

Overview of Recycling Infrastructure

NEMI

September 13, 2000

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Overview of Envirocycle

- 200,000 square foot facility
- Operation:
 - Repair & Refurb
 - Retail Store outlets
 - Dismantle or Tear down
 - CRT Recycling
 - CRT Recycling Equipment

Overview of Envirocycle

- 110 Employees
- Currently Processing 1,300 tons of material a week.
- Adding additional capacity for CRT Recycling.
- Launching National Computer Recycling Program later this year.

Challenges

- Economics of recycling computer versus consumer electronic equipment.
- Transportation
- Material value
- Cooperation between Recyclers & Manufactures

Economics of Equipment

- Processing equipment from different sectors, mainly computer and consumer markets, provide different challenges
 - Computer equipment traditionally has a shorter life which increases possible resale and parts value
 - Material used to manufacture Computer equipment is of higher grade material.
 - Computer equipment traditionally is easier to dismantle.

Transportation

- Transportation cost in most cases, is the major expense in recycling electronics
 - Large processing facilities are usually located in or around large cities
 - Companies usually have one facility or facilities located in regional areas
 - Recyclers specializing in regions (ex Plastic, CRT's)

Material Value

- Revenue generated from dismantling or shredding operation do not usually cover the cost in processing equipment (Example of Monitor or Televisions)
 - Metals - Traditional Metal Markets
 - Boards - Low Grade Material
 - Wire - Metal Markets
 - Plastic- Traditionally been a cost
 - CRT's - Traditionally been costly to recycle

Cooperation in Industry

- Communication between recyclers has been non-existent in the past. With companies focusing on different sectors of industry, communication could provide solution to the challenges facing the industry.
 - Examples
 - Using each others expertise
 - Joint Research
 - Partnership on Projects
 - Industry Standards

Future of Industry

- Large regional processors located in large population.
- Eco- Industry Parks that focus on increasing the value of material generated from the industry.
- Downcycling to increase material value.