

BIOSOLIDS: THE “FORGOTTEN” ORGANICS



Very roughly 100,000 tons produced, per year, in Maine

END USE OPTIONS*

Option	😊	😞	Comments
Landfill	Often lowest cost, no issues with contaminants	Loss of nutrient value, space is limited	No free liquids
Composting	Recovers nutrients, high quality product	Art and science	High solids preferred
Land application	Local reuse, lower cost	Perception and permitting	Liquid or solid
Alkaline Stabilization	Potential for reuse, can be low capital	Limited end uses, reliance on liming agents	Product high in pH
Digestion	Produces power, can mitigate odor	Capital intensive	Liquid or solid
Drying	Volume reduction, versatile product	Capital intensive, high energy use	Popular in major metro areas

* Most prevalent, there are others such as lagoons, reed beds, and more





COMPOST OPTION ANALYSIS

Land Use	Issue in areas where land is scarce; neighbor impacts
Water Quality	Design and Operations <ul style="list-style-type: none">• Feedstocks• Stormwater• Leachate/evaporate• Collection and treatment
Air Impacts	Design and Operations <ul style="list-style-type: none">• Biofilters• Scrubbers• Turn times• Recipe
Opportunities to improve	<ul style="list-style-type: none">• More feedstocks• Alternative bulking agents• Innovative products

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THE END

