

## GREEN DOLAV HELPS SAVE ENERGY



Hull-based Smales, one of the UK's leading suppliers of fish and seafood, now has an almost zero-energy, cost-saving, waste ice melting process. In this, the green-coloured Dolav Ace plays a vital role. Fresh fish arrives from suppliers packed with ice and during processing has ice added. This causes Smales to dispose of waste ice every week. By removing ice from general waste, Smales has reduced the weight sent to landfill by two tonnes a week, saved money and found other benefits.

In a surprising simple system devised by the consultant engineer at Smales, waste ice is forklift tipped from green Dolav Ace plastic pallet boxes into a stainless-steel container in the yard. Factory waste water at 10-12 degrees Celsius sprays the ice, melting it during the coldest winter periods. The melted ice water and waste water go to a sludge trap before entering the normal drainage system. It requires no extra heat, almost no energy or running cost and is a very carbon-friendly solution.

"We are pleased not to send two tonnes of waste water to landfill each week at just over £100 a tonne and we have halved our collection fees, saving us some £300 pounds every week," said Simon Paterson, technical manager at Smales which estimated a project pay back of four months. "The savings were greater than we expected and the pay back, including the cost of the new Dolavs, was about five weeks. We now reckon we will save £40-50,000 a year," said Simon Paterson. "The difference it has made is phenomenal – more than we were anticipating, more than cost saving. We no longer have pools of melt water around the waste compactor and waste skip, fewer waste vehicle movements, cleaner and dryer compacted waste handling," he added.

In this very hygienic environment producing food for human consumption, the Dolavs are given a frequent sterilising chemical rinse and pressure washed clean before going back in to the fish processing areas. Campden BRI has confirmed the Dolav ace as having hygienic design, which adds to the confidence Smales has in the Dolav Ace.

"The Dolav Ace for waste ice has done the job for us. We wanted a specific colour, green, to make it clearly different from other waste bins – five different colours are already in use. The Ace has also to fit in under a skinning table where the ice falls through. It must be forklift tipped and the secure runners on the strong and durable Ace are necessary to take the weight of ice. The price and delivery were fine. Dolav was able to deliver our chosen colour from stock immediately which was another deciding factor. Since then the green Dolavs have been in use non-stop in this successful green project since May 2013," Patterson said.



## EXPRESS FLAKE ICE KEEPS FISH FRESH



North East Ice, a harbour-based company in the port of Peterhead, delivers fresh ice in Dolavs for local fishing boat operator's catches in the fish auction and local fish processors and merchants. The new clean fresh flake ice keeps the fish cold and improves presentation for auction. For the fish processors and merchant who buy the fish, North East Ice supplies its flake ice to keep fish cold and for packing fresh fillets for delivery to end users. Cleanliness and hygiene is to normal high standards for food production for human consumption.

All the ice is delivered in red Dolavs which travel four-at-a-time for only a few hundred yards on a flatbed. Unloading is usually by electric forklift. North East Ice has been providing ice for more than 15 years and Alan Thoires said, "We tried other bins of about 600 litres but found the Dolav Ace stood up best to use. We also tried insulated boxes which proved too heavy as much of the handling is manual." The ice is frozen to sub-zero and so that is the temperature at which the Dolavs operate. North East Ice uses 15-20 Dolav Aces made in red HDPE and weighing 36.5 kg empty.

The flake ice is classed as a food and must meet food production hygiene standards so North East Ice conducts routine tests to confirm no contamination and regularly cleans its equipment including the Dolavs. Campden BRI recently confirmed the Dolav Ace of being of 'hygienic design'. North East Ice makes its own flake ice from mains water and keeps it in a 100-tonne store ready for delivery as called for when the fleet comes. That can cause a large demand in a very short time depending on the catches being landed. North East Ice responds immediately and fills its Dolav Ace plastic pallet boxes and delivers flake ice at speed to the fish auction and fish processors as fast as they need it.



More at: [www.uk.dolav-news.uk](http://www.uk.dolav-news.uk)



**DOLAV UK LIMITED**, Neaton Business Park, Norwich Road, Watton, Norfolk IP25 6JB  
Office: 01953 889422 • Web: [www.uk.dolav-news.com](http://www.uk.dolav-news.com) • [www.dolav-uk.co.uk](http://www.dolav-uk.co.uk)

**DOLAV IRELAND**, 2 Broadmeadows Road, Swords, Co. Dublin  
Office: +353(0) 1 8402354 • Mob: +353(0) 87 2578321 • Web: [www.dolav-ireland.ie](http://www.dolav-ireland.ie)

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