

## DOLAV: SERVING UP FOOD WASTE TO AD FOR INSOURCE ENERGY



### InSource Energy Fast Facts

- New £5m AD plant in South Wales
- Designed, built, financed and operated by InSource Energy
- Built within the Premier Foods site to process its waste and provide it with heat and power
- Capacity to process 18,000 tonnes a year
- The feedstock is food waste and effluent treatment sludge
- Plant de-packs food waste as necessary and anaerobically digests it
- The net Electrical Output is 300kW
- The net Heat Output is 400kW
- A local farm spreads the PAS 110 compliant digestate as fertiliser



### Dolav Direct Fast Facts

- 90 Dolav Ace pallet boxes are used to collect food waste from the adjacent food factory
- The Dolav boxes are integral to the waste food to AD process
- The AD plant runs 3 shifts operating 24/7 (c.363½ days a year)
- The Dolav boxes containing waste food and packing are tipped to empty them over the depackaging input hopper
- Food waste is piped to pasteurisation and AD
- Separated packaging falls into empty Dolavs
- Dolavs with separated packaging are tipped over container
- Fork lifts take Dolavs to wash and back to line side



The £5m InSource Energy plant at Rogerstone Newport partnered with R F Brookes Premier Food site where factory food waste is converted via AD to provide up to 10 percent of the factory's energy.

This is the only completely closed-loop system in UK and possibly in the world.

Dolavs have been an integral part of the process from the beginning.



## ISRAEL - DOLAV POULTRY DISPOSAL BOX COMPOSTING FALLEN CHICKENS



### Fast Facts

- 600 Poultry growers in Israel
- 350,000 tons of meat per annum
- 3% loss of meat during growing cycle, 10,000 tons per annum
- Tradition disposal of residue – damage to environment
- New regulations to prevent contamination of land & water reservoirs
- Poultry residue must be treated to produce compost
- Traditional treatment is in land field decay pits



### Two Dolav Solutions

Both supplied with injection moulded lids fitted with gaskets and 4 long rubber locks



#### 1,000 litre model

Supplied with fitted lift and swivel bosses and 2 sets of steel reinforcement bars.  
Designed for 700kg load.



#### 600 litre model (ACE)

Supplied with 3 integral runners to allow tipping using forklift trucks with rotating heads.  
Designed for 600kg load.



### The Dolav Process

- Poultry residue in the beginning of process
- Dead chickens are placed in layers in the box
- A mixture of woods chips and dry chicken waste is spread between each layer of birds to supply sufficient nitrogen to break down the contents
- 45 days later the substance is ready to ship to compost site



### Transport to Compost Site, Windrow, Plant



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