

US EPA ARCHIVE DOCUMENT

THE BUSINESS OF BIOREACTORS

AN INDUSTRY VIEW



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**EPA BIOREACTOR
WORKSHOP**

2/27/03



THE STRATEGIC LANDSCAPE



02/27/03

From everyday collection to environmental protection, look to the NEW Waste Management.



THE WASTE STREAM



- **>80% ORGANIC**
- **>60% BIOGENIC**
- **>50% OF MOST BIOGENICS RECYCLED**
(newsprint, corrugated, yard waste)

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RECYCLING



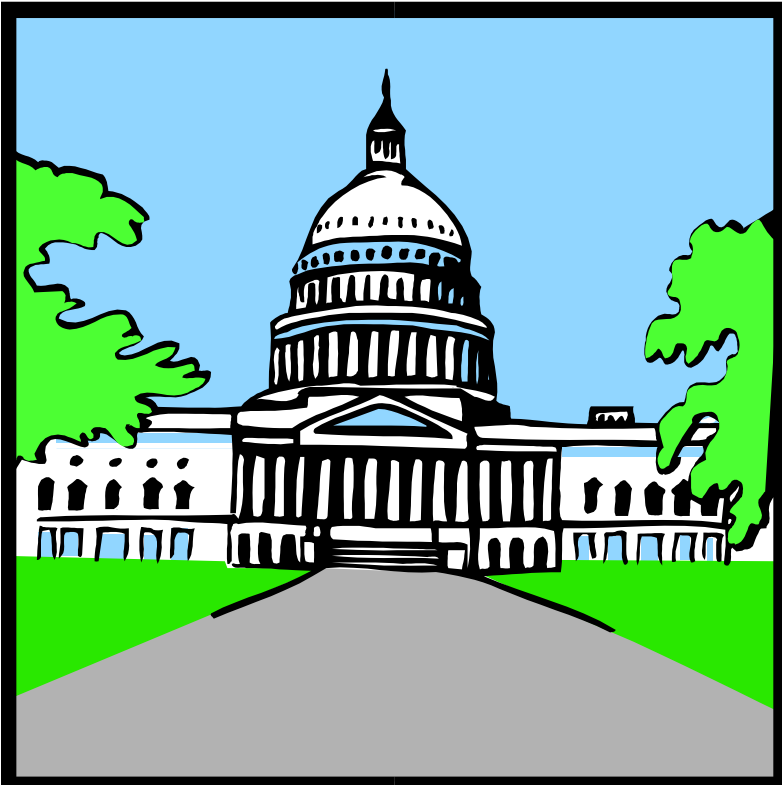
- **THRIVING**
- **LOW-HANGING FRUIT**
- **SPECIAL ITEMS**
- **TOXICS CONTROL**
- **ECONOMIC PUSHBACK**

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POLICY CHOICES: BEYOND RECYCLING



- **THE EURO APPROACH**
- **WTE**
- **COMPOSTING**

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THE LANDFILL



- **~ 5,000 MMt ORGANIC WASTE IN PLACE**
- **>150 MMt/YR FOR THE FORESEEABLE FUTURE**
- **WITH 100% FOOD WASTE DIVERSION, REDUCE BY 25 MMt/YR**

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THE LANDFILL



- *EVEN WITH AN IDEAL ORGANICS DIVERSION PROGRAM AT SOME FUTURE POINT WE MAY STILL BE LANDFILLING >50MMt ORGANICS/YR*

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QUO VADIS?



- ***HOW DO WE
BEST OPERATE
THE LANDFILL
TODAY AND FOR
THE
FORESEEABLE
FUTURE***

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OUR MUTUAL EDUCATION



THE LESSONS OF REGULATION:

- CONTAINMENT
- LCS AND LEACHATE QUALITY
- LFGCS
- PC CARE METHODOLOGY

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A BETTER WAY?

***STABILIZE – TREAT!– THE WASTE
MASS THROUGH ACCELERATED
DEGRADATION***

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BENEFITS



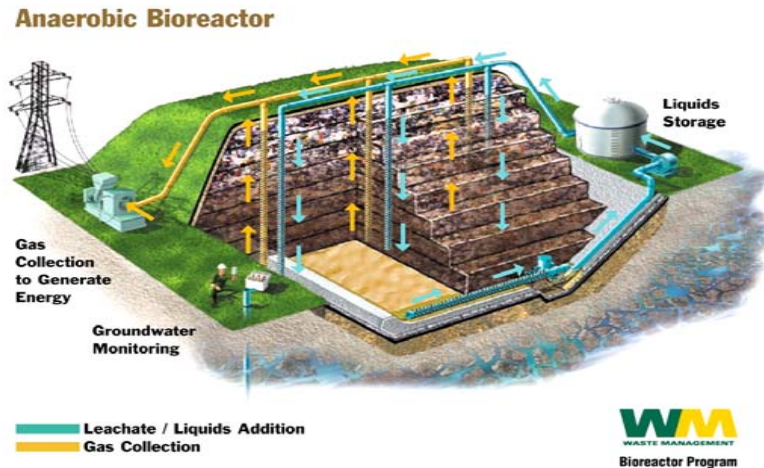
- **LEACHATE /TOXICS TREATMENT**
- **GAS/ENERGY RECOVERY**
- **LAND USE EFFICIENCY AND REVITALIZATION**
- **NON-HW LIQUIDS AND BIOSOLIDS MANAGEMENT**
- **THE RECYCLABLE LF**

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WIN-WIN!



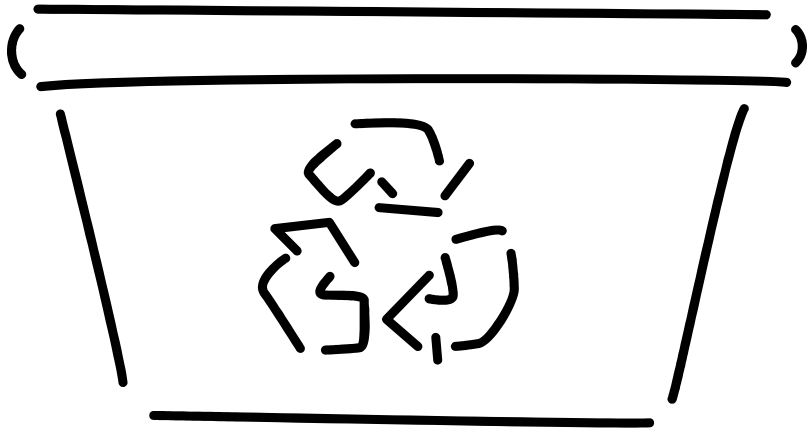
- **POST CLOSURE CARE PREDICTABILITY**
- **AIR SPACE EFFICIENCY**
- **LEACHATE CONTROL**
- **DEFERRED CONSTRUCTION COSTS**
- **ENERGY SALES**
- **LIQUID WASTE STREAM REVENUES**

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MYTH AND REALITY!



- **BIOREACTORS V. COMPOSTING & RECYCLING**
- **LEACHATE/EMISSIONS TOXICITY**
- **ENGINEERING**
- **STATE COMPETENCE**
- **THE 30-YEAR ISSUE**
- **RESPONSIBILITY**

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PROGRESS AND PURPOSE



- **HONEST DEBATE**
- **OPPORTUNITY**
- **FOCUS**
- **DECISION RULES**
- **ACTION!**

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