III. DEBRIEF

are helping a retailer How compostable bags cut its plastics use

Conor McGlone visits the Italian facility that supplies the new biodegradable bags to the retailer Co-op is offering compostable carrier bags at 1,000 stores, but barriers may prevent wider take-up.

to decompose, the Co-op's compostable bags will take 5p single-use plastic counterparts. But unlike standard less than 18 months to break down. plastic carrier bags, which can take hundreds of years be the same size, strength and price as their traditiona waste caddy liners, according to the firm. The bags will Customers can use the bags to carry their upermarket chain Co-op announced in Octo-ber that it would offer new compostable carshopping home and then reuse them as foodrier bags at more than 1,000 of its stores

had taken the step of removing single-use bags, the fact that Co-op's branches are "convenience stores" means said that while other, larger, retailers such as Tesco of removing single-use plastic bags from its stores. He single-use bags out, we would drive our customers into they may not have planned to shop. "If we were to take response to concerns over unintended consequences five times the amount of plastic as a single-use bag," using bags for life instead. They are made with four to customers often do not bring their own bags because told ENDS that the firm had arrived at the solution in Iain Ferguson, environment manager at Co-op,

plastics firm Novamont, which recently boosted the The carrier bags are produced by Italy-based bio-

Co-op has rolled out the

biodegradable bags in just over

,000 of its 2,600 stores

The bags can only be offered in

councils that will accept them the 150 English and Scottish

plastic contamination

waste from 19% to 96%, cutting compostable liners for food BAGS OF CHANGE

cutlery, straws and food packaging. south of Rome. The material produced at the plant goes duction line at its facility in Pàtrica, around 50 miles production of its Mater-Bi bioplastic by up to 50% to plastics, including coffee cups and pods, carrier bags, into creating a biodegradable alternative to traditional 150,000 tonnes a year with the opening of a second pro-

is a "major issue". Organic recycling - such as via industhat the depletion of organic matter from soils in the UK trial composting or biogasification of food waste - can Novamont's UK waste specialist, Tony Breton, said

to use these bags more widely" single-use bags because we would be able collection system would help us divert "A mandatory UK-wide food-waste

lain Ferguson Co-op

 A pilot scheme introducing the Manchester, helped push use of bags in Oldham, Greater contamination in organic waste streams by recycling tains that, by creating a carrier bag that is compatible are very difficult to get out," he said. Novamont mainup with very small pieces of plastic very quickly, which plant and goes through big, heavy shredders, you end plastic film is an issue. "Once it arrives at a composting them in a way which then reinvigorates the soil". "take unhelpful plastics out of the system and reduce the with the food-waste recycling system, it is possible to alleviate this problem, according to Breton. But he says

ated, modified and, in some cases wholly renewed, to ous sections of the gleaming plant have been regenerline with an investment of €100m (£88.5m) in 2018. Varing biopolymers in 2011, opening the second production verting it from an old PET plastics plant. It started mak-Novamont took over the Pàtrica facility in 2010, con-

> that go to making Novamont's final product through a are biobutandiol and azelaic acid - bio-based monomers process the raw materials of Novamont's system. These directed towards reducing emissions", according to process which is "increasingly sustainable, and always

ranging from goat feed to biodegradable lubricants, are put to use, such as polygonic acid, which is used thistle oil, which comes from Sardinia itself. Byproducts as a biodegradable natural herbicide. Other products, biorefinery, producing vegetable oils, sunflower oil and ical company of Italy - to convert one of its areas into a involved in making Novamont's bioplastics. In Sardinia, the company is working with Eni - the state petrochem-The Pàtrica plant is just one of a network of facilities

Pilot scheme

cling, but following an intensive awareness campaign, 96% now use them, he said. in Oldham, Greater Manchester. The borough's food-Co-op has already piloted the biodegradable bag scheme target area used compostable liners for food-waste recy-Before the trial, 19% of participating households in the because plastic bags were being used by households waste collections had seen high levels of contamination instead of compostable liners, according to Ferguson.

accepted by only 150 out of the 385 councils in England and Scotland degradable bags in just over 1,000 of its 2,600 stores. in their food-waste collections. Currently, the bags are must also be prepared to accept the biodegradable bags that have food-waste collections. Those local authorities within local authority areas in England and Scotland This, it says, is because it can only offer the bag in shops So far, however, Co-op has only rolled out the bio-

factory in Ital

cils that do not accept the bags, as well as the remaining packaging widely available, you would have people Ferguson, are worried that "if you made compostable devolved governments. Some authorities, according to Ferguson said he is seeking to engage with the coun-



Co-op is offering the new bags in fewer than half its stores

able to use these bags more widely," he said. single-use bags from [circulation] because we would be system would have benefits. It would "help us to divert argued that a mandatory UK-wide food-waste collection food-waste collection, contaminating the stream". He mistakenly putting non-compostable packaging in the

Co-op's

bags are made at biodigradable

Reducing contamination

carrier bags are collected. Other types of compostable Novamont's other biodegradable products, such as biois the sensible thing to do", said Breton. facilities, "so making them compliant with the process as plastic contamination at the UK's organic recycling products and packaging are at present being treated ing to the firm. This drives down contamination rates collections in a number of EU member states, accorddegradable food packaging, can be put into food waste further, but in the UK currently only the compostable

of the brand owners and retail sector," he said. to recognise while being compatible with the demands amount of compostable products treated as contaminahelp by cutting the number of plastic bags mistakenly for householders, local authorities and organic recyclers tion at recycling facilities. "It needs to be strong enough used to line caddies by households and reducing the essential. A simple, recognisable logo, he suggests, could For Breton, communication and traceability are

Novamont can produce at its facility in Patrica Sainsbury's and Waitrose. is in talks and trials with Tesco, Marks & Spencer currently working on. In the meantime, Novamont based and Biodegradable Industries Association is Breton said this is something trade body the Bio-

of Mater-Bi bioplastic

ENDS REPORT 526 | JANUARY 2019

34

JANUARY 2019 | ENDS REPORT 526