



NEWS

Norfolk Environmental Waste Services

WASTE RECYCLING & TRANSFER CENTRE

NEWS' Waste Recycling and Transfer Centre at Costessey has the capacity to process 90,000 tonnes of mixed, dry recyclable materials per annum and has been constructed following the award of an innovative contract by five of Norfolk's local authorities for the receipt and sorting of recyclable materials from doorstep collections.

The facility is one of the most technologically advanced in Europe. The heart of the plant is the "V" Screen, the first to be installed in Europe and one of only a handful in the world, which, together with optical, infra-red sorting technology and a magnetic 'eddy current' sorter, provides a highly efficient means of screening mixed recyclable waste.

The plant can receive a range of mixed dry recyclable waste from local authority doorstep collections and from source separated collections from commercial customers, including

- paper
- cardboard
- newsprint
- aluminium cans
- steel cans
- plastic bottles

Future developments are planned, in particular the addition of glass, to the materials that can be processed at NEWS' Waste Recycling and Transfer Centre.



“The facility is one of the most technologically advanced in Europe.”

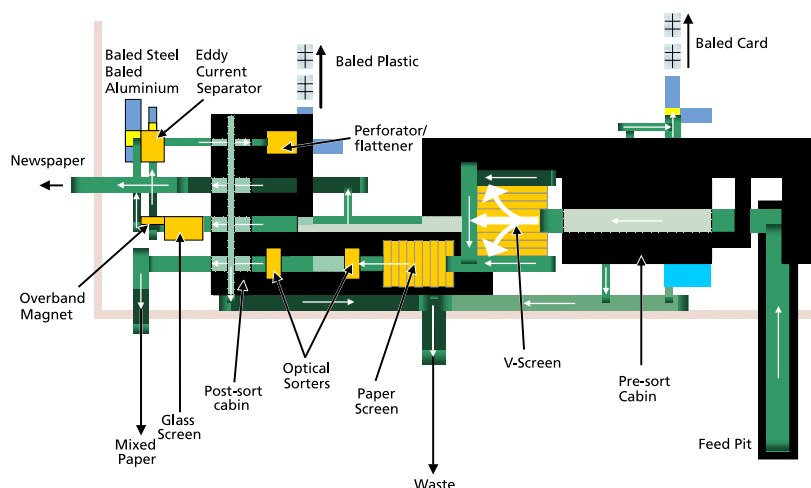


How it works...

- **Incoming Material** - Mixed dry recyclable materials are received.
- **Conveyor** - The materials are pushed on to a conveyor to the pre-sort cabin.
- **Pre-Sort Cabin** - Cardboard and plastic film are removed and baled. Non-recyclable materials are removed and delivered via conveyors into the Waste Transfer Station.
- **Screens** - At the "V" screen, all fine debris passes through the discs and is rejected and paper items are separated from three dimensional material (plastic bottles and steel and aluminium cans). The paper items are then delivered into a second screen which separates the newspapers and magazines from the mixed paper.
- **Separators** - the two separated paper streams are then fed via conveyors beneath two infra-red 'Fibresort' units. These machines recognise materials' infra-red signature and blow any unwanted material off the system on to another conveyor. The plastic bottles and steel and aluminium cans pass under an overhead electro-magnet which removes the steel cans. An eddy current separator removes aluminium cans. Plastic bottles are fed directly into a perforator/flattener.
- **Steel and aluminium cans**, once separated, are flattened and the mixed plastic bottles are baled.
- **Despatch** - Following separation, newspaper and magazines, and mixed paper, are delivered by conveyor to large storage areas ready for despatch to reprocessing mills.

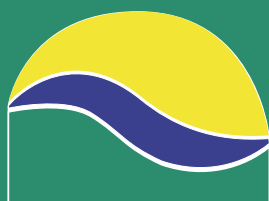


The "V" Screen - the heart of the plant



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