

REDUCING THE IMPACT OF FOOD WASTE ON CLIMATE CHANGE

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State of New Jersey Clean Air Council

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Who We Are





Our Mission



To advance compost manufacturing and utilization of organics/ food waste recycling programs to benefit our members, society, and the environment through advocacy, education and research.



 ~1/3 of the food intended for human consumption in the US is wasted.

 Food waste is 22% of the MSW in NJ disposed in landfills & incinerators

 1.46 million tons of food waste was generated in the state during 2017 and more than 89% of that was disposed of.



Source: NJDEP



The Generators

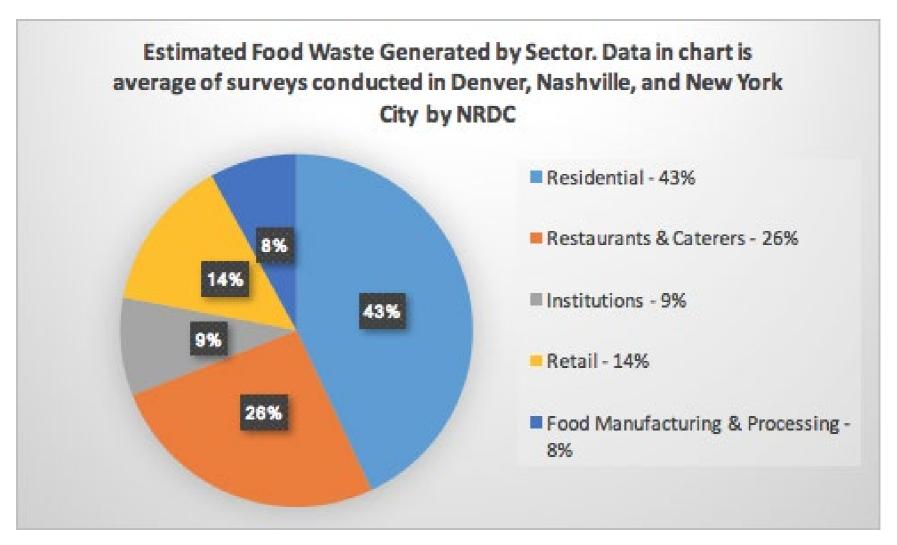


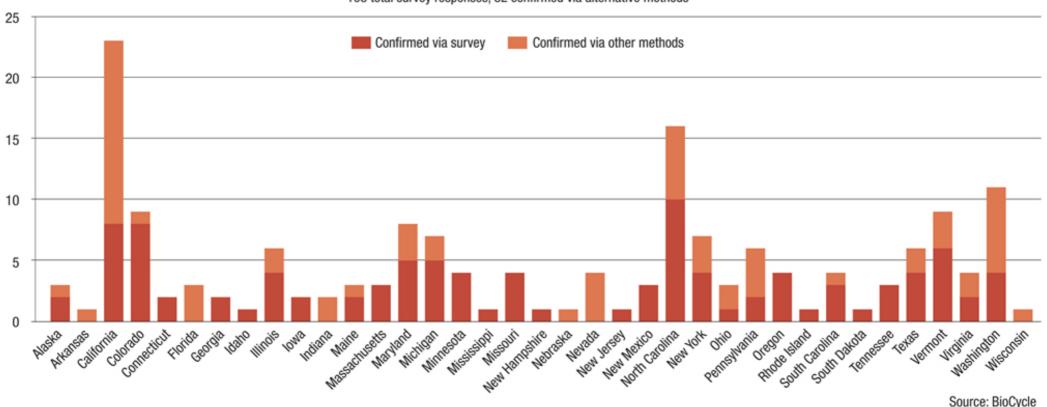
Table 1: NJDEP Draft Food Waste Reduction Plan copyright njcomposting.com





Figure 1. Number of full-scale facilities in the U.S. taking food waste

103 total survey responses, 82 confirmed via alternative methods





EXISTING & PROPOSED NJ FACILITIES

<u>Facility</u>	<u>Status</u>	<u>LOCATION</u>	<u>MUNICIPALITY</u>
Waste Management CORe	Existing	843 Flora Street	Elizabeth
Trenton Renewable Power, LLC	Existing	1600 Lumberton Road	Trenton
Linden Renewable Energy	Approved for Construction	4900 Tremely Point Road	Linden
Bioenergy Devco Mantua Township	Proposed	Rowan University	Gloucester County





In landfills, wasted food breaks down relatively quickly, generating methane – a powerful greenhouse gas – before landfill gas collection systems are in place.

Keeping food out of landfills helps tackle climate change.



The Problem is HUGE

The Problem is NOW

The Problem is US



ADDRESSING THE PROBLEM

Technologies

Policies

Education / Best Practices

Funding



Technologies



They

Already

Exist



Technologies (Composting)

- Eliminates toxic emissions and increases carbon sequestration (versus landfills).
- Improves soil structure, porosity and density
- Increases infiltration and permeability of heavy soils reducing erosion and runoff helping control stormwater issues
- Improves water holding capacity, reducing water loss and leaching in sandy soils
- Supplies and rehabilitates a variety of micro and macronutrient to the soil for nutrient dense food



Technologies (Composting)

Soil application

- Turf establishment
- Garden bed preparation
- Reclamation/remediation
- Nursery application
- Nutrient Source
- Biological Fungicide
- Roadside

Surface applied

- Garden bed mulch
- Erosion control media
- Turf topdressing

Growing Media

- Container/potting substrates
- Landscape
- Backfill mixes(tree and shrub)
- Golf courses
- Manufactured topsoil
- Environmental media rooftop, rain garden, bioretention, structural soils etc.



Policies

- NJ Priority Climate Action Plan
 - 50% by 2030
- Community Garden Bill (A2102/S1040)
- Tiered Permitting (Drafted)
- County Planning (A2090/S2426)
- Extended Producer Responsibility (A2094/S208)

They

Already

Exist



Best Practices / Education

- Add "Food waste impacts on climate change" to the core training at the DEP and for elected officials
- DEP an organization that sees itself as a catalyst
- Simplify (Speed up) the permitting process
 - Synergize across the DEP departments
 - DEP & SWAC
- Be scientific in your policies: leverage successes across the composting world



Best Practices / Education

- Grass Roots
- Community
- Businesses
- Industry
- Legislators
- Regulators



Funding

- Allocate Money for composting, not just energy creation options
- Continue the Higher Education grants
- Legislation must include financial incentives including resources for the NJDEP
- Make Money available for
 - Community projects
 - Certain types of businesses
 - Certain types of nonprofits



THANK YOU

NJCC:

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