

LINE #	SCENARIO 1: 100% DEBT FINANCING AT 700 TONS/DAY	
	FACILITY	ESTIMATED PROJECT COST
1	Citywide Recycling- purchase of new vehicles, equipment & reimburse prior purchase	\$ 29,000,000.00
2	MSW Receiving Station	\$ 21,000,000.00
3	Recycling Station	\$ 12,000,000.00
4	Gasification Equipment	\$ 21,000,000.00
5	Power Island (10-20 MW)	\$ 15,000,000.00
6	Steam Compression equipment	\$ 45,000,000.00
7	Construction	\$ 21,000,000.00
8	Civil Engineering	\$ 8,000,000.00
9	Decorative Brick Equipment	\$ 8,000,000.00
10	TOTAL	\$ 180,000,000.00

LINE #	MSWE MONTHLY OPERATING EXPENSES	
	EXPENSE ITEM	MONTHLY COST IN DOLLARS
14	P&I for \$180MM Facility Cost	\$ 1,091,000.00
15	Labor - Steam Compression & Gasification	\$ 117,416.08
16	Labor - Waste Processing (Sorting, Shredding, Recycling) for 700 tons/day	\$ 126,995.73
17	Labor - Power, Logistics, Warehouse, Sales & Management	\$ 151,889.68
18	Labor - Recycling Personnel	\$ 127,878.79
19	Insurance	\$ 41,666.67
20	Maintenance	\$ 316,271.29
21	EPA Permit Renewal Cost	\$ 20,833.33
22	Utilities	\$ 538,621.63
23	Operating Lease Payments to General Fund	\$ 150,000.00
24	Miscellaneous Expenses/Overhead	\$ 150,057.50
25	TOTAL	\$ 2,832,630.70

LINE #	MSWE MONTHLY REVENUE PROJECTIONS	
	REVENUE ITEM	MONTHLY REVENUE IN DOLLARS
29	Recycling Revenue derived from 700 tons MSW @ 341 days per year	\$ 767,951.71
30	Sale of RDF Pellets (RNR Slide 15) (No sale first year)	\$ -
31	Sale of Bricks (RNR Slide 14)	\$ 89,512.50
32	Electricity -- selling @ .09kwh	\$ 736,560.00
33	Labor for Waste Collection Services - transfer from General Fund	\$ 653,333.33
34	Processing Fees @ \$23.00/ton @ 700 tons daily MSW	\$ 457,508.33
35	Processing Fee from other communities @ \$27.50/ton @ 300 tons daily	\$ -
36	Waste Collection Ancillary Service fees - transfer from General Fund	\$ 275,000.00
37	TOTAL	\$ 2,979,865.88

39	<b>Monthly Difference Revenue - Expenses</b>	\$ 147,235.19
41	<b>SAVINGS TO GENERAL FUND</b>	ANNUAL GAIN / (LOSS)
42	Labor - Original Waste Collection Personnel from 2008 budget @ 234 employees	\$ 14,500,000.00
43	Reduced Labor - Existing Personnel (30% reduction of \$11.2M)	\$ (7,840,000.00)
44	<b>Labor Savings to General Fund (line 42 - line 43)</b>	<b>\$ 6,660,000.00</b>
45	Tipping Fees @ (\$27.10/ton) @ 700 tons daily General Fund	\$ 6,468,770.00
46	Processing Fees @ \$23.00/ton @ 700 tons daily MSW	\$ (5,490,100.00)
47	<b>Tipping Fee Savings to General Fund (difference between lines 45 and 46)</b>	<b>\$ 978,670.00</b>
48	Lease paid by MSWE to General Fund {annual payment \$1.8 M for 3 years}	\$ -
49	<b>EPA Disposal Fee 2010 Budget</b>	<b>\$ 1,375,000.00</b>
50	<b>Overhead/Administrative Cost Savings</b>	<b>\$ 681,000.00</b>
51	<b>TOTAL</b>	<b>\$ 9,694,670.00</b>

Item	Scenario 1	Assumptions @ 700 tons/day
1	-- Purchase of remaining vehicles, equipment reimburse prior purchases	
2	-- MSW Receiving Station	
3	-- Recycling Station	
4	-- Gasification Equipment	
5	-- Power Island (10-20 MW)	
6	-- Steam Compression equipment	
7	-- Construction	
8	-- Civil Engineering	
9	-- Decorative Brick Equipment	
10	-- TOTAL	
12	-- MSWE MONTHLY OPERATING EXPENSES	
13	-- EXPENSE ITEM*	
14	Project financing P&I costs. Amount does not include cost for purchase of existing City of Cleveland waste facilities. Cost for waste facilities will be handled as a lease payment to General Fund.	
15	Labor - Steam & Gasification Operations - 12FTE @ 3Shifts @ \$20.76 with 46% Benefits Adder	
16	Labor - Waste Processing Operations - 8 FT @ 2Shifts @ \$20.76 with 46% Benefits Adder Note: Lower MSW tonnage at enables reduced staff for this function	
17	Labor - Power, Logistics, Warehouse, Sales & Management - 10 FTE @ 2Shifts @ \$27.12 with 46% benefit	
18	Labor - Recycling Personnel - 16 FTE's @ 2 Shifts (See NOTE on line 16)	
19	Insurance - Facility and Equipment	
20	Maintenance - Equipment and Labor - 4 FTE @ 2 Shifts @ \$19.08 with 46% Benefits Adder	
21	EPA Permit Renewal Cost	
22	Utilities - Electricity for Parasitic Load, Gasifier Fuel, Water, Sewer	
23	Operating Lease to General Fund	
24	Average Miscellaneous Expenses from original RNR spreadsheet (\$1,800,690 / 12 months)	
29	Recycling - Calculated MSW @ 700 tons daily (36% of total collections)	
30	Sale of RDF Pellets -- Not sold in Year 1.	
31	Sales of Bricks -- Calculated MSW @ 700 tons daily - bricks (at 5% of initial volume)	
32	Electricity Recalculated @ 12 MW @ \$90/MWH	
33	Transfer payment from General Fund for Waste Collection Employees Labor - Amount adjusted to reflected efficiency savings of about 30% due to the automation of waste collection services.	
34	MSW Processing fees charged to the City for 700 tons daily @ \$23.00/ton	
35	Processing fees from other communities (not applicable in this Scenario)	
36	Waste Collection Ancillary Services fees paid by General Fund (assumes no change from today)	
42	Original Labor Costs from 2008 Waste Collection Budget	
43	Reduced labor costs calculated by reducing original Waste Collection labor costs by 30%. A 30% reduction has been taken on the \$11.2M labor cost after backing out \$3.3M for miscellaneous services from the original \$14.5M labor cost. This information was acquired from page 162 of the RNR Feasibility Assessment Report.	
44	Labor savings. The difference between original and reduced labor costs.	
45	Tipping Fees Paid to External Landfills by General Fund - Existing Payment	
46	Tipping Fees Paid to Waste Collection by General Fund - Adjusted Payment	
47	Tipping fee savings. The difference between original and reduced tipping fees	
48	Lease paid by MSWE to General Fund	
49	EPA Disposal fee 2010 Budget	
50	Overhead expense savings due to difference between original amount of \$2.48M and RNR estimate of \$1.8M	
51	TOTAL ANNUAL SAVINGS TO GENERAL FUND	

LINE #	Scenario 2: 100% Debt Financing @ 1000 tons/day	
	FACILITY	ESTIMATED COST
1	Citywide Recycling (purchase of new vehicles & equipment and reimburse prior updated equipment purchases)	\$ 29,000,000.00
2	MSW Receiving Station	\$ 21,000,000.00
3	Recycling Station	\$ 12,000,000.00
4	Gasification Equipment	\$ 21,000,000.00
5	Power Island (10-20 MW)	\$ 15,000,000.00
6	Steam Compression equipment	\$ 45,000,000.00
7	Construction	\$ 21,000,000.00
8	Civil Engineering	\$ 8,000,000.00
9	Decorative Brick Equipment	\$ 8,000,000.00
10	TOTAL	\$ 180,000,000.00

11		
12	MSWE MONTHLY OPERATING EXPENSES	
13	EXPENSE ITEM*	MONTHLY COST IN DOLLARS
14	P&I for \$180MM Facility Cost	\$ 1,091,000.00
15	Labor - Steam Compression & Gasification	\$ 117,416.08
16	Labor - Waste Processing (Sorting, Shredding, Recycling)	\$ 126,995.73
17	Labor - Power, Logistics, Warehouse, Sales & Management	\$ 151,889.68
18	Labor - Recycling Personnel	\$ 175,833.33
19	Insurance	\$ 41,666.67
20	Maintenance	\$ 316,271.29
21	EPA Permit Renewal Cost	\$ 20,833.33
22	Utilities	\$ 538,621.63
23	Operating Lease Payments to General Fund	\$ 150,000.00
24	Miscellaneous Expenses/Overhead	\$ 150,057.50
25	TOTAL	\$ 2,880,585.24

26		
27	MSWE MONTHLY REVENUE PROJECTIONS	
28	REVENUE ITEM	MONTHLY REVENUE IN DOLLARS
29	Recycling Revenue derived from 700 tons MSW @ 341 days per year	\$ 1,096,972.12
30	Sale of RDF Pellets (RNR Slide 15) (No sale first year)	\$ -
31	Sale of Bricks (RNR Slide 14)	\$ 127,875.00
32	Electricity -- selling @ .07kwh to CPP	\$ 954,800.00
33	Labor for Waste Collection Services- transfer from General Fund	\$ 653,333.33
34	Processing Fees @ \$23.00/ton @ 700 tons daily MSW	\$ 457,508.33
35	Processing Fee from other communities @ \$27.50/ton @ 300 tons daily	\$ 234,437.50
36	Waste Collection Ancillary Service fees - transfer from General Fund	\$ 125,000.00
37	TOTAL	\$ 3,649,926.29

38		
39	<b>Monthly Difference Revenue - Expenses</b>	\$ 769,341.05
40		

41	<b>SAVINGS TO GENERAL FUND</b>	<b>ANNUAL GAIN / (LOSS)</b>
42	Labor - Original Waste Collection Personnel from 2008 budget	\$ 14,500,000.00
43	Reduced Labor - Existing Personnel (30% reduction of \$11.2M)	\$ 7,840,000.00
44	<b>Labor Savings to General Fund (line 42 - line 43)</b>	<b>\$ 6,660,000.00</b>
45	Tipping Fees @ (\$27.10/ton) @ 700 tons daily General Fund	\$ 6,468,770.00
46	Processing Fees @ \$23.00/ton for 1000 tons daily MSW	\$ 5,490,100.00
47	<b>Tipping Fee Savings to General Fund (difference between lines 45 and 46)</b>	<b>\$ 978,670.00</b>
48	Lease fee paid to General Fund (Annual payment \$1.8Million)	\$ -
49	<b>EPA Disposal Fee 2010 Budget</b>	<b>\$ 1,375,000.00</b>
50	<b>Overhead/Administrative Cost Savings</b>	<b>\$ 681,000.00</b>
51	<b>TOTAL</b>	<b>\$ 9,694,670.00</b>

Item	Scenario 2	Assumptions @ 1000 tons/day
1	-- Citywide Recycling purchase of remaining vehicles, equipment includes reimbursement for prior purchase	
2	-- MSW Receiving Station	
3	-- Recycling Station	
4	-- Gasification Equipment	
5	-- Power Island (10-20 MW)	
6	-- Steam Compression equipment	
7	-- Construction	
8	-- Civil Engineering	
9	-- Decorative Brick Equipment	
10	-- TOTAL	
12	-- MSWE MONTHLY OPERATING EXPENSES	
13	-- EXPENSE ITEM*	
14	Project financing P&I costs. Amount does not include cost for existing City of Cleveland waste facilities. Cost for waste facilities will be handled as a lease payment to General Fund.	
15	Labor - Steam & Gasification Operations - 12FTE @ 3Shifts @ \$20.76 with 46% Benefits Adder	
16	Labor - Waste Processing Operations - 10 FT@ 2Shifts @ \$20.76 with 46% Benefits Adder	
17	Labor - Power, Logistics, Warehouse, Sales & Management - 10 FTE @ 2Shifts @ \$27.12 with 46% Benefits Adder	
18	Labor - Recycling Personnel - 22 FTE's @ 2 Shifts	
19	Insurance - Facility and Equipment	
20	Maintenance - Equipment and Labor - 4 FTE @ 2 Shifts @ \$19.08 with 46% Benefits Adder	
21	EPA Permit Renewal Cost	
22	Utilities - Electricity for Parasitic Load, Gasifier Fuel, Water, Sewer	
23	Operating Lease to General Fund	
24	Miscellaneous Expenses taken directly from original RNR spreadsheet (\$1,800,690 / 12 months)	
29	Recycling - Calculated MSW @ 700 tons daily	
30	Sale of RDF Pellets -- Not sold in Year 1.	
31	Sales of Bricks -- Calculated MSW @ 700 tons daily - bricks	
32	Electricity -- @ 20 MW @ \$70/MWH	
33	Transfer payment from General Fund for Waste Collection Employees Labor - Amount adjusted to reflected efficiency savings of about 30% due to the automation of waste collection services.	
34	Processing fees for 700 tons daily @ \$23.00	
35	Processing fees from other communities. 300 tons/day @ 27.50 / ton.	
36	DPS Waste Collection Ancillary Service (replace with line from other document)	
42	Original Labor Costs from 2008 Budget	
43	Reduced labor costs calculated by reducing original Waste Collection labor costs by 30%. A 30% reduction has been taken on the \$11.2M labor cost after backing out \$3.3M for miscellaneous services from the original \$14.5M labor cost. This information was acquired from page 162 of the RNR Feasibility Assessment Report.	
44	Labor savings. The difference between original and reduced labor costs.	
45	Tipping Fees Paid to External Landfills by General Fund - Existing Payment	
46	Tipping Fees Paid to Waste Collection by General Fund - Adjusted Payment	
47	Tipping fee savings. The difference between original and reduced tipping fees	
48	Lease paid by MSWE to General Fund	
49	EPA Disposal fee 2010 Budget	
50	Overhead expense savings due to difference between original amount of \$2.48M and RNR estimate of \$1.8M	
51	TOTAL ANNUAL SAVINGS TO GENERAL FUND	