

Media Release

AUSTRALIA'S FIRST LITHIUM-ION GIGA-FACTORY ONE STEP CLOSER WITH THE COMPLETION OF AMGC BACKED PROJECT

- ***Australia's first lithium-ion battery manufacturing facility will soon begin operations following the successful completion of a pilot program backed by the Advanced Manufacturing Growth Centre (AMGC)***
- ***The Energy Renaissance (ER) pilot program developed and tested manufacturing processes, systems and plant design ahead of commissioning its full-scale manufacturing facility***
- ***Featuring 92 percent local content, ER's lithium-ion batteries have been designed for high temperature and humidity environments***
- ***Renaissance One to create over 700 Hunter Region jobs across a variety of professional, trade and skilled roles when in full operation, contributing \$97.5 million to the Australian economy***

Australia's first lithium-ion battery Giga-factory is a step closer to commencing operations with the successful completion of an AMGC co-invested program. Initiated to design, commission and operate a pilot lithium-ion battery manufacturing plant, dubbed Project 'Apollo', the pilot facility was designed to develop, test and document the technology, systems and processes and commence operations to supply to customers ahead of full-scale manufacture. The company currently operates at their 'Apollo' facility in Tomago producing up to 4MWh of batteries per month and serving customers across Australia.

Completion of the pilot program is a crucial step in ER's scale-up program before its moves into its custom-designed, 4,500-square-metre 'Renaissance One' manufacturing facility at Tomago, NSW. The facility will house over 700 employees and initially produce up to 300 Mega-watt hours of energy storage annually, scaling to 5.3 Gigawatt Hours, or 5.3 billion watts, of energy storage per year via its ground-breaking battery system.

Formed in 2015, ER will offer safe and affordable lithium-ion batteries, optimised for a low total cost of ownership in hot climates to satisfy rising domestic and export demand for grid-scale, lithium-ion battery storage systems. Leveraging local suppliers and supply chains, ER's aim is to offer products that are as close to 100 percent Australian content as possible, with the company already at 92 percent.

Brian Craighead, Development Director and Founder of Energy Renaissance said "just a few years ago we were told it wasn't possible to manufacture in Australia. Today, in the shadow of our soon-to-be-completed Renaissance One facility I can tell you that it is absolutely possible to manufacture in Australia,"

"With the support of organisations such as AMGC and our partners, we have been able to develop a world-leading lithium-ion battery for domestic and export use and soon, we hope to expand the impact of this

program to add value to Australia’s abundant raw materials by embarking on cell manufacture,” said Craighead.

Completion of the pilot-facility program follows on from an earlier [AMGC co-invested project](#) where ER and CSIRO first developed a proprietary battery system (‘superRack™ and superPack™’), which is a unique plug-and-play prismatic cell system. This is combined with the Renaissance BMS™ which is a CSIRO-developed cyber-secure battery management system comprising custom circuit boards, software, and wiring gives ER a competitive advantage in the global battery market.

Dr Jens Goennemann, Managing Director of AMGC said “Energy Renaissance is proof positive that Australia can be a world leader in the renewable energy industry. Energy Renaissance’s approach typifies how we should be seeking to move away from our reliance on raw commodities and tap into our abundant human, commodities and manufacturing prowess to transform it into complex goods for local and export markets,

“Energy Renaissance didn’t stop when they developed a battery for hot and humid climates, they embarked on commercialising the technology and we are pleased to have been there to assist them – they are a shining light for others to follow,” said Goennemann.

ER’s superStorage™ products will be the first lithium-ion battery energy storage system and battery management system committed to all Australian materials to be manufactured in Australia, with the company already supplying batteries to local customers for use in industrial and commercial applications. Its SuperStorage™ platform will monitor, benchmark and self-diagnose battery performance autonomously and efficiently, supported by human intervention to develop customer specifications and deliver customer service.

The collaborative project, worth \$1.47 million, was supported through a \$525,072 co-investment administered by AMGC and matched by Energy Renaissance, with project partners contributing a further \$427,681. Project participants include CSIRO, ATB Morton and Maccor. Energy Renaissance forecast \$95.7M in revenue directly related to this project (excluding the larger Renaissance One facility) over the next 5 years

For further information on the AMGC-supported project visit - <https://www.amgc.org.au/project/pilot-lithium-ion-battery-manufacturing-plant/>

Video download available here - <https://we.tl/t-lvTiFkTDFS>

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About Advanced Manufacturing Growth Centre (AMGC)

The Advanced Manufacturing Growth Centre (AMGC) is an industry-led, not-for-profit organisation established through the Australian Government’s Industry Growth Centres Initiative. AMGC’s vision is to transform Australian manufacturing to become an internationally competitive, dynamic and thriving industry with advanced capabilities and skills at its core.

Through the delivery of its world-leading research, Manufacturing Academy, workshops, and ground-breaking projects, AMGC aims to develop a highly skilled and resilient local manufacturing industry that delivers high-value products – via the integration of innovative technology – to domestic and international markets. <http://www.amgc.org.au>

About Energy Renaissance

Energy Renaissance was founded in 2015 by a unique and experienced team of individuals and partners out of a passion to change the face of manufacturing and renewables in Australia to power a sustainable future.

We design, build and sell lithium-ion batteries that are safe, affordable, optimised for hot climates and deliver a positive environmental and economic impact. Our first Gigafactory in Tomago, NSW ('Renaissance One') manufactures, sells and supports high-performance lithium-ion batteries with several distinct advantages.

- Optimum safety
- Unlimited scalability
- Manufactured in Australia for shorter delivery times and faster service and support
- Uniquely optimised for improved performance in warm climates
- Low cost and high performance

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