

MEDIA RELEASE

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AUSTRALIAN FIRST: HYDROGEN INTEGRATED STAND-ALONE POWER SYSTEM DEMONSTRATION UNIT POWERS AMPCONTROL MANUFACTURING FACILITY IN VICTORIA

- The Hon. Lily D'Ambrosio MP, Minister for Climate Action, Minister for Energy and Resources, and Minister for the State Electricity Commission unveils 100% Renewable Hydrogen Integrated Stand-alone Power System (HiSAPS) at Ringwood, Victoria.
- First project completed under the Victorian State Government Renewable Hydrogen Commercialisation Pathways Fund.
- HiSAPS an example of collaboration between Ampcontrol, Horizon Power and Boundary Power to challenge the future, solve the most complex problems in energy, and help make net zero a reality.
- The project is the first of its kind in Australia, demonstrating the end-to-end integration of hydrogen as a clean, safe, and reliable fuel source.

The Honourable Lily D'Ambrosio MP, Minister for Climate Action, Minister for Energy and Resources, and Minister for the State Electricity Commission visited Ampcontrol Ringwood, Victoria, on Monday 9 October 2023 to unveil a 100% hydrogen-integrated relocatable stand-alone power system (HiSAPS) powering the manufacturing facilities.

A first of its kind in Australia, the HiSAPS was developed by Boundary Power, a joint venture between Ampcontrol and Australian energy utility Horizon Power, after receiving funding by the Department of Energy, Environment and Climate Action (DEECA) Victoria.

Boundary Power proposed the hydrogen-integrated stand-alone power system project as part of the Victorian Government Renewable Hydrogen Commercialisation Pathways Fund, successfully receiving a \$176,150 grant to develop a demonstration unit as an evidence base for decarbonisation that will see Victoria produce and use renewable hydrogen trials in real-world applications.

"There is a world of opportunity in the next five to 10 years to fill the gaps as the world collectively works to achieve global net zero. Some of our most innovative products within the renewable energy space have come about due to collaboration and partnership. HiSAPS is a brilliant example of collaboration, and investment from government, working together with industry to enable a smooth transition into a clean, reliable, and affordable energy future," said **Rod Henderson, Ampcontrol Managing Director & CEO**.

The 100% Renewable Hydrogen Integrated Stand-alone Power System uses solar power and a renewable hydrogen hybrid battery to store and generate electricity when required. It is able to perform energy storage, balancing and generation functions for Ampcontrol industrial property in Ringwood, Victoria. The unit design utilises Boundary Power's award-winning Solar Qube® product, a relocatable all-in-one stand-alone power system.

Ampcontrol design engineers collaborated with Selectronic for the Solar Qube® electrical design to develop advanced features using the Australian designed and manufactured Selectronic battery inverter. The concept of the HiSAPS design was to replace the onboard diesel generator with the LAVO self-contained hydrogen power system. The LAVO unit is a prototype system developed and tested in NSW and deployed for trial across Australia.

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HiSAPS demonstrates collaboration in action, with Ampcontrol, Boundary Power, and LAVO working together to deliver energy solutions of scale to lead the global energy revolution.

The visit comes after Ampcontrol was named one of Australia's Most Innovative Companies for 2023 by the Australian Financial Review (AFR) for its advanced Australian manufacturing of energy solutions.

Thomas Steigler, Ampcontrol Research Engineer, who played a key role in the engineering design of HiSAPS hosted the event, which included a tour of Ampcontrol manufacturing facilities to show the Hon. Lily D'Ambrosio MP and **The Honourable Shaun Leane**, member of the Legislative Council, representing Noth-Eastern Metropolitan and President of Legislative Council in Victoria, the demonstration unit in action and how Ampcontrol develops world-leading technology to help solve the most complex problems in energy.

"We're supporting research and development in the renewable hydrogen sector to better understand the role it could play in Victoria's renewable energy transition," said **The Hon. Lily D'Ambrosio MP**.

"Victoria's renewable hydrogen has the potential to create long-term jobs through skills development and new career pathways, drive innovation and reduce emissions across our industrial, energy and transport sectors."

The HiSAPS demonstration project and its associated design, installation, and integration have provided significant insights into the technical, regulatory, and safety aspects of integrating hydrogen systems into a stand-alone power system.

The system operational data from the Solar Qube® and LAVO system is collected in the Solar Qube® monitoring platform and published to the Ampcontrol AWARE® platform for remote review and data collection.

The project is now entering the operational phase where the system performance will be monitored for 12 months, providing further technical and operational insights. The project will form a critical building block of knowledge on the pathway towards zero emissions future SAPS.

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Ampcontrol is challenging the future by solving the most complex problems in energy. Ampcontrol creates energy solutions of scale using innovation partnerships, their smart people and advanced Australian manufacturing. Their vision is to lead the global energy revolution and make net zero a reality. Every day, the world-first innovations from Ampcontrol help and support customers in all industries to decarbonise. With a proven track record of award-winning innovations and 55 years of developing custom energy solutions, Ampcontrol is trusted by customers worldwide to future-proof their business.

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