

BioCycle 28TH ANNUAL WEST COAST CONFERENCE
REFOR14WEST
RENEWABLE ENERGY FROM ORGANICS RECYCLING

Processing Mixed MSW For Recovery Of The Organic Fraction San Diego, CA

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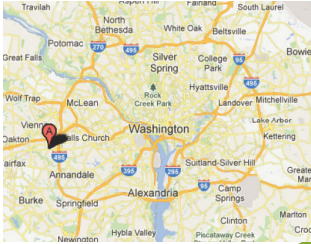

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GBB Overview

Established in 1980

Solid Waste and
Technology
Consultants

Helping Clients Turn
Problems into
Opportunities



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GBB's Waste Consulting Services

- Economic, technical and environmental reviews
- Procurements
- Due diligence third-party reviews
- Waste characterization and sourcing
- Process planning and conceptual designs
- Independent feasibility consultant



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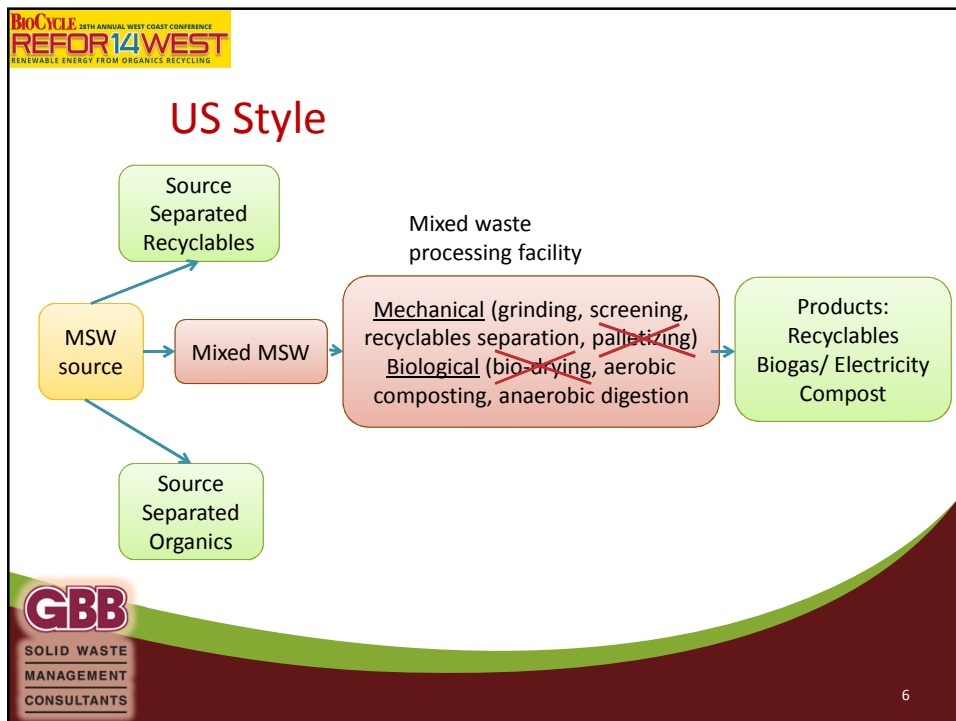
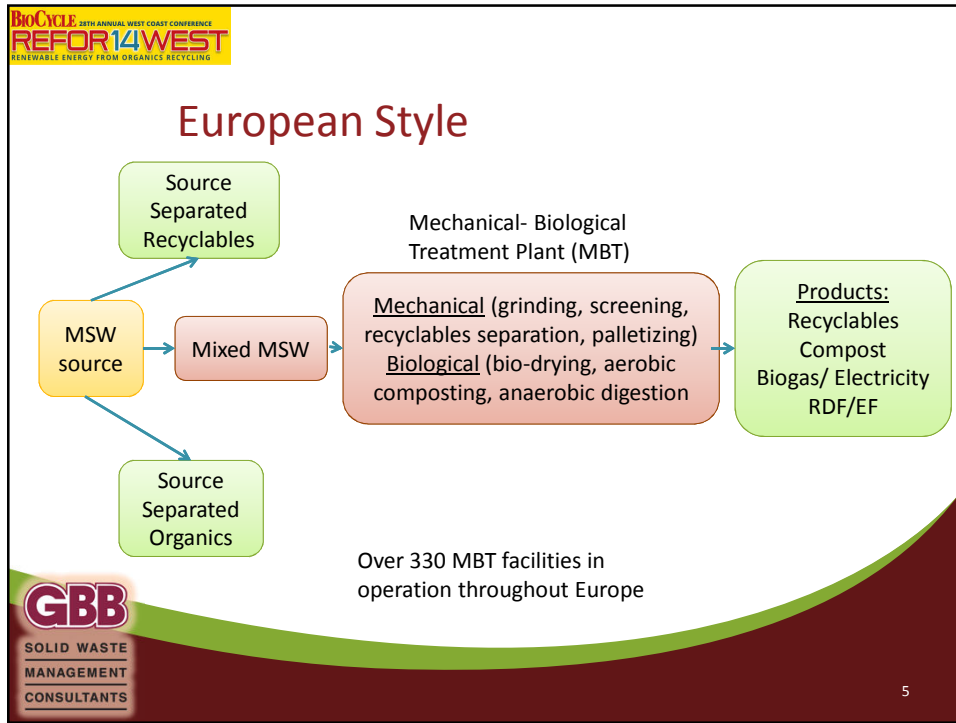
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MIXED MSW PROCESSING PLANTS

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Veolia MRF & MBT facility Southwark UK



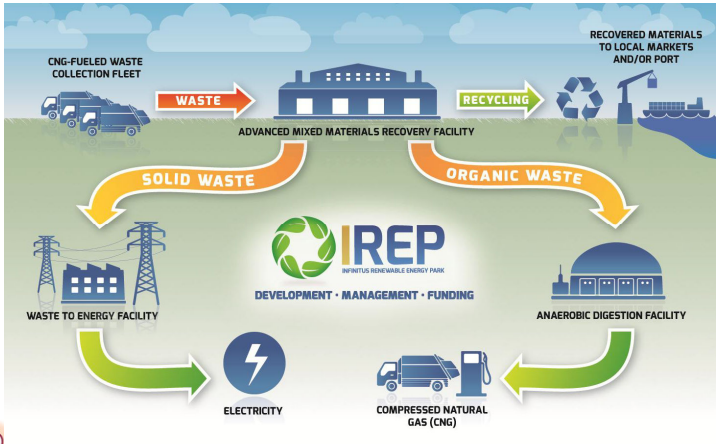
Germany's largest MBT facility
225,000 TPY in Hanover
(operated by AHA Hanover)

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City of Montgomery, Alabama



CNG-FUELED WASTE COLLECTION FLEET

WASTE

RECOVERED MATERIALS TO LOCAL MARKETS AND/OR PORT

RECYCLING

ADVANCED MIXED MATERIALS RECOVERY FACILITY

SOLID WASTE

ORGANIC WASTE

WASTE TO ENERGY FACILITY

ELECTRICITY

ANAEROBIC DIGESTION FACILITY

COMPRESSED NATURAL GAS (CNG)

IREP
INFINITE RENEWABLE ENERGY PROGRAM
DEVELOPMENT • MANAGEMENT • FUNDING

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Important facts

- Gate fees- \$120/ton (UK, WRAP 2011)
- Products
 - Recyclables (mostly ferrous and non-ferrous)
 - Compost like product
 - Refuse derived fuel (up to 40% of the incoming waste)

Country	Recycled & Composted (%)	Energy from Waste (%)	Landfilled (%)
Germany	62	37	1
Netherland	60	38	1
Belgium	56	42	1
Sweden	48	51	1
Austria	62	35	3

Source: EUROSTAT, 2011 status

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Questions and comments?

Thank you!

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