

White Hydrogen[®]

Accessing Delafield Pty Ltd.'s Revolutionary

'White Hydrogen'

Carbon Neutral Process

Patented and Proven Technology.



Exploring Collaboration for a Brighter Future

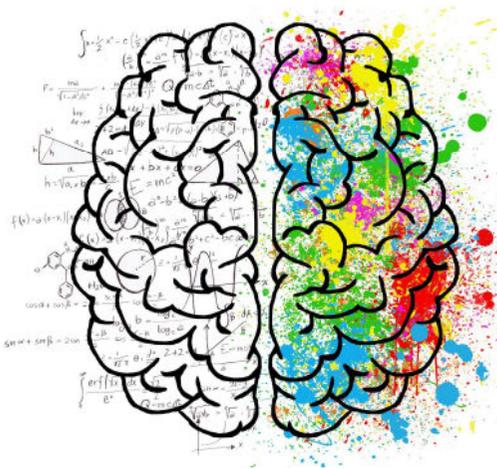
Introducing Delafield Pty Ltd

Founded in 1987, Delafield Pty Ltd leads as a pioneering R&D company in sustainable technologies. We develop innovative solutions, address urgent climate challenges, and uncover crucial missing pieces to combat climate change and achieve Net Zero.

Join us on this transformative journey toward a sustainable future.
Together, we can make a lasting impact.



R&D is where scientific and creative brains come together



Driven by unwavering dedication, Delafield R&D constantly pushes boundaries to create disruptive innovations. Notable achievements are our proprietary **White Hydrogen** process with the **HRC** (Harmonic Resonance Combustion) technology, which lies at the heart of this carbon-neutral process. Through this process, we successfully convert Biomass, crude glycerol, to hydrogen-rich syngas, setting new standards in thermochemical processes, heat transfer, and efficiency for biomass-to-hydrogen conversion.

Our relentless pursuit of transformative change enables us to stay at the forefront of pioneering developments in sustainable energy solutions.

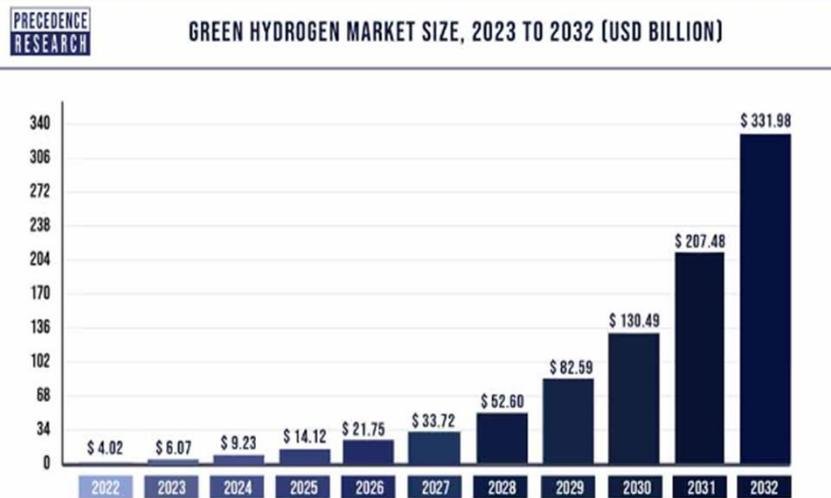
Prioritizing Sustainable Energy

In our climate-conscious world, prioritizing renewable and sustainable energy is crucial. It mitigates climate change, reduces fossil fuel dependence, protects the environment, and ensures a healthy future for all. However, the limitations of solar and wind, particularly their 24/7 output constraints, due to unpredictable weather, challenge their ability to meet the demand for reliable energy. To address this, we must adopt a comprehensive approach beyond solar and wind. Exploring new innovative solutions like our **White Hydrogen** technology is essential to overcome these limitations.



How to meet the demand for Carbon Neutral Energy

Overcoming the limitations of solar and wind, as well as meeting the increasing demand for renewable energy, requires a multi-faceted approach.



Source: www.precedenceresearch.com

- ❑ Investing in research and continue to develop innovative energy technologies.
- ❑ Effectively managing intermittent renewable sources like solar and wind, and utilizing the **White Hydrogen** process for on-site, on-demand hydrogen production.
- ❑ Adopting the **White Hydrogen** technology offers a self-sustaining process operating on renewable biomass feedstock, providing consistent 24/7 and on-demand production of green hydrogen.

Introducing White Hydrogen

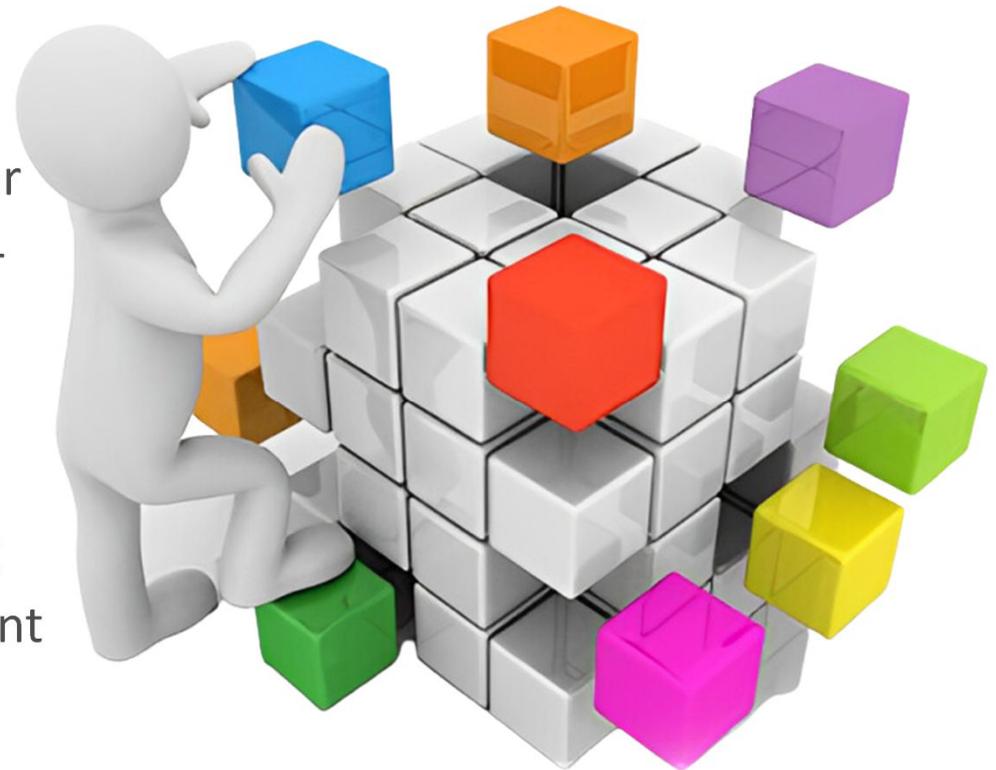


ON-SITE AND
ON-DEMAND

The **White Hydrogen** process revolutionizes hydrogen production by converting biomass waste from biodiesel production, crude glycerol, to 'green' hydrogen. It provides flexibility and adaptability across various applications. This self-sustainable process not only reduces hydrogen production costs but also eliminates reliance on fossil fuels. By harnessing the hydrogen potential of crude glycerol through the **White Hydrogen** process, it propels us toward a net-zero future where reliable and carbon-neutral energy is readily accessible.

Revolutionary Design and Flexibility

- ❑ The modular and scalable design of **White Hydrogen** with **HRC** allows for seamless integration at various end-user sites.
- ❑ It can be customized to fit specific needs and available space, ensuring flexibility and adaptability to different infrastructures.



Cost-Effective and Streamlined Operations

- ❑ By utilizing low-value biomass waste as feedstock, the **White Hydrogen** technology and process successfully reduce the production costs of 'green' hydrogen, resulting in an economically viable and sustainable solution.
- ❑ With scalable on-site and on-demand hydrogen production, eliminate the need for expensive compression and transportation. This allows for seamless integration into existing processes and infrastructure.



Self-Sustaining and Carbon-Neutral process

The **White Hydrogen** technology provides a self-sustaining process. With a third-party supplied integrated gas purification device (PSA), off-gases are recycled back to the reactor, supplying all thermal energy for the process, making it highly efficient and cost-effective.

The feedstock for the conversion process is a biomass waste stream from biodiesel production, making this a truly carbon-neutral and sustainable Hydrogen production process.



Compact And Powerful

White Hydrogen is a true powerhouse. The pilot plant with a footprint of less than 20 m², it fits in a 20ft container. Despite its size, it boasts an extraordinary hydrogen production capacity of 100kg per day. Equivalent to hydrogen produced by around 3500 solar panels across 8 acres of land.



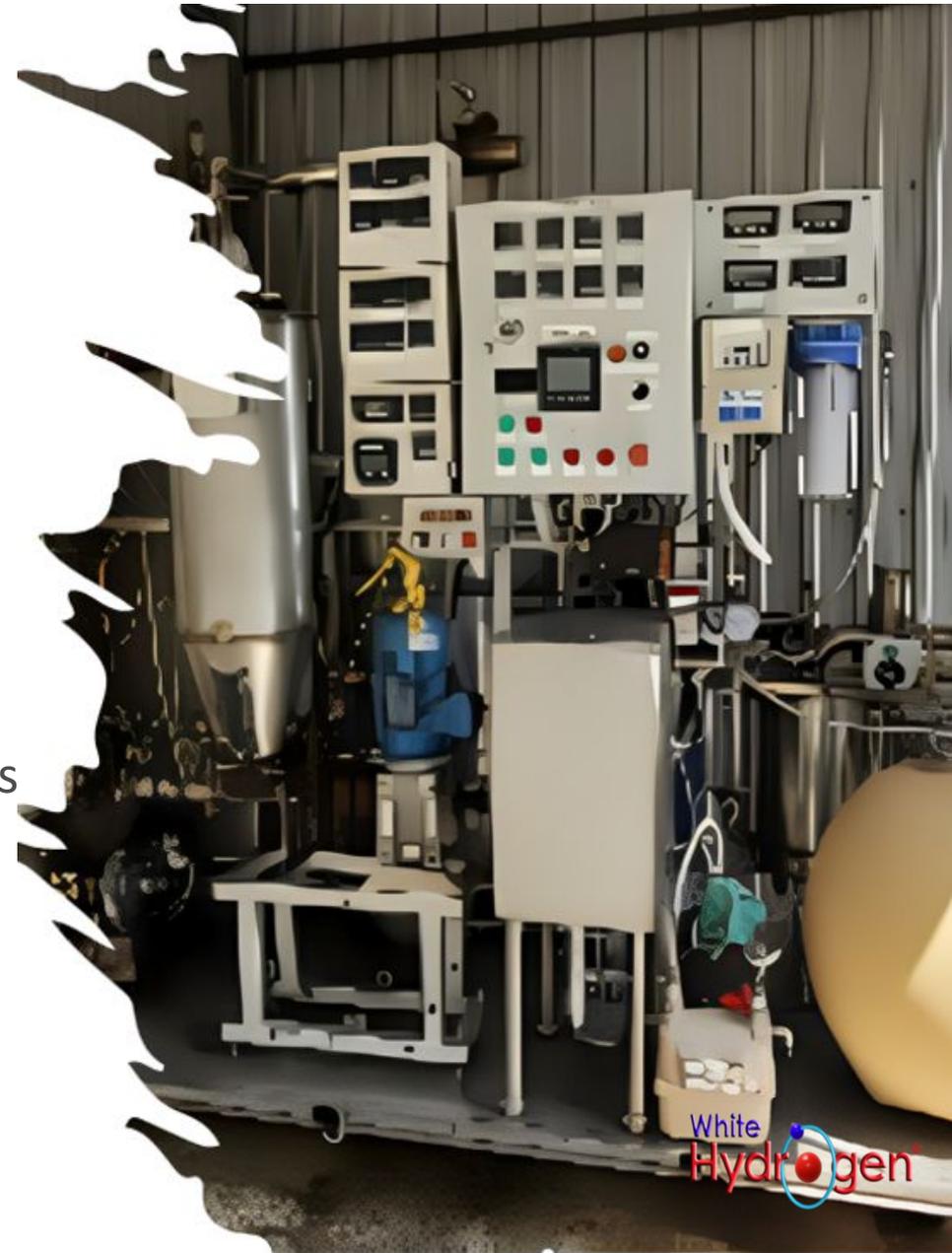
“A picture is worth a thousand words”

White Hydrogen

Comparative footprint for 100kg Hydrogen production per day

Unique market opportunity

- ❑ The technology behind our **White Hydrogen** pilot plant has undergone extensive testing and validation using diverse biomass feedstock, clearly demonstrating its incredible efficiency.
- ❑ The global green market size is expected to grow at a CAGR of 54.98% from US\$ 4.02 billion in 2022 to US\$331.98 billion by 2032.
- ❑ Delafield's **White Hydrogen** with **HRC** presents a remarkable and unique value opportunity to revolutionize the production of green hydrogen.
- ❑ With Delafield's **White Hydrogen** with **HRC** solutions, you bypass the lengthy development phase, reducing time and enabling speed to market, maximizing your return on investment.



Global Market Opportunities



- ❑ The market demand for ‘Green’ hydrogen solutions is soaring.
- ❑ Delafield’s **White Hydrogen** opens doors to new business opportunities and revenue streams.
- ❑ Our scalable solutions cater to various sectors, ensuring adaptability and meeting market needs anywhere.
- ❑ The most cost-effective ‘Green’ hydrogen is **White Hydrogen**.

The future is with White Hydrogen

- Partner with Delafield for innovative sustainable solutions, groundbreaking technology, and our shared commitment to a brighter and greener world.
- Gain access to **White Hydrogen** technology, the key to a sustainable future with carbon-neutral energy.
- We are ready to embark on this journey with you toward a brighter and more sustainable future.
- Let's explore this exceptional opportunity in clean energy technology together.



Collaborating

At Delafield, we're eager to explore collaborative possibilities, leveraging your expertise to unlock the full potential of **White Hydrogen** technology as it holds the key to a brighter future, offering carbon-neutral sustainable energy solutions. Partner with us for exclusive access to innovative solutions aligned with our shared commitment to sustainability. Together, we will drive innovation, make a positive impact, and pave the way for a greener world. Let's join forces to create a sustainable and brighter future. Contact us now!



Transition to a Perfect Fit

At Delafield Pty Ltd, we understand the importance of a seamless transition and ensuring the perfect fit to your operation. With our continuous support and unwavering commitment, we deliver comprehensive assistance throughout the technology transfer process. This includes knowledge sharing, technical aid, and ongoing collaboration. Our team of experts works closely with you to guarantee a smooth integration and the ideal alignment for your operations.



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The Key to a Brighter Future



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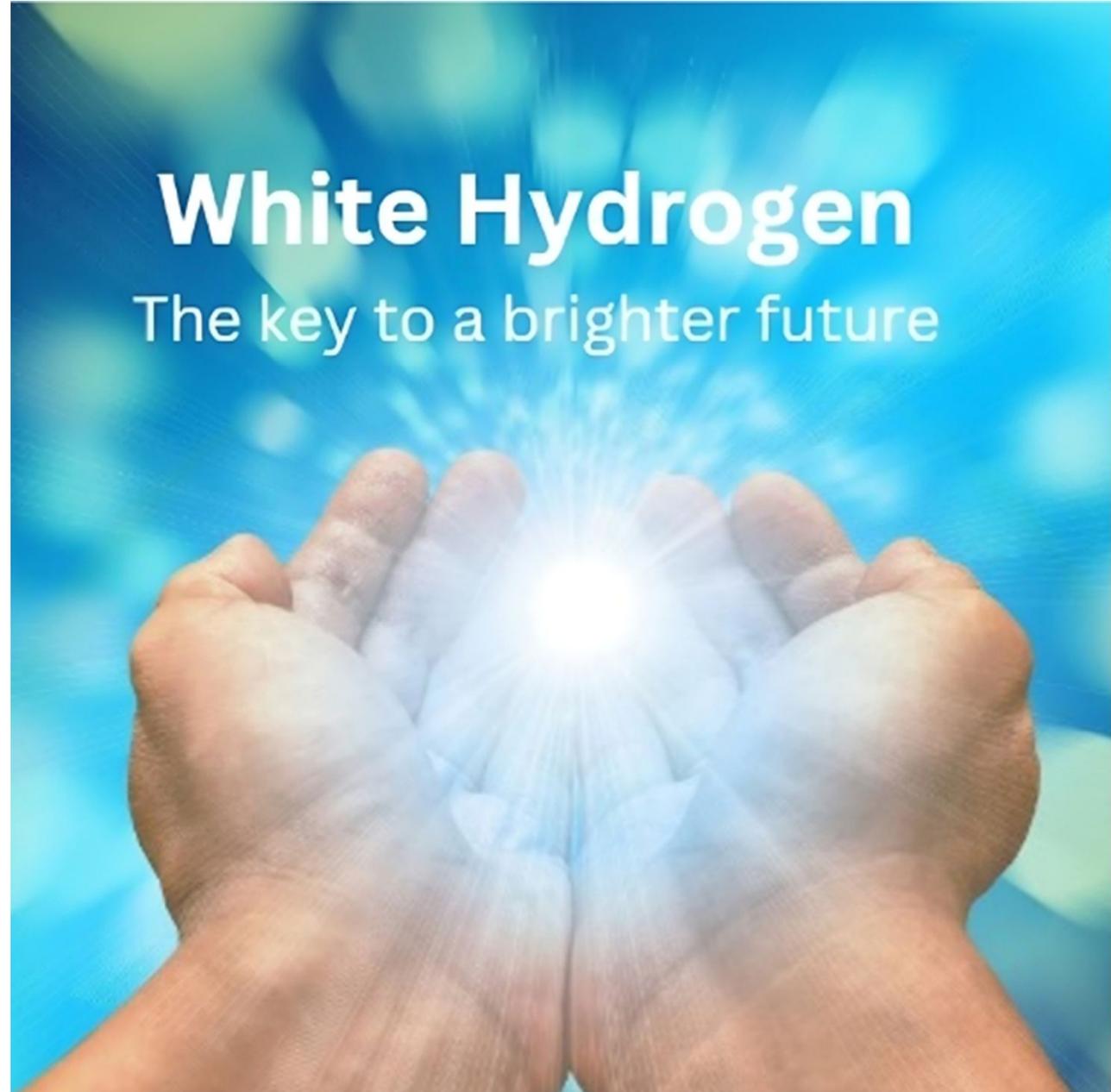
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