drilled targeting intersections of the structure which the initial drilling campaign indicated could be high grade PGE mineralization within the chromite dominant structure.

The program is expected to be completed by the end of July with assay results expected during the September quarter.

CEO, Sam Riggall said: “Following the success of the initial drill campaign which saw the significant high-grade platinum intersection at the Phoenix target, we are pleased to extend our drilling campaign by a further 3 holes. While our focus remains on activities supporting financing the Sunrise Battery Materials Complex, we will continue our exploration activities with the aim of developing a better understanding of the geological potential of our broader tenement package.”



Phase Two of the Phoenix Platinum Zone Drilling campaign underway at the Sunrise Project

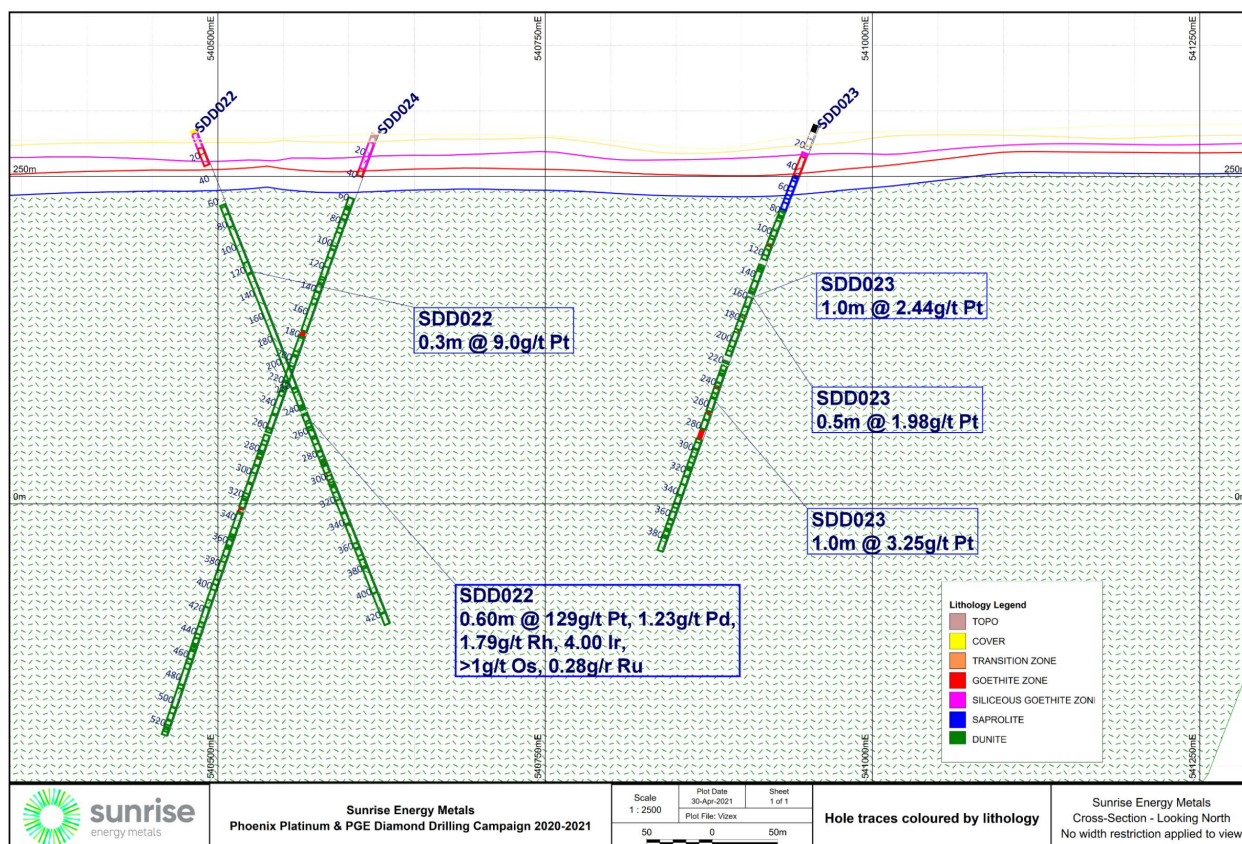
For more information, please contact:

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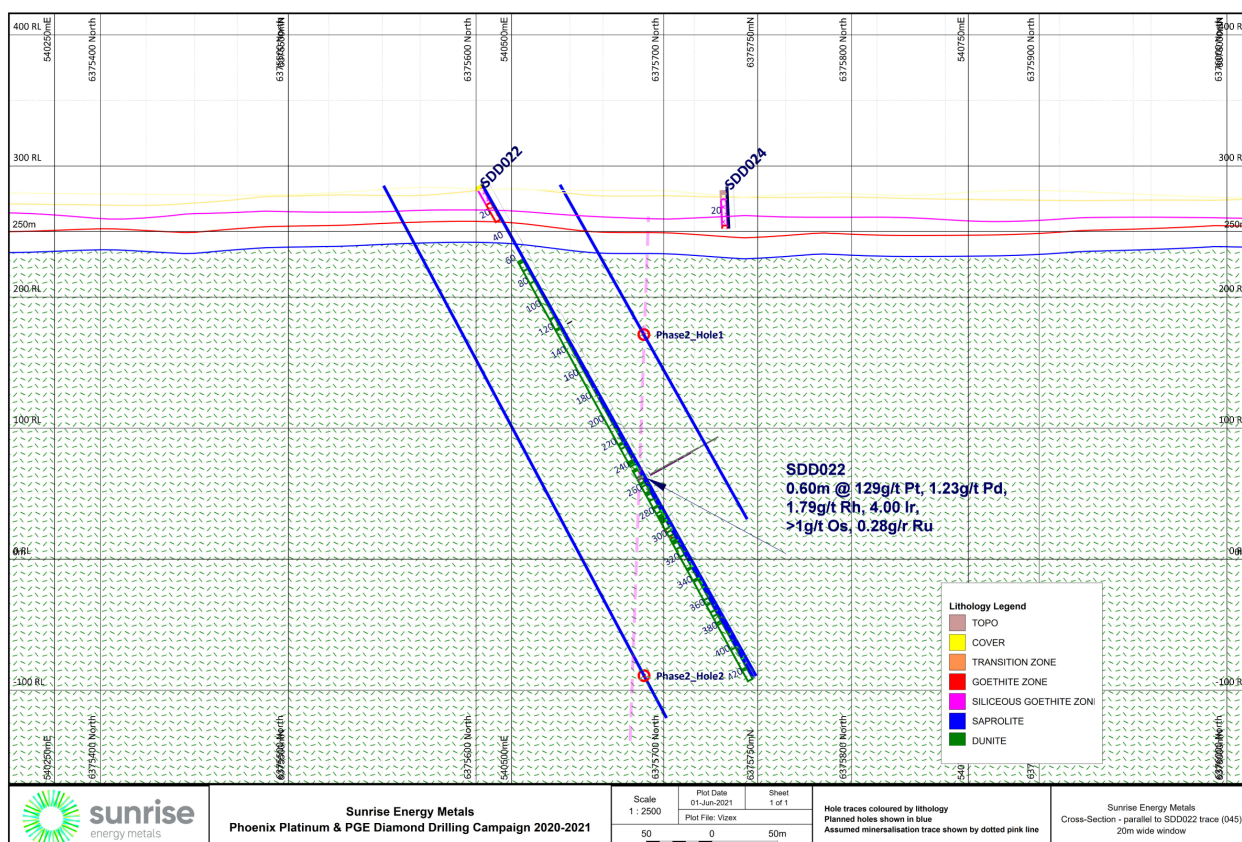
CFO and Investor Relations

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This announcement is authorised for release to the market by the Board of Directors of Sunrise Energy Metals Limited.



The initial diamond drill hole (SDD022) intersected the targeted area around 120m below surface which was identified in historic drilling undertaken by Ivanplats (SRC1257)



Locations of the planned Phase Two drill holes

Background

In the late 19th century Fifield was the world's largest source of platinum and the site of the only primary platinum mine in Australia. In more recent years, small scale platinum mining took place in alluvial leads and gravels. Within the Fifield Platinum Province approximately 20,000 oz of platinum, with accessory gold, has been mined from three buried channels radiating out from the Fifield township. A number of studies over previous decades have proposed that the alluvial leads within the Fifield area may have originated from the platinum within the Tout Intrusive Complex.

The Fifield Platinum Province contains mineralisation that appears analogous to Alaskan-type ultramafic systems, often hosting extensive PGE mineralization, including platinum, palladium, iridium, osmium, rhodium and ruthenium. These include deposits located at Nizhny-Tagil in Russia and Onverwacht in South Africa. South Africa, Russia and Zimbabwe currently account for 85 per cent of global PGE production.

The Sunrise laterite hosts a significant platinum resource¹ of 103.1 Mt @ 0.33 g/t platinum for 1,076,170 ounces of platinum, using a 0.15 g/t platinum cut-off grade, making it one of the largest platinum resources in Australia. Of this total resource, approximately 90% (metal content) is in the measured and indicated categories. While the average grade over the global resource is relatively low, areas of significantly higher-grade platinum mineralisation exist within the resource envelope.

An area of high-grade platinum mineralisation has been defined within the Sunrise laterite resource - the Phoenix Platinum Zone. Despite extensive drilling over previous decades, only a handful of holes have been drilled beneath the Sunrise laterite. Of these, significant historic downhole intersections include²:

- 4m (from 119m) @ 7.4g/t Pt, 0.13% Ni and 0.01% Co, for 29.4 g.m Pt (SRC1257)
- 1m (from 127m) @ 6.5g/t Pt, 0.15% Ni and 0.01% Co, for 6.5 g.m Pt (SRC1253)
- 1m (from 23m) @ 4.2g/t Pt, 0.15% Ni and 0.01% Co, for 4.2 g.m Pt (SRC1261)

All holes were drilled using reverse circulation rigs and no assays were undertaken for other PGEs in these drill samples.

Given the high platinum grades near surface and historic intercepts beneath the laterite, drilling is underway to test the structural geology of the Tout Intrusive Complex with the aim of establishing

¹ For full details see the ASX announcement dated 9 October 2017

² Drilling undertaken by previous owner Ivanplats in 2005/06 with assays undertaken by ALS in Orange, NSW. Data is as per the drilling data records provided by Ivanplats to the Company. This historical data is relevant and material in the context of the deeper drilling program detailed herein. Although the Company is confident the drill data is accurate, the information is based on historic drilling and records and therefore does not conform to JORC 2012 standards.

a PGE resource that will either integrate with the development of the Sunrise Nickel-Cobalt-Scandium Project, or be developed as a stand-alone operation.

About Sunrise Energy Metals Limited (ASX:SRL) – Based in Melbourne, Australia, Sunrise Energy Metals is a global leader in metals recovery and industrial water treatment through the application of its proprietary Clean-iX® continuous ion exchange technology. For more information about Sunrise Energy Metals please visit the Company's website www.sunriseem.com

About the Sunrise Project – Sunrise Energy Metals is the 100% owner of the Sunrise Project, located in New South Wales. The Sunrise Project is one of the largest cobalt deposits outside of Africa, and one of the largest and highest-grade accumulations of scandium ever discovered.

About Clean TeQ Water – Through its wholly owned subsidiary Clean TeQ Water, Sunrise Energy Metals is also providing innovative wastewater treatment solutions for removing hardness, desalination, nutrient removal and zero liquid discharge. The sectors of focus include municipal wastewater, surface water, industrial waste water and mining waste water. For more information about Clean TeQ Water please visit www.cleanteqwater.com.

Competent Person's Statement

The information in this announcement that relates to Exploration Results in relation to the Sunrise Phoenix Platinum Project is based on and fairly represents information and supporting documentation compiled by John Winterbottom BSc (Geology), a Competent Person, who is a Member of the Australian Institute of Geoscientists. Mr Winterbottom is a full-time employee of the company and has sufficient experience that is relevant to the activity being undertaken to qualify as a Competent Person as defined in the 2012 edition of the Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves, and is a Qualified Person under National Instrument 43-101 – 'Standards of Disclosure for Mineral Projects'. The Qualified Person has verified the data disclosed in this release, including sampling, analytical and test data underlying the information contained in this release. Mr Winterbottom consents to the inclusion in the announcement of the matters based on his information in the form and context in which it appears.

Forward Looking Statements

Certain statements in this news release constitute "forward-looking statements" or "forward-looking information" within the meaning of applicable securities laws. Such statements involve known and unknown risks, uncertainties and other factors, which may cause actual results, performance or achievements of the Company or industry results, to be materially different from any future results, performance or achievements expressed or implied by such forward-looking statements or information. Such statements can be identified by the use of words such as "may", "would", "could", "will", "intend", "expect", "believe", "plan", "anticipate", "estimate", "scheduled", "forecast", "predict" and other similar terminology, or state that certain actions, events or results "may", "could", "would", "might" or "will" be taken, occur or be achieved. These statements reflect the Company's current expectations regarding future events, performance and results, and speak only as of the date of this new release. Readers are cautioned not to place undue reliance on forward-looking information or statements.

Although the forward-looking statements contained in this news release are based upon what management of the Company believes are reasonable assumptions, the Company cannot assure investors that actual results will be consistent with these forward-looking statements. These forward-looking statements are made as of the date of this news release and are expressly qualified in their entirety by this cautionary statement. Subject to applicable securities laws, the Company does not assume any obligation to update or revise the forward-looking statements contained herein to reflect events or circumstances occurring after the date of this news release.