



Community Support Program

Since 2010, our Community Support Program has provided more than \$1.5 million dollars via local initiatives and programs in the areas surrounding our operations and the communities in which our employees live.

"We are proud to be here supporting our community" said CEO Aaron Johansen

"Yes, we do provide funding but it's really the volunteers and their time that makes the community what it is"

MARCH 2018 RECIPIENTS

- Community Helping Community
- Easts Rugby Club
- Edgeworth FC-Arnett's Program
- Families Supporting Families
- Hunter Life Education
- Jenny's Place
- Lifeline
- Lions Club of Jesmond
- Newcastle National Park Croquet Club
- Newcastle Youth Orchestra
- Society of Artists
- South Newcastle Junior Girls Hockey Club
- St Josephs Primary School Dungog
- Stockton Men's Bowling Club
- Stockton Junior Rugby League Club
- Stockton Northern Districts Cricket Club
- Stockton Public School Parents and Citizens' Association
- Stockton Tennis Club
- Surfing Newcastle
- Technical Aid to the Disabled (TAD)
- The Cove Men's Shed Inc
- Thornton Junior Football Club
- UoN Japanese-English Club
- Variety the Children's Charity NSW
- West Wallsend Senior Football Club
- Zara's House



NCIG Environmental Initiative Voted World Class

NCIG has been named as one of a select number of recipients from around the world in the 2018 PIANC Working with Nature Awards for their work in restoring wetland habitat on Ash Island.



PIANC – The World Association for Waterborne Transport Infrastructure – is an organisation of professionals from around the world who have joined forces to provide expert advice on cost-effective, reliable and sustainable infrastructure relating to waterborne transport.

The PIANC 'Working with Nature' Awards are announced every four years and aim to acknowledge initiatives which promote a proactive, integrated approach to sustainable infrastructure projects. NCIG was awarded a Working with Nature Certificate of Recognition at a ceremony in Panama City in mid-May.

This is the first recognition to be received by an Australian project since the establishment of the award in 2014.

NCIG has been working with National Parks and Wildlife Services, the University of New South Wales, the Hunter Bird Observers Club and other environmental groups and government departments for over 18 months to re-establish the endangered coastal saltmarsh ecological community.

The tidal wetlands around the Port of Newcastle are home to a number of threatened species and communities. The coastal saltmarsh vegetation community and numerous species of migratory shorebirds, such as the critically endangered Eastern Curlew and Curlew Sandpiper, are increasingly losing habitat along the Australasian-East Asian Flyway.

NCIG created habitat for migratory shorebirds in an area close to the terminal site, specifically Ash Island in the Hunter Wetlands National Park. The construction of habitat on Ash Island included the restoration of 24 hectares of migratory shorebird habitat. This included:

- The removal of 17 hectares of mangroves.
- Installation of an automated flood gate that manages tides to facilitate saltmarsh growth and prevent the re-establishment of mangroves in the habitat.
- Installation of mangrove seed screens named "Mangrove Propagule Exclusion Devices" to prevent mangrove seeds from re-entering the habitat.
- Installation of "bird diverters" on local electricity infrastructure to make power lines more visible to birds flying in and out of the habitat.

NCIG's CEO, Aaron Johansen, said the certificate is testament to NCIG's commitment to the environment and the local Hunter Estuary wetlands.

"The migratory shorebird habitat restoration project is unique, in its type and scale of any conducted within Australia"

"NCIG has been very committed to delivering sustainable environmental outcomes through this project and are very excited to have been recognised for this in an international forum"

"It's an illustration that the process adopted through integrating stakeholder engagement, cutting edge research and sound environmental practices can achieve tangible outcomes which are considered worlds best practice. The great beneficiary of this project however is local wetland communities and the vulnerable and endangered migratory shorebird species which rely on them" Mr Johansen concluded.



New Community Partners Welcomed at Afternoon Tea

The first round of our Community Support Program funding in 2018 saw record numbers of applications submitted from many worthwhile not-for-profit organisations and initiatives across the Hunter region.

26 successful applicants were announced at the end of April, who were all welcomed at an Afternoon Tea held at NCIG on the 2nd May. Representatives from sporting groups, educational programs, health initiatives and community focused events were all in attendance along with NCIG executives and employees.

NCIG paid tribute to the work of these wonderful organisations, while the afternoon tea gave an opportunity for the community representatives to get to know one another, and to look for any opportunities to work with one another in the future.

"Getting to know each other and the benefit each group brings to the community is such an important part of our Community Support Program" said CEO Aaron Johansen.

Mr Johansen recognised the time and effort that our recipient's contribute to their charity or community group while highlighting the importance of bringing them all together to create a wider support network for them to lean on.

David Jones from the Cove Men's Shed said that funding like this is vital for most groups within the community and that the benefits go far beyond themselves and flows onto others in the local area.

"The support that NCIG provides to causes such as ours is invaluable and we would not be able to provide the assistance that we do without the Community Support Program" said Mr Jones.

"We began in 2015, and since then we have been carrying out community and environmental restoration work in the local area and we thank NCIG for providing organisations such as ours the opportunity to continue to do so via their Community Support Program."

Since its inception in 2010, the NCIG Community Support Program has assisted close to 250 not-for-profit and community groups.

ENQUIRIES REPORTING

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COAL EXPORT TERMINAL
KOORAGANG ISLAND
NEW SOUTH WALES



COMMUNITY
NEWSLETTER

AUTUMN 2018

CEO Message



Welcome to the Autumn edition of our local community newsletter. We love what we do at NCIG and I am delighted to be part of a local business that gets involved in the community around it. Our business provides critical port infrastructure services to enable coal exports to our neighbours in Japan, South Korea, Taiwan, China and other Asian countries. We are proud to be part of the supply of energy which is essential to the development of these countries.

The coal industry is at times criticised in the climate change debate, but most people will not be aware of just how much our local mining industry contributes to the local economy. According to NSW Mining, local mining companies directly injected \$4.5 billion into the Hunter economy in the 2016/17 year, with nearly \$1.1 billion of that spent in the Newcastle local government area. In Newcastle, this included nearly \$200 million in wages to over 1600 full time employees and nearly \$900 million spent on 745 local businesses.

At NCIG we spend around \$80 million each year with the vast majority consumed locally through employee wages, suppliers and contractors. Our operations are on track this financial year to equal last year's record throughput of over 54 million tonnes, which equates to over \$5 billion in export revenue for New South Wales.

Newcastle can be proud of its role in enabling the largest export industry for New South Wales, an industry which plays a vital role in helping Asian economies grow. This in turn provides growing market opportunities for many other Australian goods and services in the mining, tourism, education, farming and financial sectors. The future of our economy really does rely on how well we tap into this large and growing market.

We feel a strong association with the local communities we live and work in, and are therefore committed to working with community groups to deliver real benefits. We have partnered with 37 different community groups over the last year, providing help and support for so many great initiatives. In April this year we assisted a number of Stockton sporting clubs such as the tennis club, junior rugby league club, mens bowling club, and Northern Districts cricket club. Each one of these clubs are undertaking great initiatives for their members. We have teamed up with Surfing Newcastle to help stage their 2018 Junior Regional Titles in May. We are partnering with Variety who are putting on a Spin bike challenge to raise money for kids in need, and we are helping Zara's House refugee women's centre with their Mother Language Literacy Program for young refugee women. We are also supporting a great number of other groups who are doing such a great job in the community across sport, art, mental health, music, disability and education. It really is the volunteers for these community organisations that make our community what it is.

We are also proud to be the first ever Australian recipient of a 'Working with Nature' award from PIANC, the World Association for Waterborne Transport Infrastructure. This is a significant recognition, received for our work in restoring wetland habitat on Ash Island for Australia's most threatened shorebird species.

I hope you enjoy reading our newsletter. We care about your views so please let us know if you would like to know more about our operation or community activities.

Aaron Johansen | CEO

NCIG Future in Bright Hands

Australia's working population is getting older. Today, one in four people is over the age of 55 and within a decade, this will increase to one in three*.

Employees who are in the later stages of their careers often hold a wealth of knowledge and experience that many of their younger counterparts may not have accumulated yet. That's why NCIG is committed to fast-tracking the growth and development of our future generation of leaders.

HR Manager Casey Samuels said it is important to NCIG to foster the young minds and ambitions of their younger workforce.

"Retention of our younger workforce is very important to NCIG. Their growth and development is ultimately what will keep us going well into the future."

"We place emphasis on knowledge sharing – placing one of our younger team members with a more experienced staff member so that a transfer of skills and knowledge can occur," Ms Samuels said.

One of NCIG's future leaders is Apprentice Electrician, Michael Owen. Micheal is currently studying Electrotechnology at TAFE and enjoys the training he receives both on and off the job.

"I find the one-on-one training I receive here at NCIG to be the most effective and interesting. You can gain an understanding of how things function and why some of the more senior staff do what they do. It's great to be able to put their knowledge into practise."

NCIG Environmental Officer – Vacation Student, Hayley Ardagh, recently graduated from Newcastle University having studied a Bachelor of Science (Sustainable Resource Management and Marine Science). She said she appreciates the opportunity NCIG have given her to apply her skills and knowledge into practise.

"NCIG has given me the opportunity to obtain practical experience in environmental management and expand on the skills I acquired from my time at university. I have also had the opportunity to work alongside and collaborate with an amazing Environmental team here at NCIG and professionals in many different fields in the environmental industry including leading researchers from UoN and UNSW."

When asked where they see themselves in ten years' time, both Michael and Hayley agree that growing with a company like NCIG would be the ultimate.

"I'd like to think that in ten years' time I'll still be here at NCIG, perhaps teaching the next generation all the skills and knowledge which has been passed on to me," Michael concluded.

**THE CHALLENGE AND OPPORTUNITY OF AN AGEING WORKFORCE,
By Professor Peter Gahan and Dr Joshua Healy, University of Melbourne*



Damon Richards, Hayley Ardagh, Ellie Carroll & Michael Owen

Plastic Police Program

The Plastic Police® Program (PPP) was established in 2014 by local businesswoman Samantha Cross, founder of Cross Connections Consulting to assist businesses and government organisations find value in waste and progress circular economy opportunities.

PPP is an innovative micro circular economy model that brings together schools, businesses, councils and other stakeholders to reduce soft plastics ending up in landfill or as litter, and turn them into new products, for example benches and garden beds.

The program's collaborative, circular approach differentiates it from any existing conventional waste collection, recycling or in store drop-off service and NCIG began rolling out the PPP at Christmas, with a three month engagement program.

NCIG employees and contractors were encouraged to be part of the program by bringing soft plastic items to work, which combined with recycling of onsite products.

Record Ship Loaded in April

In April NCIG loaded its largest ship since we began loading in 2010. The ship is called the Cape Rainbow and at 300m long and 50m wide it is amongst the largest ships to visit the port of Newcastle. By comparison the Titanic was 269m long and 28m wide. Even the largest cruise ship to visit Newcastle, the Radiance of the Sea is 293m long and 32m wide. The Cape Rainbow was built in 2012 and is registered in Panama and has previously visited Newcastle three times.

Despite the enormous size of the ship (it's not a boat, boats go on trailers) it has to be loaded very carefully so as not to bend the ship. The best way to explain this is to use the analogy of a swimming pool lilo. What happens when you step on your lilo in the water suddenly? You capsize and end up in the water, usually amusing your friends and any observers.

In shipping, the process of carefully adding cargo is called a load plan. The ship's master tells us the exact sequence he would like us to put the coal on board the ship. The Cape Rainbow has nine massive hatches and the load plan will see us loading an average of 9000 tonne in each pour, meaning that we visit each hatch at least twice. In total 164,844 tonnes were loaded on the Cape Rainbow.

The loading process from start to end takes over 24 hours to complete, requiring several co-ordinated shifts of technicians. Whilst NCIG are loading the ship, the crew have a large number of important ship-based duties to attend to, from making sure the ropes are tight, and that the dewatering pumps are working as planned.

Ship loading is a delicate balance and is a busy time for keeping the ship to remain in "trim" which is a seafaring word for "up at the front a bit, down at the back a bit, and not too saggy in the middle". It's not just the cargo weighing down the ship, it's also the ballast water the ship has on board. The measure of how much the ship sits below the waterline is called the draft.

The ship carries water in special tanks spread around in various places to make it behave well at sea. Too much water and it sits low in the water and burns too much fuel. Not enough water and it sits high and could bob around like a cork on the sea. But when it is in the harbour the water isn't needed and the ship

NCIG employees and contractors also put forward suggestions for future recycled items.

NCIG held a BBQ with employees and contractors at the end of March with prizes handed out for best recycling selfie, best home recycling success story and best ideas for application of recycled hard plastic (made from soft plastics) onsite.

The winners were:

- New sampling bags
- Waste skip enclosure
- Bucket wheel pallets
- Compensatory Habitat boardwalk



NCIG Environmental Advisor Philip Reid reported that "to date, our employees and contractors have achieved soft plastic weigh-ins of 53 kg in January, 40kg in February and a whopping 60 kg in March. The PPP, in addition to terrific environmental benefits, has already demonstrated its advantages as a positive team-building experience and we're all really excited to see how much plastic we can recycle over the course of the year".



pumps it out as quickly as it can. Mind you, this is water collected from just off the Newcastle coast, and not water taken from foreign ports which could introduce exotic or invasive critters that may threaten local aquatic species.

It's an unusual fact that the rate of loading the ship is often determined by how quickly the water can be pumped out, not how quickly we can pour coal into the voids. Again, it's all a delicate balance. As the coal goes into the ship, water comes out. The ship can't sit too low as it may end up resting on the bottom of the river. If it goes too high it may bump into our ship loader. The crew are rostered to monitor these activities.

They carefully watch the draft, and we all watch the tides. A big ship like the Cape Rainbow needs to sail out of the harbour during the period around the high tide when the water rushing into the harbour starts to slow down and swirl and the slowly starts to fade out again. We call this period slack water. If you see a really big ship leaving the harbour - it's a strong bet that it is very close to high tide.

The Cape Rainbow visits Newcastle regularly. Keep an eye out for it and others like it and be sure to share this story with the next generation. Inspire them. The science of shipping needs many skills and teamwork.

NCIG are very proud to carry on the Newcastle tradition of coal loading.

New ideas and technology will come along and continue to make the impossible seem real and it is our hope that we inspire those young minds to add to the Newcastle story and tell the next story of the harbour, whatever that may be.