



**Solar panels help
to meet green targets**
Full story & pictures on pages 3–4

Peterhead

PORT AUTHORITY

Newsletter

ISSUE 03

March 2020

New drive for net zero carbon

Featuring

- Page 1–2 **New drive for
net zero carbon**
- Page 3–4 **Port adopts green targets**
- Page 4–5 **Warehouse efficiency
drive pays off for ASCO**
- Page 6–7 **Fish turnover tops
£200m again**
- Page 8 **Absafe visit**

Peterhead Port Authority is closely involved in a project to drive forward the capture and storage of carbon dioxide from major industrial emitters.

It is a founder member of the North-East Carbon Capture, Usage and Storage Alliance (NECCUS), a network of industry, government and academia created last year to help Scotland and the UK reach net zero carbon.

NECCUS will support the scaling up of the Acorn project based at the St Fergus gas terminal, which will exploit existing oil and gas infrastructure to take captured carbon dioxide and store it in rock formations deep under the North Sea.

continued on page 2



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Mike Smith, chief executive of NECCUS, says: "There are very clear opportunities, not only to capture carbon and store it offshore but to produce hydrogen as a clean fuel.

"The ultimate aim is to get industry to net zero by 2045. For that to happen, things are going to have to move forward quickly, principally the capture, transportation and storage of carbon long term from big emission points.

"Around 10 million tonnes a year come from industrial sources, and two areas, Grangemouth and around Peterhead and St Fergus, account for about half of that.

"This is not a technology problem. People have been capturing carbon for quite some time. The challenge is doing so efficiently and at large scale.

"The task is to create a value chain, to put economics into this. How do we get industrial emitters to capture and ship carbon to Peterhead, where it can be transferred to St Fergus and on to the North Sea basin? What does the tanker infrastructure look like, how do we ensure harmony?"

Mr Smith adds that urgency is required from government to create the regulatory framework and necessary fiscal mechanisms to incentivise change.

A spokeswoman for the Acorn project described it as an important catalyst for clean growth in the north east of the UK and beyond:

- **A major hydrogen and CCS hub at St Fergus**
- **An economic opportunity for the deep-water port at Peterhead**
- **A repurposed onshore pipeline to deal with Scotland's Central Belt emissions**
- **An international CO₂ storage hub in the Central North Sea that unlocks CO₂ transportation and storage solutions for other UK carbon capture utilisation and storage (CCUS) clusters.**

"Through Acorn CCS, Scotland and the east coast of the UK can drive maximum environmental benefits from legacy oil and gas assets. With the continued support of governments and industry, the first phase of Acorn CCS could be operating in 2024."

Besides Peterhead Port Authority, NECCUS' industry partners are: Pale Blue Dot, Shell, Total, SGN, Chrysaor and Petrolneos.

acorn: Overview

Pale Blue Dot Energy Limited ©



Phase 1: Establishing the CCS infrastructure



Low capital cost start

Around 340,000 tonnes per year of existing CO₂ from the St Fergus gas terminal.



Pipeline reuse

More than £750 million cost savings from reuse of high capacity on and offshore pipelines.



World class CO₂ stores

Two large, well understood CO₂ stores with plenty room for growth.

Phase 2: A catalyst for clean growth



A major hydrogen production and CCS hub at St Fergus.



An economic opportunity for the deep-water port at Peterhead to include CO₂ import facilities.



A repurposed onshore pipeline to deal with Scotland's major industrial emissions.



An international CO₂ storage hub in the Central North Sea.

"CCS is a necessity, not an option."
Committee on Climate Change, May 2019



Above: On-board bins, black for general waste and blue for recycling

Port adopts green targets

The Port Authority has embarked upon a major drive to reduce its carbon footprint and highlight its existing green commitments.

When the new Peterhead Fish Market was completed in 2018, it was equipped with 270 solar panels to provide electricity for chilling and lighting, saving over 96,000 kWh of usage annually, or 50 tonnes of CO₂ equivalent.

Surplus energy within the building is recycled to heat the offices and welfare rooms and time/motion control lighting is used to limit electricity consumption.





Above: Tracking the Ugie Beach clean-up.

These existing measures will be augmented by a new plan, to be carried out in conjunction with Zero Waste Scotland, to reduce the market's water usage and the amount of effluent.

The target is to reduce these by 18% in 2020, from 27,000m³ to 22,000m³ and from 5,600m³ to 4,600m³ respectively.

With the introduction of new LED lightbulbs, it is also hoped to reduce electricity usage by a further 8,000 kWh.

Away from the fish market, the Port Authority facilitates the Fishing for Litter scheme which removes litter from the oceans.

It also sponsored local beach cleans by the East Grampian Coastal Partnership, to remove litter and plastics.

The Port Authority has further conducted a pilot litter recycling scheme with several vessels. It is hoped that in 2020 this will be fully implemented to reduce waste to landfill by 50%.

In addition, the Port supports the cycle to work scheme which encourages staff to leave their car at home and take their bike to work, reducing fossil fuel emissions and promoting a healthier lifestyle.



Adam Ritchie, ASCO Shipping and Warehousing Manager.
Right: Inside ASCO's safe and efficient Shed 3.

Warehouse efficiency drive pays off for ASCO

With a significant rise in the volume of deliveries destined for offshore facilities, the integrated materials and logistics management company ASCO faced a challenge at its South Harbour base to improve the flow of goods.

Shipping and Warehousing Manager Adam Ritchie, who was tasked with finding a solution, describes the problem as a lack of space and appropriate vehicle access.

"As the number of deliveries rose – individual physical receipts went up from 64,957 in 2016 to 75,932 in 2018 – we faced a growing bottleneck and criss-cross movements of boxes and paperwork within a limited space that was unsustainable," he says.

"Plus vehicles were having to go near the quayside and then crossing each other's paths and often queuing up for periods of time.

"But with the move from Shed 2/4 to a reconfigured Shed 3, which has a floor space of 3,672m² compared to 1,110m², and the introduction of technology and improved communications to time deliveries better, there has been a significant increase in efficiency and safety.

"We now have a linear flow of goods from vehicle to warehouse and on into containers for trans-shipment. Personnel-only and vehicle-only areas are clearly marked on the floor in yellow and gray respectively, reducing the risk of health and safety issues."

As a group ASCO has invested heavily in digitalisation, introducing an Integrated Logistics Management System (ILMS) that is designed to drive excellence in all areas of service delivery.

It captures data that allows the company, clients, suppliers and delivery agents to make quicker, smarter and more efficient decisions.

Within it is a warehouse management module, which integrates planning, operations, people and equipment to provide visibility and flexibility to labour.

The system is accessible via hand-held terminals and uses barcodes, QR codes and electronic scanners.

Mr Ritchie demonstrates an example of this by showing on a computer a map of inbound delivery vehicles en route to the Peterhead base.

"We can monitor this constantly and make contact with the drivers to establish when they will arrive. In an instance where a driver has other deliveries to make in the area and we are particularly busy, we can recommend that they make those other deliveries first and then arrive here at a quieter time. It all improves the efficiency of our operation."

- **Peterhead Port Authority (PPA) joins in congratulating ASCO on its five-year contract extension from CNOOC International worth in excess of £100m. Simon Brebner, CEO of PPA, said: "We are delighted to see that the ASCO Group have been awarded this contract extension with services being delivered predominantly from their Peterhead supply base. Our excellent port infrastructure and locality, close to the Central North Sea, together with our strong partnership approach with ASCO, will hopefully continue to provide efficiencies and value for the foreseeable future."**







Fish turnover tops £200m again

The value of fish landings and consignments at Peterhead in 2019 was above £200 million for the second successive year.

Pelagic fish, whitefish and shellfish with a gross value of £209.5 million (153,487 tonnes) was sold through the port, up from £202.2 million (173,996 tonnes) in 2018.

The achievement was made despite reductions in North Sea whitefish quotas in particular.

Peterhead Port Authority chief executive Simon Brebner said: "Thanks to excellent prices, in 2019 we were able to surpass the previous year's turnover figure, which was itself a record in the modern era.

"Our value proposition has been significantly enhanced with the opening of the new whitefish market in June 2018, followed by a series of positive accreditations."

These include the award of the British Reputation through Compliance Global Standards' highest AA rating to the fish market; the honour of becoming the first ever Responsible Fishing Port under the Seafish scheme and Marine Stewardship Council (MSC) chain of custody.

The value of whitefish was on a par with 2018 at £126.6 million (compared to £126.8 million) and the tonnage was down slightly at 64,326 (compared to 68,492).

Mackerel landings for the same period were down on 2018 at £55 million (from £55.6 million) and 45,977 tonnes (54,983 tonnes).

Shellfish more than doubled in value (£15.2 million in 2019 compared to £6.3 million in 2018) and almost trebled in weight (6,347 tonnes compared to 2,492 tonnes).

Left: Fishermen landing their catch at Peterhead Fish Market.



Peterhead Central School
pupils with Port Chief
Executive Simon Brebner.



Absafe visit

Peterhead Port Authority is supporting Absafe, a charity aimed at promoting a safety culture in communities through educating schoolchildren in a fun way.

Last month it was the turn of Peterhead's Central School to visit Absafe and participate in a series of "educational interactive sets" which tackled subjects such as fire safety, road safety, water safety, alcohol awareness and internet bullying.

This allows the children to make more informed decisions on keeping themselves and others safe. Absafe is dedicated to saving lives and reducing harm by instilling a positive safety culture in communities.

Simon Brebner, CEO of Peterhead Port Authority, said: "We are humbled to be a partner with Absafe. The benefits the charity provides through educational workshops are invaluable and it was simply amazing to see how engaged all the school children were during the activity sets.

"Our aim is to ensure that all schools represented within the Peterhead locality are able to participate in this programme and we will be working with Absafe to ensure we can deliver."

Absafe CEO Louise Richardson said: "When we look at the work we do at Absafe, it is important for us to have local support, as it ensures we are able to continue to deliver the interactive learning for children in the north-east of Scotland, and it shows the local children and young people that Peterhead Port Authority is committed to their health, safety and wellbeing.

"Absafe exists to ensure that local children can lead a life free from unintentional injury. We are Aberdeen's only charity dedicated to saving lives and reducing harm by instilling a positive culture in our communities and inspiring a passion for safety. We cannot deliver this without support from organisations such as Peterhead Port Authority."

absafe
Don't learn safety by accident