Resource Solutions & the Waste Management Hierarchy

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EPA Waste Management Hierarchy

http://www.epa.gov/waste/nonhaz/municipal/hierarchy.htm
Casella Landfills

• 9 Active Subtitle D MSW Landfills
  – Double-lined facilities
  – 24/7 monitoring and control
  – Active gas collection systems

• 6 Landfill Gas to Energy power plants
  – 35 MW capacity
  – Electricity for ~30,000 homes
Casella Landfills

3.2 MW Landfill-Gas-to-Energy plant at our Pine Tree Landfill in Hampden, ME. Capacity for ~3,000 homes
Casella Landfills

12-acre solar photovoltaic array (2.2MW) currently under construction at our Coventry, VT landfill
Award-winning 1st of its kind landfill geothermal project at our Bethlehem, NH landfill – captures 70F heat for on-site shop & operations
Casella Recycling

- 5 Zero-Sort® Recycling Facilities
- Over 500,000 tons per year
- Safety + Efficiency + Quality
- 6th under construction in Lewiston
Zero-Sort lets us grow the “Acceptables” list
Casella Recycling

Zero-Sort enables public space recycling, making recycling containers available in public buildings, sidewalks, parks, community events, etc.
Casella Recycling

- New Lewiston MRF under construction
- Online this fall, ramping up to 80k tpy
- To serve mid- and northern Maine

Schematic Credit: AMUT Eco Tech
Casella Organics

• Recycling over 400,000 tons/year
• Returning nutrients to the soil
• The oldest form of recycling

• Municipal biosolids, wood ash, short paper fiber, mineral byproducts, food processing residuals
• Growing focus on MSW food scraps
Hawk Ridge Compost Facility in Unity, ME transforms municipal biosolids into high quality soil products for cropland, nurseries, and landscaping.
Casella Organics

Jordan Farm Anaerobic Digester in Rutland, MA
Cow Manure + Food Processing Residuals = Energy + Fertilizer
Casella Organics

Collecting food scraps for composting and anaerobic digestion in VT, MA, NY
Casella Resource Solutions

• Commercial & industrial customers in 39 states

• Full suite of RM services:
  • Hauling, recycling, composting, and disposal

• Enhanced waste reduction & diversion

• Specializing in grocery, health care, mixed retail, industrial, office complexes, restaurants, educational, university, municipal
Casella Resource Solutions

- Strategic Resource Management
- RM Contracting
- Process Efficiency
- Supply Chain Management
- Design for Recyclability
Casella Resource Solutions

- Society’s approach to Materials Management is in transition
- Drivers: customer demand, environmental awareness, energy & commodity markets
EPA Waste Management Hierarchy

- Source Reduction & Reuse
- Recycling / Composting
- Energy Recovery
- Treatment & Disposal

Most Preferred

Least Preferred

CASELLA RESOURCE SOLUTIONS
ZERO-SORT RECYCLING • COLLECTION • ORGANICS • ENERGY • LANDFILLS