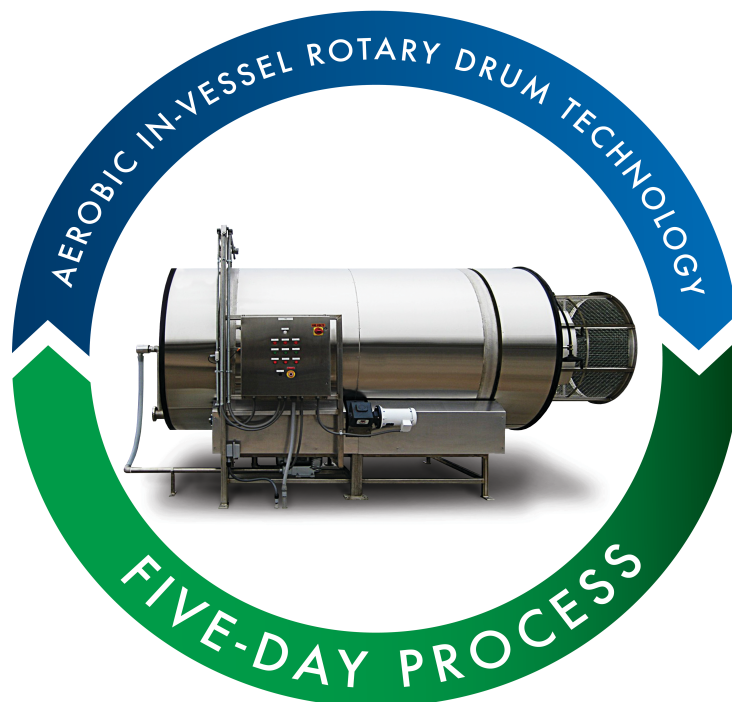


ROI + ROE

RETURN ON INVESTMENT & RETURN ON ENVIRONMENT ANALYSES AND REPORT

prepared for
Large University
October 13, 2017



FOR
SOLUTIONS
FOOD • ORGANICS • RECYCLING



RETURN ON INVESTMENT (ROI) ANALYSIS

Date:	10/13/17
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Model Recommendation	2000
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Generator Information		
Generator:	Large University	
URL:		
Location:		

Contact Information	
Name:	
Title:	
Phone:	
E-Mail:	

Purchase Price:	\$249,900
10-Year Purchase ROI:	321%
20-Year Purchase ROI:	530%
10-Year Purchase Cash Flow:	\$1,367,999
20-Year Purchase Cash Flow:	\$3,528,644
7-Year Lease Payment:	\$3,532.06
10-Year Lease ROI:	280%
20-Year Lease ROI:	489%
10-year Lease Cash Flow:	\$1,320,691
20-year Lease Cash Flow:	\$3,465,066

Discarded Uneaten Food	
Weight:	1,000
Units:	lbs.
Period:	1. day
Load Days/Wk:	7
Avg. Daily Load:	1,000
Annual (tons):	182

Disposal Fees		
Fee	Cost	Frequency
Hauling		
Fee	Cost	Frequency
Tipping		
Fee	Cost	Frequency
Combined	\$150,000	3. Yearly

Total Annual Disposal Costs
\$150,000

Site Prep Costs	
Shelter:	
Concrete Pad:	
Electricity:	
Plumbing:	

Annual Operating Costs	
Electricity (system only):	\$1,400
Water (shelter only):	
Maintenance (system only):	
Bulking Agent/Carbon Source:	\$14,560

Annual Labor Costs	
\$/hr:	
hrs/wk:	
TOTAL:	

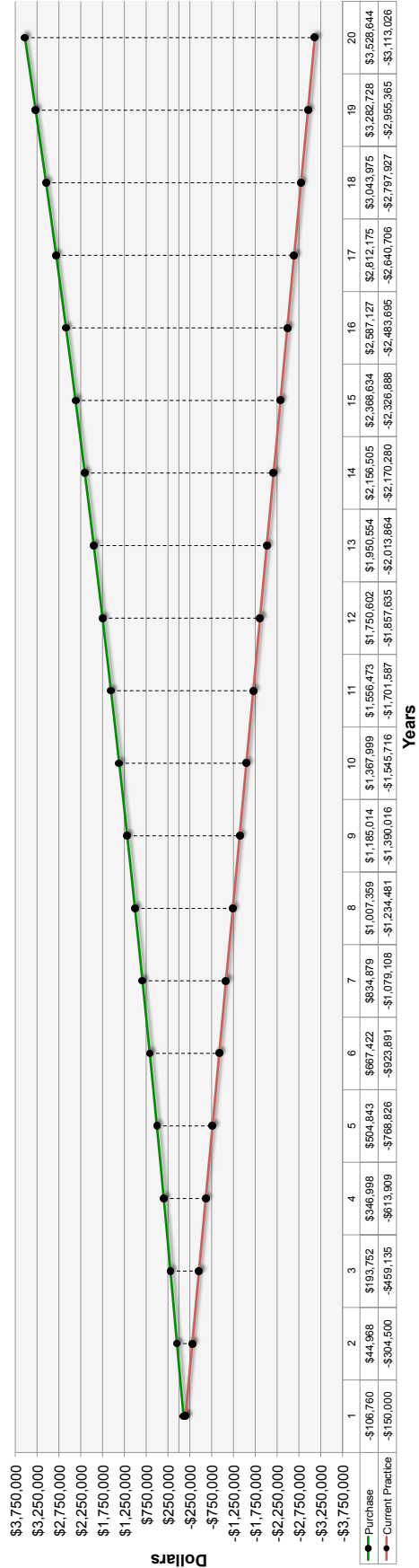
Annual Savings	
Fertilizer:	
Mulch:	
Top Soil:	
Compost:	\$9,100

Annual Revenue - Fees	
Hauling:	
Tipping:	

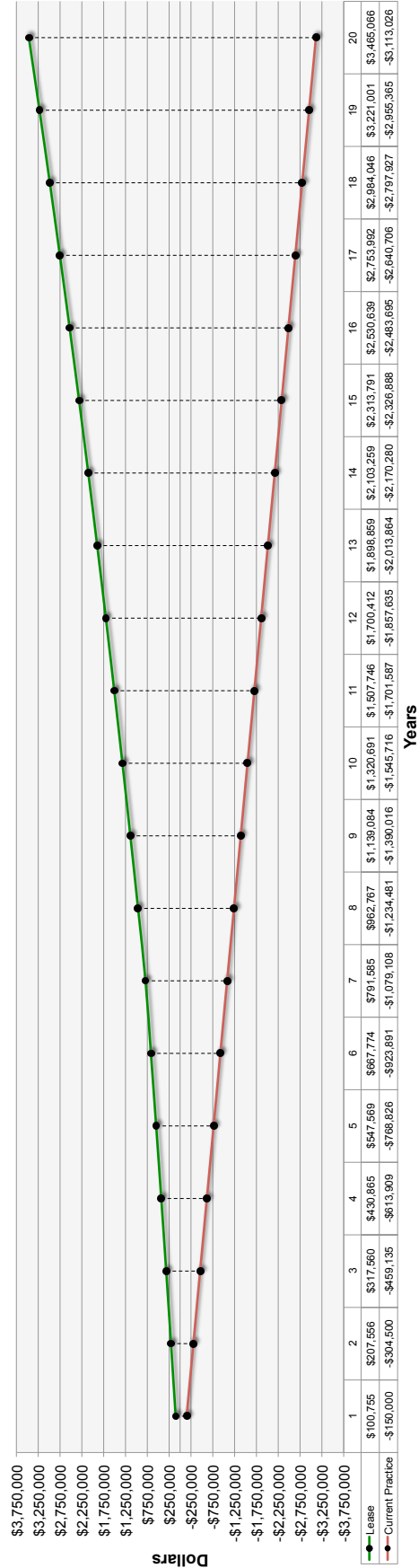
Annual Revenue - Compost Sales			
Wholesale		Retail	
Cubic Yard:		Cubic Yard:	
Packaged:		Packaged:	

This Return On Investment - Return On Environment report is for illustrative purposes only and should not be considered a guarantee of either scenario.

Purchase Cumulative Cash Flow Versus Current Practice: 20-Year Projections



7-Year Lease Cumulative Cash Flow Versus Current Practice: 20-Year Projections





RETURN ON ENVIRONMENT (ROE) ANALYSIS

Discarded Uneaten Food (tons/yr)	182	Potential Compost Production (tons/yr)	182
Disposal Destination	1. landfill	Distance to Disposal Site (miles)	30
Net Annual Emissions, Tons CO ₂ Equivalent (TCO ₂ E)		142	

Effect of Composting on Carbon Storage and Greenhouse Gas Emissions

Net Annual Carbon Storage from Compost Use (TCO ₂ E)	28	
Net Annual Carbon Emissions Reduction (TCO ₂ E)	-30	Negative values = emissions reduction or carbon storage.
Annual Difference from Current Practice (TCO ₂ E)	-190	Negative values = emissions reduction or carbon storage.
Emissions from Number of Passenger Cars Offset	38	
Number of Trees That Would Sequester This Much CO ₂ Annually	7,607	

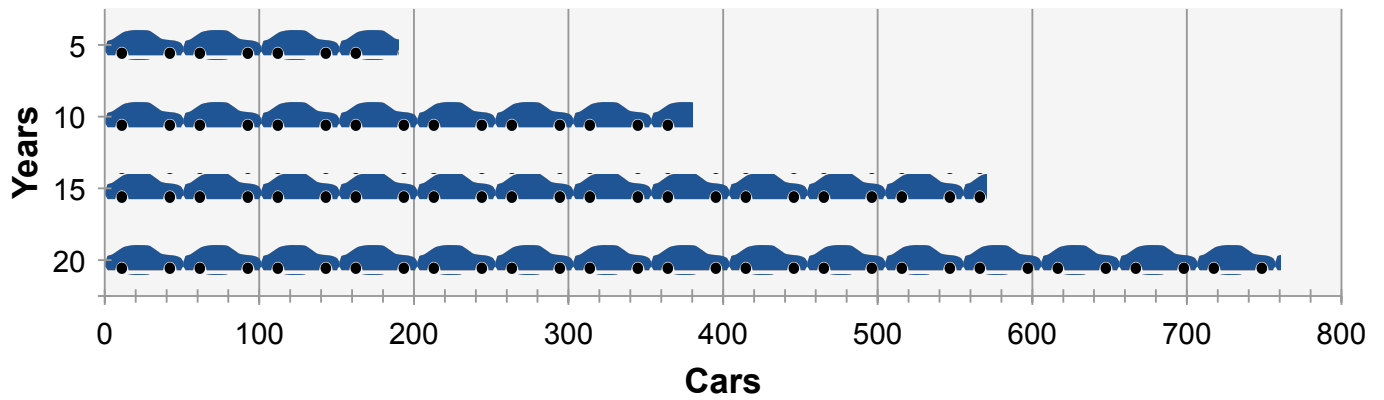
Effect of on-Site Composting on Energy Use (in BTUs)

Annual Energy Use by Current Practice	95,986,800	
Annual Energy Use by FOR Solutions System	44,101,931	Avg. Annual Household Energy Use 38,488,958
Annual Reduction from Current Practice	51,884,869	Household Energy Use Offset 1

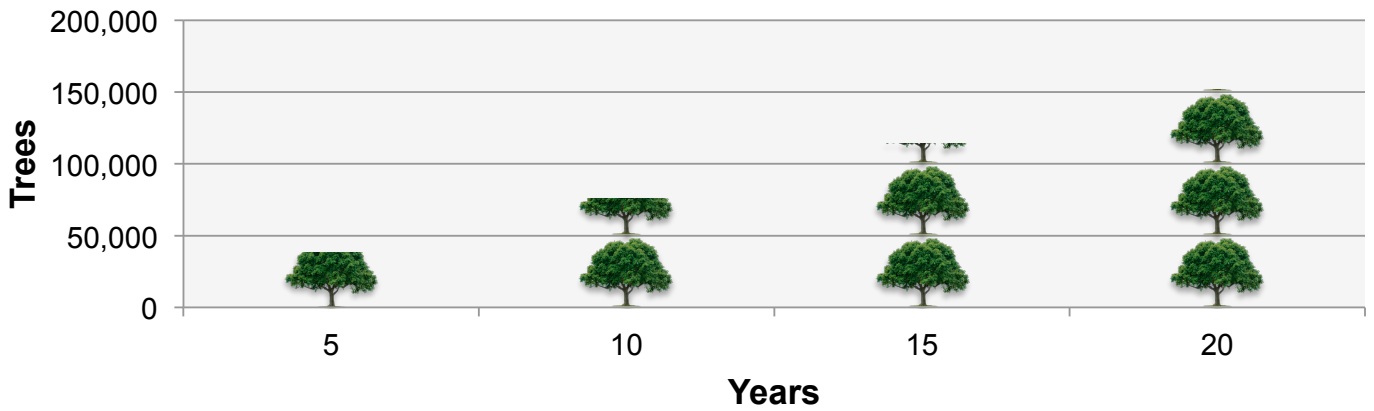
Effect of Compost on Soil Revitalization

Acres of Land That Could be Treated Annually with Compost Generated	9
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Auto Emissions (Tons of CO₂E) Offset Over 20 Years



CO₂ Sequestered by Trees Over 20 Years



Acres of Soil Amended with Compost Over 20 Years

