• NYC Bar Association meeting,

• March 22, 2007

Robin Davidov
Energy...A terrible thing to waste!

Robin B. Davidov

Executive Director
Northeast Maryland Waste Disposal Authority

www.nmwda.org
www.mdrecycles.org
Northeast Maryland Waste Disposal Authority

Population: 4 Million
Waste-To-Energy in Baltimore

• 1979  Failed Monsanto Pyrolysis Plant in Baltimore closed

• 1980  Baltimore jurisdictions form regional development authority to:
  – Develop new WTE facility based on European Technology
  – Develop new WTE facility in Harford County to supply steam to Army base and close Army landfill

Authority Projects

Baltimore City/County Waste-To-Energy 2,250 tons/day

Harford County Waste-To-Energy 360 tons/day

Montgomery County Waste-To-Energy 1,800 tons/day
Recycling and Energy Recovery

Recycled Waste: 38-52%
Waste-To-Energy Facilities: 3
Annual Energy Produced:
  115 MW Electricity plus 500,000,000 lbs/steam
Electricity for: 80,000 single family homes
Heating/cooling for office buildings
Baltimore City WTE Facility
2,250 tpd/23 years old
Authority Pays Ave. $37.50/ton
BRESCO Employment Data

- 68 Employees
- Salary Ranges
  - Operations: $18.00-$30.00/hour
  - Maintenance: $20.00-$32.00/hour

Longevity
- 1-5 years: 35%
- 5-10 years: 15%
- 10-15 years: 10%
- 15+ years: 40%

Job Training: Environmental, Health, Safety, Job Specific
Montgomery County, Maryland

Total Waste Generated
1,261,135 tons

- Recycled
  520,000 tons
  41%

- Waste-To-Energy
  610,000 tons
  48%

- Disposed
  130,000 tons
  11%
Montgomery County Waste-To-Energy Facility
610,000 tons/year 11 years old
Montgomery County WTE Facility

WTE Facility

Awards

Coal Fired Plant
Montgomery County

- WTE: Extensive Multi-Pathway Health Risk Assessment Studies, peer reviewed by EPA
- WTE: Live Hourly Emission Data on the Web
- Integrated Waste Mgt.: Services and Charges for Multi-Family Units (Townhouses)
  - Once/week trash and recyclables collection (bins are free)
  - County MRF, Drop-Off, Recycling, WTE, Old Landfill O&M
  - $220/year
Facility Emissions Map – Criteria Air Pollutants
Maryland

Facilities Emitting Any Pollutant

Total Emissions Category:
- Blue: <100
- Green: <1000
- Orange: <5000
- Pink: <10000
- Red: <50000
- Brown: 50000+

Total Emissions By Category
- <100: 4
- <1000: 12
- <5000: 19
- <10000: 13
- <50000: 193
- 50000+: 362

Thousands of Tons per Year

Facility Count By Category
- <100: 116
- <1000: 44
- <5000: 7
- <10000: 2
- <50000: 6
- 50000+: 4

Number of Facilities

Emissions Category
- CO
- NOx
- VOC
- SO2
- NH3
- PM10
- PM2.5

Thousands of Tons per Year

Source: US EPA Office of Air and Radiation, NEI Database

Total Emissions of the 179 Facilities

Tuesday, February 20, 2007
Reliable, Renewable Energy
In Baltimore, Maryland for Over 23 Years...from a modern “incinerator”!