

# The Micron

AUGUST 2024



The staff newsletter of AJ Engineering and NEWCo

## KEY ROLE IN CLEAN ENERGY PROJECT



**AJ Engineering has played a key role in the development of a 100kW wave energy device which has been in operation at the South Harbour, Port of Aberdeen.**

Aberdeen-based ZOEX Power working alongside Sealand Projects secured funding from the Seafood Innovation Fund, managed by Cefas for Defra, to develop and build the ZOEX wave energy converter (WEC).

The device can be mounted on feed barges to replace CO<sub>2</sub>-emitting diesel generators, providing a clean energy source. It can also be installed in breakwaters, harbours, and offshore wind turbines.

According to ZOEX, it can revolutionize wave energy harnessing in small sea-states, offering cost-effective clean energy for off-grid locations.

AJ Engineering's role was to fabricate the steel-structure arm and grillage as Kevin Smith, project manager explained: "We worked on this project for around two months and it involved our teams at Waterford, Greshop and the CNC Shop.

"We fabricated the ZOEX body assembly which supports the wave energy device and also the arm assembly which supports the floats. For the trial at the quayside we also had to fabricate a grillage to support the ZOEX assembly for the trial period."

Kevin added: "Everything was assembled at our Waterford facility and was then installed at the quayside for the two-week trial. It was a very interesting renewables project with a tight schedule to work to. It was good to have a project where the end product manufactured was net zero related which aligns with the goals that AJE also have."

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## AJE'S GREEN LIGHT TO CARTY RACES



Carty Race co-ordinator Jack Lowes

**Fun loving folk are being encouraged to take part in Forres' very own answer to the wacky races as part of an event to celebrate Grant Park being gifted to the town 100 years ago.**

And the attraction has been organised and sponsored by AJ Engineering.

Teams are being invited to make their own soapbox carties which will then be raced in Grant Park on Saturday, August 24.

The GP100 Soapbox Carty Race has been co-ordinated by Project Engineer Jack Lowes.

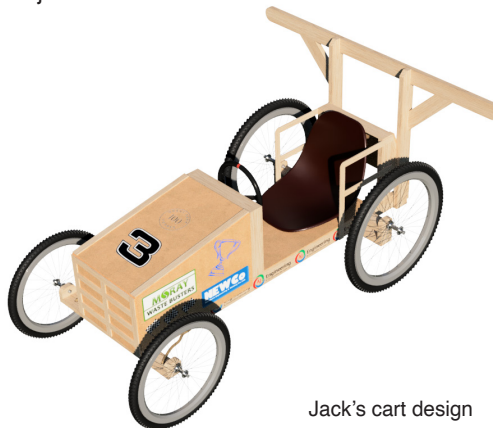
He said: "It has been great fun coming up with the concept and I am delighted that AJ Engineering is involved.

"This is a competition that is open to anyone aged 12 and above. It's a fantastic opportunity for school friends to get together, work mates, local clubs or even families to create something really fun. There can be as many people as you like

involved in the design and construction of the cart, but only three people, one driver and a maximum of two pushers, can participate on the day."

Other stipulations are that the cart can only be powered by non-driver team members physically pushing the cart around the track. No cart with any other form of thrust will be accepted. It must be capable of being steered and have a minimum of four wheels. The main frame of the cart must be wooden. A design example is shown in the competition details available on the website [GrantPark100.com](http://GrantPark100.com).

Jack who has a first-class degree in Design & Manufacturing from Robert Gordon University added: "To anyone taking part, my advice would be to keep them as lightweight as possible and to avoid material that may ruin in windy or wet conditions. We'd also advise teams to reach out to local companies for sponsorship and for naming on the carty just like Formula 1.



Jack's cart design

## THANK YOU FROM BOYS' BRIGADE

**AJE has received a thank you letter and some great photos after helping to send some youngsters from the 2nd Forres Boys' Brigade to the Trooping of the Colour in London.**

In May, six youngsters cleaned a fleet of vans at the Greshop HQ in exchange for a £500 donation towards the trip.

In the letter, which was signed by each of the boys, Graeme Ferguson, Moray Battalion president and captain of the brigade wrote: "Through your generosity and kindness we have now returned from

Some of the Boys' Brigade members attending the Trooping of the Colour in London



London having had a hugely enjoyable trip. This was a very special occasion for each of us. We want to express our gratitude to you for the contribution you made to enable us to attend this prestigious event and to say how much this meant to us all."



## New look building for key supplier

One of AJE's specialist cladding team's has embarked on a four-month project to replace the rails, purlins, roof and wall cladding on the building of a supplier we have a close relationship with.

The main factory building at Highland Galvanizers and Colour Coaters, in Elgin, will have its existing wall cladding replaced with specially coated GRP panels suited to the harsh environment of the factory and the roof will have new Composite Insulates panels installed. Both the walls and the roof will have opaque panels in their build up allowing natural light to flood the main building. Whilst, removing the existing cladding, the team will replace the side rails and roof purlin with new cold rolled sections that have been powder coated at Highland Galvanizers specialist facility in Cumbernauld giving longevity to the components in this particularly harsh environment.

Leading on the project is Allan Martin who said: "This project got underway at the end of July and we expect to be there with a team for approximately 16 weeks. We have a very close relationship with Highland Galvanizers who are a key supplier for us. They will remain open and to a degree it is business as usual, although our teams will be operating throughout the day and the galvanizers will be working through the night to keep their operations going."

The main factory building at Highland Galvanizers in Elgin



## New cladding project

**AJ Engineering has been awarded a new cladding project at the Dounreay Nuclear Facility.**

The project will involve stripping the existing glazing and steel side rails from an elevation 16m wide x 32m high and then installing new steel side rails and steel composite cladding. It is expected that the project which is now underway will run until December 2024.