

# Yellow Rock advances vanadium battery strategy by recruiting international expert

Yellow Rock Resources (ASX: YRR) is pleased to advise that it has taken a key step in its strategy to become a major supplier of Australian vanadium to the high-technology battery market by appointing an internationally-renowned expert in the field as a consultant.

Emeritus Professor Maria Skyllas-Kazacos of the University of NSW will play a leading role in Yellow Rock's program to establish vanadium electrolyte production from the Company's Gabanintha project in WA for use in the rapidly emerging battery industry.

Prof Skyllas-Kazacos will assist Yellow Rock to assess the global market for the vanadium electrolyte used in the batteries and to identify the optimum method of processing Gabanintha vanadium for this market.

She will also assist with Yellow Rock's studies aimed at determining the extent to which the cost of manufacturing vanadium batteries could be reduced by using a mine-quality vanadium product.

The results of these studies will be included in a new scoping study on Gabanintha. Yellow Rock has already completed a concept study on Gabanintha, though this was restricted to the use of the vanadium in the steel industry.

In light of the strong outlook for the vanadium battery industry, the Company intends to advance the project in a way that will enable it to supply both the battery and steel industries.

Prof Skyllas-Kazacos played a key role in inventing the all-vanadium redox flow cell battery in 1985 and she has continued developing this technology at the UNSW.

Under her guidance, the UNSW installed a Gildemeister Cell Cube 130kWh vanadium flow battery on the campus earlier this year. The battery will be used to provide power to a university building in conjunction with solar energy and in teaching and battery research.

As the first major installation of a large vanadium redox battery in Australia, it can provide up to 30kW of power for more than four hours.

Yellow Rock Chief Executive Vincent Algar said Professor Skyllas-Kazacos' knowledge and experience would be invaluable to the Company.

"The vanadium battery industry is reaching commercialisation and opportunities exist in the science and economics surrounding vanadium in energy storage," Mr Algar said.

"Prof Skyllas-Kazacos' skills will help us determine the most effective means of capitalising on the huge opportunity we have to be a major vanadium supplier to this rapidly-expanding market which has massive positive implications for the volume of vanadium required globally"

## Vincent Algar

CEO Yellow Rock Resources

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## ASX ANNOUNCEMENT

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### Projects:

**Gabanintha** Vanadium  
**Gabanintha** Gold, Copper





Fig 1. Emeritus Professor Maria Skyllas-Kazacos of the University of NSW and Michael Kazacos with the Vanadium Flow Battery installation at the UNSW



Fig 2. CEO Vincent Algar with the Vanadium Flow Battery installation at the UNSW