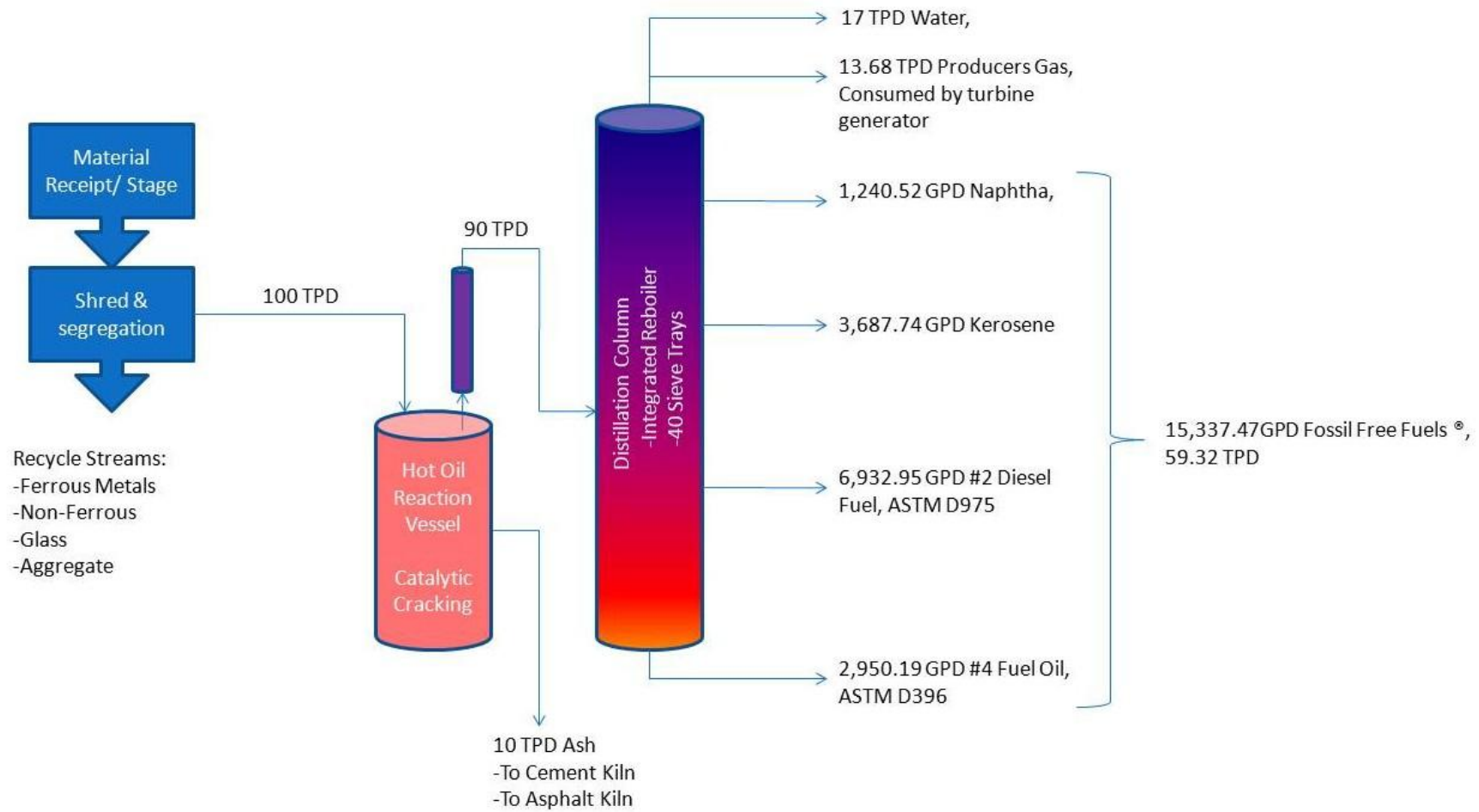
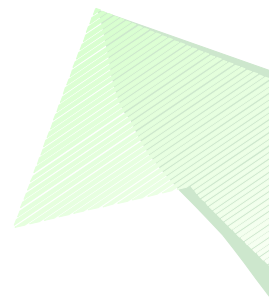


Simplified Block Flow Diagram: Catalytic Depolymerization



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	US EPA (MJ/kg)	Input Material MSW in Tons	Fuel Value in MJ	Fuel value in BTU	Gallons in Fuel average 138,000 BTU	Gallons per ton	pounds of Diesel
Newspaper, Office Paper, corr Boxes	17.78	42	746,760.0000	707,791,897.5960	5128.926794	122.1173046	891.4563237
Al Cans	-0.74	0	0.0000	0.0000	0	0	0
Steel Cans	-0.42	0	0.0000	0.0000	0	0	0
Glass	-0.53	0	0.0000	0.0000	0	0	0
HDPE	39.46	9	355,140.0000	336,607,764.8940	2439.186702	271.0207447	1978.451436
LDPE	39.46	15	591,900.0000	561,012,941.4900	4065.31117	271.0207447	1978.451436
PET	27.75	4	111,000.0000	105,207,698.1000	762.3746239	190.593656	1391.333689
Food Scraps	18.79	8	150,320.0000	142,475,866.4720	1032.433815	129.0542269	942.0958562
Grass	7.2	2	14,400.0000	13,648,566.2400	98.90265391	49.45132696	360.9946868
Leaves	11.36	2	22,720.0000	21,534,404.5120	156.0464095	78.02320475	569.5693947
Branches	16.5	2	33,000.0000	31,277,964.3000	226.6519152	113.3259576	827.2794905
Yard Trimmings	13.5	5	67,500.0000	63,977,654.2500	463.6061902	92.72123804	676.8650377
Screenings	9.84	2	19,680.0000	18,653,040.5280	135.1669603	67.58348017	493.3594053
Textiles	16.29	7	114,030.0000	108,079,583.9130	783.1853907	111.8836272	816.7504788
Miscellaneous Combustibles	15.63	2	31,260.0000	29,628,762.5460	214.7011779	107.3505889	783.6592992
Total per day	231.87	100	2,257,710.0000	2,139,896,144.8410	15506.4938	155.064938	1131.974048
Total per Hour	9.66125	4.166666667	94071.25	89162339.37	646.1039085	6.461039085	47.16558532
Non Condensables per day	30	13.68121032	410,436.3097	389,018,552.7817	2818.97502	206.0471957	1504.144528
Non Condensables per Hour	1.25	0.57005043	17101.5129	16209106.37	117.4572925	8.585299819	62.67268868
<i>used by system at 1,5MW/h max load per day</i>			<i>435,045.9598</i>	<i>412,344,000.0000</i>	<i>2988</i>		

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Waste to Fuel

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Fuel left for Sale

2,233,100.3499 2,116,570,697.6227 15337.46882

Density of Diesel = 950 kg/m³

Density of Kerosene = 817 kg/m³

Density of Fuel oil = 890 kg/m³

Density of Naphtha = 664 kg/m³

1 gallon = 4.0 liters

	MJ	BTU	Gallons	Kilo Grams	Tons
Naphtha	178,648.0280	169,325,655.8098	1240.519504	3744.562706	3.744562706
Kerosene	536,926.7150	508,908,321.9001	3687.741463	13696.57419	13.69657419
Diesel	1,009,422.2242	956,747,645.1722	6932.953951	29941.34823	29.94134823
Fuel oil	429,541.3720	407,126,657.5201	2950.19317	11936.30456	11.93630456
Water				17000	17
Producer gas	410,436.3097	389,018,552.7817	2818.97502	13681.21032	13.68121032
Total output from distillation column	2,257,710.0000		17630.38311	90000	90

Ash calculated at

10%

Ton

10

Total into Column

90

NanoDiesel

Material balance

Input in Ton
minus
Output in Ton
Ash in Ton
Equals loss/ Gain

100
90
10
0

Energy balance:

Calorific values,

Producer gas----
Naphtha ----
Kerosene-----
Diesel-----
Fuel oil-----

<i>MJ</i>	<i>Tons</i>	<i>BTU</i>
410,436.3097	13.68121032	389,018,552.7817
178,648.0280	3.744562706	169,325,655.8098
536,926.7150	13.69657419	508,908,321.9001
1,009,422.2242	29.94134823	956,747,645.1722
429,541.3720	11.93630456	407,126,657.5201
2,564,974.6488	73.0000	2,431,126,833.1840
35,136.6390		33,303,107.3039

Total Energy:

Total Energy per Ton:

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Waste to Fuel

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ManoDiesel