



ASX Announcement

22nd August 2022

Tempo Awarded Practical Completion on Hydrogen Storage SAPS

The Board of Tempo Australia Limited (ASX: TPP, “Tempo”) is pleased to advise that Tempo has been awarded Practical Completion on our Stand-Alone Power Supply (SAPS) for Essential Energy combining Solar Power with Hydrogen Storage.

The SAPS Project included Tempo’s **greenHy2** system based on GKN Solid State Hydrogen Storage Technology and is a 100% renewable solution for a completely off grid facility. The heart of the system is the Solid-State Metal Hydride Hydrogen Storage that provides storage of almost half a Mega Watt Hour of electricity and over 40 days of forecast storage for the facility. The SAPs, installed in a remote location three-hour drive north of Sydney, is fed from 100% renewable solar energy based alongside the storage system. Over the next year the system will be monitored for performance and includes a state of the art digital monitoring and operating platform that provides detailed data analysis, remotely to our monitoring facilities globally. This digital platform, provides real time performance of the system and includes artificial intelligence to optimise the system over time.

Metal Hydride technology for the storage of Hydrogen is considered the safest and most efficient method of Hydrogen Storage available, as Hydrogen is stored as a solid, not a gas. It enables low pressure (max 40 Bar), ambient storage with a volumetric energy density far greater than that of Lithium-Ion Batteries and compressed Hydrogen at 700 Bar. The storage is fed directly from an Electrolyser and in turn directly feeds a Fuel Cell, both without recompression.

The Metal Hydride Technology is 100% recyclable, has an expected life of 30 years and energy storage capacity is maintained over the life time (no degradation). The use of metal hydride hydrogen storage is considered the only current technology to feasibly provide 100% renewable fraction (no diesel back-up) for stand alone power supplies and disconnected grids, being fed purely by solar, wind or Hydro power generation.

Essential Energy is a state-owned electricity infrastructure company which owns, maintains and operates the electrical distribution networks for much of New South Wales, covering 95 percent of the State’s geography, and parts of southern Queensland. Essential Energy has over 855,000 customers.

William Howard
Executive Director, Chief Financial Officer & Company Secretary
Tempo Australia Ltd

This announcement had been authorised for release by the board.

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FOR FURTHER INFORMATION PLEASE CONTACT:

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ABOUT TEMPO

Tempo Australia Ltd (ASX: TPP) is one of Australia's leading innovators in the delivery of engineering, construction, maintenance, asset management and telecommunication infrastructure services. The company was established in 2011 and has specific expertise in structural, mechanical, piping, electrical, telecommunication and data communication.

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