

Bees Ferry with RRF Proforma

RRF: 20 yr extension

LF: Bees Ferry (MSW, Ash)

Model Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiscal Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
County Waste Quantities																
Amount of MSW (tons/year)	310,271	312,753	315,255	317,777	320,319	322,882	325,465	328,069	330,694	333,340	336,007	338,695	341,405	344,136	346,889	349,664
Amount of C&D Waste (tons/year)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
Total (tons/year)	410,271	412,753	415,255	417,777	420,319	422,882	425,465	428,069	430,694	433,340	436,007	438,695	441,405	444,136	446,889	449,664
Debt Service																
Series 1997 Bonds (levelized using County data)	7,857,170	8,310,970	8,448,580	8,452,100	8,451,140	8,447,557	8,450,307	8,449,327	8,469,832							
Series 1994 Bonds	2,003,880	2,007,580	2,007,305	2,002,945	2,004,390	2,005,950	2,002,825	2,003,325	2,007,000	2,007,000	2,006,600	2,005,500	2,003,400			
RRF Proforma																
Throughput (tons / year)																
Tons MSW to RRF (tons/year)	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	200,000	175,550	175,550	175,550	175,550	175,550	175,550	175,550
Tons ash residue generated (tons/year)	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000
Tons ferrous metal recovered (tons/year)	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270	270
Tons ash residue disposed (tons/year)	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730
Costs (\$/year)																
O&M costs (\$/year)	7,100,000	7,242,000	7,386,840	7,534,577	7,685,268	7,838,974	7,995,753	8,155,668	8,318,782	8,090,777	8,252,592	8,417,644	8,585,997	8,757,717	8,932,871	9,111,529
Out-of-County Ash Disposal Costs (\$/year)	1,450,710	1,486,978	1,524,152	1,562,256	800,656	-	-	-	-	-	-	-	-	-	-	-
Incremental Ash Hauling Costs (\$/year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other (specified below):	none	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total RRF Annual Costs (\$)	8,550,710	8,728,978	8,910,992	9,096,833	8,485,925	7,838,974	7,995,753	8,155,668	8,318,782	8,090,777	8,252,592	8,417,644	8,585,997	8,757,717	8,932,871	9,111,529
NPV of Total RRF Annual Costs	135,359,959															
Debt Service (\$)																
Series 1997 Bonds	7,857,170	8,310,970	8,448,580	8,452,100	8,451,140	8,447,557	8,450,307	8,449,327	8,469,832							
Total Annual Debt Service	7,857,170	8,310,970	8,448,580	8,452,100	8,451,140	8,447,557	8,450,307	8,449,327	8,469,832							
NPV Total Annual Debt Service	59,382,507															
Revenues (\$)																
Contractual Electric Power Revenue	2,602,368	2,753,568	2,911,680	3,086,640	3,280,176	3,494,880	3,734,208	3,860,352	1,273,916	-	-	-	-	-	-	-
Projected Electric Power Revenue	-	-	-	-	-	-	-	-	1,403,870	2,116,281	2,137,444	2,158,818	2,180,406	2,202,210	2,224,233	2,246,475
Steam Revenue	3,064,350	3,079,672	3,095,070	3,110,545	3,126,098	3,141,729	3,157,437	3,173,225	1,594,545	-	-	-	-	-	-	-
Projected Steam Revenue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Ferrous Metal Revenue	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merchant Waste Revenue	-	-	-	-	-	-	-	-	-	1,297,725	1,330,168	1,363,422	1,397,508	1,432,445	1,468,256	1,504,963
Total RRF Annual Revenues (\$)	5,666,718	5,833,240	6,006,750	6,197,185	6,406,274	6,636,609	6,891,645	7,033,577	4,272,331	3,414,006	3,467,612	3,522,240	3,577,914	3,634,656	3,692,489	3,751,438
NPV Total RRF Annual Revenues	74,013,473															
RRF Net Annual Cost	10,741,162	11,206,708	11,352,822	11,351,747	10,530,790	9,649,922	9,554,415	9,571,419	12,516,283	4,676,771	4,784,981	4,895,404	5,008,083	5,123,061	5,240,382	5,360,091
NPV RRF Net Annual Cost	120,728,993															
Landfill Proforma																
Throughput																
Tons MSW disposed at County Landfill (tons/year)	60,007	62,086	64,183	66,297	68,428	70,575	72,739	74,921	77,122	103,790	106,024	108,277	110,547	112,836	115,143	117,468
Tons MSW disposed at Out-of-County Landfill (tons/year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total tons MSW disposed at Landfill (tons/year)	60,007	62,086	64,183	66,297	68,428	70,575	72,739	74,921	77,122	103,790	106,024	108,277	110,547	112,836	115,143	117,468
Tons Ash disposed at County Landfill (tons/year)	-	-	-	-	26,865	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730
Tons C&D managed by County (tons/year)	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
Tons Tires recycled by County (tons/year)	3,103	3,128	3,153	3,178	3,203	3,229	3,255	3,281	3,307	3,333	3,360	3,387	3,414	3,441	3,469	3,497
Total Tons Managed at Landfills (tons/year)	163,110	165,214	167,336	169,475	198,496	227,534	229,724	231,932	199,159	225,853	228,114	230,394	232,691	235,007	237,342	239,695
Capacity																
Future MSW disposed in County (yd3)	-	-	-	-	57,023	117,625	121,232	124,869	128,537	172,983	176,707	180,462	184,245	188,059	191,905	195,781
Future Ash disposed in County (yd3)	-	-	-	-	22,388	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775
Cumulative Capacity Consumed Per Cell (yd3)	-	-	-	-	79,411	241,811	407,818	577,462	205,274	423,032	644,513	324,250	553,270	240,604	477,284	717,840
Cumulative Total Landfill Capacity Consumed - FIRST LANDFILL (yd3)	-	-	-	-	79,411	241,811	407,818	577,462	750,774	968,532	1,190,013	1,415,250	1,644,270	1,877,104	2,113,784	2,354,340
MSW/Ash Capacity Check:	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	OK
Total Capacity Available:																
Bees Ferry MSW/Ash: 5,000,000 yd3																
17 South MSW/Ash: 14,000,000 yd3																
Cumulative C&D managed by County (yd3)	200,000	400,000	600,000	800,000	1,000,000	1,200,000	1,400,000	1,600,000	1,730,000	1,860,000	1,990,000	2,120,000	2,250,000	2,380,000	2,510,000	2,640,000
C&D Capacity Check:	OK	OK	OK	OK	OK	OK	OK	OK	exceeds	exceeds	exceeds	exceeds	exceeds	exceeds	exceeds	exceeds
Total Capacity Available:									estimated	estimated	estimated	estimated	estimated	estimated	estimated	estimated

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Model Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiscal Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Bees Ferry C&D: 1,600,000 yd3																
Costs (\$/year)																
O&M costs (\$/year)																
Existing MSW Landfill (\$/year)	660,080	700,025	741,760	785,344	415,423	-	-	-	-	-	-	-	-	-	-	-
Future MSW Landfill (\$/year)	-	-	-	-	811,302	1,663,170	1,704,749	1,747,368	1,791,052	1,835,829	1,881,724	1,928,767	1,976,987	2,026,411	2,077,072	2,128,998
Tire Recycling Operation (\$/year)	175,000	179,375	183,859	188,456	193,167	197,996	202,946	208,020	213,221	218,551	224,015	229,615	235,356	241,239	247,270	253,452
C&D Landfill (\$/year)	1,100,000	1,127,500	1,155,688	1,184,580	1,214,194	1,244,549	1,275,663	1,307,554	-	-	-	-	-	-	-	-
Total O&M Costs (\$/year)	1,935,080	2,006,900	2,081,307	2,158,379	2,634,087	3,105,716	3,183,358	3,262,942	2,004,273	2,054,380	2,105,739	2,158,383	2,212,342	2,267,651	2,324,342	2,382,450
Construction, Closure, and Post-Closure Costs (\$/year)																
Bees Ferry Existing MSW Landfill Closure Cost (\$/year)	-	-	-	-	4,371,099	4,480,377	-	-	-	-	-	-	-	-	-	-
Bees Ferry Existing MSW Landfill Post-Closure Cost (\$/year)	-	-	-	-	-	96,170	98,574	101,038	103,564	106,153	108,807	111,527	114,316	117,173	120,103	123,105
Bees Ferry C&D Landfill Closure Cost (\$/year)	-	-	-	-	-	-	-	-	2,680,486	-	-	-	-	-	-	-
Bees Ferry C&D Landfill Post-Closure Cost (\$/year)	-	-	-	-	-	-	-	-	-	27,475	28,162	28,866	29,588	30,327	31,085	31,863
Romney Street Post Closure Care (\$/year)	45,208	46,339	47,497	48,684	49,902	51,149	52,428	53,739	55,082	56,459	57,870	59,317	60,800	62,320	63,878	65,475
Bees Ferry Ash Monofill Post Closure Care (\$/year)	15,040	15,416	15,801	16,196	16,601	17,016	17,442	17,878	18,325	18,783	19,252	19,734	20,227	20,733	21,251	21,782
Future Landfill Initial Construction Cost (\$/year)	-	-	-	3,650,659	-	-	-	-	-	-	-	-	-	-	-	-
Future Landfill Cell Construction Cost (\$/year)	-	-	-	-	-	-	-	2,139,634	-	-	2,304,152	-	2,420,800	-	-	2,606,937
Future Landfill Cell Closure Cost (\$/year)	-	-	-	-	-	-	-	-	1,096,563	-	-	1,180,878	-	1,240,660	-	-
Future Landfill Post-Closure Cost (\$/year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Construction, Closure, and Post-Closure Costs (\$/year)	60,248	61,755	63,298	3,715,540	4,437,602	4,644,712	168,444	2,312,289	3,954,020	208,870	2,518,244	1,400,322	2,645,730	1,471,214	236,318	2,849,162
Out-of-County Disposal Costs (\$/year)																
MSW Disposal (\$/year)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
C&D Disposal (\$/year)	-	-	-	-	-	-	-	-	1,979,905	2,029,402	2,080,137	2,132,141	2,185,444	2,240,080	2,296,082	2,353,485
Total Out-of-County Disposal Costs (\$/year)	-	-	-	-	-	-	-	-	1,979,905	2,029,402	2,080,137	2,132,141	2,185,444	2,240,080	2,296,082	2,353,485
Total Landfill Annual Costs (\$)	1,995,329	2,068,654	2,144,605	5,873,919	7,071,689	7,750,427	3,351,802	5,575,231	7,938,197	4,292,652	6,704,121	5,690,846	7,043,517	5,978,945	4,856,742	7,585,097
NPV of Total Landfill Annual Costs	91,718,469															

Bees Ferry with RRF Proforma

RRF: 20 yr extension

LF: Bees Ferry (MSW, Ash)

Model Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiscal Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Debt Service																
Series 1994 Bonds	1,563,026	1,565,912	1,565,698	1,562,297	1,563,424	1,564,641	1,562,204	1,562,594	1,565,460	1,565,460	1,565,148	1,564,290	1,562,652	-	-	-
Total Annual Debt Service(\$)	1,563,026	1,565,912	1,565,698	1,562,297	1,563,424	1,564,641	1,562,204	1,562,594	1,565,460	1,565,460	1,565,148	1,564,290	1,562,652	-	-	-
NPV of Total Annual Debt Service	14,692,175															
Revenues (\$)																
C&D Waste Tipping Fee Revenues (\$/year)	875,000	901,250	928,288	956,136	984,820	1,014,365	1,044,796	1,076,140	-	-	-	-	-	-	-	-
Tire Tipping Fee Revenues (\$/year)	325,000	334,750	344,793	355,136	365,790	376,764	388,067	399,709	411,700	424,051	436,773	449,876	463,372	477,273	491,592	506,339
DHEC Tire Refunds Revenue (\$/year)	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000	135,000
Total Landfill Annual Revenues (\$)	1,335,000	1,371,000	1,408,080	1,446,272	1,485,611	1,526,129	1,567,863	1,610,849	546,700	559,051	571,773	584,876	598,372	612,273	626,592	641,339
NPV Total Landfill Annual Revenues	15,229,369															
Landfill Net Annual Cost	2,223,355	2,263,566	2,302,223	5,989,944	7,149,503	7,788,939	3,346,143	5,526,977	8,956,957	5,299,061	7,697,496	6,670,260	8,007,796	5,366,671	4,230,150	6,943,758
NPV Landfill Net Annual Cost	91,181,275															

Recycling Proforma

Throughput																
County Tons Recyclables to MRF	13,031	13,136	13,241	13,347	13,453	13,561	13,670	13,779	13,889	14,000	14,112	14,225	14,339	14,454	14,569	14,686
Out-of-County Tons Recyclables to MRF	3,200	3,216	3,232	3,248	3,264	3,281	3,297	3,314	3,330	3,347	3,364	3,380	3,397	3,414	3,431	3,449
Total Tons Recyclables to MRF	16,231	16,352	16,473	16,595	16,717	16,842	16,967	17,093	17,219	17,347	17,476	17,605	17,736	17,868	18,000	18,135
Recycling Costs																
Curbside Collection	981,000	1,005,525	1,030,663	1,056,430	1,082,840	1,109,911	1,137,659	1,166,101	1,195,253	1,225,135	1,255,763	1,287,157	1,319,336	1,352,319	1,386,127	1,420,781
Drop Sites O&M	517,000	529,925	543,173	556,752	570,671	584,938	599,561	614,551	629,914	645,662	661,804	678,349	695,308	712,690	730,507	748,770
MRF O&M	1,360,000	1,394,000	1,428,850	1,464,571	1,501,186	1,538,715	1,577,183	1,616,613	1,657,028	1,698,454	1,740,915	1,784,438	1,829,049	1,874,775	1,921,644	1,969,686
Total Recycling Annual Costs (\$)	2,858,000	2,929,450	3,002,686	3,077,753	3,154,697	3,233,565	3,314,404	3,397,264	3,482,195	3,569,250	3,658,482	3,749,944	3,843,692	3,939,785	4,038,279	4,139,236
NPV Total Recycling Annual Costs	57,483,852															
Debt Service																
Series 1994 Bonds	380,737	381,440	381,388	380,560	380,834	381,131	380,537	380,632	381,330	381,330	381,254	381,045	380,646	-	-	-
Total Annual Debt Service(\$)	380,737	381,440	381,388	380,560	380,834	381,131	380,537	380,632	381,330	381,330	381,254	381,045	380,646	-	-	-
NPV Total Annual Debt Service	3,578,864															
Revenues																
Recyclables Sales	1,119,939	1,128,288	1,136,643	1,145,072	1,153,506	1,162,084	1,170,737	1,179,396	1,188,129	1,196,937	1,205,820	1,214,777	1,223,809	1,232,917	1,242,030	1,251,286
Tipping Fees	38,400	38,978	39,565	40,160	40,764	41,378	42,001	42,633	43,274	43,926	44,587	45,258	45,939	46,630	47,332	48,044
Total Annual Revenues (\$)	1,158,339	1,167,266	1,176,207	1,185,232	1,194,271	1,203,462	1,212,738	1,222,029	1,231,403	1,240,863	1,250,406	1,260,035	1,269,748	1,279,547	1,289,362	1,299,331
NPV Total Annual Revenues	19,071,640															
Recycling Net Annual Cost	2,080,398	2,143,624	2,207,867	2,273,082	2,341,261	2,411,233	2,482,203	2,555,867	2,632,122	2,709,718	2,789,329	2,870,954	2,954,590	2,660,238	2,748,918	2,839,905
NPV Recycling Net Annual Cost	41,991,075															

Transfer Station Proforma

Throughput																
Tons MSW to Transfer Station	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tons C&D to Transfer Station	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Costs																
O&M Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hauling Costs - MSW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hauling Costs - C&D	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Construction Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Transfer Station Annual Costs (\$)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPV Total Annual Transfer Station Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Debt Service																
Total Annual Debt Service Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPV Total Annual Debt Service	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Revenues																
Transfer Station Tipping Fee Revenues	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Annual Revenues (\$)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPV Total Annual Revenues	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Transfer Station Net Annual Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NPV Transfer Station Net Annual Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Yard Waste Composting Proforma

Bees Ferry with RRF Proforma

RRF: 20 yr extension

LF: Bees Ferry (MSW, Ash)

Model Year Fiscal Year	1 2002	2 2003	3 2004	4 2005	5 2006	6 2007	7 2008	8 2009	9 2010	10 2011	11 2012	12 2013	13 2014	14 2015	15 2016	16 2017
Throughput																
Tons MSW to Composting	34,130	34,403	34,678	34,955	35,235	35,517	35,801	36,088	36,376	36,667	36,961	37,256	37,555	37,855	38,158	38,463
Costs																
O&M Costs	801,500	821,538	842,076	863,128	884,706	906,824	929,494	952,732	976,550	1,000,964	1,025,988	1,051,637	1,077,928	1,104,877	1,132,499	1,160,811
Total Annual Composting Costs	801,500	821,538	842,076	863,128	884,706	906,824	929,494	952,732	976,550	1,000,964	1,025,988	1,051,637	1,077,928	1,104,877	1,132,499	1,160,811
NPV Total Annual Composting Costs	16,120,821															
Debt Service																
Series 1994 Bonds	60,116	60,227	60,219	60,088	60,132	60,179	60,085	60,100	60,210	60,210	60,198	60,165	60,102	-	-	-
Total Annual Debt Service Costs	60,116	60,227	60,219	60,088	60,132	60,179	60,085	60,100	60,210	60,210	60,198	60,165	60,102	-	-	-
NPV Total Annual Debt Service	565,083															
Revenues																
Composting, Mulch, Firewood Revenues	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000
Total Annual Revenues (\$)	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000
NPV Total Annual Revenues	923,605															
Composting Net Annual Cost	800,616	820,765	841,295	862,216	883,836	906,003	928,579	951,832	975,760	1,000,174	1,025,186	1,050,802	1,077,030	1,043,877	1,071,499	1,099,811
NPV Composting Net Annual Cost	15,762,299															

Bees Ferry with RRF Proforma

RRF: 20 yr extension

LF: Bees Ferry (MSW, Ash)

Model Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiscal Year	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Other System Components Proforma																
<u>Solid Waste Administration</u>																
Annual Administration Costs	1,640,000	1,681,000	1,723,025	1,766,101	1,810,253	1,855,509	1,901,897	1,949,445	1,998,181	2,048,135	2,099,339	2,151,822	2,205,618	2,260,758	2,317,277	2,375,209
NPV Net Annual Cost	32,985,835															
<u>Rural Convenience Centers</u>																
Annual Convenience Center Costs	1,552,600	1,591,415	1,631,200	1,671,980	1,713,780	1,756,624	1,800,540	1,845,554	1,891,692	1,938,985	1,987,459	2,037,146	2,088,074	2,140,276	2,193,783	2,248,628
NPV Net Annual Cost	31,227,931															
<u>Household Hazardous Wastes</u>																
Annual HHW Costs	227,300	232,983	238,807	244,777	250,897	257,169	263,598	270,188	276,943	283,867	290,963	298,237	305,693	313,336	321,169	329,198
NPV Net Annual Cost	4,571,756															
<u>Litter Program</u>																
Annual Litter Program Costs	111,900	114,698	117,565	120,504	123,517	126,605	129,770	133,014	136,339	139,748	143,241	146,822	150,493	154,255	158,112	162,065
NPV Net Annual Cost	2,250,680															
Other Systems Net Annual Costs	3,531,800	3,620,095	3,710,597	3,803,362	3,898,446	3,995,908	4,095,805	4,198,200	4,303,155	4,410,734	4,521,003	4,634,028	4,749,878	4,868,625	4,990,341	5,115,099
NPV Other Systems Net Annual Cost	71,036,203															

Summary of Total System Costs

RRF Total Annual Net Cost	10,741,162	11,206,708	11,352,822	11,351,747	10,530,790	9,649,922	9,554,415	9,571,419	12,516,283	4,676,771	4,784,981	4,895,404	5,008,083	5,123,061	5,240,382	5,360,091
Landfill Total Annual Net Cost	2,223,355	2,263,566	2,302,223	5,989,944	7,149,503	7,788,939	3,346,143	5,526,977	8,956,957	5,299,061	7,697,496	6,670,260	8,007,796	5,366,671	4,230,150	6,943,758
Recycling Total Annual Net Cost	2,080,398	2,143,624	2,207,867	2,273,082	2,341,261	2,411,233	2,482,203	2,555,867	2,632,122	2,709,718	2,789,329	2,870,954	2,954,590	2,660,238	2,748,918	2,839,905
Transfer Station Total Annual Net Cost	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Composting Total Annual Net Cost	800,616	820,765	841,295	862,216	883,838	906,003	928,579	951,832	975,760	1,000,174	1,025,186	1,050,802	1,077,030	1,043,877	1,071,499	1,099,811
Other System Components Total Annual Net Cost	3,531,800	3,620,095	3,710,597	3,803,362	3,898,446	3,995,908	4,095,805	4,198,200	4,303,155	4,410,734	4,521,003	4,634,028	4,749,878	4,868,625	4,990,341	5,115,099
Total Annual Net Cost - All Components	19,377,331	20,054,758	20,414,805	24,280,351	24,803,838	24,752,005	20,407,145	22,804,295	29,384,277	18,096,457	20,817,994	20,121,447	21,797,378	19,062,472	18,281,290	21,358,664
NPV Total Cost	340,699,845															

17 2018	18 2019	19 2020	20 2021	21 2022	22 2023	23 2024	24 2025	25 2026	26 2027	27 2028	28 2029	29 2030
352,461	355,281	358,123	360,988	363,876	366,787	369,721	372,679	375,660	378,665	381,694	384,748	387,826
100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000
452,461	455,281	458,123	460,988	463,876	466,787	469,721	472,679	475,660	478,665	481,694	484,748	487,826
175,550	175,550	175,550	175,550	175,550	175,550	175,550	175,550	175,550	175,550	175,550	175,550	87,775
54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	54,000	27,000
270	270	270	270	270	270	270	270	270	270	270	270	135
53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	26,865
9,293,759	9,479,634	9,669,227	9,862,612	10,059,864	10,261,061	10,466,282	10,675,608	10,889,120	11,106,903	11,329,041	11,555,621	5,893,367
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
9,293,759	9,479,634	9,669,227	9,862,612	10,059,864	10,261,061	10,466,282	10,675,608	10,889,120	11,106,903	11,329,041	11,555,621	5,893,367
-	-	-	-	-	-	-	-	-	-	-	-	-
2,268,940	2,291,629	2,314,545	2,337,691	2,361,068	2,384,678	2,408,525	2,432,610	2,456,937	2,481,506	2,506,321	2,531,384	1,278,349
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
1,542,587	1,581,152	1,620,680	1,661,197	1,702,727	1,745,295	1,788,928	1,833,651	1,879,492	1,926,480	1,974,642	2,024,008	1,037,304
3,811,527	3,872,781	3,935,226	3,998,888	4,063,795	4,129,974	4,197,453	4,266,262	4,336,429	4,407,986	4,480,963	4,555,392	2,315,653
5,482,233	5,606,854	5,734,001	5,863,723	5,996,069	6,131,087	6,268,829	6,409,347	6,552,691	6,698,917	6,848,078	7,000,230	3,577,714
119,812	122,175	124,557	126,958	129,378	131,817	134,277	136,754	139,252	141,771	144,310	146,870	237,223
-	-	-	-	-	-	-	-	-	-	-	-	-
119,812	122,175	124,557	126,958	129,378	131,817	134,277	136,754	139,252	141,771	144,310	146,870	237,223
53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	53,730	26,865
65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000	65,000
3,525	3,553	3,581	3,610	3,639	3,668	3,697	3,727	3,757	3,787	3,817	3,847	3,878
242,067	244,458	246,868	249,298	251,747	254,215	256,704	259,211	261,739	264,288	266,857	269,447	332,966
199,687	203,625	207,595	211,597	215,630	219,695	223,795	227,924	232,087	236,286	240,517	244,783	395,371
44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	44,775	22,388
416,802	665,203	372,072	628,444	343,349	607,820	330,889	603,588	334,950	616,011	355,803	645,360	517,619
2,598,802	2,847,203	3,099,572	3,355,944	3,616,349	3,880,820	4,149,389	4,422,088	4,698,950	4,980,011	5,265,303	5,554,860	5,972,619
OK	OK	OK	OK	OK	OK	OK	OK	OK	OK	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity
2,770,000	2,900,000	3,030,000	3,160,000	3,290,000	3,420,000	3,550,000	3,680,000	3,810,000	3,940,000	4,070,000	4,200,000	4,330,000
exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity	exceeds estimated capacity

17 2018	18 2019	19 2020	20 2021	21 2022	22 2023	23 2024	24 2025	25 2026	26 2027	27 2028	28 2029	29 2030
-	-	-	-	-	-	-	-	-	-	-	-	-
2,182,223	2,236,779	2,292,698	2,350,016	2,408,766	2,468,985	2,530,710	2,593,978	2,658,827	2,725,298	2,793,430	2,863,266	2,934,848
259,788	266,283	272,940	279,764	286,758	293,927	301,275	308,807	316,527	324,440	332,551	340,865	349,387
2,442,012	2,503,062	2,565,639	2,629,780	2,695,524	2,762,912	2,831,985	2,902,785	2,975,354	3,049,738	3,125,981	3,204,131	3,284,234
-	-	-	-	-	-	-	-	-	-	-	-	-
126,183	129,338	132,571	135,885	139,282	142,764	146,334	149,992	153,742	157,585	161,525	165,563	169,702
-	-	-	-	-	-	-	-	-	-	-	-	-
32,659	33,476	34,312	35,170	36,050	36,951	37,875	38,821	39,792	40,787	41,806	42,852	43,923
67,112	68,790	70,510	72,272	74,079	75,931	77,829	79,775	-	-	-	-	-
22,327	22,885	23,457	24,044	24,645	25,261	25,892	26,540	27,203	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
-	2,738,913	-	2,877,570	-	3,023,247	-	3,176,299	-	3,337,099	-	3,506,040	-
1,336,055	-	1,403,693	-	1,474,755	-	1,549,414	-	1,627,853	-	1,710,263	-	1,796,846
-	-	-	-	-	-	-	-	-	-	-	-	-
1,584,336	2,993,401	1,664,543	3,144,942	1,748,811	3,304,155	1,837,344	3,471,427	1,848,590	3,535,471	1,913,595	3,714,455	2,010,470
-	-	-	-	-	-	-	-	-	-	-	-	-
2,412,322	2,472,630	2,534,445	2,597,807	2,662,752	2,729,321	2,797,554	2,867,492	2,939,180	3,012,659	3,087,976	3,165,175	3,244,304
2,412,322	2,472,630	2,534,445	2,597,807	2,662,752	2,729,321	2,797,554	2,867,492	2,939,180	3,012,659	3,087,976	3,165,175	3,244,304
6,438,670	7,969,093	6,764,627	8,372,528	7,107,086	8,796,387	7,466,883	9,241,704	7,763,124	9,597,869	8,127,552	10,083,761	8,539,009

17 2018	18 2019	19 2020	20 2021	21 2022	22 2023	23 2024	24 2025	25 2026	26 2027	27 2028	28 2029	29 2030
38,771	39,081	39,394	39,709	40,026	40,347	40,669	40,995	41,323	41,653	41,986	42,322	42,661
1,189,831	1,219,577	1,250,066	1,281,318	1,313,351	1,346,185	1,379,839	1,414,335	1,449,694	1,485,936	1,523,085	1,561,162	1,600,191
1,189,831	1,219,577	1,250,066	1,281,318	1,313,351	1,346,185	1,379,839	1,414,335	1,449,694	1,485,936	1,523,085	1,561,162	1,600,191
-	-	-	-	-	-	-	-	-	-	-	-	-
61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000
61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000	61,000
1,128,831	1,158,577	1,189,066	1,220,318	1,252,351	1,285,185	1,318,839	1,353,335	1,388,694	1,424,936	1,462,085	1,500,162	1,539,191

17 2018	18 2019	19 2020	20 2021	21 2022	22 2023	23 2024	24 2025	25 2026	26 2027	27 2028	28 2029	29 2030
2,434,589	2,495,454	2,557,840	2,621,786	2,687,331	2,754,514	2,823,377	2,893,962	2,966,311	3,040,468	3,116,480	3,194,392	3,274,252
2,304,843	2,362,465	2,421,526	2,482,064	2,544,116	2,607,719	2,672,912	2,739,735	2,808,228	2,878,434	2,950,394	3,024,154	3,099,758
337,428	345,864	354,510	363,373	372,458	381,769	391,313	401,096	411,123	421,401	431,937	442,735	453,803
166,116	170,269	174,526	178,889	183,361	187,945	192,644	197,460	202,396	207,456	212,643	217,959	223,408
5,242,977	5,374,051	5,508,403	5,646,113	5,787,266	5,931,947	6,080,246	6,232,252	6,388,058	6,547,760	6,711,454	6,879,240	7,051,221
5,482,233	5,606,854	5,734,001	5,863,723	5,996,069	6,131,087	6,268,829	6,409,347	6,552,691	6,698,917	6,848,078	7,000,230	3,577,714
5,782,140	7,296,917	6,076,336	7,667,639	6,385,100	8,056,792	6,709,149	8,465,289	6,967,466	8,782,391	7,291,660	9,226,842	7,660,433
2,933,400	3,029,328	3,127,890	3,229,083	3,332,908	3,439,570	3,549,072	3,661,419	3,776,822	3,895,290	4,016,901	4,141,736	4,269,808
1,128,831	1,158,577	1,189,066	1,220,318	1,252,351	1,285,185	1,318,839	1,353,335	1,388,694	1,424,936	1,462,085	1,500,162	1,539,191
5,242,977	5,374,051	5,508,403	5,646,113	5,787,266	5,931,947	6,080,246	6,232,252	6,388,058	6,547,760	6,711,454	6,879,240	7,051,221
20,569,581	22,465,727	21,635,697	23,626,876	22,753,693	24,844,581	23,926,136	26,121,641	25,073,732	27,349,294	26,330,177	28,748,209	24,098,367