



Manildra Group Managing Director John Honan and Chairman Dick Honan // PHOTO: TAYLAH HUDSON

NOWRA WEST TEAM KEY TO CLOSING LOOP IN ZERO-WASTE PRODUCTION

As the world's leading producer of vital wheat gluten and starches, Shoalhaven Starches' Operations Nowra West team work round-the-clock in our largest sector onsite.

With constant monitoring to maintain the pristine condition of our world-class gluten and starch dryers, the highest quality standards are paramount for nine operators and supervisors who work four shifts to separate gluten and starch in flour milling from stillage for fermenting. These are all key components in our sustainably integrated, circular production processes of value-adding to 100 per cent of the wheat grain.

Showcasing our zero-waste approach to advanced Australian manufacturing with world-leading

technology, the diversity of Operations Nowra West's three plant sections also presented individual intricacies to master, said Shoalhaven Starches Plant Supervisor David Stokes.

"Growing up on the south coast, we're extremely fortunate to have such diverse employment opportunities close to home," said Mr Stokes of the continuous expansion sitewide to quadruple flour production during his two decades at Shoalhaven Starches.

"With so many families directly and indirectly supported by Manildra Group, it gives me great confidence for future generations to enjoy our beautiful Shoalhaven region."

The Nowra West Team Green Shift includes (from left) Guy Zerbst, Production Supervisor David Stokes, Shane Button, Production Manager Ennio Coslovich, Paul Cummings, Peter Cockley, Supervisor Kevin Apps and Paul Little // PHOTO: MANILDRA GROUP



WELCOME

Family has remained at the heart of Manildra Group through our company's seven-decade history to cement our position as a world-leading advanced manufacturer.

To steer sustainable growth at Shoalhaven Starches, a capital works program set for completion next year represents the single-largest investment in Manildra Group's history.

Our Australian-made products' impeccable consistency and exceptional quality has won our worldwide customers' long-term trust.

Manildra Group's shared success hinges on our nation's sustainably diversified advanced manufacturing industry.

Underpinning our continuous reinvestment in innovative capabilities for the future of Australian-grown and made, we remain committed to our local partnerships for a thriving Bomaderry community.

To this end, we work hand-in-glove with regional industries, communities, and our hard-working people – including more than 420 onsite at Shoalhaven Starches and generations of farming families.

Because together, we grow.

John Honan, Manildra Group Managing Director



Overseeing construction of the Cogeneration Plant to secure Shoalhaven Starches' low-carbon energy source and eliminate coal from the supply chain, are Site Manager Tertius Jones and Engineering Manager Paul Whisson // PHOTO: PETER IZZARD



Manildra Group's world-class Shoalhaven Starches site produces high-quality wheat starches crucial in the manufacturing of pulp, paper and packaging products // PHOTO: HILL TO AIR



Shoalhaven City Council Mayor Amanda Findley gets set with Santa to gift toys to local children at Christmas, from community donations and Manildra Group funding for the festive appeal // PHOTO COURTESY: SHOALHAVEN CITY COUNCIL

COAL-CANCELLING COGENERATION REDUCES EMISSIONS FOR FUTURE SUSTAINABILITY

Future-proofing our manufacturing capabilities whilst reducing greenhouse gas emissions by up to 40 per cent, Shoalhaven Starches will eliminate coal from the supply chain to source all our energy through an advanced natural gas-fired, steam-cogeneration process.

Involving more than 170 construction jobs on the \$190 million project in the past year, completion of the 60-megawatt Cogeneration Plant has replaced coal-fired boilers to significantly cut greenhouse gas emissions, said Shoalhaven Starches Site Manager Tertius Jones.

"This paves the way for further diversification and expansion of our premium wheat-based products through ongoing innovation in our closed-loop, zero-waste approach to manufacturing," he said.

The industry-leading energy infrastructure includes a natural gas pipeline and two turbines generating power, while waste heat from exhaust gas is repurposed via a heat recovery steam generator.

STATE-OF-THE-ART TECHNOLOGY TO SET PAPER AND PULP STARCH BENCHMARK

To tailor high-performance modified starches to modern-day paper and pulp machinery specifications, an advanced paper-testing laboratory and state-of-the-art cationic starch plant is being built at Shoalhaven Starches – set for completion in 2024.

Manildra Group General Manager Peter Simpson said the complex process of papermaking relied heavily on stable inputs – as guaranteed by Shoalhaven Starches' consistency in Australian-grown and made quality – for manufacturing to our customers' specifications.

Since 1960, Shoalhaven Starches has provided a steady local supply of wheat starches as a crucial wet-end additive for manufacturing packaging, board, printing, and copy papers, to enhance internal strength and surface, printing, binding, and coating features.

Continuous diversification and expansion have increased our production and range of native, modified, and cationic wheat starches for applications beyond paper and pulp, into the construction, mining, and food industries.

SUPPORT FOR ALL CHILDREN TO SHARE IN SPIRIT OF GIVING

The annual Shoalhaven Mayor's Giving Box appeal will benefit from a \$10,000 donation by Manildra Group, to provide Christmas gifts for less-fortunate Shoalhaven pre-schoolers over the 2023 and 2024 festive seasons.

Shoalhaven City Council Mayor Amanda Findley welcomed the funding from Manildra Group on behalf of the team at Shoalhaven Starches to buy even more gifts to add to the community donations.

"This incredibly generous donation from Manildra Group is a welcome boost to the Giving Box appeal that helps to bring joy to children and families who may be doing it tough at Christmas," Mayor Findley said.

Acknowledging the special opportunity to be part of the Shoalhaven community sharing in seasonal festivities, Manildra Group Director Caroline Honan said children brought the Christmas spirit of giving to life.

STAY CONNECTED

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If you have any questions or comments about our projects, contact Shoalhaven Starches on 02 4423 8200 or Nowra.Reception@manildra.com.au

More information on Shoalhaven Starches project approvals can be found at the NSW Department of Planning and Environment website mpweb.planningportal.nsw.gov.au/major-projects



A Manildra Group train carrying our high-quality Australian flour, departs Manildra Flour Mill in central west New South Wales // PHOTO: CHRIS WATSON



Shoalhaven Starches Rail Coordinator Nathan Squires and Weighbridge Coordinator Andrew Bath oversee the construction of new rail lines that make up part of the new Shoalhaven Starches Container Handling Facility // PHOTO: PETER IZZARD



(from left) Shoalhaven Starches Compliance Manager John Studdert, Nowra Rotary Club Member Arthur Moorhouse, Shoalhaven Starches Environment and Sustainability Leader Gavin Dostal, Nowra Rotary Club President Trace Dann, and Shoalhaven Starches Capital Engineering Manager Aaron Ticehurst at the Bomaderry Bowling Club // PHOTO: MANILDRA GROUP



Manildra Group uses the highest quality Australian-grown GMO-free wheat to produce its world-class range of food and industrial products

SHOALHAVEN STARCHES

COMMUNITY REPORT EDITION 12

SPRING 2023

ON-TRACK FOR SUSTAINABLE GROWTH

Keeping on-track for sustainable growth through innovation, Manildra Group has invested in state-of-the-art rolling stock to deliver premium wheat from local farms to our flour mills, and our value-adding end-products on to customers nationally and worldwide.

Fitted with the latest technology, 17 new locomotives and 360 wagons for grain, flour and containers will augment our existing fleet on rail lines connecting Manildra Group's New South Wales sites and Port Botany.

Manildra Group Head of Transport Mark Owens said prototypes set to arrive in early-2024 would be trialled for full operation by the year's end.

Supporting more than 50 people working across our rail division through greater efficiencies and flexibility within Manildra Group's transport network, the investment in rail shifting freight off roads in turn improves safety and reduces carbon emissions.

CONTAINER HANDLING FACILITY TO STREAMLINE LOCAL DEPARTURES

All set to accommodate about 700 shipping containers going global, construction of Shoalhaven Starches' Container Handling Facility is close to completion.

With construction of an 11-metre noise wall underway, ample staging space is provided alongside two new 250-metre rail lines, where a 32-tonne Reachstacker forklift will load our 20-tonne containers onto wagons bound for Port Botany.

Shoalhaven Starches Weighbridge Coordinator Andrew Bath said at full capacity, up to 100 containers a day departed Bomaderry by rail and road shipping Manildra Group's all-Australian premium staples and speciality products to more than 28 countries across every continent.

The export container terminal is located north of Bolong Road alongside our state-of-the-art packing hub – which features pneumatic transfer pipes to seamlessly bridge the manufacturing and packing operations – set for commencement later this year.

BUILDING A STRONGER COMMUNITY

Supporting a strong and vibrant Shoalhaven community since our establishment of Shoalhaven Starches in 1960, Manildra Group continuously reinvests back into our local community to enhance the environment in which we work and live.

From public schools to the Nowra Rotary Club, local voices on projects of impact or interest, are fundamental to our everyday and long-term operations.

Expanding our community engagement on-the-ground, Environment and Sustainability Leader Gavin Dostal showcases all we do and make in our sustainably circular, advanced manufacturing processes at the world-class Shoalhaven Starches site.

"Local views are important and have a significant impact on how we do business and what sustainability looks like for us into the future," said Mr Dostal.

If your community organisation or school wants to learn more about our zero-waste approach at Shoalhaven Starches, contact nowra.reception@manildra.com.au or phone 02 4423 8200.

GRAIN BUNKER PROJECT SECURES ALL-AUSSIE SUPPLY

Set for operation by February 2024 on our Environmental Farm, the temporary grain storage bunker project will secure a sustainable supply of 100 per cent Australian grown wheat for Shoalhaven Starches.

The Temporary Emergency Grain Storage Bunker (MOD28) project was approved by the New South Wales Department of Planning and Environment in June 2023.

For a short period of time, there will be minor local road impacts from daytime grain truck deliveries, with full compliance to noise impact assessments.

"The storage bunker guarantees round-the-clock grain supply for the site in the case of rail access disruptions due to infrastructure upgrades, maintenance or other impacts", said Shoalhaven Starches Site Manager Tertius Jones.

More details on this project can be found at planningportal.nsw.gov.au/major-projects/projects/shoalhaven-starches-expansion