

Energy Renaissance Media Briefing

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Overview

Energy Renaissance, an Australian-owned company, is at the forefront of lithium-ion battery technology and manufacturing, underpinning Australia's clean energy transition. Their facility, Renaissance One, represents a significant stride in domestic battery manufacturing, aligning with the goal of bolstering the renewable energy sector and reducing reliance on raw material exports.

Key Highlights:

- Australia's first lithium-ion battery manufacturer with a state-of-the-art facility in the Hunter Region, NSW.
- Over 80% of components sourced locally, supporting the Australian economy.
- Developer of superStorage™ batteries, tailored for diverse applications, including residential, commercial, industrial, transport, and defence sectors.
- Collaboration with CSIRO has produced innovative, cybersecure battery management systems, positioning Energy Renaissance as a leader in safe and reliable energy storage solutions.

Background and development

Energy Renaissance's journey began in 2015, evolving over eight years to start battery production in 2021. The launch of Renaissance One, Australia's first battery Gigafactory in Tomago, NSW, marks a significant milestone in the company's history. This facility is not only a hub of advanced manufacturing but also a testament to Energy Renaissance's dedication to local employment and economic contribution.

The company's collaboration with CSIRO has yielded a cutting-edge technology platform, **superStorage™**, encapsulating proprietary hardware, software, and design integration, optimised for Australian conditions and hot climates.

Advanced Manufacturing and Economic Impact

The Renaissance One project is designed to enhance large-scale battery and cell manufacturing, creating a profound impact on the Australian economy. The facility:

- Has the potential to create up to 720 direct jobs;
- Contribute \$800 million to Australia's GDP;
- Generate \$60 million in recurring state taxes for NSW;
- Catalyse over 80,000 jobs in an Australian advanced manufacturing industry.

This development boosts national energy security and creates a new export stream, ensuring self-sufficiency and resilience in Australia's renewable energy sector.



Safety and Security of Energy Renaissance Batteries

Energy Renaissance collaborates with CSIRO and the Australian Defence Industries to ensure their products meet the highest safety standards. Innovations include:

- Multiple layers of safety protections that surpass commonly known imported batteries.
- Chemistry-agnostic prismatic cells for enhanced safety.
- Advanced thermal and acoustic management systems.
- Built-in recyclability to support sustainability efforts.
- Sophisticated, CSIRO-designed battery management systems for cybersecurity, safety and reliability.

Future Plans and Ambitions

Energy Renaissance is unique in its pursuit of a comprehensive 'mineral to manufacture and export' model in Australia. Working alongside partners such as CSIRO, Bosch Australia, and ATB Morton, the company aims to:

- Domestically manufacture every component of the Renaissance **superStorage™** battery system.
- Safeguard against global supply chain issues.
- Maximise Australia's natural resource advantage.
- Drive significant job creation and economic opportunities as the country transitions to renewable energy industries.

Energy Renaissance continues to demonstrate the potential of Australian innovation in renewable energy. The company's dedication to supporting diverse industries and advancing sustainable energy solutions positions it as a leader in shaping a secure and sustainable future for energy storage.

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