

## OKA AUSTRALIA Press Release

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# Vytas Selects OKA to Demonstrate World-First Green Hydrogen On-Demand Technology

**Vytas**, a producer and developer of technology materials essential to global decarbonisation, has selected **OKA Australia** and its Gen 5 all-terrain vehicle platform to demonstrate its world-first GHOD (Green Hydrogen On Demand) technology.

The two West Australian companies have signed a Memorandum of Understanding to collaborate in developing a dual-fuel diesel-hydrogen variant of the Gen 5 OKA vehicle for applications in the mining, utility, emergency response, and defence sectors. An initial prototype vehicle will serve as a mobile testbed for the GHOD technology and its commercial applications in vehicles.

This partnership marks a significant industry milestone in the global push to identify and scale low-emission and alternative energy technologies for heavy transport, remote access, and critical infrastructure environments.

The Gen 5 OKA is the result of 39 years of Australian engineering and the latest evolution of OKA's mine-spec all-terrain vehicle platform. Previous OKA models, produced in the 1990s, are well-renowned for their capability in harsh terrains and are used across defence and emergency response sectors, with many of the original 500 vehicles still in service over 30 years later.

A light rigid-class vehicle, the Gen 5 OKA is engineered to carry payloads of up to 3.5 tonnes across extreme terrains. With the integration of Vytas' GHOD technology, OKA is developing a new class of dual-fuel, hydrogen-ready vehicles that reduce emissions, lower operating costs, and enhance off-road capability.

As hydrogen powertrain options from companies like Cummins Inc. and JCB become widely available, the OKA platform offers a practical path to deploy these technologies in real-world environments.

Oliver Barnes, Executive Chairman of OKA Australia, commented:

"We're proud that Vytas has chosen the Gen 5 OKA platform to demonstrate their GHOD technology. This partnership showcases what's possible when two West Australian innovators come together to accelerate the transition to low-emission transport, particularly in some of the world's harshest and most remote operating environments.

OKA vehicles are built to be reliable, durable, and modular, which makes them the ideal testbed for a new generation of safe hydrogen technologies such as GHOD. We see enormous potential for dual-fuel applications in sectors where reliability and range are non-negotiable. This integration represents a practical step forward in decarbonising heavy transport without compromising safety, performance, or capability.

This relationship represents another step in OKA Australia's strategy to scale production and meet growing global demand for low-emission, high-performance all-terrain vehicles. We're excited to work with Vytas to bring this technology into real-world use."

## Leading a Safer, Smarter Hydrogen Future

Vytas' GHOD hydrogen technology, produced from nanoporous silicon, has been developed with support from the US Marines, Office of Naval Research, MIT Lincoln Laboratory, and Curtin University. It addresses long-standing barriers to hydrogen use, including storage, compression, and cost.

David Cornell, Managing Director of Vytas, said:

"The OKA platform is a true workhorse. I saw its rugged performance first-hand during my time in the Department of Defence. For us, the Gen 5 OKA is the perfect platform to demonstrate what GHOD can do in real-world conditions.

By producing hydrogen on demand, we eliminate the need for storage infrastructure and significantly reduce the risks and costs associated with conventional hydrogen systems. For Vytas, this is more than an R&D initiative; it's a pathway to scalable, real-world deployment.

Importantly, Vytas holds sufficient feedstock to meet the forecasted 2050 global demand for green hydrogen. For the transport sector, our aim is to deliver this at a price point that is competitive with traditional fuels such as diesel."

Vytas is currently scaling up its West Australian pilot plant to produce nanoporous silicon feedstock. In addition to transport, target sectors for Vytas's GHOD technology include defence, maritime, aviation, heavy machinery, and microgrids, where safety and reliability are paramount.

According to recent forecasts, the global green hydrogen market is projected to reach \$30.6 billion by 2030, growing at a CAGR of 61.1% (<u>Green Hydrogen Market – Global Forecast to 2030</u>).

### **Enquiries**

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#### About OKA Australia

OKA is an iconic Australian all-terrain vehicle brand with a 39-year legacy of reliability, payload performance, and off-road capability across mining, defence, emergency response, and industrial sectors. Originally founded in 1986, OKA was revitalised through the recent development of the Gen 5 OKA. OKA Australia is scaling production of the Gen 5 OKA through a capital-efficient model that includes international licensing and a fleet offering. With a loyal customer base and new leadership team, OKA Australia is uniquely positioned to support mission-critical operations in fire, flood, and remote infrastructure environments, delivering an Australian-engineered mobility solution that meets the world's most demanding terrains.

### **About Vytas**

Vytas is an Australian producer and developer of advanced technology materials essential to global decarbonisation. Founded by a team with deep expertise in materials science, research, and product development, Vytas specialises in quartz-derived products including ultra-high purity quartz (UHPQ), silane, and silicon for applications in solar, battery, and industrial sectors. The company is also pioneering a proprietary process for Green Hydrogen On Demand (GHOD), offering a low-cost, low-carbon alternative to traditional hydrogen logistics. Through innovative, scalable technologies, Vytas aims to become Australia's leading supplier of technology materials that accelerate the transition to renewable energy and a circular economy.