The ArrowBio Process

An Experienced Clean Treatment for MSW

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The ArrowBio Process

An Environmentally Friendly Treatment

To Manage & Recover Resources

From Unsorted or Sorted MSW

Via a Watery Sorting Process ("A Watery MRF")

and a Classical Watery Anaerobic Treatment ("UASB")
The Process – Basic Principals

- Recycled Water
  - Organic
  - Inorganic
  - Ferrous Metals
  - Non-Ferrous Metals
  - Glass
  - Others
The Process – Basic Principals

- Bio-process liquid
  - organic
  - inorganic

- Biological processes
  - HYDRO-CRUSHER
  - ACETOGENIC REACTOR
  - METHANOGENIC REACTOR

- Products
  - Biogas
  - Water
  - Soil Improver

- Contaminants

- PLASTICS
  - BIO-DEGRADABLE ORGANIC
The Tel-Aviv ArrowBio Plant
The “Wet MRF” - Sorting in Water
Biological Reactors & Energy Systems
PRODUCTS
and
ENVIRONMENT
Scrap Metal
PET, HDPE, and Film Plastics
Clean Soil Improver
Agricultural Tests of Soil Improver
Green Energy
Odor and Noise Measurements
ArrowBio in Sydney – Artist’s Concept
• “The 2 stage digestion achieves better process control”

• “The net electricity export is superior… and there is no requirement for energy to undertake composting”

• “The plant uses a smaller footprint”

• “Sludge from digesters is cleaner compared with others…The propensity for heavy metals is lower…”

• “The process after its initial fill, is a net exporter of water “

Mohan Selvaraj, General Manager Technology Development,

WSN environmental Solutions, Sydney, Australia
Int’l Review of Juniper, UK

![Graph showing m³ of biogas per tonne of waste input for various locations.](image)
Major Parameters for evaluating an MSW treatment process

1. What feedstock is it handling now. Is it mixed MSW or not?
2. What is the quality of the products?
3. What is the tipping fee it works with?
4. Does it have a commercial plant receiving real waste ordinary?
ArrowBio's edge

- Green Energy
- Cost
- Integral Recovering
- No Pollution or Contaminated products
Thank You