

APPENDIX B COUNTY SUMMARIES

ALCONA

BTU		FUEL TYPE	
<750,000	78	GAS (Natural Gas)	84
750,001-2,500,000	8	PROPANE	0
2,500,001-5,000,000	0	OIL	4
5,000,001-15,000,000	1	WOOD	3
15,000,001-25,000,000	0	ELECTRIC	0
>25,000,001	1	COAL	0
N/A	3	OTHER	0
TOTAL	91	TOTAL	91

AGE		BOILER USE	
2000-present	18	Hot Water Heat	87
1980-1999	55	Hot Water Supply	3
1960-1979	17	Steam Heating	0
1945-1959	1	Power	1
older than 1945	0	Process Steam	0
N/A	0	Other	0
TOTAL	91	TOTAL	91

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	129,304
1-5 Years	0	Potential Wood Use	-
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	0		
Greater than 21 years	91		
TOTAL	91		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GALESBURG HIGH SCHOOL	GALESBURG MI	5,050,000	GAS	\$ 33,390	22.3
2 WILLS GUN SHOP	SPRUCE MI	390,000	OIL	\$ 2,916	26.2
3 SMOKEYS BAR	SPRUCE MI	270,000	OIL	\$ 1,865	28.6
4 CALVARY BAPTIST CHURCH	MIKADO MI	197,000	OIL	\$ 1,226	31.8
5 CALVARY BAPTIST CHURCH	MIKADO MI	197,000	OIL	\$ 1,226	31.8
6 LOST LAKE WOODS CLUB	LINCOLN MI	1,046,000	GAS	\$ 416	476.2
7 LOST LAKE WOODS CLUB	LINCOLN MI	1,046,000	GAS	\$ 416	476.2
8 GLENNIE ELEMENTARY SCHOOL	GLENNIE MI	780,000	GAS	\$ 183	818.0
9 GLENNIE ELEMENTARY SCHOOL	GLENNIE MI	780,000	GAS	\$ 183	818.0
10 ALCONA HIGH SCHOOL	LINCOLN MI	2,200,000	GAS	\$ 427	916.7
11 ALCONA HIGH SCHOOL	LINCOLN MI	2,200,000	GAS	\$ 427	916.7
12 ALCONA HIGH SCHOOL	LINCOLN MI	2,200,000	GAS	\$ 427	916.7
13 WESTMINSTER PRESBYTERIAN CHURCH	HARRISVILLE MI	650,000	GAS	\$ 69	1,812.3
14 LINCOLN HAVEN NURS.HOME	LINCOLN MI	650,000	GAS	\$ 69	1,812.3
15 LINCOLN HAVEN NURSING HM	LINCOLN MI	650,000	GAS	\$ 69	1,812.3
16 JAMIESON NURSING HOME	HARRISVILLE MI	600,000	GAS	\$ 26	4,546.9
17 ST ANNES PARISH HALL	HARRISVILLE MI	600,000	GAS	\$ 26	4,546.9

APPENDIX B COUNTY SUMMARIES

ALGER

BTU		FUEL TYPE	
<750,000	123	GAS (Natural Gas)	144
750,001-2,500,000	24	PROPANE	0
2,500,001-5,000,000	7	OIL	10
5,000,001-15,000,000	1	WOOD	9
15,000,001-25,000,000	1	ELECTRIC	5
>25,000,001	1	COAL	1
N/A	12	OTHER	0
TOTAL	169	TOTAL	169

AGE		BOILER USE	
2000-present	29	Hot Water Heat	119
1980-1999	108	Hot Water Supply	25
1960-1979	27	Steam Heating	13
1945-1959	5	Power	8
older than 1945	0	Process Steam	4
N/A	0	Other	0
TOTAL	169	TOTAL	169

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	12,472
1-5 Years	0	Potential Wood Use	1,399
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	4		
Greater than 21 years	164		
TOTAL	169		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings Payback	
1 BURT TOWNSHIP SCHOOL	GRAND MARAIS MI	16,800,000	GAS	\$ 114,734	13.3
2 MUNISING HIGH SCHOOL	MUNISING MI	124,000	ELECTRIC	\$ 1,347	18.3
3 ALGER CORRECTIONAL FAC	MUNISING MI	118,000	ELECTRIC	\$ 1,257	18.7
4 ALGER MAXIMUM CORRECTIONAL FACIL	MUNISING MI	102,000	ELECTRIC	\$ 1,019	19.9
5 ALGER MAXIMUM CORR FACIL	MUNISING MI	102,000	ELECTRIC	\$ 1,019	19.9
6 CAMP CUSINO	SHINGLETON MI	1,938,000	OIL	\$ 15,477	22.6
7 MUNISING HIGH SCHOOL	MUNISING MI	4,185,000	GAS	\$ 27,828	23.8
8 MUNISING HIGH SCHOOL	MUNISING MI	4,185,000	GAS	\$ 27,828	23.8
9 CENTRAL ELEM SCH	MUNISING MI	3,500,000	GAS	\$ 23,028	25.1
10 SEVENTH DAY ADVENTIST	MUNISING MI	430,000	OIL	\$ 3,267	25.8
11 DEERTON SCHOOL	DEERTON MI	371,000	OIL	\$ 2,750	26.5
12 DEERTON SCHOOL	DEERTON MI	371,000	OIL	\$ 2,750	26.5
13 SHELTER BAY OFFICE	AU TRAIN MI	315,000	OIL	\$ 2,259	27.4
14 ACE HARDWARE STORAGE	CHATHAM MI	272,000	OIL	\$ 1,883	28.5
15 BROWNSTONE INN	AUTRAIN MI	230,000	OIL	\$ 1,515	30.0
16 LAMMIS GENERAL STORE	EBEN JUNCTION MI	167,000	OIL	\$ 963	34.4
17 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,310,000	GAS	\$ 648	378.1
18 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,310,000	GAS	\$ 648	378.1
19 MUNISING HIGH SCHOOL	MUNISING MI	1,193,200	GAS	\$ 545	411.6
20 SACRED HEART CHURCH	MUNISING MI	1,040,000	GAS	\$ 411	479.7
21 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,010,000	GAS	\$ 385	498.5
22 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,010,000	GAS	\$ 385	498.5
23 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,010,000	GAS	\$ 385	498.5
24 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,010,000	GAS	\$ 385	498.5
25 ALGER CORRECTIONAL FACILITY	MUNISING MI	1,010,000	GAS	\$ 385	498.5
26 MUNISING HOUS. COMM.	MUNISING MI	910,000	GAS	\$ 297	584.6
27 MUNISING HOUS. COMM.	MUNISING MI	910,000	GAS	\$ 297	584.6
28 MUNISING MEMORIAL HOSPITAL	MUNISING MI	900,000	GAS	\$ 288	596.0
29 MUNISING MEMORIAL HOSPITAL	MUNISING MI	900,000	GAS	\$ 288	596.0
30 MUNISING MEMORIAL HOSPITAL	MUNISING MI	900,000	GAS	\$ 288	596.0
31 SUPERIOR CENTRAL SCHOOL	EBEN JUNCTION MI	2,511,000	GAS	\$ 700	627.7
32 SUPERIOR CENTRAL SCHOOLS	EBEN JUNCTION MI	2,511,000	GAS	\$ 700	627.7
33 CITY OF MUNISING	MUNISING MI	850,000	GAS	\$ 245	665.5
34 ALGER COUNTY GARAGE	MUNISING, MI	774,400	GAS	\$ 178	834.7
35 ALGER CORRECTIONAL FACILITY	MUNISING MI	2,250,000	GAS	\$ 471	847.9

APPENDIX B COUNTY SUMMARIES

ALLEGAN

BTU		FUEL TYPE	
<750,000	300	GAS (Natural Gas)	531
750,001-2,500,000	126	PROPANE	0
2,500,001-5,000,000	37	OIL	16
5,000,001-15,000,000	35	WOOD	3
15,000,001-25,000,000	2	ELECTRIC	13
>25,000,001	11	COAL	1
N/A	56	OTHER	3
TOTAL	567	TOTAL	567

AGE		BOILER USE	
2000-present	144	Hot Water Heat	389
1980-1999	291	Hot Water Supply	72
1960-1979	121	Steam Heating	34
1945-1959	9	Power	47
older than 1945	2	Process Steam	24
N/A	0	Other	1
TOTAL	567	TOTAL	567

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	8,160
1-5 Years	0	Potential Wood Use	89,826
6-10 years	8	(Projects <20 yrs payback)	
11-15 years	6		
16-20 years	22		
Greater than 21 years	531		
TOTAL	567		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 KRUGER COMMODITIES	HAMILTON MI	33,480,000	GAS	\$ 229,628	7.0
2 KRUGER COMMODITIES	HAMILTON MI	33,480,000	GAS	\$ 229,628	7.0
3 PERRIGO COMPANY	ALLEGAN MI	31,385,000	GAS	\$ 214,946	7.2
4 PERRIGO COMPANY	ALLEGAN MI	31,385,000	GAS	\$ 214,946	7.2
5 BIRDS EYE FOODS INCORPORATED	FENNVILLE MI	30,176,000	GAS	\$ 206,473	7.3
6 BIRDS EYE FOODS INCORPORATED	FENNVILLE MI	30,096,000	GAS	\$ 205,913	7.3
7 PACKERLAND PACKING CO INC	PLAINWELL MI	30,096,000	GAS	\$ 205,913	7.3
8 L PERRIGO COMPANY	ALLEGAN MI	7,000,000	OIL	\$ 102,244	9.1
9 TRANSMATIC MFG CO	HOLLAND MI	3,200,000	OIL	\$ 46,154	11.6
10 MONEY MUSHROOMS US	FENNVILLE MI	20,700,000	GAS	\$ 142,066	11.8
11 L. PERRIGO COMPANY	ALLEGAN MI	16,740,000	GAS	\$ 114,314	13.3
12 OTSEGO PAPER INCORPORATED	OTSEGO MI	224,300,000	GAS	\$ 1,561,894	14.4
13 OTSEGO PAPER INCORPORATED	OTSEGO MI	208,512,000	GAS	\$ 1,451,252	14.4
14 OTSEGO PAPER INC	OTSEGO MI	208,512,000	GAS	\$ 1,451,252	14.4
15 ALLEGAN HEALTH CENTER	ALLEGAN MI	12,000,000	GAS	\$ 81,096	15.2
16 HEALTH CARE	ALLEGAN MI	12,000,000	GAS	\$ 81,096	15.2
17 FENNVILLE PUBLIC SCHOOLS	FENNVILLE MI	11,500,000	GAS	\$ 77,592	15.4
18 WAYLAND UNION HIGH SCHOOL	WAYLAND MI	11,500,000	GAS	\$ 77,592	15.4
19 WAYLAND UNION HIGH SCHOOL	WAYLAND MI	11,500,000	GAS	\$ 77,592	15.4
20 PERRIGO COMPANY	ALLEGAN MI	10,461,000	GAS	\$ 70,311	15.8
21 PERRIGO COMPANY	ALLEGAN MI	10,461,000	GAS	\$ 70,311	15.8
22 LAKETOWN GREENHOUSE	HOLLAND MI	10,460,000	GAS	\$ 70,304	15.8
23 MIDDLE SCHOOL	OTSEGO MI	10,000,000	GAS	\$ 67,080	16.0
24 OTSEGO MIDDLE SCHOOL	OTSEGO MI	10,000,000	GAS	\$ 67,080	16.0
25 HERMAN MILLER	HOLLAND MI	9,730,000	GAS	\$ 66,188	16.5
26 HERMAN MILLER	HOLLAND MI	9,730,000	GAS	\$ 66,188	16.5
27 SAUGATUCK HIGH SCHOOL	SAUGATUCK MI	8,369,000	GAS	\$ 56,650	18.1
28 HAMILTON HIGH SCHOOL	HAMILTON MI	8,320,000	GAS	\$ 56,307	18.1
29 HAMILTON SCHOOLS	HAMILTON MI	8,320,000	GAS	\$ 56,307	18.1
30 HAMILTON HIGH SCHOOL	HAMILTON MI	8,320,000	GAS	\$ 56,307	18.1
31 PERRIGO COMPANY	ALLEGAN MI	8,000,000	GAS	\$ 54,064	18.5
32 HOLLAND EYE CLINIC	HOLLAND MI	105,000	ELECTRIC	\$ 1,064	19.6
33 OTSEGO HIGH SCHOOL	OTSEGO MI	7,000,000	GAS	\$ 47,056	19.7
34 HOPKINS HIGH SCHOOL	HOPKINS MI	6,900,000	GAS	\$ 46,355	19.8
35 HOPKINS HIGH SCHOOL	HOPKINS MI	6,900,000	GAS	\$ 46,355	19.8

APPENDIX B COUNTY SUMMARIES

ALPENA

BTU		FUEL TYPE	
<750,000	312	GAS (Natural Gas)	395
750,001-2,500,000	55	PROPANE	0
2,500,001-5,000,000	13	OIL	13
5,000,001-15,000,000	8	WOOD	1
15,000,001-25,000,000	1	ELECTRIC	1
>25,000,001	5	COAL	2
N/A	24	OTHER	6
TOTAL	418	TOTAL	418

AGE		BOILER USE	
2000-present	89	Hot Water Heat	334
1980-1999	228	Hot Water Supply	34
1960-1979	90	Steam Heating	29
1945-1959	8	Power	14
older than 1945	3	Process Steam	7
N/A	0	Other	0
TOTAL	418	TOTAL	418

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	730
1-5 Years	0	Potential Wood Use	5,493
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	5		
Greater than 21 years	412		
TOTAL	418		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ALPENA REGIONAL MEDICAL CENTER	ALPENA MI	21,069,000	GAS	\$ 144,652	11.6
2 BESSER CORPORATION	ALPENA MI	12,247,000	GAS	\$ 82,827	15.1
3 BESSER CORPORATION	ALPENA MI	12,247,000	GAS	\$ 82,827	15.1
4 ALPENA REGIONAL MEDICAL CENTER	ALPENA MI	11,000,000	GAS	\$ 74,088	15.6
5 ALPENA REGIONAL MEDICAL CENTER	ALPENA MI	11,000,000	GAS	\$ 74,088	15.6
6 ALPENA SENIOR HIGH	ALPENA MI	165,000	ELECTRIC	\$ 1,957	16.7
7 ALPENA HIGH SCHOOL	ALPENA MI	6,500,000	GAS	\$ 43,552	20.3
8 LAForge OF NORTH AMERICA	PRESQUE ISLE MI	2,655,000	OIL	\$ 21,758	21.2
9 A C C EAST CAMPUS	ALPENA MI	5,500,000	GAS	\$ 36,544	21.6
10 NEMROC INC	ALPENA MI	5,296,000	GAS	\$ 35,114	21.9
11 HARRIS HALL	ALPENA MI	5,186,000	GAS	\$ 34,343	22.1
12 ALPENA COM COLLEGE NRC	ALPENA MI	4,850,000	GAS	\$ 32,489	22.6
13 WILSON ELEMENTARY SCHOOL	HERRON MI	1,095,000	OIL	\$ 9,092	22.8
14 WILSON ELEMENTARY SCHOOL	HERRON MI	1,095,000	OIL	\$ 9,092	22.8
15 ALPENA POST OFFICE	ALPENA MI	780,000	OIL	\$ 6,333	23.7
16 L AND S CONCRETE COMPANY	ALPENA MI	4,184,000	GAS	\$ 27,821	23.8
17 BINGHAM ACADEMY	ALPENA MI	3,990,000	GAS	\$ 26,462	24.1
18 BESSER TECH	ALPENA MI	3,900,000	GAS	\$ 25,831	24.3
19 BESSER TECH	ALPENA MI	3,900,000	GAS	\$ 25,831	24.3
20 ST PAULS LUTH CH	ALPENA MI	3,250,000	GAS	\$ 21,276	25.6
21 ELLA WHITE SCHOOL	ALPENA MI	3,250,000	GAS	\$ 21,276	25.6
22 ELLA WHITE SCHOOL	ALPENA MI	3,250,000	GAS	\$ 21,276	25.6
23 THUNDER BAY JR HIGH SCH	ALPENA MI	3,232,000	GAS	\$ 21,150	25.6
24 THUNDER BAY JR HIGH SCH	ALPENA MI	3,232,000	GAS	\$ 21,150	25.6
25 SUNSET ELEMENTARY SCHOOL	ALPENA MI	3,200,000	GAS	\$ 20,926	25.7
26 ST PAUL LUTHERAN CHURCH	HERRON MI	170,000	OIL	\$ 989	34.1
27 ST PAUL LUTHERAN CHURCH	HERRON MI	170,000	OIL	\$ 989	34.1
28 JR'S COUNTRY STORE	LACHINE MI	164,000	OIL	\$ 937	34.7
29 LONG RAPIDS MARKET	LACHINE MI	161,700	OIL	\$ 916	35.0
30 HIDE A WAY BAR	ALPENA MI	100,000	OIL	\$ 376	53.2
31 ALPENA HIGH SCHOOL	ALPENA MI	1,497,000	GAS	\$ 811	341.4
32 TIME TO SHINE CAR WASH	ALPENA MI	1,467,000	GAS	\$ 785	346.3
33 TENDERCARE GREENVIEW	ALPENA MI	1,440,000	GAS	\$ 761	351.0
34 ALPENA GENERAL HOSPITAL	ALPENA MI	1,428,000	GAS	\$ 751	353.2
35 WCCT	ALPENA MI	1,386,000	GAS	\$ 714	361.3

APPENDIX B COUNTY SUMMARIES

ANTRIM

BTU		FUEL TYPE	
<750,000	141	GAS (Natural Gas)	187
750,001-2,500,000	35	PROPANE	0
2,500,001-5,000,000	14	OIL	8
5,000,001-15,000,000	5	WOOD	3
15,000,001-25,000,000	0	ELECTRIC	0
>25,000,001	0	COAL	0
N/A	3	OTHER	0
TOTAL	198	TOTAL	198
AGE		BOILER USE	
2000-present	33	Hot Water Heat	0
1980-1999	133	Hot Water Supply	0
1960-1979	28	Steam Heating	0
1945-1959	2	Power	0
older than 1945	2	Process Steam	0
N/A	0	Other	198
TOTAL	198	TOTAL	198
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	651
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	2		
Greater than 21 years	193		
TOTAL	198		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 SHANTY CREEK LODGE	BELLAIRE MI	8,032,000	OIL	\$ 117,613	8.5
2 MEEDERS LUMBER CO	MANCELONA MI	5,000,000	OIL	\$ 72,460	10.2
3 BURNETTE FOODS INCORPORATED	ELK RAPIDS MI	14,645,000	GAS	\$ 99,632	14.1
4 CHERRY COUNTRY FRUIT WORKS	WILLIAMSBURG MI	8,400,000	GAS	\$ 56,867	18.0
5 SHANTY CREEK RESORT AND CLUB	BELLAIRE MI	8,300,000	GAS	\$ 56,166	18.1
6 ELLSWORTH ELEMANTARY SCH	ELLSWORTH MI	2,285,000	OIL	\$ 18,517	21.9
7 ELK RAPIDS HIGH SCHOOL	ELK RAPIDS MI	5,230,000	GAS	\$ 34,652	22.0
8 MEADOWBROOK MED CARE FAC	BELLAIRE MI	5,000,000	GAS	\$ 33,040	22.3
9 ANTRIM COUNTY ROAD COMMISSION	MANCELONA MI	1,224,000	OIL	\$ 10,222	22.5
10 LAKELAND SCHOOL	ELK RAPIDS MI	4,000,000	GAS	\$ 26,532	24.1
11 MANCELONA VOCATIONAL SCL	MANCELONA, MI	3,750,000	GAS	\$ 24,780	24.6
12 ELK RAPIDS HIGH SCHOOL	ELK RAPIDS MI	3,658,000	GAS	\$ 24,135	24.8
13 ELLSWORTH HIGH SCHOOL	ELLSWORTH MI	3,350,000	GAS	\$ 21,977	25.4
14 MANCELONA MIDDLE SCHOOL	MANCELONA MI	3,350,000	GAS	\$ 21,977	25.4
15 MANCELONA MIDDLE SCHOOL	MANCELONA MI	3,350,000	GAS	\$ 21,977	25.4
16 MANCELONA HIGH SCHOOL	MANCELONA MI	3,350,000	GAS	\$ 21,977	25.4
17 MANCELONA HIGH SCHOOL	MANCELONA MI	3,350,000	GAS	\$ 21,977	25.4
18 MEADOWBROOK MED CARE FAC	BELLAIRE MI	3,000,000	GAS	\$ 19,524	26.1
19 EASTPORT BAPTIST CHURCH	EASTPORT MI	395,000	OIL	\$ 2,960	26.2
20 KB MATZ TRANSPORTATION	ELMIRA MI	300,000	OIL	\$ 2,128	27.8
21 VILLAGE MARKET	ELK RAPIDS MI	300,000	OIL	\$ 2,128	27.8
22 COUNTY OF ANTRIM	BELLAIRE MI	1,428,000	GAS	\$ 751	353.2
23 JOHN RODGERS ELEMANTARY	BELLAIRE MI	1,200,000	GAS	\$ 551	409.3
24 ELEMENTARY SCHOOL	CENTRAL LAKE MI	1,125,000	GAS	\$ 486	437.4
25 ELEMENTARY SCHOOL	CENTRAL LAKE MI	1,125,000	GAS	\$ 486	437.4
26 CHERRYLAND MIDDLE SCHOOL	ELK RAPIDS MI	2,911,000	GAS	\$ 1,050	473.8
27 MANCELONA ELEMENTARY	MANCELONA MI	1,014,000	GAS	\$ 388	495.8
28 MANCELONA ELEMENTARY	MANCELONA MI	1,014,000	GAS	\$ 388	495.8
29 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
30 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
31 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
32 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
33 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
34 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3
35 THE LODGE AT CEDAR RIVER	BELLAINE MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

ARENAC

BTU		FUEL TYPE	
<750,000	88	GAS (Natural Gas)	138
750,001-2,500,000	31	PROPANE	0
2,500,001-5,000,000	19	OIL	5
5,000,001-15,000,000	0	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	0	COAL	0
N/A	9	OTHER	0
TOTAL	147	TOTAL	147
AGE		BOILER USE	
2000-present	56	Hot Water Heat	112
1980-1999	75	Hot Water Supply	26
1960-1979	14	Steam Heating	1
1945-1959	2	Power	1
older than 1945	0	Process Steam	7
N/A	0	Other	0
TOTAL	147	TOTAL	147
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	596
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	2		
Greater than 21 years	143		
TOTAL	147		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ARENAC-EASTERN SCHOOL	TWINING MI	3,508,000	OIL	\$ 50,741	11.4
2 ARENAC-EASTERN SCHOOL	TWINING MI	3,508,000	OIL	\$ 50,741	11.4
3 STANDISH COMMUNITY HOSPITAL	STANDISH MI	210,000	ELECTRIC	\$ 2,627	15.8
4 STANDISH MAX PRISON	STANDISH MI	120,000	ELECTRIC	\$ 1,287	18.5
5 STANDISH ELEMENTARY SCH	STANDISH MI	2,400,000	OIL	\$ 19,524	21.6
6 STANDISH COMMUNITY HOSPITAL	STANDISH MI	4,185,000	GAS	\$ 27,828	23.8
7 STANDISH COMMUNITY HOSPITAL	STANDISH MI	4,185,000	GAS	\$ 27,828	23.8
8 BESSINGER PICKLE CO	AUGRES MI	4,000,000	GAS	\$ 26,532	24.1
9 STANDISH CORR FAC	STANDISH MI	4,000,000	GAS	\$ 26,532	24.1
10 STANDISH CORR FAC	STANDISH MI	4,000,000	GAS	\$ 26,532	24.1
11 STANDISH CORRECTIONAL	STANDISH MI	3,080,000	GAS	\$ 20,085	25.9
12 STANDISH CORRECTIONAL	STANDISH MI	3,080,000	GAS	\$ 20,085	25.9
13 STANDISH CORRECTIONAL FC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
14 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
15 STANDISH CORR FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
16 STANDISH CORR FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
17 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
18 STANDISH CORRECTNL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
19 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
20 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
21 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
22 STANDISH CORRECTIONL FAC	STANDISH MI	3,000,000	GAS	\$ 19,524	26.1
23 FRONT STREET APARTMENTS	STANDISH MI	319,000	OIL	\$ 2,294	27.4
24 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
25 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
26 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
27 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
28 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
29 STANDISH HIGH SCHOOL	STANDISH MI	1,400,000	GAS	\$ 726	358.5
30 STERLING ELEM SCHOOL	STERLING MI	1,400,000	GAS	\$ 726	358.5
31 STERLING ELEM SCHOOL	STERLING MI	1,400,000	GAS	\$ 726	358.5
32 ARENAC-EASTERN SCHOOL	TWINING MI	1,275,000	GAS	\$ 617	387.0
33 STANDISH COMMUNITY HOSPITAL	STANDISH MI	1,260,000	GAS	\$ 604	391.1
34 STANDISH CAR WASH	STANDISH MI	1,260,000	GAS	\$ 604	391.1
35 ARENAC COUNTY DETENTION CENTER	STANDISH MI	1,250,000	GAS	\$ 595	393.9

APPENDIX B COUNTY SUMMARIES

BARAGA

BTU		FUEL TYPE	
<750,000	102	GAS (Natural Gas)	132
750,001-2,500,000	23	PROPANE	0
2,500,001-5,000,000	6	OIL	9
5,000,001-15,000,000	1	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	3
>25,000,001	0	COAL	1
N/A	15	OTHER	0
TOTAL	147	TOTAL	147

AGE		BOILER USE	
2000-present	18	Hot Water Heat	118
1980-1999	98	Hot Water Supply	13
1960-1979	25	Steam Heating	6
1945-1959	5	Power	9
older than 1945	1	Process Steam	1
N/A	0	Other	0
TOTAL	147	TOTAL	147

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	73
1-5 Years	0	Potential Wood Use	807
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	4		
Greater than 21 years	143		
TOTAL	147		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BARAGA CORRECTIONAL FACILITY	BARAGA MI	9,468,000	GAS	\$ 64,352	16.8
2 BARAGA CORRECTION FACILITY	BARAGA MI	160,000	ELECTRIC	\$ 1,883	16.9
3 BARAGA CORRECTION FACILITY	BARAGA MI	160,000	ELECTRIC	\$ 1,883	16.9
4 BARAGA CORRECTION FACILITY	BARAGA MI	160,000	ELECTRIC	\$ 1,883	16.9
5 BARAGA CO RD COMM GARAGE	LANSE MI	2,100,000	OIL	\$ 16,896	22.2
6 BARAGA CO MEMORIAL HOSP	L ANSE MI	4,300,000	GAS	\$ 28,634	23.6
7 BARAGA CO MEMORIAL HOSP	L ANSE MI	4,300,000	GAS	\$ 28,634	23.6
8 SCARED HEART PARISH	LANSE MI	3,985,000	GAS	\$ 26,427	24.1
9 VILLAGE GARAGE	L ANSE MI	560,000	OIL	\$ 4,406	24.7
10 C J SULLIVAN ELEM SCHOOL	LANSE MI	3,313,000	GAS	\$ 21,718	25.5
11 C J SULLIVAN ELEM	LANSE MI	3,313,000	GAS	\$ 21,718	25.5
12 MICH NATL GUARD ARMORY	BARAGA MI	3,103,000	GAS	\$ 20,246	25.9
13 MICH. TECH FORD FSTRY	L ANSE MI	248,000	OIL	\$ 1,672	29.3
14 MICH TECH. FORD FORESTRY	L ANSE MI	248,000	OIL	\$ 1,672	29.3
15 MICHIGAN TECH FORD FSTRY	L ANSE MI	248,000	OIL	\$ 1,672	29.3
16 COVINGTON REST HOME	COVINGTON MI	189,000	OIL	\$ 1,156	32.4
17 FORD FORESTRY CENTER	L ANSE MI	181,000	OIL	\$ 1,086	33.0
18 U S POST OFFICE	COVINGTON MI	150,000	OIL	\$ 814	36.6
19 BARAGA CORRECTIONAL FAC UNIT 1	BARAGA MI	1,200,000	GAS	\$ 551	409.3
20 BARAGA CORRECTIONAL FAC HSG 2	BARAGA MI	1,200,000	GAS	\$ 551	409.3
21 BARAGA CORRECTIONAL FAC HSG3	BARAGA MI	1,200,000	GAS	\$ 551	409.3
22 BARAGA CORRECTIONAL FAC HSG 4	BARAGA MI	1,200,000	GAS	\$ 551	409.3
23 BARAGA CORRECTIONAL FAC HSG 5	BARAGA MI	1,200,000	GAS	\$ 551	409.3
24 BARAGA CORRECTIONAL FAC BLDG 100	BARAGA MI	1,200,000	GAS	\$ 551	409.3
25 BARAGA CORRECTIONAL FAC BLDG 100	BARAGA MI	1,200,000	GAS	\$ 551	409.3
26 BARAGA WATER TREATMENT PLANT	BARAGA MI	1,040,000	GAS	\$ 411	479.7
27 BARAGA COUNT COURTHOUSE	LANSE MI	1,040,000	GAS	\$ 411	479.7
28 BAY SIDE VILLAGE - EXTENDED CARE	L'ANSE MI	1,000,000	GAS	\$ 376	505.3
29 BAY SIDE VILLAGE - EXTENDED CARE	L'ANSE MI	1,000,000	GAS	\$ 376	505.3
30 BAY SIDE VILLAGE - EXTENDED CARE	L'ANSE MI	1,000,000	GAS	\$ 376	505.3
31 BARAGA CORRECTIONAL FACILITY	BARAGA MI	946,800	GAS	\$ 329	547.7
32 BPB MANUFACTURING INCORPORATED	L'ANSE MI	840,000	GAS	\$ 236	682.4
33 BARAGA HIGH SCHOOL	BARAGA MI	2,340,000	GAS	\$ 550	751.6
34 BARAGA HIGH SCHOOL	BARAGA MI	2,340,000	GAS	\$ 550	751.6
35 BARAGA CORRECTIONAL FAC BLDG 300	BARAGA MI	1,900,000	GAS	\$ 164	2,091.8

APPENDIX B COUNTY SUMMARIES

BARRY

BTU		FUEL TYPE	
<750,000	141	GAS (Natural Gas)	223
750,001-2,500,000	47	PROPANE	0
2,500,001-5,000,000	9	OIL	9
5,000,001-15,000,000	16	WOOD	8
15,000,001-25,000,000	1	ELECTRIC	2
>25,000,001	0	COAL	1
N/A	29	OTHER	0
TOTAL	243	TOTAL	243
AGE		BOILER USE	
2000-present	58	Hot Water Heat	143
1980-1999	129	Hot Water Supply	48
1960-1979	40	Steam Heating	21
1945-1959	9	Power	10
older than 1945	6	Process Steam	14
N/A	1	Other	7
TOTAL	243	TOTAL	243
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	0
1-5 Years	0	Potential Wood Use	8,994
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	9		
Greater than 21 years	232		
TOTAL	243		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 HASTINGS MANUFACTURING COMPANY	HASTINGS MI	21,000,000	GAS	\$ 144,168	11.7
2 HASTINGS MFG CO	HASTINGS MI	12,500,000	GAS	\$ 84,600	15.0
3 HASTING MIDDLE SCHOOL	HASTINGS MI	9,500,000	GAS	\$ 64,576	16.7
4 HASTINGS MIDDLE SCHOOL	HASTINGS MI	9,500,000	GAS	\$ 64,576	16.7
5 NEW SENIOR HIGH SCH	HASTINGS MI	9,500,000	GAS	\$ 64,576	16.7
6 JR SR HIGH SCHOOL	VERMONTVILLE MI	8,625,000	GAS	\$ 58,444	17.8
7 LAKEWOOD HIGH SCHOOL	LAKE ODESSA MI	8,625,000	GAS	\$ 58,444	17.8
8 LAKEWOOD HIGH SCH	LAKE ODESSA MI	8,625,000	GAS	\$ 58,444	17.8
9 DELTON MIDDLE SCHOOL	DELTON MI	8,370,000	GAS	\$ 56,657	18.1
10 DELTON KELLOGG HIGH SCH	DELTON MI	7,323,000	GAS	\$ 49,320	19.3
11 DELTON KELLOGG HIGH SCH	DELTON MI	7,323,000	GAS	\$ 49,320	19.3
12 FLEX FAB	HASTINGS MI	6,300,000	GAS	\$ 42,150	20.6
13 THORNAPLLE MIDDLE SCHOOL	MIDDLEVILLE MI	6,277,000	GAS	\$ 41,989	20.6
14 THORNAPPLE MIDDLE SCHOOL	MIDDLEVILLE MI	6,277,000	GAS	\$ 41,989	20.6
15 PENNOCK HOSPITAL	HASTINGS MI	5,500,000	GAS	\$ 36,544	21.6
16 MHA HOSPITAL	HASTINGS MI	5,500,000	GAS	\$ 36,544	21.6
17 HASTINGS ASSEMBLY OF GOD	HASTINGS MI	1,477,000	OIL	\$ 12,439	22.0
18 PENNOCK HOSPITAL	HASTINGS MI	5,017,000	GAS	\$ 33,159	22.3
19 OUTDOOR ED CENTER	DOWLING MI	1,168,000	OIL	\$ 9,732	22.6
20 WOODLAND ELEM SCH	WOODLAND MI	4,200,000	GAS	\$ 27,934	23.8
21 WOODLAND ELEM SCHOOL	WOODLAND MI	4,200,000	GAS	\$ 27,934	23.8
22 GUN LAKE SEWER	ORANGEVILLE MI	1,512,000	OIL	\$ 11,745	23.8
23 THORNAPPLE MANOR	HASTINGS MI	4,000,000	GAS	\$ 26,532	24.1
24 THORNAPPLE MANOR	HASTINGS MI	4,000,000	GAS	\$ 26,532	24.1
25 GAVIN INC	MIDDLEVILLE MI	500,000	OIL	\$ 3,880	25.1
26 LAKEWOOD MIDDLE SCHOOL	WOODLAND MI	3,360,000	GAS	\$ 22,047	25.4
27 LAKEWOOD MIDDLE SCHOOL	WOODLAND MI	3,360,000	GAS	\$ 22,047	25.4
28 WESLEY WOODS YOUTH CAMP	DOWLING MI	325,000	OIL	\$ 2,347	27.2
29 WESLEY WOODS YOUTH CAMP	DOWLING MI	325,000	OIL	\$ 2,347	27.2
30 WESLEY WOODS YOUTH CAMP	DOWLING MI	295,700	OIL	\$ 2,090	27.9
31 OUTDOOR ED CTR	DOWLING MI	42,000	ELECTRIC	\$ 125	159.4
32 LAKEWOOD HIGH SCHOOL	LAKE ODESSA MI	1,470,000	GAS	\$ 788	345.8
33 SW BARRY CO WWTP PLANT AUTHORITY	DELTON MI	1,440,000	GAS	\$ 761	351.0
34 MICHIGAN CAREER AND TECHNICAL INS	PLAINWELL MI	1,300,000	GAS	\$ 639	380.6
35 MCFALL ELEMENTARY	MIDDLEVILLE MI	1,206,000	GAS	\$ 556	407.3

APPENDIX B COUNTY SUMMARIES

BAY

BTU		FUEL TYPE	
<750,000	436	GAS (Natural Gas)	713
750,001-2,500,000	192	PROPANE	0
2,500,001-5,000,000	41	OIL	7
5,000,001-15,000,000	20	WOOD	1
15,000,001-25,000,000	2	ELECTRIC	10
>25,000,001	13	COAL	4
N/A	31	OTHER	0
TOTAL	735	TOTAL	735
AGE		BOILER USE	
2000-present	131	Hot Water Heat	470
1980-1999	385	Hot Water Supply	77
1960-1979	177	Steam Heating	122
1945-1959	33	Power	50
older than 1945	9	Process Steam	16
N/A	0	Other	0
TOTAL	735	TOTAL	735
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	341
1-5 Years	0	Potential Wood Use	141,672
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	13		
16-20 years	14		
Greater than 21 years	707		
TOTAL	735		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CMS ENERGY CORP-WEADOCK STATION	ESSEXVILLE MI	30,096,000	GAS	\$ 205,913	7.3
2 DOW CORNING CENTER	AUBURN MI	25,323,000	GAS	\$ 174,464	10.0
3 CMS ENERGY CORPORATION KAM 3-4	ESSEXVILLE MI	302,250,000	OIL	\$ 4,491,107	11.5
4 CMS ENERGY CORPORATION KAM 3-4	ESSEXVILLE MI	302,250,000	OIL	\$ 4,491,107	11.5
5 MICHIGAN SUGAR CO	BAY CITY MI	120,000,000	GAS	\$ 830,960	11.6
6 DELTA COLLEGE	UNIVERSITY CTR MI	20,920,000	GAS	\$ 143,607	11.7
7 DELTA COLLEGE	UNIVERSITY CTR MI	20,920,000	GAS	\$ 143,607	11.7
8 TRINITY EVAN LUTH SCHOOL	BAY CITY MI	3,150,000	OIL	\$ 45,410	11.7
9 CMS ENERGY CORP-WEADOCK STATION	ESSEXVILLE MI	1,022,000	ELECTRIC	\$ 14,720	13.2
10 CONSUMERS ENERGY	ESSEXVILLE MI	1,022,000	ELECTRIC	\$ 14,720	13.2
11 MONITOR SUGAR COMPANY	BAY CITY MI	150,000,000	GAS	\$ 1,041,200	13.7
12 MONITOR SUGAR CO	BAY CITY MI	150,000,000	GAS	\$ 1,041,200	13.7
13 BAY METRO WATER SUPPLY	BAY CITY MI	500,000	ELECTRIC	\$ 6,946	14.0
14 SC JOHNSON & SONS INC	BAY CITY MI	14,016,000	GAS	\$ 95,224	14.3
15 MONITOR SUGAR CO	BAY CITY MI	12,000,000	GAS	\$ 81,096	15.2
16 DELTA COLLEGE	UNIVERSITY CTR MI	10,640,000	GAS	\$ 71,565	15.7
17 R & R READY MIX INC	BAY CITY MI	10,461,000	GAS	\$ 70,311	15.8
18 NORTHERN CONCRETE PIPE	BAY CITY MI	10,000,000	GAS	\$ 67,080	16.0
19 WESTERN HIGH SCHOOL	AUBURN MI	180,000	ELECTRIC	\$ 2,181	16.4
20 WESTERN HIGH SCHOOL	AUBURN MI	165,000	ELECTRIC	\$ 1,957	16.7
21 BAY CITY WATER PLANT	BAY CITY MI	150,000	ELECTRIC	\$ 1,734	17.2
22 BIT MAT PRODUCTS OF MICHIGAN	BAY CITY MI	8,500,000	GAS	\$ 57,568	17.9
23 BAY ARENAC ISD CAREER CENTER	BAY CITY MI	8,389,000	GAS	\$ 56,790	18.0
24 MCLAREN/BAY REGIONAL MEDICAL CEN	BAY CITY MI	8,225,000	GAS	\$ 55,641	18.2
25 WATER TREATMENT PLANT	BAY CITY MI	125,000	ELECTRIC	\$ 1,362	18.2
26 GARBER HIGH SCHOOL	ESSEXVILLE, MI	123,000	ELECTRIC	\$ 1,332	18.4
27 BIT MAT PRODUCTS OF MICHIGAN	BAY CITY MI	7,800,000	GAS	\$ 52,662	18.7
28 CMS ENERGY CORPORATION KARN 3-4	ESSEXVILLE MI	528,409,000	OIL	\$ 7,859,067	19.1
29 KEITS GREENHOUSE	BAY CITY MI	6,280,000	GAS	\$ 42,010	20.6
30 DOW CORNING CORP	AUBURN MI	6,277,000	GAS	\$ 41,989	20.6
31 DOW CORNING CORPORATION	AUBURN MI	6,277,000	GAS	\$ 41,989	20.6
32 ST STANISLAUS SCHOOL	BAY CITY MI	6,250,000	GAS	\$ 41,800	20.7
33 BAY COUNTY LAW ENFORCEMENT	BAY CITY MI	6,000,000	GAS	\$ 40,048	21.0
34 BAY CO LAW ENFORCEMENT	BAY CITY MI	6,000,000	GAS	\$ 40,048	21.0
35 ST JAMES SCHOOL	BAY CITY MI	5,230,000	GAS	\$ 34,652	22.0

APPENDIX B COUNTY SUMMARIES

BENZIE

BTU		FUEL TYPE	
<750,000	162	GAS (Natural Gas)	194
750,001-2,500,000	20	PROPANE	0
2,500,001-5,000,000	2	OIL	3
5,000,001-15,000,000	6	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	0
>25,000,001	0	COAL	1
N/A	9	OTHER	0
TOTAL	199	TOTAL	199

AGE		BOILER USE	
2000-present	40	Hot Water Heat	168
1980-1999	133	Hot Water Supply	17
1960-1979	24	Steam Heating	5
1945-1959	1	Power	8
older than 1945	1	Process Steam	0
N/A	0	Other	1
TOTAL	199	TOTAL	199

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	1,096
1-5 Years	0	Potential Wood Use	2,088
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	3		
Greater than 21 years	196		
TOTAL	199		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 DNR-PLATTE RIVER FISH HATCHERY	BEULAH MI	9,000,000	GAS	\$ 61,072	17.3
2 FROZEN FOODS DIVISION	FRANKFORT MI	8,375,000	GAS	\$ 56,692	18.1
3 BENZIE CENTRAL HIGH SCHOOL	BENZONIA MI	8,370,000	GAS	\$ 56,657	18.1
4 PAUL OLIVER HOSPITAL	FRANKFORT MI	6,277,000	GAS	\$ 41,989	20.6
5 PAUL OLIVER MEMORIAL HOSPITAL	FRANKFORT MI	6,277,000	GAS	\$ 41,989	20.6
6 BETSIE VALLEY ELEMENTARY SCHOOL	THOMPSONVILLE MI	2,580,000	OIL	\$ 21,101	21.3
7 BENZIE CENTRAL HIGH SCHOOL	BENZONIA MI	5,230,000	GAS	\$ 34,652	22.0
8 CRYSTAL PALACE LOUNGE	THOMPSONVILLE MI	140,000	OIL	\$ 726	38.3
9 CONTINENTAL INDUSTRIES	BENZONIA MI	1,222,500	GAS	\$ 571	402.1
10 CRYSTAL LAKE ELEMENTARY SCHOOL	BENZONIA MI	1,200,000	GAS	\$ 551	409.3
11 CRYSTAL LAKE ELEMENTARY SCHOOL	BENZONIA MI	1,200,000	GAS	\$ 551	409.3
12 ST ANDREWS PRESBYTERIAN CHURCH	BEULAH MI	1,010,000	GAS	\$ 385	498.5
13 ST ANDREWS PRESBYTERIAN CHURCH	BEULAH MI	1,010,000	GAS	\$ 385	498.5
14 BENZIE COUNTY JAIL	BEULAH MI	1,000,000	GAS	\$ 376	505.3
15 BENZIE COUNTY JAIL	BEULAH MI	1,000,000	GAS	\$ 376	505.3
16 BENZIE COUNTY JAIL	BEULAH MI	1,000,000	GAS	\$ 376	505.3
17 WINTERGREEN CONDOMINIUM ASSOCIATION	THOMPSONVILLE MI	985,000	GAS	\$ 363	516.2
18 HONOR CAR WASH	HONOR MI	961,700	GAS	\$ 342	534.7
19 THE MAPLES	FRANKFORT MI	2,415,000	GAS	\$ 616	689.9
20 THE MAPLES	FRANKFORT MI	2,415,000	GAS	\$ 616	689.9
21 LAKE ANN ELEMENTARY	INTERLOCHEN MI	825,000	GAS	\$ 223	710.3
22 BRONSON LK ELEMENTARY	INTERLOCHEN MI	825,000	GAS	\$ 223	710.3
23 BRONSON LK ELEMENTARY	INTERLOCHEN MI	825,000	GAS	\$ 223	710.3
24 WINTERGREEN CONDOMINIUM ASSOCIATION	THOMPSONVILLE MI	745,000	GAS	\$ 153	939.9
25 WINTERGREEN CONDOMINIUM ASSOCIATION	THOMPSONVILLE MI	726,000	GAS	\$ 136	1,029.1
26 FRANKFORT-ALBERTA SCHS	FRANKFORT MI	2,100,000	GAS	\$ 340	1,106.9
27 FRANKFORT-ALBERTA SCHS	FRANKFORT MI	2,100,000	GAS	\$ 340	1,106.9
28 FRANKFORT-ALBERTA SCHS	FRANKFORT MI	2,100,000	GAS	\$ 340	1,106.9
29 H W JENCKS INC	FRANKFORT MI	704,000	GAS	\$ 117	1,164.0
30 FRANKFORT LAUNDROMAT	FRANKFORT MI	700,000	GAS	\$ 113	1,193.5
31 FRANKFORT HIGH SCHOOL	FRANKFORT MI	629,000	GAS	\$ 51	2,388.9
32 HONOR LAUNDROMAT	HONOR MI	600,000	GAS	\$ 26	4,546.9
33 COLD CREEK INN	BEULAH MI	600,000	GAS	\$ 26	4,546.9
34 MICHIGAN SHORES APARTMENTS	FRANKFORT MI	594,000	GAS	\$ 20	5,666.1
35 MICHIGAN SHORES APARTMENTS	FRANKFORT MI	594,000	GAS	\$ 20	5,666.1

APPENDIX B COUNTY SUMMARIES

BERRIEN

BTU		FUEL TYPE	
<750,000	486	GAS (Natural Gas)	909
750,001-2,500,000	177	PROPANE	2
2,500,001-5,000,000	38	OIL	27
5,000,001-15,000,000	45	WOOD	0
15,000,001-25,000,000	6	ELECTRIC	11
>25,000,001	7	COAL	7
N/A	200	OTHER	3
TOTAL	959	TOTAL	959

AGE		BOILER USE	
2000-present	159	Hot Water Heat	609
1980-1999	485	Hot Water Supply	118
1960-1979	259	Steam Heating	131
1945-1959	51	Power	52
older than 1945	5	Process Steam	39
N/A	0	Other	10
TOTAL	959	TOTAL	959

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	2	Potential Wood Use	63,484
6-10 years	4	(Projects <20 yrs payback)	
11-15 years	18		
16-20 years	25		
Greater than 21 years	910		
TOTAL	959		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MERCY MEMORIAL MEDICAL CENTER	SAINT JOSEPH MI	33,625,000	OIL	\$ 495,744	3.3
2 BULLDOG BOILER	HAMTRAMCK MI	29,291,000	OIL	\$ 433,202	4.0
3 MERCY MEMORIAL MEDICAL CENTER	SAINT JOSEPH MI	33,625,000	GAS	\$ 230,644	7.0
4 MERCY MEMORIAL MEDICAL CENTER	ST JOSEPH MI	33,625,000	GAS	\$ 230,644	7.0
5 D C COOK NUCLEAR PLANT	BRIDGMAN MI	187,000,000	OIL	\$ 2,774,804	7.6
6 AUSCO PRODUCTS	BENTON HARBOR MI	25,600,000	GAS	\$ 176,405	9.9
7 DEAN FOODS	BENTON HARBOR MI	25,106,000	GAS	\$ 172,943	10.1
8 DEAN FOODS	BENTON HARBOR MI	20,922,000	GAS	\$ 143,621	11.7
9 DEAN FOODS	BENTON HARBOR MI	20,922,000	GAS	\$ 143,621	11.7
10 JC PENNEY	BENTON HARBOR MI	1,024,000	ELECTRIC	\$ 14,749	13.2
11 RIVER VALLEY HIGH SCHOOL	THREE OAKS MI	1,000,000	ELECTRIC	\$ 14,392	13.2
12 NATIONAL STANDARD CORPORATION	NILES MI	16,738,000	GAS	\$ 114,300	13.3
13 NATIONAL STANDARD CO	NILES MI	16,737,000	GAS	\$ 114,293	13.3
14 MENASHA CORPORATION	COLOMA MI	16,329,000	GAS	\$ 111,434	13.4
15 COLOMA FROZEN FOODS	COLOMA MI	15,691,000	GAS	\$ 106,963	13.7
16 WHIRLPOOL CORPORATION	BENTON HARBOR MI	14,635,000	GAS	\$ 99,562	14.1
17 WHIRLPOOL CORPORATION	BENTON HARBOR MI	14,635,000	GAS	\$ 99,562	14.1
18 NILES HIGH SCHOOL	NILES MI	13,581,000	GAS	\$ 92,176	14.5
19 DILLINGHAM	ST JOSEPH MI	350,000	ELECTRIC	\$ 4,712	14.6
20 NILES HIGH SCHOOL	NILES MI	13,038,000	GAS	\$ 88,370	14.7
21 LAKE MICHIGAN COLLEGE	BENTON HARBOR MI	12,555,000	GAS	\$ 84,985	14.9
22 LAKE MICHIGAN COLLEGE	BENTON HARBOR MI	12,555,000	GAS	\$ 84,985	14.9
23 LAKE MICHIGAN COLLEGE	BENTON HARBOR MI	12,554,000	GAS	\$ 84,978	14.9
24 LAKELAND SPECIALTY HOSPITAL	BERRIEN SPRINGAS I	12,500,000	GAS	\$ 84,600	15.0
25 UPTON JR HIGH SCHOOL	ST JOSPEH MI	266,000	ELECTRIC	\$ 3,461	15.2
26 ST JOSEPH PUBLIC SCHOOL	ST JOSEPH MI	10,461,000	GAS	\$ 70,311	15.8
27 ST JOSEPH PUBLIC SCHOOL	ST JOSEPH MI	10,461,000	GAS	\$ 70,311	15.8
28 ST JOSEPH PUBLIC SCHOOL	ST JOSEPH MI	10,461,000	GAS	\$ 70,311	15.8
29 WATERVLIET HOSPITAL	WATERVLIET MI	10,461,000	GAS	\$ 70,311	15.8
30 LAKELAND COMMUNITY HOSPITAL	NILES MI	10,461,000	GAS	\$ 70,311	15.8
31 LAKELAND COMMUNITY HOSPITAL	NILES MI	10,461,000	GAS	\$ 70,311	15.8
32 PAWATING HOSPITAL	NILES MI	10,461,000	GAS	\$ 70,311	15.8
33 WATERVLIET HOSPITAL	WATERVLIET MI	10,461,000	GAS	\$ 70,311	15.8
34 COUNTY OF BERRIEN	ST JOSEPH MI	9,847,000	GAS	\$ 67,008	16.3
35 COLOMA MIDDLE SCHOOL	COLOMA MI	168,000	ELECTRIC	\$ 2,002	16.6
36 COLOMA FROZEN FOODS	COLOMA MI	9,187,000	GAS	\$ 62,382	17.1
37 ST JOSEPH SR HGH SCHOOL	ST JOSEPH MI	138,000	ELECTRIC	\$ 1,555	17.6
38 JACK POST CORP	BUCHANAN MI	8,625,000	GAS	\$ 58,444	17.8
39 JACK POST CORP	BUCHANAN MI	8,625,000	GAS	\$ 58,444	17.8
40 VAIL RUBBER WORKS	ST JOSEPH MI	8,500,000	GAS	\$ 57,568	17.9
41 LAKELAND SPECIALITY HOSPITAL	BERRIEN CENTER MI	8,375,000	GAS	\$ 56,692	18.1
42 CLARK ENGINEERING SVCS	BUCHANAN MI	8,375,000	GAS	\$ 56,692	18.1
43 MORTON SCHOOL	BENTON HARBOR MI	8,280,000	GAS	\$ 56,026	18.2
44 CNC PRODUCTS INC	NILES MI	8,240,000	GAS	\$ 55,746	18.2
45 NEW PRODUCTS	BENTON HARBOR MI	8,220,000	GAS	\$ 55,606	18.2
46 WATERVLIET PUBLIC SCHOOL	WATERVLIET MI	7,510,000	GAS	\$ 50,630	19.1
47 WHIRLPOOL CORPORATION/ETC	BENTON HARBOR MI	7,000,000	GAS	\$ 47,056	19.7

BERRIEN

Facility	City	Boiler Size	Fuel Type	Annual	
				Savings	Payback
48 WHIRLPOOL CORPORATION/ETC	BENTON HARBOR MI	7,000,000	GAS	\$ 47,056	19.7
49 COUNTY OF BERRIEN	ST JOSEPH MI	7,000,000	GAS	\$ 47,056	19.7

APPENDIX B COUNTY SUMMARIES

BRANCH

BTU		FUEL TYPE	
<750,000	145	GAS (Natural Gas)	249
750,001-2,500,000	52	PROPANE	0
2,500,001-5,000,000	4	OIL	6
5,000,001-15,000,000	5	WOOD	8
15,000,001-25,000,000	3	ELECTRIC	6
>25,000,001	1	COAL	5
N/A	64	OTHER	0
TOTAL	274	TOTAL	274

AGE		BOILER USE	
2000-present	52	Hot Water Heat	168
1980-1999	131	Hot Water Supply	41
1960-1979	64	Steam Heating	25
1945-1959	15	Power	20
older than 1945	12	Process Steam	8
N/A	0	Other	12
TOTAL	274	TOTAL	274

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	8,609
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	4		
Greater than 21 years	266		
TOTAL	274		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CONAGRA FOODS INC	QUINCY MI	25,110,000	GAS	\$ 172,971	10.1
2 CONAGRA FOODS INC	QUINCY MI	20,700,000	GAS	\$ 142,066	11.8
3 CONAGRA FOODS INC	QUINCY MI	20,290,000	GAS	\$ 139,192	11.9
4 DARLING INTERNATIONAL	COLDWATER MI	16,000,000	GAS	\$ 109,128	13.6
5 COLDWATER VENEER	COLDWATER MI	8,625,000	GAS	\$ 58,444	17.8
6 COLDWATER HIGH SCHOOL	COLDWATER MI	7,649,000	GAS	\$ 51,604	18.9
7 COLDWATER HIGH SCHOOL	COLDWATER MI	7,649,000	GAS	\$ 51,604	18.9
8 PONDEROSA	COLDWATER MI	110,000	ELECTRIC	\$ 1,138	19.2
9 QUINCY HIGH SCHOOL	QUINCY MI	5,250,000	GAS	\$ 34,792	22.0
10 QUINCY HIGH SCHOOL	QUINCY MI	5,250,000	GAS	\$ 34,792	22.0
11 BRANCH AREA CAREER CENT	COLDWATER MI	4,000,000	GAS	\$ 26,532	24.1
12 ST MARYS PARISH	BRONSON MI	3,312,000	GAS	\$ 21,710	25.5
13 PINE RIDGE BIBLE CHURCH	QUINCY MI	384,000	OIL	\$ 2,864	26.3
14 ANTIQUE SHOP	COLDWATER MI	206,000	OIL	\$ 1,305	31.3
15 FARM BUREAU OIL	COLDWATER MI	120,000	OIL	\$ 551	43.3
16 MAX LARSON ELEMENTARY SCHOOL	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
17 MAX LARSON ELEMENTARY SCHOOL	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
18 MAX LARSON ELEMENTARY SCHOOL	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
19 MAX LARSON ELEMENTARY SCHOOL	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
20 THE LAURELS OF COLDWATER	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
21 GIRARD ELEMENTARY	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
22 GIRARD ELEMENTARY	COLDWATER MI	1,300,000	GAS	\$ 639	380.6
23 COLDWATER HIGH SCHOOL	COLDWATER MI	1,260,000	GAS	\$ 604	391.1
24 BRANCH HUMAN SERVICES	COLDWATER MI	1,260,000	GAS	\$ 604	391.1
25 COLDWATER BAKERY	COLDWATER MI	1,260,000	GAS	\$ 604	391.1
26 SOAPYS JOES CAR WASH	COLDWATER MI	1,260,000	GAS	\$ 604	391.1
27 FIRST BAPTIST CHURCH	COLDWATER MI	1,250,000	GAS	\$ 595	393.9
28 BATTLE CREEK COUNTRY CLUB	BATTLE CREEK MI	1,200,000	GAS	\$ 551	409.3
29 CENTURY FINANCIAL	COLDWATER MI	1,200,000	GAS	\$ 551	409.3
30 JEFFERSON ELEMENTARY SCHOOL	COLDWATER MI	1,170,000	GAS	\$ 525	419.7
31 JEFFERSON ELEMENTARY SCHOOL	COLDWATER MI	1,170,000	GAS	\$ 525	419.7
32 JEFFERSON ELEMENTARY SCHOOL	COLDWATER MI	1,170,000	GAS	\$ 525	419.7
33 JEFFERSON ELEMENTARY SCHOOL	COLDWATER MI	1,170,000	GAS	\$ 525	419.7
34 DUTCHER FUNERAL HOME	COLDWATER MI	1,125,000	GAS	\$ 486	437.4
35 TIBBITS OPERA HOUSE	COLDWATER MI	1,100,000	GAS	\$ 464	448.4

APPENDIX B COUNTY SUMMARIES

CALHOUN

BTU		FUEL TYPE	
<750,000	516	GAS (Natural Gas)	910
750,001-2,500,000	176	PROPANE	1
2,500,001-5,000,000	36	OIL	12
5,000,001-15,000,000	54	WOOD	3
15,000,001-25,000,000	11	ELECTRIC	20
>25,000,001	9	COAL	11
N/A	156	OTHER	1
TOTAL	958	TOTAL	958

AGE		BOILER USE	
2000-present	219	Hot Water Heat	554
1980-1999	515	Hot Water Supply	168
1960-1979	184	Steam Heating	137
1945-1959	33	Power	52
older than 1945	7	Process Steam	29
N/A	0	Other	18
TOTAL	958	TOTAL	958

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	76,515
6-10 years	8	(Projects <20 yrs payback)	
11-15 years	20		
16-20 years	20		
Greater than 21 years	910		
TOTAL	958		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 KRAFT FOODS INC	BATTLE CREEK MI	124,300,000	OIL	\$ 1,841,076	5.5
2 WKK INSTITUTE OF FOOD AND NUTRITIO	BATTLE CREEK MI	48,246,000	GAS	\$ 333,108	5.9
3 WKK INSTITUTE OF FOOD AND NUTRITIO	BATTLE CREEK MI	48,246,000	GAS	\$ 333,108	5.9
4 RALSTON FOODS	BATTLE CREEK MI	45,260,000	GAS	\$ 312,182	6.1
5 RALSTON FOODS COMPANY	BATTLE CREEK MI	43,130,000	GAS	\$ 297,255	6.3
6 KELLOGG'S BATTLE CREEK PLANT	BATTLE CREEK MI	38,300,000	GAS	\$ 263,406	6.7
7 ROCK TENN	BATTLE CREEK MI	51,240,000	GAS	\$ 349,090	6.7
8 ROCK TENN	BATTLE CREEK MI	60,000,000	GAS	\$ 410,480	7.3
9 PHYSICAL PLANT	ALBION MI	25,200,000	GAS	\$ 173,602	10.1
10 JOSEPH CAMPBELL COMPANY	MARSHALL MI	24,494,000	GAS	\$ 168,654	10.3
11 JOSEPH CAMPBELL COMPANY	MARSHALL MI	21,616,000	GAS	\$ 148,485	11.4
12 JOSEPH CAMPBELL COMPANY	MARSHALL MI	21,616,000	GAS	\$ 148,485	11.4
13 ALBION COLLEGE-P H PLT	ALBION MI	21,000,000	GAS	\$ 144,168	11.7
14 PHYSICAL PLANT	ALBION MI	21,000,000	GAS	\$ 144,168	11.7
15 DENSO MANUFACTURING MICHIGAN INC	BATTLE CREEK MI	20,922,000	GAS	\$ 143,621	11.7
16 DENSO MANUFACTURING MICHIGAN INC	BATTLE CREEK MI	20,922,000	GAS	\$ 143,621	11.7
17 BATTLE CREEK HEALTH SYSTEMS	BATTLE CREEK MI	16,750,000	GAS	\$ 114,384	13.3
18 TORQUE CONTROL PRODUCTS	MARSHALL MI	16,736,000	GAS	\$ 114,286	13.3
19 TORQUE CONTROL PRODUCTS DIV	MARSHALL MI	16,736,000	GAS	\$ 114,286	13.3
20 NORTHWESTERN JHS	BATTLE CREEK MI	16,392,000	GAS	\$ 111,875	13.4
21 ALBION COLLEGE - OLIN	ALBION MI	777,600	ELECTRIC	\$ 11,080	13.5
22 PENNFIELD SCHOOLS	BATTLE CREEK MI	14,700,000	GAS	\$ 100,018	14.1
23 PENNFIELD HI SCHOOL	BATTLE CREEK MI	14,524,000	GAS	\$ 98,784	14.1
24 OAKLAWN HOSPITAL	MARSHALL MI	450,000	ELECTRIC	\$ 6,201	14.2
25 ALTIVITY PACKAGING LLC	BATTLE CREEK MI	13,820,000	GAS	\$ 93,851	14.4
26 NORTHWESTERN JR HIGH SCH	BATTLE CREEK MI	300,000	ELECTRIC	\$ 3,968	14.9
27 PLYMOUTH PACKAGING CO	BATTLE CREEK MI	12,500,000	GAS	\$ 84,600	15.0
28 FIELDSTONE CENTER	BATTLE CREEK MI	12,500,000	GAS	\$ 84,600	15.0
29 CALHOUN AREA TECH CENTER	BATTLE CREEK MI	10,463,000	GAS	\$ 70,325	15.8
30 CALHOUN AREA TECH. CENTER	BATTLE CREEK MI	10,463,000	GAS	\$ 70,325	15.8
31 FIELDSTONE CENTER	BATTLE CREEK MI	10,461,000	GAS	\$ 70,311	15.8
32 NARCONON STONE HAWK	ALBION MI	10,000,000	GAS	\$ 67,080	16.0
33 BATTLE CREEK CENTRAL HIGH SCHOOL	BATTLE CREEK MI	10,000,000	GAS	\$ 67,080	16.0
34 BATTLE CREEK CENTRAL HIGH SCHOOL	BATTLE CREEK MI	10,000,000	GAS	\$ 67,080	16.0
35 BATTLE CREEK CENTRAL HIGH SCHOOL	BATTLE CREEK MI	10,000,000	GAS	\$ 67,080	16.0
36 J AND M PLATING	ALBION MI	9,997,000	GAS	\$ 68,059	16.2
37 DENSO MANUFACTURING MICHIGAN INC	BATTLE CREEK MI	9,000,000	GAS	\$ 61,072	17.3
38 SPRINGFIELD JR HIGH SCH	BATTLE CREEK MI	8,625,000	GAS	\$ 58,444	17.8
39 MARSHALL MIDDLE SCHOOL	MARSHALL MI	8,400,000	GAS	\$ 56,867	18.0
40 MARSHALL HIGH SCHOOL	MARSHALL MI	8,400,000	GAS	\$ 56,867	18.0
41 MARSHALL HIGH SCHOOL	MARSHALL MI	8,400,000	GAS	\$ 56,867	18.0
42 MARSHAL HIGH SCHOOL	MARSHALL MI	8,400,000	GAS	\$ 56,867	18.0
43 DORIS KLAUSSEN DEVELOPMENT CENT	BATTLE CREEK MI	8,370,000	GAS	\$ 56,657	18.1
44 MERCY PAVILLION	BATTLE CREEK MI	8,369,000	GAS	\$ 56,650	18.1
45 STREAMLINE FOODS	BATTLE CREEK MI	7,900,000	GAS	\$ 53,363	18.6
46 SOUTHEASTERN JR HIGH SCH	BATTLE CREEK MI	7,500,000	GAS	\$ 50,560	19.1
47 ALBION HIGH SCHOOL	ALBION MI	110,000	ELECTRIC	\$ 1,138	19.2
48 OAKLAWN HOSPITAL	MARSHALL MI	6,800,000	GAS	\$ 45,654	20.0

APPENDIX B COUNTY SUMMARIES

CASS

BTU		FUEL TYPE	
<750,000	110	GAS (Natural Gas)	183
750,001-2,500,000	25	PROPANE	0
2,500,001-5,000,000	5	OIL	3
5,000,001-15,000,000	4	WOOD	7
15,000,001-25,000,000	1	ELECTRIC	0
>25,000,001	2	COAL	0
N/A	46	OTHER	0
TOTAL	193	TOTAL	193

AGE		BOILER USE	
2000-present	29	Hot Water Heat	120
1980-1999	107	Hot Water Supply	27
1960-1979	49	Steam Heating	27
1945-1959	2	Power	6
older than 1945	6	Process Steam	8
N/A	0	Other	5
TOTAL	193	TOTAL	193

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	5,041
1-5 Years	0	Potential Wood Use	4,910
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	1		
Greater than 21 years	190		
TOTAL	193		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 LEE MEMORIAL HOSPITAL	DOWAGIAC MI	25,040,000	GAS	\$ 172,480	10.1
2 LEE MEMORIAL HOSPITAL	DOWAGIAC MI	25,040,000	GAS	\$ 172,480	10.1
3 AMERIWOOD INDUSTRIES	DOWAGIAC MI	10,460,000	GAS	\$ 70,304	15.8
4 SOUTHERN MICHIGAN RUBBER	THREE RIVERS MI	5,250,000	GAS	\$ 34,792	22.0
5 EDWARDSBURG JR HIGH SCHOOL	EDWARDSBURG MI	5,231,000	GAS	\$ 34,659	22.0
6 EDWARDSBURG JR HIGH SCHOOL	EDWARDSBURG MI	5,231,000	GAS	\$ 34,659	22.0
7 P TILLER & L SHEARER	CASSOPOLIS MI	1,458,000	OIL	\$ 12,272	22.0
8 CONNELLY FUNERAL HME	CASSOPOLIS MI	500,000	OIL	\$ 3,880	25.1
9 JUSTUS GAGE	DOWAGIAC MI	3,342,000	GAS	\$ 21,921	25.4
10 DEPT OF MILITARY AFFAIRS	DOWAGIAC MI	3,050,000	GAS	\$ 19,874	26.0
11 MARCELLUS HIGH SCHOOL	MARCELLUS MI	3,000,000	GAS	\$ 19,524	26.1
12 MARCELLUS HIGH SCHOOL	MARCELLUS MI	3,000,000	GAS	\$ 19,524	26.1
13 HAYDEN HARDWARE	CASSOPOLIS MI	275,000	OIL	\$ 1,909	28.4
14 MARCELLUS HIGH SCHOOL	MARCELLUS MI	1,440,000	GAS	\$ 761	351.0
15 SOUTHWESTERN MICH COLLEGE	DOWAGIAC MI	1,402,000	GAS	\$ 728	358.1
16 SOUTHWESTERN MICH COL	DOWAGIAC MI	1,402,000	GAS	\$ 728	358.1
17 DOWAGIAC NURSING HOME	DOWAGIAC MI	1,400,000	GAS	\$ 726	358.5
18 JUSTUS GAGE	DOWAGIAC MI	1,327,000	GAS	\$ 662	374.1
19 S W MICHIGAN COLLEGE	DOWAGIAC MI	1,300,000	GAS	\$ 639	380.6
20 ROSS BEATTY HIGH SCHOOL	CASSOPOLIS MI	1,202,000	GAS	\$ 553	408.6
21 CASS COUNTY JAIL	CASSOPOLIS MI	1,200,000	GAS	\$ 551	409.3
22 CASS COUNTY JAIL	CASSOPOLIS MI	1,200,000	GAS	\$ 551	409.3
23 EAGLE LAKE ELEMENTARY SCHOOL	EDWARDSBURG MI	1,200,000	GAS	\$ 551	409.3
24 DOWAGIAC NURSING HOME	DOWAGIAC MI	1,150,000	GAS	\$ 507	427.2
25 CASS COUNTY MEDICAL CARE FACILITY	CASSOPOLIS MI	2,795,000	GAS	\$ 948	507.0
26 SOUTHWESTERN MICH COLL	DOWAGIAC MI	900,000	GAS	\$ 288	596.0
27 SOUTHWESTERN MICH COLL	DOWAGIAC MI	900,000	GAS	\$ 288	596.0
28 DOWAGIAC UNION SCHOOLS	DOWAGIAC MI	900,000	GAS	\$ 288	596.0
29 1ST UNITED METHODIST CH	DOWAGIAC MI	900,000	GAS	\$ 288	596.0
30 DOWAGIAC COMM PRESS	DOWAGIAC MI	792,000	GAS	\$ 194	785.0
31 MARCELLUS MIDDLE SCHL	MARCELLUS MI	2,270,000	GAS	\$ 489	823.9
32 MARCELLUS MIDDLE SCHOOL	MARCELLUS MI	2,270,000	GAS	\$ 489	823.9
33 SUDS YER DUDS	NILES MI	749,000	GAS	\$ 156	923.6
34 UNITED PRYSBT CH	CASSOPOLIS MI	738,000	GAS	\$ 146	970.4
35 EDWARDSBURG HIGH SCHOOL	EDWARDSBURG MI	736,000	GAS	\$ 145	979.6

APPENDIX B COUNTY SUMMARIES

CHARLEVOIX

BTU		FUEL TYPE	
<750,000	330	GAS (Natural Gas)	397
750,001-2,500,000	62	PROPANE	0
2,500,001-5,000,000	10	OIL	13
5,000,001-15,000,000	4	WOOD	3
15,000,001-25,000,000	0	ELECTRIC	3
>25,000,001	0	COAL	0
N/A	10	OTHER	0
TOTAL	416	TOTAL	416

AGE		BOILER USE	
2000-present	88	Hot Water Heat	365
1980-1999	241	Hot Water Supply	26
1960-1979	79	Steam Heating	10
1945-1959	7	Power	8
older than 1945	1	Process Steam	6
N/A	0	Other	1
TOTAL	416	TOTAL	416

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	98
1-5 Years	0	Potential Wood Use	-
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	0		
Greater than 21 years	416		
TOTAL	416		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BOYNE MOUNTAIN LODGE	BOYNE FALLS MI	6,000,000	GAS	\$ 40,048	21.0
2 CHARLEVOIX AREA HOSPITAL	CHARLEVOIX MI	5,230,000	GAS	\$ 34,652	22.0
3 CHARLEVOIX AREA HOSPITAL	CHARLEVOIX MI	5,230,000	GAS	\$ 34,652	22.0
4 CHARLEVOIX AREA HOSPITAL	CHARLEVOIX MI	5,230,000	GAS	\$ 34,652	22.0
5 EAST JORDAN HIGH SCHOOL	EAST JORDAN MI	4,500,000	GAS	\$ 30,036	23.2
6 EAST JORDAN HIGH SCHOOL	EAST JORDAN MI	4,500,000	GAS	\$ 30,036	23.2
7 EAST JORDAN COOP	EAST JORDAN MI	825,000	OIL	\$ 6,727	23.5
8 GREAT LAKES GAS	BOYNE FALLS MI	4,190,000	GAS	\$ 27,864	23.8
9 BOYNE MOUNTAIN LODGE INC	BOYNE FALLS MI	3,500,000	GAS	\$ 23,028	25.1
10 EAST JORDAN MIDDLE SCH	EAST JORDAN MI	3,080,000	GAS	\$ 20,085	25.9
11 EAST JORDAN MIDDLE SCH	EAST JORDAN MI	3,080,000	GAS	\$ 20,085	25.9
12 T B A I S D - Y E T P	BEAVER ISLAND MI	375,000	OIL	\$ 2,785	26.4
13 ST.JAMES TOWNSHIP HALL	ST JAMES MI	320,000	OIL	\$ 2,303	27.3
14 ACE HARDWARE	BEAVER ISLE MI	300,000	OIL	\$ 2,128	27.8
15 WALLOON CENTRAL POWER SPORTS	BOYNE FALLS MI	300,000	OIL	\$ 2,128	27.8
16 SHAMROCK BAR & REST	ST JAMES MI	188,000	OIL	\$ 1,147	32.5
17 SHAMROCK	BEAVER ISLAND MI	146,000	OIL	\$ 779	37.2
18 PEAINE TOWNSHIP HALL	ST JAMES MI	133,000	OIL	\$ 665	39.7
19 BEAVER ISLAND POST OFFICE	BEAVER ISLAND MI	125,000	OIL	\$ 595	41.8
20 JOHN ROBERTS	BEAVER ISLAND MI	90,000	OIL	\$ 288	69.3
21 CLIFF DWELLER LODGE	BOYNE FALLS MI	1,470,000	GAS	\$ 788	345.8
22 CHARLEVOIX COUNTY BLDG	CHARLEVOIX MI	1,372,000	GAS	\$ 702	364.1
23 CHARLEVOIX COUNTY BLDG	CHARLEVOIX MI	1,372,000	GAS	\$ 702	364.1
24 J Z EXPRESS WASH	BOYNE CITY MI	1,260,000	GAS	\$ 604	391.1
25 LINDA'S FARM	CHARLEVOIX MI	1,260,000	GAS	\$ 604	391.1
26 LINDA'S FARM	CHARLEVOIX MI	1,260,000	GAS	\$ 604	391.1
27 CHRIST LUTHERAN CHURCH	BOYNE CITY MI	1,200,000	GAS	\$ 551	409.3
28 BOYNE MOUNTAIN LODGE	BOYNE FALLS MI	1,200,000	GAS	\$ 551	409.3
29 BOULDER PARK TERRACE	CHARLEVOIX MI	1,200,000	GAS	\$ 551	409.3
30 BOULDER PARK TERRACE	CHARLEVOIX MI	1,200,000	GAS	\$ 551	409.3
31 WATER PLANT	CHARLEVOIX MI	1,200,000	GAS	\$ 551	409.3
32 WASTE WATER PLANT	CHARLEVOIX MI	1,170,000	GAS	\$ 525	419.7
33 THE MAX CAR WASH	BOYNE CITY MI	1,124,700	GAS	\$ 485	437.5
34 CITY OF CHERLEVOIX	CHARLEVOIX MI	1,100,000	GAS	\$ 464	448.4
35 GRANDVUE MED CARE FAC	EAST JORDAN MI	2,940,000	GAS	\$ 1,075	466.4

APPENDIX B COUNTY SUMMARIES

CHEBOYGAN

BTU		FUEL TYPE	
<750,000	213	GAS (Natural Gas)	288
750,001-2,500,000	61	PROPANE	0
2,500,001-5,000,000	10	OIL	5
5,000,001-15,000,000	6	WOOD	4
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	0	COAL	2
N/A	12	OTHER	1
TOTAL	302	TOTAL	302

AGE		BOILER USE	
2000-present	44	Hot Water Heat	251
1980-1999	181	Hot Water Supply	35
1960-1979	74	Steam Heating	3
1945-1959	2	Power	7
older than 1945	1	Process Steam	5
N/A	0	Other	1
TOTAL	302	TOTAL	302

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	724
1-5 Years	0	Potential Wood Use	3,347
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	4		
Greater than 21 years	298		
TOTAL	302		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 UAW EDUCATION CENTER	ONAWAY MI	10,461,000	GAS	\$ 70,311	15.8
2 UAW EDUCATION CENTER	ONAWAY MI	10,461,000	GAS	\$ 70,311	15.8
3 CHEBOYGAN HIGH SCHOOL	CHEBOYGAN MI	10,172,000	GAS	\$ 68,285	15.9
4 CHEBOYGAN HIGH SCHOOL	CHEBOYGAN MI	10,172,000	GAS	\$ 68,285	15.9
5 UAW EDUCATION CENTER	ONAWAY MI	6,400,000	GAS	\$ 42,851	20.5
6 UAW EDUCATION CENTER	ONAWAY MI	6,400,000	GAS	\$ 42,851	20.5
7 U A W EDUCATION CENTER	ONAWAY MI	2,500,000	OIL	\$ 20,400	21.4
8 UAW INTERNATIONAL ED	ONAWAY MI	2,500,000	OIL	\$ 20,400	21.4
9 COMMUNITY MEMORIAL HOSPITAL	CHEBOYGAN MI	4,718,000	GAS	\$ 31,564	22.8
10 CHEBOYGAN MEMORIAL HOSPITAL	CHEBOYGAN MI	4,718,000	GAS	\$ 31,564	22.8
11 CHEBOYGAN COUNTY BUILDING	CHEBOYGAN MI	4,300,000	GAS	\$ 28,634	23.6
12 CHEBOYGAN COUNTY BUILDING	CHEBOYGAN MI	4,300,000	GAS	\$ 28,634	23.6
13 CITY OF CHEBOYGAN	CHEBOYGAN MI	4,113,000	GAS	\$ 27,324	23.9
14 CHEBOYGAN ARMORY	CHEBOYGAN MI	3,770,000	GAS	\$ 24,920	24.6
15 WOLVERINE POWER SUPPLY COOPERA TOWER MI		249,000	OIL	\$ 1,681	29.3
16 WOLVERINE POWER SUPPLY COOPERA TOWER MI		249,000	OIL	\$ 1,681	29.3
17 JOHN PAUL VIAU	CHEBOYGAN MI	200,000	OIL	\$ 1,252	31.6
18 WOLVERINE ELEMENTARY SCHOOL	WOLVERINE MI	75,000	ELECTRIC	\$ 617	32.4
19 THUNDERFALLS WATER PARK	MACKINAW CITY MI	1,412,000	GAS	\$ 737	356.2
20 INVERNESS ELEMENTARY	CHEBOYGAN MI	1,400,000	GAS	\$ 726	358.5
21 INVERNESS ELEMENTARY	CHEBOYGAN MI	1,400,000	GAS	\$ 726	358.5
22 CROSS IN THE WOODS CHURCH	INDIAN RIVER MI	1,357,000	GAS	\$ 689	367.3
23 CROSS IN THE WOODS CHURCH	INDIAN RIVER MI	1,357,000	GAS	\$ 689	367.3
24 MACKINAW CITY SCHOOL	MACKINAW CITY MI	1,255,000	GAS	\$ 599	392.5
25 U A W EDUCATION CENTER	ONAWAY MI	1,100,000	GAS	\$ 464	448.4
26 INVERNESS DAIRY	CHEBOYGAN MI	2,929,000	GAS	\$ 1,066	469.1
27 NORTHWOOD PRODUCTS	CHEBOYGAN MI	1,020,000	GAS	\$ 394	492.0
28 HURON ST TABERNACLE	CHEBOYGAN MI	1,020,000	GAS	\$ 394	492.0
29 CHEBOYGAN CEMENT PRODUCTS	CHEBOYGAN MI	1,000,000	GAS	\$ 376	505.3
30 BEST WESTERN DOCKSIDE WATERFRONT	MACKINAW CITY MI	1,000,000	GAS	\$ 376	505.3
31 HAMILTON INN SELECTRICT	MACKINAW CITY MI	1,000,000	GAS	\$ 376	505.3
32 WESTSIDE ELEMENTARY	CHEBOYGAN MI	1,000,000	GAS	\$ 376	505.3
33 WESTSIDE ELEMENTARY	CHEBOYGAN MI	1,000,000	GAS	\$ 376	505.3
34 EASTSIDE ELEMENTARY	CHEBOYGAN MI	1,000,000	GAS	\$ 376	505.3
35 EASTSIDE ELEMENTARY	CHEBOYGAN MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

CHIPPEWA

BTU		FUEL TYPE	
<750,000	312	GAS (Natural Gas)	373
750,001-2,500,000	69	PROPANE	0
2,500,001-5,000,000	6	OIL	35
5,000,001-15,000,000	13	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	6
>25,000,001	2	COAL	0
N/A	16	OTHER	2
TOTAL	418	TOTAL	418

AGE		BOILER USE	
2000-present	103	Hot Water Heat	311
1980-1999	241	Hot Water Supply	32
1960-1979	64	Steam Heating	51
1945-1959	10	Power	19
older than 1945	0	Process Steam	5
N/A	0	Other	0
TOTAL	418	TOTAL	418

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	372
1-5 Years	0	Potential Wood Use	11,697
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	7		
Greater than 21 years	407		
TOTAL	418		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 LAKE SUPERIOR COLLEGE	SAULT STE MARIE MI	55,000,000	GAS	\$ 375,440	7.0
2 RUDYARD HIGH SCHOOL	RUDYARD MI	5,175,000	OIL	\$ 75,066	10.1
3 FOREST PLY INDUSTRIES	KINCHELOE MI	25,106,000	GAS	\$ 172,943	10.1
4 WAR MEMORIAL HOSPITAL	SAULT STE MARIE MI	14,200,000	GAS	\$ 96,514	14.3
5 WAR MEMORIAL HOSPITAL	SAULT STE MARIE MI	12,054,000	GAS	\$ 81,474	15.1
6 WAR MEMORIAL HOSPITAL	SAULT STE MARIE MI	10,460,000	GAS	\$ 70,304	15.8
7 STRAITS CORRECTIONAL FACILITY	KINCHELOE MI	141,000	ELECTRIC	\$ 1,600	17.5
8 SAULT STE MARIE HIGH SCHOOL	SAULT STE MARIE MI	7,323,000	GAS	\$ 49,320	19.3
9 HIGH SCHOOL	SAULT STE MARIE MI	7,323,000	GAS	\$ 49,320	19.3
10 SAULT STE MARIE HIGH SCHOOL	SAULT STE MARIE MI	7,323,000	GAS	\$ 49,320	19.3
11 STRAITS CORRECTIONAL FACILITY	KINCHELOE MI	105,000	ELECTRIC	\$ 1,064	19.6
12 US ARMY CORP OF ENGINEER	SAULT STE MARIE MI	6,300,000	GAS	\$ 42,150	20.6
13 US ARMY CORP OF ENGINEER	SAULT STE MARIE MI	6,300,000	GAS	\$ 42,150	20.6
14 US ARMY CORP OF ENGINEER	SAULT STE MARIE MI	6,300,000	GAS	\$ 42,150	20.6
15 RUDYARD HIGH SCHOOL	RUDYARD MI	6,277,000	GAS	\$ 41,989	20.6
16 CITY COUNTY BLDG	SAULT STE MARIE MI	5,800,000	GAS	\$ 38,646	21.2
17 CITY COUNTY BLDG.	SAULT STE MARIE MI	5,800,000	GAS	\$ 38,646	21.2
18 USA CORP OF ENGINEERS	SAULT STE MARIE MI	2,497,000	OIL	\$ 20,374	21.5
19 USA CORP OF ENGINEERS	SAULT STE MARIE MI	1,357,000	OIL	\$ 11,387	22.2
20 THE EVENING NEWS	SAULT STE MARIE MI	1,045,000	OIL	\$ 8,654	22.9
21 AMERICAN AMISH HEIRLOOMS	PICKFORD MI	1,008,000	OIL	\$ 8,330	23.0
22 DETOUR AREA SCHOOLS	DETOUR MI	1,007,000	OIL	\$ 8,321	23.0
23 DETOUR AREA SCHOOLS	DETOUR MI	1,007,000	OIL	\$ 8,321	23.0
24 DETOUR AREA SCHOOLS	DETOUR MI	1,007,000	OIL	\$ 8,321	23.0
25 SAULT AREA MIDDLE SCHOOL	SAULT STE MARIE MI	4,500,000	GAS	\$ 30,036	23.2
26 SAULT AREA MIDDLE SCHOOL	SAULT STE MARIE MI	4,500,000	GAS	\$ 30,036	23.2
27 TURNER HOWSON ELEMENTARY SCHOOL	RUDYARD MI	1,674,000	OIL	\$ 13,164	23.3
28 TURNER HOWSON ELEM SCH	RUDYARD MI	1,674,000	OIL	\$ 13,164	23.3
29 US CORP OF ENGINEERS	SAULT STE MARIE MI	4,330,000	GAS	\$ 28,845	23.5
30 QUALITY INN	SAULT STE MARIE MI	4,250,000	GAS	\$ 28,284	23.7
31 US CORP OF ENGINEERS	SAULT STE MARIE MI	3,969,000	GAS	\$ 26,315	24.2
32 DETOUR SCHOOLS	DETOUR VILLAGE MI	639,000	OIL	\$ 5,098	24.3
33 DETOUR SCHOOLS	DETOUR VILLAGE MI	639,000	OIL	\$ 5,098	24.3
34 DETOUR AREA SCHOOLS	DETOUR MI	529,000	OIL	\$ 4,134	24.9
35 TAYLORS TRUE VALUE HARDWARE	PICKFORD MI	502,000	OIL	\$ 3,898	25.1

APPENDIX B COUNTY SUMMARIES

CLARE

BTU		FUEL TYPE	
<750,000	197	GAS (Natural Gas)	245
750,001-2,500,000	38	PROPANE	0
2,500,001-5,000,000	8	OIL	3
5,000,001-15,000,000	0	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	0	COAL	0
N/A	9	OTHER	0
TOTAL	252	TOTAL	252
AGE		BOILER USE	
2000-present	62	Hot Water Heat	207
1980-1999	147	Hot Water Supply	36
1960-1979	43	Steam Heating	2
1945-1959	0	Power	4
older than 1945	0	Process Steam	3
N/A	0	Other	0
TOTAL	252	TOTAL	252
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	63
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	4		
Greater than 21 years	248		
TOTAL	252		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MID MICH MED CENTER	CLARE MI	262,000	ELECTRIC	\$ 3,402	15.2
2 RENOSOL SEATING	FARWELL MI	262,000	ELECTRIC	\$ 3,402	15.2
3 HARRISON MIDDLE SCHOOL	HARRISON MI	136,607	ELECTRIC	\$ 1,534	17.7
4 RENOSOL CORPORATION	FARWELL MI	110,000	ELECTRIC	\$ 1,138	19.2
5 CAMP ROTARY	CLARE MI	1,372,000	OIL	\$ 11,519	22.2
6 EXPRESS CAR WASH & LUBE	CLARE MI	1,960,000	OIL	\$ 15,670	22.6
7 GREAT LAKES GAS TRANSMISSION CO	LAKE GEORGE MI	4,200,000	GAS	\$ 27,934	23.8
8 GREAT LAKES GAS TRANSMISSION CO	LAKE GEORGE MI	4,200,000	GAS	\$ 27,934	23.8
9 STAGERIGHT CORPORATION	CLARE, MI	3,200,000	GAS	\$ 20,926	25.7
10 CAMP ROTARY	CLARE MI	385,000	OIL	\$ 2,873	26.3
11 HILLSIDE ELEM SCHOOL	HARRISON MI	1,440,000	GAS	\$ 761	351.0
12 HILLSIDE ELEM SCHOOL	HARRISON MI	1,440,000	GAS	\$ 761	351.0
13 GAMBLE READY MIX	HARRISON MI	1,375,000	GAS	\$ 705	363.5
14 MID MICH COMM COLLEGE	HARRISON MI	1,260,000	GAS	\$ 604	391.1
15 ALPENA COMP. STATION	HARRISON MI	1,250,000	GAS	\$ 595	393.9
16 GAMBLE READY MIX	HARRISON, MI	1,200,000	GAS	\$ 551	409.3
17 MIDDLE SCHOOL	FARWELL MI	1,125,000	GAS	\$ 486	437.4
18 MIDDLE SCHOOL	FARWELL MI	1,125,000	GAS	\$ 486	437.4
19 WATER FALL CAR WASH	FARWELL MI	1,010,000	GAS	\$ 385	498.5
20 CLARE PRIMARY SCHOOL	CLARE MI	2,793,000	GAS	\$ 947	507.7
21 CLARE PRIMARY SCHOOL	CLARE MI	2,793,000	GAS	\$ 947	507.7
22 CLARE PRIMARY SCHOOL	CLARE MI	2,793,000	GAS	\$ 947	507.7
23 SUPER CAR WASH SYSTEMS	CLARE MI	990,000	GAS	\$ 367	512.5
24 DOHERTY HOTEL	CLARE MI	990,000	GAS	\$ 367	512.5
25 NORTHWOODS NURSING CTR	FARWELL MI	990,000	GAS	\$ 367	512.5
26 AM BLE ELEM SCHOOL	HARRISON MI	990,000	GAS	\$ 367	512.5
27 AMBLE ELEM SCHOOL	HARRISON MI	990,000	GAS	\$ 367	512.5
28 HARRISON MIDDLE SCHOOL	HARRISON MI	990,000	GAS	\$ 367	512.5
29 COUNTY OF CLARE	HARRISON MI	2,750,000	GAS	\$ 909	521.9
30 COUNTY OF CLARE	HARRISON MI	975,000	GAS	\$ 354	523.8
31 COUNTY OF CLARE	HARRISON MI	975,000	GAS	\$ 354	523.8
32 SUPER AUTO WASH	CLARE MI	970,000	GAS	\$ 350	527.8
33 CLARE GLADWIN RESD SCH	CLARE MI	961,700	GAS	\$ 342	534.7
34 CLARE GLADWIN RESD SCH	CLARE MI	961,700	GAS	\$ 342	534.7
35 CONSUMERS ENERGY	MARION MI	2,700,000	GAS	\$ 865	539.9

APPENDIX B COUNTY SUMMARIES

CLINTON

BTU			FUEL TYPE	
<750,000	214		GAS (Natural Gas)	341
750,001-2,500,000	69		PROPANE	0
2,500,001-5,000,000	31		OIL	11
5,000,001-15,000,000	11		WOOD	2
15,000,001-25,000,000	0		ELECTRIC	4
>25,000,001	4		COAL	0
N/A	29		OTHER	0
TOTAL	358		TOTAL	358
AGE			BOILER USE	
2000-present	85		Hot Water Heat	263
1980-1999	190		Hot Water Supply	54
1960-1979	65		Steam Heating	21
1945-1959	14		Power	12
older than 1945	4		Process Steam	6
N/A	0		Other	2
TOTAL	358		TOTAL	358
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	-
1-5 Years	1		Potential Wood Use	15,567
6-10 years	3		(Projects <20 yrs payback)	
11-15 years	0			
16-20 years	3			
Greater than 21 years	351			
TOTAL	358			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ST JOHNS HIGH SCHOOL	ST JOHNS MI	36,884,000	ELECTRIC	\$ 770,449	2.2
2 MICHIGAN MILK PRODUCERS	OVID MI	48,032,000	GAS	\$ 331,608	5.9
3 MICH MILK PROD ASSOC	OVID MI	44,000,000	GAS	\$ 303,352	6.2
4 JR HIGH SCHOOL	DEWITT MI	42,000,000	GAS	\$ 289,336	6.4
5 DEWITT HIGH SCHOOL	LANSING MI	7,000,000	GAS	\$ 47,056	19.7
6 DEWITT HIGH SCHOOL	LANSING MI	7,000,000	GAS	\$ 47,056	19.7
7 DEWITT HIGH SCHOOL	LANSING MI	7,000,000	GAS	\$ 47,056	19.7
8 FEDERAL MOGUL CORP	ST JOHNS MI	6,375,000	GAS	\$ 42,676	20.5
9 FEDERAL MOGUL CORPORATION	ST JOHNS MI	6,344,000	GAS	\$ 42,459	20.5
10 SO CLINTON W W T PLANT	DEWITT MI	6,278,000	GAS	\$ 41,996	20.6
11 SO CLINTON W W T PLANT	DEWITT MI	6,278,000	GAS	\$ 41,996	20.6
12 FEDERAL MOGUL CORP	ST JOHNS MI	6,100,000	GAS	\$ 40,749	20.8
13 HOLY TRINITY CATHOLIC SC	FOWLER MI	2,788,000	OIL	\$ 22,923	20.9
14 NORTH ELEMENTARY	OVID MI	6,000,000	GAS	\$ 40,048	21.0
15 PEWAMO WESTPHALIA HIGH SCHOOL	PEWAMO MI	5,400,000	GAS	\$ 35,843	21.8
16 DANA CORP	ST JOHNS MI	5,230,000	GAS	\$ 34,652	22.0
17 VALVOLINE EXPRESS CARE	HASLETT MI	1,428,000	OIL	\$ 12,009	22.1
18 VALVOLINE EXPRESS CARE	HASLETT MI	1,428,000	OIL	\$ 12,009	22.1
19 ST JOHNS MIDDLE SCHOOL	ST JOHNS MI	4,470,000	GAS	\$ 29,826	23.3
20 ST JOHNS MIDDLE SCHOOL	ST JOHNS MI	4,470,000	GAS	\$ 29,826	23.3
21 JR HIGH SCHOOL	DEWITT MI	4,200,000	GAS	\$ 27,934	23.8
22 FEDERAL MOGUL CORPORATION	SAINT JOHNS MI	4,187,000	GAS	\$ 27,842	23.8
23 CLINTON COUNTY GOVERNMENT COMPT	ST JOHNS MI	4,185,000	GAS	\$ 27,828	23.8
24 CLINTON COUNTY GOVERNMENT COMPT	ST JOHNS MI	4,185,000	GAS	\$ 27,828	23.8
25 CLINTON COUNTY GOVERNMENT COMPT	ST JOHNS MI	4,185,000	GAS	\$ 27,828	23.8
26 SHERIDAN ROAD SCHOOL	LANSING MI	4,000,000	GAS	\$ 26,532	24.1
27 WILSON CENTER	ST JOHNS MI	3,750,000	GAS	\$ 24,780	24.6
28 APEX 1	LANSING MI	531,000	OIL	\$ 4,152	24.9
29 OVID-ELSIE MIDDLE SCHOOL	ELSIE MI	3,360,000	GAS	\$ 22,047	25.4
30 OVID-ELSIE MIDDLE SCHOOL	ELSIE MI	3,360,000	GAS	\$ 22,047	25.4
31 DANA CORPORATION	ST JOHNS MI	3,347,000	GAS	\$ 21,956	25.4
32 FOWLER HIGH SCHOOL	FOWLER MI	3,347,000	GAS	\$ 21,956	25.4
33 SAINT JOHNS HIGH SCHOOLS	ST JOHNS MI	3,300,000	GAS	\$ 21,626	25.5
34 SAINT JOHNS HIGH SCHOOLS	ST JOHNS MI	3,300,000	GAS	\$ 21,626	25.5
35 SAINT JOHNS HIGH SCHOOLS	ST JOHNS MI	3,300,000	GAS	\$ 21,626	25.5

APPENDIX B COUNTY SUMMARIES

CRAWFORD

BTU		FUEL TYPE	
<750,000	162	GAS (Natural Gas)	198
750,001-2,500,000	25	PROPANE	0
2,500,001-5,000,000	3	OIL	3
5,000,001-15,000,000	6	WOOD	6
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	5	COAL	0
N/A	8	OTHER	0
TOTAL	209	TOTAL	209

AGE		BOILER USE	
2000-present	43	Hot Water Heat	169
1980-1999	142	Hot Water Supply	24
1960-1979	22	Steam Heating	5
1945-1959	2	Power	10
older than 1945	0	Process Steam	1
N/A	0	Other	0
TOTAL	209	TOTAL	209

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	213,256
1-5 Years	0	Potential Wood Use	25,301
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	5		
Greater than 21 years	200		
TOTAL	209		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 WEYERHAEUSER COMPANY	GRAYLING MI	40,000,000	GAS	\$ 275,320	6.5
2 GEORGIA PACIFIC	GRAYLING MI	31,320,000	GAS	\$ 214,491	7.2
3 GRAYLING ELEMENTARY SCH	GRAYLING MI	5,230,000	OIL	\$ 75,885	10.0
4 AJD FOREST PRODUCTS	GRAYLING MI	12,600,000	GAS	\$ 85,301	14.9
5 SPRINGAS INDUSTRIES INC	GRAYLING MI	10,350,000	GAS	\$ 69,533	15.9
6 CAMP GRAYLING OFF.CLUB	GRAYLING MI	198,000,000	GAS	\$ 1,377,584	17.1
7 AMMD SUPPLY DEPOT	GRAYLING MI	109,000	ELECTRIC	\$ 1,123	19.3
8 GRAYLING HIGH SCHOOL	GRAYLING MI	7,325,000	GAS	\$ 49,334	19.3
9 CRAWFORD AUSABLE SCHOOL	GRAYLING MI	7,000,000	GAS	\$ 47,056	19.7
10 CAMP GRAYLING	GRAYLING MI	2,092,000	OIL	\$ 16,826	22.3
11 TV 9-10	CADILLAC MI	482,000	OIL	\$ 3,722	25.3
12 FREDERIC ELEM SCHOOL	FREDERIC MI	1,410,000	GAS	\$ 735	356.5
13 FREDERIC ELEM SCHOOL	FREDERIC MI	1,410,000	GAS	\$ 735	356.5
14 NEW MATES	GRAYLING MI	1,250,000	GAS	\$ 595	393.9
15 CAMP LEHMAN	GRAYLING MI	1,200,000	GAS	\$ 551	409.3
16 CAMP LEHMAN	GRAYLING MI	1,200,000	GAS	\$ 551	409.3
17 LEHMAN	GRAYLING MI	1,200,000	GAS	\$ 551	409.3
18 MONARCH MILLWORK	GRAYLING MI	2,930,000	GAS	\$ 1,067	468.9
19 CAMP GRAYLING	GRAYLING MI	1,000,000	GAS	\$ 376	505.3
20 AU SABLE WOOD WORKING CO	FREDERIC MI	2,800,000	GAS	\$ 953	505.5
21 MICHELSON MEORIAL UN MET	GRAYLING MI	990,000	GAS	\$ 367	512.5
22 MICHELSON MEORIAL UN MET	GRAYLING MI	990,000	GAS	\$ 367	512.5
23 DIANES MILLTOWN CAR WASH	GRAYLING MI	961,700	GAS	\$ 342	534.7
24 CAMP GRAYLING	GRAYLING MI	937,000	GAS	\$ 321	556.8
25 CAMP GRAYLING	GRAYLING MI	895,000	GAS	\$ 284	602.0
26 AUSABLE PRIMARY	GRAYLING MI	825,000	GAS	\$ 223	710.3
27 GRAYLING LAUNDROMAT	GRAYLING MI	800,000	GAS	\$ 201	764.9
28 CRAWFORD AUSABLE SCHOOL DISTRICT	GRAYLING MI	800,000	GAS	\$ 201	764.9
29 CAMP LEHMAN	GRAYLING MI	2,188,000	GAS	\$ 417	935.3
30 DAYS INN	GRAYLING MI	745,000	GAS	\$ 153	939.9
31 HOLIDAY INN	GRAYLING MI	726,000	GAS	\$ 136	1,029.1
32 EZ BUILT HOMES	GRAYLING MI	2,092,000	GAS	\$ 333	1,126.4
33 CAMP GRAYLING	GRAYLING MI	668,000	GAS	\$ 85	1,516.3
34 CAMP GRAYLING	GRAYLING MI	650,000	GAS	\$ 69	1,812.3
35 GEORGIA PACIFIC CORPORATION	GRAYLING MI	644,000	GAS	\$ 64	1,943.3

APPENDIX B COUNTY SUMMARIES

DELTA

BTU		FUEL TYPE	
<750,000	401	GAS (Natural Gas)	508
750,001-2,500,000	75	PROPANE	0
2,500,001-5,000,000	20	OIL	22
5,000,001-15,000,000	2	WOOD	8
15,000,001-25,000,000	0	ELECTRIC	8
>25,000,001	0	COAL	5
N/A	53	OTHER	0
TOTAL	551	TOTAL	551

AGE		BOILER USE	
2000-present	103	Hot Water Heat	457
1980-1999	333	Hot Water Supply	32
1960-1979	99	Steam Heating	28
1945-1959	11	Power	22
older than 1945	5	Process Steam	9
N/A	0	Other	3
TOTAL	551	TOTAL	551

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	2,688
1-5 Years	0	Potential Wood Use	856
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	4		
Greater than 21 years	547		
TOTAL	551		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ELECTRICAL DEPARTMENT FAC.	ESCANABA MI	265,000	ELECTRIC	\$ 3,446	15.2
2 ST FRANCIS HOSPITAL	ESCANABA MI	10,043,000	GAS	\$ 67,381	16.0
3 SANDS MOTEL	ESCANABA MI	120,000	ELECTRIC	\$ 1,287	18.5
4 SANDS MOTEL	ESCANABA MI	120,000	ELECTRIC	\$ 1,287	18.5
5 SAULT STE MARIE BRIDGE	WELLS MI	2,980,000	OIL	\$ 24,605	20.6
6 ST ANN'S	ESCANABA MI	5,231,000	GAS	\$ 34,659	22.0
7 MID PENINSULA SCHOOL	ROCK MI	2,009,000	OIL	\$ 16,099	22.5
8 GLADSTONE SUPERLUBE INC	GLADSTONE MI	895,000	OIL	\$ 7,340	23.3
9 UP CONCRETE & GRAVEL	BARK RIVER MI	800,000	OIL	\$ 6,508	23.6
10 ESCANABA CITY GARAGE	ESCANABA MI	1,520,000	OIL	\$ 11,815	23.8
11 DELTA CO SERVICE CENTER	ESCANABA MI	4,184,000	GAS	\$ 27,821	23.8
12 ST JOSEPHS CHURCH	PERKINS MI	680,400	OIL	\$ 5,460	24.1
13 ESCANABA STEAM LAUNDRY	ESCANABA MI	3,500,000	GAS	\$ 23,028	25.1
14 CAMERON SCHOOL	GLADSTONE MI	3,500,000	GAS	\$ 23,028	25.1
15 ESCANABA STATE OFFICE BUILDING	ESCANABA MI	3,450,000	GAS	\$ 22,678	25.2
16 GREAT LAKES GAS TRANSMISSION STA	TRAPID RIVER MI	3,350,000	GAS	\$ 21,977	25.4
17 BAY DE NOC COMM COLLEGE	ESCANABA MI	3,000,000	GAS	\$ 19,524	26.1
18 BAY DE NOC COMM COLLEGE	ESCANABA MI	3,000,000	GAS	\$ 19,524	26.1
19 GLADSTONE HIGH SCHOOL	GLADSTONE MI	3,000,000	GAS	\$ 19,524	26.1
20 GLADSTONE HIGH SCHOOL	GLADSTONE MI	3,000,000	GAS	\$ 19,524	26.1
21 GLADSTONE HIGH SCHOOL	GLADSTONE MI	3,000,000	GAS	\$ 19,524	26.1
22 SEWAGE TREATMENT PLANT	GLADSTONE MI	3,000,000	GAS	\$ 19,524	26.1
23 MID PENINSULA SCHOOL DISTRICT	ROCK MI	385,000	OIL	\$ 2,873	26.3
24 ST. JOHN BAPT. CATH. CH.	GARDEN MI	348,000	OIL	\$ 2,548	26.8
25 FAY BOPP/SALOON	GLADSTONE MI	300,000	OIL	\$ 2,128	27.8
26 MARY GROVE RETREAT HOUSE	GARDEN MI	295,000	OIL	\$ 2,084	27.9
27 MARY GREVE RETREAT HOUSE	GARDEN MI	295,000	OIL	\$ 2,084	27.9
28 MARY GROVE RETREAT HOUSE	GARDEN MI	295,000	OIL	\$ 2,084	27.9
29 ROCK SENIOR CITIZENS CTR	ROCK MI	175,000	OIL	\$ 1,033	33.6
30 ST JOSPH'S PARISH	PERKINS MI	131,000	OIL	\$ 648	40.2
31 BAY DE NOC COMMUNITY COLLEGE	ESCANABA MI	52,500	ELECTRIC	\$ 282	71.0
32 BAY DE NOC COMMUNITY COLLEGE	ESCANABA MI	52,500	ELECTRIC	\$ 282	71.0
33 BAY DE NOC COMMUNITY COLLEGE	ESCANABA MI	52,500	ELECTRIC	\$ 282	71.0
34 DELTA COUNTY SERV CTR	ESCANABA MI	1,438,000	GAS	\$ 760	351.4
35 BONIFACE BUILDING	ESCANABA MI	1,410,000	GAS	\$ 735	356.5

APPENDIX B COUNTY SUMMARIES

DICKINSON

BTU		FUEL TYPE	
<750,000	291	GAS (Natural Gas)	371
750,001-2,500,000	56	PROPANE	0
2,500,001-5,000,000	9	OIL	12
5,000,001-15,000,000	6	WOOD	6
15,000,001-25,000,000	1	ELECTRIC	3
>25,000,001	2	COAL	0
N/A	28	OTHER	1
TOTAL	393	TOTAL	393

AGE		BOILER USE	
2000-present	86	Hot Water Heat	314
1980-1999	232	Hot Water Supply	34
1960-1979	68	Steam Heating	17
1945-1959	6	Power	16
older than 1945	1	Process Steam	12
N/A	0	Other	0
TOTAL	393	TOTAL	393

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	12,319
1-5 Years	0	Potential Wood Use	4,734
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	0		
Greater than 21 years	390		
TOTAL	393		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 LOUISIANA-PACIFIC CORP	SAGOLA MI	36,000,000	GAS	\$ 247,288	6.8
2 LODAL INC	KINGASFORD MI	21,562,500	GAS	\$ 148,110	11.4
3 LOUISIANA PACIFIC CORP	SAGOLA MI	800,000	ELECTRIC	\$ 11,414	13.5
4 MULTI COLOR CORPORATION	NORWAY MI	6,277,000	GAS	\$ 41,989	20.6
5 KHOURY INC	KINGASFORD MI	6,008,000	GAS	\$ 40,104	21.0
6 KHOURY INC	KINGASFORD MI	6,008,000	GAS	\$ 40,104	21.0
7 BREITUNG TOWNSHIP HIGH SCHOOL	KINGASFORD MI	5,500,000	GAS	\$ 36,544	21.6
8 BREITUNG TOWNSHIP HIGH SCHOOL	KINGASFORD MI	5,500,000	GAS	\$ 36,544	21.6
9 CITY GARAGE	KINGASFORD MI	2,100,000	OIL	\$ 16,896	22.2
10 WE ENERGIES IRON MOUNTAIN SERVICE	IRON MOUNTAIN MI	2,092,000	OIL	\$ 16,826	22.3
11 WE ENERGIES IRON MOUNTAIN SERVICE	IRON MOUNTAIN MI	2,092,000	OIL	\$ 16,826	22.3
12 BACCO CONSTRUCTION	IRON MOUNTAIN MI	950,000	OIL	\$ 7,822	23.1
13 CITY GARAGE	IRON MOUNTAIN MI	1,530,000	OIL	\$ 11,903	23.7
14 NORTH DICKINSON CO SCHLS	IRON MOUNTAIN MI	3,520,000	GAS	\$ 23,168	25.0
15 K-5 IRON MOUNTAIN SCHOOL	IRON MOUNTAIN MI	3,150,000	GAS	\$ 20,575	25.8
16 CENTRAL MIDDLE ELEMENTARY SCHOO	IRON MOUNTAIN MI	3,150,000	GAS	\$ 20,575	25.8
17 CENTRAL MIDDLE ELEMENTARY SCHOO	IRON MOUNTAIN MI	3,150,000	GAS	\$ 20,575	25.8
18 K-5 IRON MOUNTIN SCHOOL	IRON MOUNTAIN MI	3,050,000	GAS	\$ 19,874	26.0
19 ESCANABA LK SUPERIOR RR	CHANNING MI	200,000	OIL	\$ 1,252	31.6
20 WE ENERGIES IRON MOUNTAIN SERVICE	IRON MOUNTAIN MI	86,400	OIL	\$ 257	77.9
21 NELSON PAINT COMPANY	KINGASFORD MI	1,470,000	GAS	\$ 788	345.8
22 MILLER PRODUCT AND SUPPLY	IRON MOUNTAIN MI	1,400,000	GAS	\$ 726	358.5
23 IMMANUEL BAPTIST CHURCH	KINGASFORD MI	1,360,000	GAS	\$ 691	366.7
24 KINGASFORD-IRON MTN WWP	KINGASFORD MI	1,357,000	GAS	\$ 689	367.3
25 UP SPECIAL DELIVERY	KINGASFORD MI	1,260,000	GAS	\$ 604	391.1
26 ANDERSON ENDOWMENT MED CTR	NORWAY MI	1,208,000	GAS	\$ 558	406.7
27 ANDERSON ENDOWMENT MED CTR	NORWAY MI	1,208,000	GAS	\$ 558	406.7
28 CHAMPION CEMENT PLANT	IRON MOUNTAIN MI	1,090,000	GAS	\$ 455	453.2
29 INTERNATIONAL PAPER CO	QUINNESEC MI	2,952,000	GAS	\$ 1,086	463.4
30 CHURCH OF AMERICA MATRS	KINGASFORD MI	1,040,000	GAS	\$ 411	479.7
31 HULST MANOR	IRON MOUNTAIN MI	1,020,000	GAS	\$ 394	492.0
32 HULST MANOR	IRON MOUNTAIN MI	1,020,000	GAS	\$ 394	492.0
33 NORTH DICKINSON CO SCHLS	IRON MOUNTAIN MI	1,000,000	GAS	\$ 376	505.3
34 NORTH DICKINSON CO SCHLS	IRON MOUNTAIN MI	1,000,000	GAS	\$ 376	505.3
35 PINE MOUNTAIN RESORT	IRON MOUNTAIN MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

EATON

BTU		FUEL TYPE	
<750,000	456	GAS (Natural Gas)	677
750,001-2,500,000	142	PROPANE	1
2,500,001-5,000,000	31	OIL	4
5,000,001-15,000,000	25	WOOD	6
15,000,001-25,000,000	1	ELECTRIC	17
>25,000,001	4	COAL	1
N/A	47	OTHER	0
TOTAL	706	TOTAL	706

AGE		BOILER USE	
2000-present	210	Hot Water Heat	451
1980-1999	347	Hot Water Supply	173
1960-1979	134	Steam Heating	37
1945-1959	10	Power	32
older than 1945	5	Process Steam	10
N/A	0	Other	3
TOTAL	706	TOTAL	706

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	3,437
1-5 Years	0	Potential Wood Use	27,872
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	16		
Greater than 21 years	682		
TOTAL	706		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ERICKSON STATION	LANSING MI	20,922,000	OIL	\$ 308,570	5.4
2 GENERAL MOTORS CORP	LANSING MI	33,476,000	GAS	\$ 229,600	7.0
3 ENERGY CONVERSION CENTER	LANSING MI	33,440,000	GAS	\$ 229,348	7.0
4 ENERGY CONVERSION CENTER	LANSING MI	60,000,000	GAS	\$ 410,480	7.3
5 ENERGY CONVERSION CENTER	LANSING MI	60,000,000	GAS	\$ 410,480	7.3
6 GENERAL MOTORS CORP	LANSING MI	13,390,000	GAS	\$ 90,837	14.6
7 GENERAL MOTORS CORP	LANSING MI	13,390,000	GAS	\$ 90,837	14.6
8 GENERAL MOTORS CORP	LANSING MI	13,390,000	GAS	\$ 90,837	14.6
9 YOUNKERS	LANSING MI	10,488,000	GAS	\$ 70,500	15.8
10 WAVERLY HIGH SCHOOL	LANSING MI	10,461,000	GAS	\$ 70,311	15.8
11 WAVERLY HIGH SCHOOL	LANSING MI	10,461,000	GAS	\$ 70,311	15.8
12 GRAND LEDGE HIGH SCHOOL	GRAND LEDGE MI	10,350,000	GAS	\$ 69,533	15.9
13 GM POWERTRAIN PLANT 5	LANSING MI	9,900,000	GAS	\$ 67,379	16.3
14 GM POWERTRAIN PLANT 5	LANSING MI	9,900,000	GAS	\$ 67,379	16.3
15 WAVERLY SENIOR HIGH	LANSING MI	168,000	ELECTRIC	\$ 2,002	16.6
16 AINGER BIBLE CHURCH	OLIVET MI	300,000	PROPANE	\$ 3,442	17.2
17 DIMONDALE NURSING CARE CENTER LL	DIMONDALE MI	140,000	ELECTRIC	\$ 1,585	17.5
18 DONS RESTAURANT	DIMONDALE MI	140,000	ELECTRIC	\$ 1,585	17.5
19 LAND O'LAKES/PURINA MILLS	LANSING MI	8,369,000	GAS	\$ 56,650	18.1
20 COCA COLA BOTTLING CO	LANSING MI	8,369,000	GAS	\$ 56,650	18.1
21 HAYES GREENE BEACH MEMORIAL	CHARLOTTE MI	8,164,600	GAS	\$ 55,218	18.3
22 HAYES GREENE BEACH MEMORIAL	CHARLOTTE MI	8,164,600	GAS	\$ 55,218	18.3
23 STATE POLICE TRAINING CT	LANSING MI	124,000	ELECTRIC	\$ 1,347	18.3
24 CRACKER BARREL RESTAURANT	LANSING MI	120,000	ELECTRIC	\$ 1,287	18.5
25 EATON RAPIDS HIGH SCHOOL	EATON RAPIDS MI	6,280,000	GAS	\$ 42,010	20.6
26 EATON RAPIDS HIGH SCHOOL	EATON RAPIDS MI	6,275,000	GAS	\$ 41,975	20.6
27 EATON RAPIDS PUBLIC SCHOOL	EATON RAPIDS MI	6,275,000	GAS	\$ 41,975	20.6
28 OLIVET MIDDLE SCHOOL	OLIVET MI	6,000,000	GAS	\$ 40,048	21.0
29 EATON RAPIDS MIDDLE SCHL	EATON RAPIDS MI	5,710,000	GAS	\$ 38,016	21.4
30 EATON RAPIDS 5/6	EATON RAPIDS MI	5,710,000	GAS	\$ 38,016	21.4
31 BELLEVUE MIDDLE SCHOOL	BELLEVUE MI	5,230,000	GAS	\$ 34,652	22.0
32 POTTERVILLE MIDDLE SCHOOL	POTTERVILLE MI	5,230,000	GAS	\$ 34,652	22.0
33 GRAND LEDGE HIGH SCHOOL	GRAND LEDGE MI	5,175,000	GAS	\$ 34,266	22.1
34 BEAGLE MIDDLE SCHOOL	GRAND LEDGE MI	5,008,000	GAS	\$ 33,096	22.3
35 KING ST ELEMENTARY SCHOOL	EATON RAPIDS MI	5,000,000	GAS	\$ 33,040	22.3

APPENDIX B COUNTY SUMMARIES

EMMET

BTU		FUEL TYPE	
<750,000	441	GAS (Natural Gas)	575
750,001-2,500,000	118	PROPANE	0
2,500,001-5,000,000	18	OIL	11
5,000,001-15,000,000	9	WOOD	4
15,000,001-25,000,000	2	ELECTRIC	7
>25,000,001	0	COAL	0
N/A	9	OTHER	0
TOTAL	597	TOTAL	597
AGE		BOILER USE	
2000-present	147	Hot Water Heat	496
1980-1999	334	Hot Water Supply	49
1960-1979	101	Steam Heating	23
1945-1959	10	Power	20
older than 1945	5	Process Steam	8
N/A	0	Other	1
TOTAL	597	TOTAL	597
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	4,252
1-5 Years	0	Potential Wood Use	6,556
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	6		
16-20 years	3		
Greater than 21 years	586		
TOTAL	597		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BIRCHWOOD INN	HARBOR SPRINGS MI	20,700,000	OIL	\$ 305,264	5.5
2 N CENTRAL MICH COLLEGE	PETOSKEY MI	6,277,000	OIL	\$ 91,477	9.5
3 SACRAMENTINE MONASTERY	CONWAY MI	5,250,000	OIL	\$ 76,183	10.0
4 SACRAMENTINE MONASTERY	CONWAY MI	5,000,000	OIL	\$ 72,460	10.2
5 BIOLOGICAL STATION	PELLSTON MI	3,370,000	OIL	\$ 48,686	11.5
6 NORTHERN MICHIGAN HOSP	PETOSKEY MI	19,500,000	GAS	\$ 133,656	12.2
7 KARENS GALLERY GOURMET	BAY HARBOR MI	310,000	ELECTRIC	\$ 4,117	14.8
8 NORTHERN MICHIGAN HOSPITALS	PETOSKEY MI	12,504,000	GAS	\$ 84,628	15.0
9 AMERICAN SPOON FOODS	PETOSKEY MI	240,000	ELECTRIC	\$ 3,074	15.4
10 MAIN LODGE	HARBOR SPRINGS MI	176,000	ELECTRIC	\$ 2,121	16.4
11 CITY COUNTY BLD & JAIL	PETOSKEY MI	7,500,000	GAS	\$ 50,560	19.1
12 KNIGHTS OF COLUMBUS	PETOSKEY MI	100,000	ELECTRIC	\$ 989	20.2
13 LOCKWOOD MCDONALD HOSPITAL	PETOSKEY MI	6,275,000	GAS	\$ 41,975	20.6
14 LOCKWOOD MCDONALD HOSPITAL	PETOSKEY MI	6,275,000	GAS	\$ 41,975	20.6
15 N CENTRAL MICHIGAN COL	PETOSKEY MI	6,000,000	GAS	\$ 40,048	21.0
16 BAY HARBOR VILL CO POOL	BAY HARBOR, MI	5,500,000	GAS	\$ 36,544	21.6
17 PETOSKEY HIGH SCHOOL	PETOSKEY MI	4,979,000	GAS	\$ 33,393	22.4
18 PETOSKEY HIGH SCHOOL	PETOSKEY MI	4,979,000	GAS	\$ 33,393	22.4
19 PETOSKEY HIGH SCHOOL	PETOSKEY MI	4,979,000	GAS	\$ 33,393	22.4
20 FABIANO BROS	PETOSKEY MI	900,000	OIL	\$ 7,384	23.3
21 MANTHEI INC	PETOSKEY MI	4,184,000	GAS	\$ 27,821	23.8
22 LODGE BUILDING	BAY HARBOR, MI	4,050,000	GAS	\$ 26,882	24.0
23 HIGH SCHOOL	HARBOR SPRINGS MI	4,000,000	GAS	\$ 26,532	24.1
24 HIGH SCHOOL	HARBOR SPRINGS MI	4,000,000	GAS	\$ 26,532	24.1
25 HIGH SCHOOL	HARBOR SPRINGS MI	4,000,000	GAS	\$ 26,532	24.1
26 PETOSKEY INDP VILLAGE	PETOSKEY MI	3,500,000	GAS	\$ 23,028	25.1
27 PETOSKEY INDP VILLAGE	PETOSKEY MI	3,500,000	GAS	\$ 23,028	25.1
28 MARINA DISTRICT	BAY HARBOR, MI	3,050,000	GAS	\$ 19,874	26.0
29 LODGE BUILDING	BAY HARBOR, MI	3,050,000	GAS	\$ 19,874	26.0
30 PERRY HOTEL	PETOSKEY MI	3,000,000	GAS	\$ 19,524	26.1
31 FUELING CENTER OF PETOSKEY	PETOSKEY MI	340,000	OIL	\$ 2,478	27.0
32 WOODLAND BUILDERS INC	HARBOR SPRINGS MI	260,000	OIL	\$ 1,778	28.9
33 THE CROWS NEST	HARBOR SPRINGS MI	210,000	OIL	\$ 1,340	31.0
34 CLOTHES POST	PETOSKEY MI	200,000	OIL	\$ 1,252	31.6
35 BLARNEY OIL CO	PETOSKEY MI	109,000	OIL	\$ 455	47.7

APPENDIX B COUNTY SUMMARIES

GENESEE

BTU		FUEL TYPE	
<750,000	1588	GAS (Natural Gas)	2714
750,001-2,500,000	555	PROPANE	0
2,500,001-5,000,000	149	OIL	10
5,000,001-15,000,000	127	WOOD	2
15,000,001-25,000,000	17	ELECTRIC	51
>25,000,001	22	COAL	8
N/A	327	OTHER	0
TOTAL	2785	TOTAL	2785
AGE		BOILER USE	
2000-present	671	Hot Water Heat	1988
1980-1999	1406	Hot Water Supply	375
1960-1979	610	Steam Heating	234
1945-1959	88	Power	137
older than 1945	10	Process Steam	50
N/A	0	Other	1
TOTAL	2785	TOTAL	2785
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	200,750
1-5 Years	0	Potential Wood Use	153,756
6-10 years	13	(Projects <20 yrs payback)	
11-15 years	34		
16-20 years	60		
Greater than 21 years	2678		
TOTAL	2785		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ASCENSION HEALTH	GRAND BLANC MI	33,480,000	GAS	\$ 229,628	7.0
2 GENESYS REGIONAL MEDICAL CENTER	GRAND BLANC MI	33,480,000	GAS	\$ 229,628	7.0
3 GENESYS REGIONAL MEDICAL CENTER	GRAND BLANC MI	33,480,000	GAS	\$ 229,628	7.0
4 DELPHI/FLINT EAST	FLINT MI	32,406,000	GAS	\$ 222,101	7.1
5 UNIVERSITY OF MICHIGAN - FLINT	FLINT MI	10,368,000	OIL	\$ 151,400	7.3
6 MASS TRANSPORTATION AUTHORITY	FLINT MI	60,000,000	GAS	\$ 410,480	7.3
7 MASS TRANSPORTATION	FLINT MI	60,000,000	GAS	\$ 410,480	7.3
8 MCLAREN GENERAL HOSPITAL	FLINT MI	30,000,000	GAS	\$ 205,240	7.3
9 MCLAREN GENERAL HOSPITAL	FLINT MI	30,000,000	GAS	\$ 205,240	7.3
10 GENERAL MOTORS POWERTRAIN NORT	FLINT MI	72,360,000	GAS	\$ 497,099	8.2
11 GM CORP NAO FLINT	FLINT MI	80,190,000	GAS	\$ 551,972	8.7
12 DELPHI SYSTEMS CORPORATION	FLINT MI	27,600,000	GAS	\$ 190,421	9.2
13 DELPHI SYSTEMS CORPORATION	FLINT MI	27,600,000	GAS	\$ 190,421	9.2
14 SWARTZ CREEK HIGH SCHOOL	SWARTZ CREEK MI	5,180,000	OIL	\$ 75,141	10.1
15 LOCKHART CHEMICAL COMPANY	FLINT MI	24,360,000	GAS	\$ 167,715	10.4
16 HURLEY MEDICAL CENTER	FLINT MI	24,144,000	GAS	\$ 166,201	10.5
17 HURLEY HOSPITAL	FLINT MI	24,144,000	GAS	\$ 166,201	10.5
18 HURLEY MEDICAL CENTER	FLINT MI	24,144,000	GAS	\$ 166,201	10.5
19 MICHIGAN SCHOOL FOR THE DEAF/BLINI	FLINT MI	22,500,000	GAS	\$ 154,680	11.1
20 MICHIGAN SCHOOL FOR THE DEAF/BLINI	FLINT MI	22,500,000	GAS	\$ 154,680	11.1
21 MICHIGAN SCHOOL FOR THE DEAF/BLINI	FLINT MI	22,500,000	GAS	\$ 154,680	11.1
22 BORDINE NURSERY	GRAND BLANC	114,115,000	GAS	\$ 789,718	11.1
23 TDC COURTLAND LEASE CO LLC	BURTON MI	20,320,000	GAS	\$ 139,403	11.9
24 TDC COURTLAND LEASE CO LLC	BURTON MI	20,320,000	GAS	\$ 139,403	11.9
25 KETTERING UNIVERSITY	FLINT MI	20,278,000	GAS	\$ 139,108	11.9
26 GM POWERHOUSE	FLINT MI	136,952,000	GAS	\$ 949,760	12.8
27 FLINT OSTEOPATHIC CAMPUS	FLINT MI	17,250,000	GAS	\$ 117,888	13.1
28 KETTERING UNIVERSITY	FLINT MI	17,250,000	GAS	\$ 117,888	13.1
29 HURLEY MEDICAL CENTER	FLINT MI	16,738,000	GAS	\$ 114,300	13.3
30 FLINT OSTEOPATHIC CAMPUS	FLINT MI	16,738,000	GAS	\$ 114,300	13.3
31 GM POWERHOUSE	FLINT MI	145,000,000	GAS	\$ 1,006,160	13.3
32 DELPHI ENERGY SYSTEMS	FLINT MI	16,373,000	GAS	\$ 111,742	13.4
33 DELPHI ENERGY SYSTEMS	FLINT MI	16,373,000	GAS	\$ 111,742	13.4
34 CENTURY TOOL AND GAGE	FENTON MI	700,000	ELECTRIC	\$ 9,924	13.6
35 LINDEN BRISTOL MED CNTR	FLINT MI	590,625	ELECTRIC	\$ 8,296	13.8
36 LOCHART CHEMICAL	FLINT MI	15,270,000	GAS	\$ 104,012	13.8
37 BORDINE NURSERY	GRAND BLANC	14,115,000	GAS	\$ 95,918	14.3
38 CARMAN AINSWORTH SR HIGH	FLINT MI	13,400,000	GAS	\$ 90,907	14.6
39 CARMAN AINSWORTH SR HIGH	FLINT MI	13,400,000	GAS	\$ 90,907	14.6
40 DELPHI ENERGY & ENG SYS	FLINT MI	13,386,000	GAS	\$ 90,809	14.6
41 SOUTHWESTERN ACADEMY	FLINT MI	12,560,000	GAS	\$ 85,020	14.9
42 SOUTHWESTERN ACADEMY	FLINT MI	12,560,000	GAS	\$ 85,020	14.9
43 SOUTHWESTERN ACADEMY HS	FLINT MI	12,500,000	GAS	\$ 84,600	15.0
44 NORTHWESTERN HIGH SCH	FLINT MI	12,448,000	GAS	\$ 84,236	15.0
45 CENTRAL HIGH	FLINT MI	12,448,000	GAS	\$ 84,236	15.0
46 CENTRAL HIGH	FLINT MI	12,448,000	GAS	\$ 84,236	15.0
47 CENTRAL HIGH	FLINT MI	12,448,000	GAS	\$ 84,236	15.0

APPENDIX B COUNTY SUMMARIES

GENESEE

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 DELPHI AUTOMOTIVE	FLINT MI	12,290,000	GAS	\$ 83,128	15.0
49 DELPHI AUTOMOTIVE	FLINT MI	12,280,000	GAS	\$ 83,058	15.1
50 GASC TECH CENTER	FLINT MI	12,060,000	GAS	\$ 81,516	15.1
51 MOTT FOUNDATION BUILDING	FLINT MI	11,200,000	GAS	\$ 75,490	15.5
52 FLINT NORTHERN HIGH SCH	FLINT MI	10,640,000	GAS	\$ 71,565	15.7
53 PPG INDUSTRIES INC AUTO OEM COATIN	FLINT MI	10,500,000	GAS	\$ 70,584	15.8
54 KOEGEL MEATS	FLINT MI	10,463,000	GAS	\$ 70,325	15.8
55 KOEGEL MEATS	FLINT MI	10,463,000	GAS	\$ 70,325	15.8
56 MCDONALD DAIRY CO	FLINT MI	10,461,000	GAS	\$ 70,311	15.8
57 KEARSLEY SR HIGH SCHOOL	FLINT MI	10,461,000	GAS	\$ 70,311	15.8
58 MCDONALD DAIRY	FLINT MI	10,461,000	GAS	\$ 70,311	15.8
59 GRAND BLANC PROCESSING	HOLLY MI	10,460,000	GAS	\$ 70,304	15.8
60 GRAND BLANC PROCESSING	HOLLY MI	10,460,000	GAS	\$ 70,304	15.8
61 UNIVERSITY OF MICHIGAN - FLINT	FLINT MI	10,368,000	GAS	\$ 69,659	15.9
62 BURTON FACILITY	BURTON MI	10,350,000	GAS	\$ 69,533	15.9
63 BURTON FACILITY	BURTON MI	10,350,000	GAS	\$ 69,533	15.9
64 GM FLINT TOOL & DIE	FLINT MI	10,205,800	GAS	\$ 68,522	15.9
65 GM FLINT TOOL & DIE	FLINT MI	10,205,800	GAS	\$ 68,522	15.9
66 GM FLINT TOOL & DIE	FLINT MI	10,205,800	GAS	\$ 68,522	15.9
67 CITY OF FLINT	FLINT MI	10,000,000	GAS	\$ 67,080	16.0
68 FLINT CITY HALL	FLINT MI	10,000,000	GAS	\$ 67,080	16.0
69 HURLEY HEALTH & FITNESS	FLINT MI	196,000	ELECTRIC	\$ 2,419	16.0
70 CENTURY TOOL & GAGE	FENTON MI	175,000	ELECTRIC	\$ 2,106	16.5
71 DAVISON ATHLETIC CLUB	DAVISON MI	168,000	ELECTRIC	\$ 2,002	16.6
72 CLIO HIGH SCHOOL	CLIO MI	9,000,000	GAS	\$ 61,072	17.3
73 SENIOR HIGH SCHOOL	FENTON MI	8,930,000	GAS	\$ 60,581	17.4
74 FENTON HIGH SCHOOL	FENTON MI	8,930,000	GAS	\$ 60,581	17.4
75 FENTON HIGH SCHOOL	FENTON MI	8,930,000	GAS	\$ 60,581	17.4
76 MT MORRIS HIGH SCHOOL	MT MORRIS MI	8,750,000	GAS	\$ 59,320	17.6
77 FENTON INTERMEDIATE SCHOOL	FENTON MI	8,590,000	GAS	\$ 58,199	17.8
78 CARMAN AINSWORTH SR HIGH	FLINT MI	8,580,000	GAS	\$ 58,129	17.8
79 BISHOP INTERNATIONAL AIRPORT AUTH	FLINT MI	8,400,000	GAS	\$ 56,867	18.0
80 BISHOP INTERNATIONAL AIRPORT AUTH	FLINT MI	8,400,000	GAS	\$ 56,867	18.0
81 GRAND BLANC HIGH SCHOOL	GRAND BLANC MI	8,370,000	GAS	\$ 56,657	18.1
82 GRAND BLANC HIGH SCHOOL	GRAND BLANC MI	8,370,000	GAS	\$ 56,657	18.1
83 GREAT LAKES TECHNICAL CENTER	FLINT MI	8,369,000	GAS	\$ 56,650	18.1
84 GREAT LAKES TECH CENTER	FLINT MI	8,369,000	GAS	\$ 56,650	18.1
85 RIVERFRONT CHARACTER INN	FLINT MI	8,369,000	GAS	\$ 56,650	18.1
86 RIVERFRONT CHARACTER INN	FLINT MI	8,369,000	GAS	\$ 56,650	18.1
87 WEBCOR PACKAGING	BURTON MI	8,368,750	GAS	\$ 56,648	18.1
88 FLUSHING HIGH SCHOOL	FLUSHING MI	8,309,000	GAS	\$ 56,229	18.1
89 FLUSHING HIGH SCHOOL	FLUSHING MI	8,309,000	GAS	\$ 56,229	18.1
90 DURANT TUURI MOTT SCHOOL	FLINT MI	8,280,000	GAS	\$ 56,026	18.2
91 DURANT TURRI MOTT SCHL	FLINT MI	8,280,000	GAS	\$ 56,026	18.2
92 MCKINLEY MIDDLE SCHOOL	FLINT MI	8,263,000	GAS	\$ 55,907	18.2
93 MCKINLEY MIDDLE SCHOOL	FLINT MI	8,263,000	GAS	\$ 55,907	18.2
94 HERITAGE MANOR	FLINT MI	126,000	ELECTRIC	\$ 1,376	18.2
95 ADVANCE PUBLICATIONS - FLINT JOURN	FLINT MI	8,086,250	GAS	\$ 54,668	18.4
96 LONGFELLOW MIDDLE SCHOOL	FLINT MI	8,016,000	GAS	\$ 54,176	18.5
97 LONGFELLOW MIDDLE SCHOOL	FLINT MI	8,016,000	GAS	\$ 54,176	18.5
98 YWCA	FLINT MI	7,323,000	GAS	\$ 49,320	19.3
99 YWCA	FLINT MI	7,323,000	GAS	\$ 49,320	19.3
100 WARWICK HILL GOLF \$ CC	GRAND BLANC MI	108,000	ELECTRIC	\$ 1,108	19.4
101 WARWICK HILL GOLF \$ CC	GRAND BLANC MI	108,000	ELECTRIC	\$ 1,108	19.4
102 MCLAREN CORPORATE OFFICES	FLINT MI	7,200,000	GAS	\$ 48,458	19.5
103 MCLAREN CORPORATE OFFICES	FLINT MI	7,200,000	GAS	\$ 48,458	19.5
104 MCLAREN CORPORATE OFFICES	FLINT MI	7,200,000	GAS	\$ 48,458	19.5
105 GREAT LAKES TECH CENTER	FLINT MI	7,071,000	GAS	\$ 47,554	19.6
106 THE SURGERY CENTER	FLINT MI	102,390	ELECTRIC	\$ 1,025	19.9
107 SURGERY CENTER	FLINT MI	102,390	ELECTRIC	\$ 1,025	19.9

APPENDIX B COUNTY SUMMARIES

GLADWIN

BTU		FUEL TYPE	
<750,000	126	GAS (Natural Gas)	150
750,001-2,500,000	23	PROPANE	2
2,500,001-5,000,000	0	OIL	0
5,000,001-15,000,000	5	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	0	COAL	0
N/A	2	OTHER	0
TOTAL	156	TOTAL	156
AGE		BOILER USE	
2000-present	30	Hot Water Heat	134
1980-1999	96	Hot Water Supply	10
1960-1979	29	Steam Heating	6
1945-1959	1	Power	3
older than 1945	0	Process Steam	2
N/A	0	Other	1
TOTAL	156	TOTAL	156
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	3,407
1-5 Years	0	Potential Wood Use	1,489
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	4		
Greater than 21 years	152		
TOTAL	156		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GLADWIN HOSPITAL INC	GLADWIN MI	10,000,000	GAS	\$ 67,080	16.0
2 WHITE STAR MOTEL LLC	GLADWIN MI	250,000	PROPANE	\$ 2,785	17.7
3 MID MICHIGAN MEDICAL CENTER	GLADWIN MI	8,000,000	GAS	\$ 54,064	18.5
4 MID MICHIGAN HEALTH	GLADWIN MI	105,000	ELECTRIC	\$ 1,064	19.6
5 MIDMICHIGAN HEALTH	GLADWIN MI	100,000	ELECTRIC	\$ 989	20.2
6 THE CAMP SPORTS BAR AND GRILL	GLADWIN MI	150,000	PROPANE	\$ 1,471	20.2
7 MIDMICHIGAN HEALTH	GLADWIN MI	6,220,000	GAS	\$ 41,590	20.7
8 GLADWIN METAL PROCESSING	GLADWIN MI	5,440,000	GAS	\$ 36,124	21.7
9 PRIMARY ELEMENTARY SCHOOL	BEAVERTON MI	1,467,000	GAS	\$ 785	346.3
10 PRIMARY ELEMENTARY SCHOOL	BEAVERTON MI	1,467,000	GAS	\$ 785	346.3
11 GLADWIN COUNTY ROAD COMMISSION	GLADWIN MI	1,260,000	GAS	\$ 604	391.1
12 GLADWIN COUNTY ROAD COMMISSION	GLADWIN MI	1,260,000	GAS	\$ 604	391.1
13 VERNON GLICK	GLADWIN MI	1,255,000	GAS	\$ 599	392.5
14 BEAVERTON MIDDLESOUTH	BEAVERTON MI	1,190,000	GAS	\$ 542	412.7
15 SILVERLEAF LAUNDRY	GLADWIN MI	1,080,000	GAS	\$ 446	458.1
16 ANTLER ARMS	GLADWIN MI	1,080,000	GAS	\$ 446	458.1
17 WALRAVEN CAR WASH	BEAVERTON MI	990,000	GAS	\$ 367	512.5
18 MID MICHIGAN HEALTH	GLADWIN MI	990,000	GAS	\$ 367	512.5
19 MID MICHIGAN HEALTH	GLADWIN MI	990,000	GAS	\$ 367	512.5
20 GLADWIN HIGH SCHOOL	GLADWIN MI	940,000	GAS	\$ 323	553.9
21 GLADWIN HOUSING/ANTLER ARMS	GLADWIN MI	925,000	GAS	\$ 310	568.6
22 ANTLER ARMS	GLADWIN MI	910,000	GAS	\$ 297	584.6
23 BEAVERTON ELEMENTARY	BEAVERTON MI	2,400,000	GAS	\$ 602	701.2
24 GLADWIN HIGH SCHOOL	GLADWIN MI	2,396,000	GAS	\$ 599	704.3
25 GLADWIN HIGH SCHOOL	GLADWIN MI	2,396,000	GAS	\$ 599	704.3
26 GLADWIN HIGH SCHOOL	GLADWIN MI	2,396,000	GAS	\$ 599	704.3
27 BEAVERTON MIDDLE SOUTH	BEAVERTON MI	2,320,000	GAS	\$ 532	770.5
28 GLADWIN INTERMEDIATE SCHOOL	GLADWIN MI	750,000	GAS	\$ 157	919.6
29 GLADWIN INTERMEDIATE SCHOOL	GLADWIN MI	750,000	GAS	\$ 157	919.6
30 GLADWI JR. HIGH SCHOOL	GLADWIN MI	750,000	GAS	\$ 157	919.6
31 GLADWIN JR HIGH SCH	GLADWIN MI	750,000	GAS	\$ 157	919.6
32 GLADWIN JR HIGH SCHOOL	GLADWIN MI	750,000	GAS	\$ 157	919.6
33 SACRED HEART PARISH	GLADWIN MI	725,000	GAS	\$ 135	1,034.4
34 SACRED HEART PARISH	GLADWIN MI	725,000	GAS	\$ 135	1,034.4
35 BEAVERTON HIGH SCHOOL	BEAVERTON MI	2,100,000	GAS	\$ 340	1,106.9

APPENDIX B COUNTY SUMMARIES

GOGEBIC

BTU		FUEL TYPE	
<750,000	258	GAS (Natural Gas)	355
750,001-2,500,000	40	PROPANE	0
2,500,001-5,000,000	7	OIL	25
5,000,001-15,000,000	3	WOOD	6
15,000,001-25,000,000	0	ELECTRIC	8
>25,000,001	0	COAL	1
N/A	87	OTHER	0
TOTAL	395	TOTAL	395

AGE		BOILER USE	
2000-present	69	Hot Water Heat	300
1980-1999	237	Hot Water Supply	24
1960-1979	70	Steam Heating	53
1945-1959	15	Power	13
older than 1945	4	Process Steam	5
N/A	0	Other	0
TOTAL	395	TOTAL	395

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	141
1-5 Years	0	Potential Wood Use	30
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	0		
Greater than 21 years	394		
TOTAL	395		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GOGEBIC MEDICAL CARE FACILITY	WAKEFIELD MI	375,000	ELECTRIC	\$ 5,085	14.5
2 LUTHER L WRIGHT HIGH SCHOOL	IRONWOOD MI	5,862,000	GAS	\$ 39,081	21.2
3 LUTHER L WRIGHT HIGH SCHOOL	IRONWOOD MI	5,862,000	GAS	\$ 39,081	21.2
4 GOGEBIC CO MEDICAL CARE	WAKEFIELD MI	2,511,000	OIL	\$ 20,496	21.4
5 WASHINGTON JUNIOR HIGH SCHOOL	BESSEMER MI	5,460,000	GAS	\$ 36,264	21.7
6 THE CEDARS	IRONWOOD MI	780,000	OIL	\$ 6,333	23.7
7 TOWNSHIP HALL	WAKEFIELD MI	600,000	OIL	\$ 4,756	24.5
8 GREAT LAKES GAS TRANS STATION #7	WAKEFIELD MI	3,350,000	GAS	\$ 21,977	25.4
9 POWDER MILL RESORT	BESSEMER MI	450,000	OIL	\$ 3,442	25.6
10 WAKEFIELD HIGH SCHOOL	WAKEFIELD MI	3,172,000	GAS	\$ 20,729	25.8
11 WAKEFIELD SCHOOL DISTRICT	WAKEFIELD MI	3,172,000	GAS	\$ 20,729	25.8
12 GAMBLE STORE	BESSEMER MI	400,000	OIL	\$ 3,004	26.1
13 SUPERIOR FALLS HYDRO STA	IRONWOOD MI	380,000	OIL	\$ 2,829	26.4
14 WESTGATE REST HAVEN	IRONWOOD MI	365,000	OIL	\$ 2,697	26.6
15 NATIONAL CITY BANK	BESSEMER MI	294,000	OIL	\$ 2,075	27.9
16 FELICIA SANTINI	IRONWOOD MI	288,000	OIL	\$ 2,023	28.1
17 BLACK RIVER LODGE	IRONWOOD MI	284,000	OIL	\$ 1,988	28.2
18 BESSEMER WATER DEPT	BESSEMER MI	242,500	OIL	\$ 1,624	29.5
19 HAUTALAS LAKE RD TAVERN	IRONWOOD MI	225,000	OIL	\$ 1,471	30.2
20 LAKESHORE HYDRAULICS & REPAIR	WAKEFIELD MI	220,000	OIL	\$ 1,427	30.5
21 GOGEBIC COUNTRY CLUB	IRONWOOD MI	216,000	OIL	\$ 1,392	30.7
22 GOGEBIC COUNTRY CLUB	IRONWOOD MI	175,000	OIL	\$ 1,033	33.6
23 CROSS CUT LODGE	BESSEMER MI	175,000	OIL	\$ 1,033	33.6
24 BUNK HOUSE LODGE	BESSEMER MI	163,000	OIL	\$ 928	34.8
25 BLACKJACK SKI AREA CORP	BESSEMER MI	48,000	ELECTRIC	\$ 215	93.1
26 INSTITUTE BASIC YOUTH	WATERSMEET MI	40,000	ELECTRIC	\$ 96	209.0
27 NATIONAL GUARD ARMORY	IRONWOOD MI	1,288,000	GAS	\$ 628	383.6
28 NATL GUARD ARMORY	IRONWOOD MI	1,288,000	GAS	\$ 628	383.6
29 OJIBWAY CORR FACILITY	MARENISCO MI	1,200,000	GAS	\$ 551	409.3
30 OJIBWAY CORR FACILITY	MARENISCO MI	1,200,000	GAS	\$ 551	409.3
31 COMM ACT AGNCY/GOCOA	IRONWOOD MI	1,170,000	GAS	\$ 525	419.7
32 PIONEER PARK APARTMENTS	IRONWOOD MI	1,155,000	GAS	\$ 512	425.3
33 ZION LUTHERAN CHURCH	IRONWOOD MI	1,100,000	GAS	\$ 464	448.4
34 BEN FRANKLIN STORE	IRONWOOD MI	1,040,000	GAS	\$ 411	479.7
35 ERICKSON ACADEMIC BUILDING	IRONWOOD MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

GRAND TRAVERSE

BTU		FUEL TYPE	
<750,000	637	GAS (Natural Gas)	888
750,001-2,500,000	188	PROPANE	0
2,500,001-5,000,000	34	OIL	12
5,000,001-15,000,000	21	WOOD	2
15,000,001-25,000,000	5	ELECTRIC	10
>25,000,001	2	COAL	3
N/A	29	OTHER	1
TOTAL	916	TOTAL	916

AGE		BOILER USE	
2000-present	248	Hot Water Heat	661
1980-1999	483	Hot Water Supply	148
1960-1979	161	Steam Heating	50
1945-1959	18	Power	43
older than 1945	6	Process Steam	11
N/A	0	Other	3
TOTAL	916	TOTAL	916

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	86
1-5 Years	0	Potential Wood Use	22,194
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	8		
16-20 years	10		
Greater than 21 years	897		
TOTAL	916		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 POWER HOUSE	TRAVERSE CITY MI	29,291,000	GAS	\$ 202,271	8.6
2 CHERRY GROWERS INCORPORATED	GRAWN MI	25,106,000	GAS	\$ 172,943	10.1
3 MUNSON MEDICAL CENTER	TRAVERSE CITY MI	25,000,000	GAS	\$ 172,200	10.2
4 MUNSON MEDICAL CENTER	TRAVERSE CITY MI	22,920,000	GAS	\$ 157,623	10.9
5 MUNSON MEDICAL CENTER	TRAVERSE CITY MI	22,180,000	GAS	\$ 152,437	11.2
6 POWER HOUSE	TRAVERSE CITY MI	20,922,000	GAS	\$ 143,621	11.7
7 SARA LEE BAKERY	TRAVERSE CITY MI	20,032,000	GAS	\$ 137,384	12.0
8 TRAVERSE CITY W SR HIGH	TRAVERSE CITY MI	12,555,000	GAS	\$ 84,985	14.9
9 CHERRY GROWERS INCORPORATED	GRAWN MI	12,554,000	GAS	\$ 84,978	14.9
10 C R M INC	TRAVERSE CITY MI	10,500,000	GAS	\$ 70,584	15.8
11 TC CENTRAL HIGH SCHOOL	TRAVERSE CITY MI	10,461,000	GAS	\$ 70,311	15.8
12 TC CENTRAL HIGH SCHOOL	TRAVERSE CITY MI	10,461,000	GAS	\$ 70,311	15.8
13 GRANDVIEW PROPERTIES LIMITED	TRAVERSE CITY MI	10,247,000	GAS	\$ 68,811	15.9
14 MUNSON HEALTH CENTER	TRAVERSE CITY MI	8,950,000	GAS	\$ 60,722	17.4
15 TRAVERSE CITY WEST JR HI	TRAVERSE CITY MI	8,370,000	GAS	\$ 56,657	18.1
16 TRAVERSE CITY JR.HIGH	TRAVERSE CITY MI	8,369,000	GAS	\$ 56,650	18.1
17 SARA LEE BAKERY	TRAVERSE CITY MI	8,000,000	GAS	\$ 54,064	18.5
18 GLEN EAGLE INDEPENDANT LIVING	TRAVERSE CITY MI	210,000	ELECTRIC	\$ 2,627	19.0
19 ELMERS CRANE & DOZER	TRAVERSE CITY MI	7,500,000	GAS	\$ 50,560	19.1
20 AMERITECH	TRAVERSE CITY MI	6,300,000	GAS	\$ 42,150	20.6
21 CHERRY CAPITOL AIRPORT	TRAVERSE CITY MI	6,300,000	GAS	\$ 42,150	20.6
22 CHERRY CAPITOL AIRPORT	TRAVERSE CITY MI	6,300,000	GAS	\$ 42,150	20.6
23 AMERITECH	TRAVERSE CITY MI	6,300,000	GAS	\$ 42,150	20.6
24 CENTRAL ELEM SCHOOL	TRAVERSE CITY MI	6,280,000	GAS	\$ 42,010	20.6
25 TRAVERSE CITY W SR HIGH	TRAVERSE CITY MI	6,280,000	GAS	\$ 42,010	20.6
26 MUNSON HEALTH CARE	TRAVERSE CITY MI	5,250,000	GAS	\$ 34,792	22.0
27 CMS ENERGY CORPORATION	TRAVERSE CITY MI	5,234,000	GAS	\$ 34,680	22.0
28 CMS ENERGY CORPORATION	TRAVERSE CITY MI	5,234,000	GAS	\$ 34,680	22.0
29 TRAVERSE CITY WEST JR HI	TRAVERSE CITY MI	5,230,000	GAS	\$ 34,652	22.0
30 ST MARY'S OF HANNAH SCH	KINGASLEY MI	934,000	OIL	\$ 7,682	23.2
31 ST MARY'S OF HANNAH SCH	KINGASLEY MI	934,000	OIL	\$ 7,682	23.2
32 THE TOWERS	ACME MI	4,500,000	GAS	\$ 30,036	23.2
33 THE TOWERS	ACME MI	4,500,000	GAS	\$ 30,036	23.2
34 ELMERS	TRAVERSE CITY MI	800,000	OIL	\$ 6,508	23.6
35 MUNSON HEALTH CENTER	TRAVERSE CITY MI	4,250,000	GAS	\$ 28,284	23.7

APPENDIX B COUNTY SUMMARIES

GRATIOT

BTU		FUEL TYPE	
<750,000	221	GAS (Natural Gas)	358
750,001-2,500,000	106	PROPANE	0
2,500,001-5,000,000	20	OIL	3
5,000,001-15,000,000	13	WOOD	0
15,000,001-25,000,000	2	ELECTRIC	8
>25,000,001	0	COAL	0
N/A	7	OTHER	0
TOTAL	369	TOTAL	369

AGE		BOILER USE	
2000-present	78	Hot Water Heat	263
1980-1999	185	Hot Water Supply	49
1960-1979	92	Steam Heating	29
1945-1959	13	Power	15
older than 1945	1	Process Steam	13
N/A	0	Other	0
TOTAL	369	TOTAL	369

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	9,629
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	12		
Greater than 21 years	352		
TOTAL	369		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GRATIOT HEALTH SYSTEM	ALMA MI	8,930,000	OIL	\$ 130,986	8.0
2 ALLIED GENERAL SERVICES	DETROIT MI	6,277,000	OIL	\$ 91,477	9.5
3 MICHIGAN MASONIC HOME	ALMA MI	20,000,000	GAS	\$ 137,160	12.0
4 ALMA SR HIGH SCHOOL	ALMA MI	16,000,000	GAS	\$ 109,128	13.6
5 MICHIGAN MASONIC HOME	ALMA MI	14,000,000	GAS	\$ 95,112	14.4
6 ITHACA REST AREA	ITHACA MI	150,000	ELECTRIC	\$ 1,734	17.2
7 MIDMICHIGAN GRATIOT HEALTH SYSTEM	ALMA MI	8,930,000	GAS	\$ 60,581	17.4
8 MIDMICHIGAN GRATIOT HEALTH SYSTEM	ALMA MI	8,930,000	GAS	\$ 60,581	17.4
9 MID MICHIGAN CORRECTIONAL FACILITY	ST LOUIS MI	126,000	ELECTRIC	\$ 1,376	18.2
10 ST LOUIS CORRECTIONAL FACILITY	ST LOUIS MI	120,000	ELECTRIC	\$ 1,287	18.5
11 ST LOUIS CORRECTIONAL FACILITY	ST LOUIS MI	120,000	ELECTRIC	\$ 1,287	18.5
12 FULTON MIDDLE SCHOOL	MIDDLETON MI	7,430,000	GAS	\$ 50,069	19.2
13 MICHIGAN MASONIC HOME	ALMA MI	105,000	ELECTRIC	\$ 1,064	19.6
14 DOW SCIENCE BUILDING	ALMA MI	6,900,000	GAS	\$ 46,355	19.8
15 ITHACA HIGH SCHOOL	ITHACA MI	6,900,000	GAS	\$ 46,355	19.8
16 ITHACA HIGH SCHOOL	ITHACA MI	6,900,000	GAS	\$ 46,355	19.8
17 ITHACA HIGH SCHOOL	ITHACA MI	6,900,000	GAS	\$ 46,355	19.8
18 ALMA COLLEGE	ALMA MI	5,180,000	GAS	\$ 34,301	22.1
19 ALMA COLLEGE	ALMA MI	5,180,000	GAS	\$ 34,301	22.1
20 HAMILTON COMMONS	ALMA MI	5,175,000	GAS	\$ 34,266	22.1
21 ROBERT LALONE AND SONS INCORPOR.	ALMA MI	2,070,000	OIL	\$ 16,633	22.3
22 ALMA MIDDLE SCHOOL	ALMA MI	5,000,000	GAS	\$ 33,040	22.3
23 ALMA PRODUCTS I INC	ALMA MI	5,000,000	GAS	\$ 33,040	22.3
24 ALMA MIDDLE SCHOOL	ALMA MI	5,000,000	GAS	\$ 33,040	22.3
25 BRECKENRIDGE HIGH SCHOOL	BRECKENRIDGE MI	5,000,000	GAS	\$ 33,040	22.3
26 ST LOUIS CORRECTIONAL FACILITY	ST LOUIS MI	4,510,000	GAS	\$ 30,106	23.2
27 ALMA PRODUCTS	ALMA MI	4,186,000	GAS	\$ 27,835	23.8
28 GRATIOT COUNTY COMM MENTAL HEALTH	ALMA MI	4,000,000	GAS	\$ 26,532	24.1
29 ST LOUIS HIGH SCHOOL	ST LOUIS MI	4,000,000	GAS	\$ 26,532	24.1
30 ST LOUIS CORRECTIONAL FACILITY	ST LOUIS MI	3,940,000	GAS	\$ 26,112	24.2
31 DOW SCIENCE BUILDING	ALMA MI	3,785,000	GAS	\$ 25,025	24.5
32 DOW SCIENCE BUILDING	ALMA MI	3,785,000	GAS	\$ 25,025	24.5
33 ST MARYS SCHOOL	ALMA MI	3,660,000	GAS	\$ 24,149	24.8
34 REPUBLIC ELEM SCHOOL	ALMA MI	3,350,000	GAS	\$ 21,977	25.4
35 TERRY MATERIALS OF MICHIGAN	ALMA MI	3,343,800	GAS	\$ 21,933	25.4

APPENDIX B COUNTY SUMMARIES

HILLSDALE

BTU		FUEL TYPE	
<750,000	246	GAS (Natural Gas)	348
750,001-2,500,000	58	PROPANE	1
2,500,001-5,000,000	10	OIL	8
5,000,001-15,000,000	7	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	0	COAL	3
N/A	43	OTHER	0
TOTAL	364	TOTAL	364

AGE		BOILER USE	
2000-present	57	Hot Water Heat	266
1980-1999	258	Hot Water Supply	41
1960-1979	40	Steam Heating	33
1945-1959	4	Power	16
older than 1945	5	Process Steam	3
N/A	0	Other	5
TOTAL	364	TOTAL	364

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	4,161
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	4		
Greater than 21 years	359		
TOTAL	364		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PILLSBURY COMPANY	HILLSDALE MI	14,645,000	GAS	\$ 99,632	14.1
2 FIELDHOUSE	HILLSDALE MI	10,410,000	GAS	\$ 69,953	15.8
3 C RAKER & SONS	LITCHFIELD MI	10,082,000	GAS	\$ 67,655	16.0
4 RAKER AND SONS	LITCHFIELD MI	8,656,000	GAS	\$ 58,661	17.7
5 HILLSDALE COM HEALTH CTR	HILLSDALE MI	7,510,000	GAS	\$ 50,630	19.1
6 HILLSDALE HEALTH CENTER	HILLSDALE MI	6,750,000	GAS	\$ 45,304	20.0
7 CAMDEN FRONTIER SCHOOL	CAMDEN MI	2,938,000	OIL	\$ 24,237	20.7
8 DOW AUTOMOTIVE	HILLSDALE MI	5,021,000	GAS	\$ 33,187	22.3
9 WASHINGTON ELEMENTARY SCHOOL	OWOSSO MI	4,720,000	GAS	\$ 31,578	22.8
10 JEROME SCHOOL BLDG	JEROME MI	980,000	OIL	\$ 8,085	23.1
11 WALDRON AREA SCHOOL	WALDRON MI	1,750,000	OIL	\$ 13,830	23.1
12 WALDRON AREA SCHOOL	WALDRON MI	1,750,000	OIL	\$ 13,830	23.1
13 MANOR FOUND-KITCHEN	JONESVILLE MI	90,000	ELECTRIC	\$ 840	23.8
14 HILLSDALE MEDICAL CARE	HILLSDALE MI	4,000,000	GAS	\$ 26,532	24.1
15 HILLSDALE MEDICAL CARE	HILLSDALE MI	4,000,000	GAS	\$ 26,532	24.1
16 RAKER AND SONS	LITCHFIELD MI	4,000,000	GAS	\$ 26,532	24.1
17 RAKER AND SONS	LITCHFIELD MI	4,000,000	GAS	\$ 26,532	24.1
18 DOW AUTOMOTIVE	HILLSDALE MI	3,354,000	GAS	\$ 22,005	25.4
19 TORRES HILLSDALE CHEESE LLC	READING MI	3,349,000	GAS	\$ 21,970	25.4
20 FINE ARTS BLDG.	HILLSDALE MI	3,348,000	GAS	\$ 21,963	25.4
21 HILLSDALE MUNICIPAL APT	HILLSDALE MI	450,000	OIL	\$ 3,442	25.6
22 O C KIMBLE CAMP YMCA	READING MI	134,000	OIL	\$ 674	39.5
23 O C KIMBLE CAMP YMCA	READING MI	134,000	OIL	\$ 674	39.5
24 HILLSDALE SENIOR CENTER	HILLSDALE MI	1,440,000	GAS	\$ 761	351.0
25 HILLSDALE SENIOR CENTER	HILLSDALE MI	1,440,000	GAS	\$ 761	351.0
26 REYNOLDS ELEMENTARY SCHOOL	READING MI	1,355,000	GAS	\$ 687	367.8
27 CAMDEN FRONTIER SCHOOLS	CAMDEN MI	1,350,000	GAS	\$ 683	368.8
28 SCIENCE BLDG	HILLSDALE MI	1,281,000	GAS	\$ 622	385.4
29 HILLSDALE COUNTY MEDICAL CARE FAC	HILLSDALE MI	1,200,000	GAS	\$ 551	409.3
30 COLLEGE BAPTIST CHURCH	HILLSDALE MI	1,170,000	GAS	\$ 525	419.7
31 NORTH ADAMS HIGH SCHOOL	NORTH ADAMS MI	1,100,000	GAS	\$ 464	448.4
32 NORTH ADAMS HIGH SCHOOL	NORTH ADAMS MI	1,100,000	GAS	\$ 464	448.4
33 NORTH ADAMS HIGH SCHOOL	NORTH ADAMS MI	1,100,000	GAS	\$ 464	448.4
34 WEATHERWOOD CTR	HILLSDALE MI	1,100,000	GAS	\$ 464	448.4
35 WATKINS OIL CO	HILLSDALE MI	2,900,000	GAS	\$ 1,040	476.6

APPENDIX B COUNTY SUMMARIES

HOUGHTON

BTU		FUEL TYPE	
<750,000	444	GAS (Natural Gas)	538
750,001-2,500,000	70	PROPANE	0
2,500,001-5,000,000	13	OIL	22
5,000,001-15,000,000	9	WOOD	8
15,000,001-25,000,000	0	ELECTRIC	12
>25,000,001	0	COAL	0
N/A	44	OTHER	0
TOTAL	580	TOTAL	580

AGE		BOILER USE	
2000-present	98	Hot Water Heat	426
1980-1999	375	Hot Water Supply	20
1960-1979	94	Steam Heating	103
1945-1959	10	Power	18
older than 1945	3	Process Steam	12
N/A	0	Other	1
TOTAL	580	TOTAL	580

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	6,787
1-5 Years	0	Potential Wood Use	1,671
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	7		
Greater than 21 years	572		
TOTAL	580		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 HOUGHTON CO MED CARE FAC	HANCOCK MI	13,000,000	GAS	\$ 88,104	14.8
2 CROWN CLEANERS	HOUGHTON MI	132,000	ELECTRIC	\$ 1,466	17.9
3 CROWN CLEANERS	HOUGHTON MI	132,000	ELECTRIC	\$ 1,466	17.9
4 PORTAGE HEALTH SYSTEMS	HANCOCK MI	130,000	ELECTRIC	\$ 1,436	18.0
5 PORTAGE HEALTH SYSTEMS	HANCOCK MI	130,000	ELECTRIC	\$ 1,436	18.0
6 PORTAGE HEALTH SYSTEMS	HANCOCK MI	130,000	ELECTRIC	\$ 1,436	18.0
7 CROWN CLEANERS	HOUGHTON MI	105,000	ELECTRIC	\$ 1,064	19.6
8 WARGELIN HALL	HANCOCK MI	6,840,000	GAS	\$ 45,935	19.9
9 NORTHERN HARDWOOD DIVISION	SOUTH RANGE MI	6,695,000	GAS	\$ 44,919	20.1
10 CALUMET HIGH SCHOOL	CALUMET MI	6,695,000	GAS	\$ 44,919	20.1
11 CALUMET PUBLIC SCHOOLS	CALUMET MI	6,695,000	GAS	\$ 44,919	20.1
12 KEWEENAW MEMORIAL MEDICAL CENTE	LAURIUM MI	6,300,000	GAS	\$ 42,150	20.6
13 KEWEENAW MEMORIAL MEDICAL CENTE	LAURIUM MI	6,300,000	GAS	\$ 42,150	20.6
14 HOUGHTON COUNTY AIRPORT	CALUMET MI	6,000,000	GAS	\$ 40,048	21.0
15 JEFFERS HIGH SCHOOL	PAINSDALE MI	2,609,000	OIL	\$ 21,355	21.2
16 E B HOLMAN SCHOOL	ATLANTIC MINE MI	1,190,000	OIL	\$ 9,924	22.6
17 JEFFERS HIGH SCHOOL	PAINSDALE MI	1,181,000	OIL	\$ 9,846	22.6
18 ENTREPRENURIAL CENTER	LAKE LINDEN MI	1,084,000	OIL	\$ 8,996	22.8
19 FAMILY DOLLAR INC	CALUMET MI	910,000	OIL	\$ 7,472	23.3
20 KEWEENAW MEMORIAL MEDICAL CENTE	LAURIUM MI	4,185,000	GAS	\$ 27,828	23.8
21 VANDCO VOLWERTH AND COMPANY	HANCOCK MI	4,185,000	GAS	\$ 27,828	23.8
22 HANCOCK MIDDLE SCHOOL	HANCOCK MI	3,753,000	GAS	\$ 24,801	24.6
23 LAKE LINDEN/HUBBELL SCHL	LAKE LINDEN MI	3,753,000	GAS	\$ 24,801	24.6
24 DOLLAR BAY SCHLS/TAMARAK	DOLLAR BAY MI	3,100,000	GAS	\$ 20,225	25.9
25 FINLANDIA HALL	HANCOCK MI	3,080,000	GAS	\$ 20,085	25.9
26 CHAMPION MONUMENTS	HANCOCK MI	400,000	OIL	\$ 3,004	26.1
27 CENTRAL HIGH SCHOOL	HANCOCK MI	3,000,000	GAS	\$ 19,524	26.1
28 GOLDEN HARP INN	TOIVOLA MI	312,000	OIL	\$ 2,233	27.5
29 ELM RIVER TWP SCHOOLS	WINONA MI	298,000	OIL	\$ 2,110	27.8
30 UP CHUCKS	KENTON MI	290,000	OIL	\$ 2,040	28.0
31 KAUPPI OIL COMPANY	HANCOCK MI	282,000	OIL	\$ 1,970	28.2
32 COMPUTER MECHANICS	SOUTH RANGE MI	275,000	OIL	\$ 1,909	28.4
33 HUBBEL HAVEN AFC HOME	HUBBELL MI	260,000	OIL	\$ 1,778	28.9
34 SAYEN ENTERPRISES INC	HOUGHTON MI	249,000	OIL	\$ 1,681	29.3
35 MARKET PLACE	HOUGHTON MI	180,000	OIL	\$ 1,077	33.1

APPENDIX B COUNTY SUMMARIES

HURON

BTU		FUEL TYPE	
<750,000	269	GAS (Natural Gas)	365
750,001-2,500,000	64	PROPANE	0
2,500,001-5,000,000	8	OIL	8
5,000,001-15,000,000	5	WOOD	3
15,000,001-25,000,000	2	ELECTRIC	4
>25,000,001	2	COAL	4
N/A	34	OTHER	0
TOTAL	384	TOTAL	384

AGE		BOILER USE	
2000-present	88	Hot Water Heat	296
1980-1999	221	Hot Water Supply	32
1960-1979	61	Steam Heating	28
1945-1959	12	Power	20
older than 1945	2	Process Steam	4
N/A	0	Other	4
TOTAL	384	TOTAL	384

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	10,067
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	5		
Greater than 21 years	375		
TOTAL	384		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 DOW AGRO SCIENCES	HARBOR BEACH MI	50,000,000	GAS	\$ 340,400	6.6
2 HARBOR BEACH PWR PLT	HARBOR BEACH MI	13,390,000	OIL	\$ 196,404	6.8
3 SENSIENT TECHNOLOGIES CORPORATK	HARBOR BEACH MI	16,000,000	GAS	\$ 109,128	13.6
4 SENSIENT TECHNOLOGIES CORPORATK	HARBOR BEACH MI	16,000,000	GAS	\$ 109,128	13.6
5 HURON MEDICAL CENTER	BAD AXE MI	10,260,000	GAS	\$ 68,902	15.9
6 HURON MEDICAL CENTER	BAD AXE MI	10,260,000	GAS	\$ 68,902	15.9
7 MICHIGAN SUGAR CO	SEBEWAING MI	8,000,000	GAS	\$ 54,064	18.5
8 HURON MEMORIAL HOSPITAL	BAD AXE MI	103,000	ELECTRIC	\$ 1,034	19.8
9 SCHEURER HOSPITAL	PIGEON MI	102,600	ELECTRIC	\$ 1,028	19.9
10 OWENDALE HIGH SCHOOL	OWENDALE MI	6,250,000	GAS	\$ 41,800	20.7
11 HURON COUNTY MEDICAL CARE FACILIT	BAD AXE MI	1,200,000	OIL	\$ 10,012	22.5
12 HURON COUNTY MEDICAL CARE	BAD AXE MI	1,200,000	OIL	\$ 10,012	22.5
13 HIGH SCHOOL	SEBEWAING MI	4,500,000	GAS	\$ 30,036	23.2
14 HIGH SCHOOL	SEBEWAING MI	4,500,000	GAS	\$ 30,036	23.2
15 ST JOHNS EVAN LUTH SCH	PIGEON MI	1,600,000	OIL	\$ 12,516	23.5
16 OWENDALE HIGH SCHOOL	OWENDALE MI	4,200,000	GAS	\$ 27,934	23.8
17 LAKER HS	PIGEON MI	3,718,000	GAS	\$ 24,556	24.7
18 LAKER HIGH SCH	PIGEON MI	3,718,000	GAS	\$ 24,556	24.7
19 NEW HIGH SCHOOL	BAD AXE MI	3,350,000	GAS	\$ 21,977	25.4
20 NEW HIGH SCHOOL	BAD AXE MI	3,350,000	GAS	\$ 21,977	25.4
21 KRITZMANS INC	BAD AXE MI	426,000	OIL	\$ 3,232	25.8
22 PATS AFC #1	BAD AXE MI	192,000	OIL	\$ 1,182	32.2
23 TALASKI AFC HOME	BAD AXE MI	140,000	OIL	\$ 726	38.3
24 LAKER SCHOOLS	PIGEON MI	1,440,000	GAS	\$ 761	351.0
25 LAKER SCHOOLS	PIGEON MI	1,440,000	GAS	\$ 761	351.0
26 LAKER SCHOOLS	PIGEON MI	1,440,000	GAS	\$ 761	351.0
27 BAD AXE MIDDLE SCHOOL	BAD AXE MI	1,440,000	GAS	\$ 761	351.0
28 NORTH HURON HIGH SCHOOL	KINDE MI	1,440,000	GAS	\$ 761	351.0
29 NORTH HURON HIGH SCHOOL	KINDE MI	1,440,000	GAS	\$ 761	351.0
30 HURON CO RD COM ENG SHOP	BAD AXE MI	1,310,000	GAS	\$ 648	378.1
31 BAD AXE MIDDLE SCHOOL	BAD AXE MI	1,260,000	GAS	\$ 604	391.1
32 HARBOR BEACH SCHOOLS	HARBOR BEACH MI	1,260,000	GAS	\$ 604	391.1
33 BAD AXE MIDDLE SCHOOL	BAD AXE MI	1,260,000	GAS	\$ 604	391.1
34 BAD AXE MIDDLE SCHOOL	BAD AXE MI	1,260,000	GAS	\$ 604	391.1
35 COUNTRY BAY VILLAGE	PIGEON MI	1,260,000	GAS	\$ 604	391.1

APPENDIX B COUNTY SUMMARIES

INGHAM

BTU		FUEL TYPE	
<750,000	1382	GAS (Natural Gas)	2261
750,001-2,500,000	612	PROPANE	1
2,500,001-5,000,000	87	OIL	13
5,000,001-15,000,000	76	WOOD	30
15,000,001-25,000,000	12	ELECTRIC	78
>25,000,001	8	COAL	30
N/A	239	OTHER	3
TOTAL	2416	TOTAL	2416
AGE		BOILER USE	
2000-present	483	Hot Water Heat	1626
1980-1999	1090	Hot Water Supply	335
1960-1979	689	Steam Heating	221
1945-1959	100	Power	156
older than 1945	54	Process Steam	32
N/A	0	Other	46
TOTAL	2416	TOTAL	2416
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	3,303
1-5 Years	0	Potential Wood Use	69,926
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	36		
16-20 years	44		
Greater than 21 years	2331		
TOTAL	2416		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 DART CONTAINER CORPORATION	MASON MI	22,291,000	OIL	\$ 328,958	5.2
2 DART CONTAINER CORPORATION	MASON MI	33,474,000	GAS	\$ 229,586	7.0
3 MICHIGAN STATE UNIVERSITY ANIMAL H	EAST LANSING MI	32,378,000	GAS	\$ 221,905	7.1
4 MICHIGAN STATE UNIVERSITY ANIMAL H	EAST LANSING MI	32,378,000	GAS	\$ 221,905	7.1
5 MICH MILLERS MUTUAL INS	LANSING MI	6,700,000	OIL	\$ 97,776	9.2
6 SCHOOL FOR THE BLIND	LANSING MI	25,090,000	GAS	\$ 172,831	10.1
7 SCHOOL FOR THE BLIND	LANSING MI	25,090,000	GAS	\$ 172,831	10.1
8 INGHAM REGIONAL MEDICAL CTR	LANSING MI	20,150,000	GAS	\$ 138,211	12.0
9 INGHAM REGIONAL MEDICAL CTR	LANSING MI	20,150,000	GAS	\$ 138,211	12.0
10 EMERGENT BIODEFENSE OPERATIONS I	LANSING MI	20,000,000	GAS	\$ 137,160	12.0
11 EMERGENT BIODEFENSE OPERATIONS I	LANSING MI	20,000,000	GAS	\$ 137,160	12.0
12 EMERGENT BIODEFENSE OPERATIONS I	LANSING MI	20,000,000	GAS	\$ 137,160	12.0
13 THE HANNA CTR	E LANSING MI	2,410,000	ELECTRIC	\$ 34,390	12.3
14 MERIDIAN MALL	OKEMOS MI	17,250,000	GAS	\$ 117,888	13.1
15 MERIDIAN MALL	OKEMOS MI	17,250,000	GAS	\$ 117,888	13.1
16 MICHIGAN BIOTECHNOLOGY INSTITUTE	LANSING MI	16,738,000	GAS	\$ 114,300	13.3
17 LETTS COMM CENTER	LANSING MI	735,000	ELECTRIC	\$ 10,446	13.6
18 J W SEXTON HIGH SCHOOL	LANSING MI	16,000,000	GAS	\$ 109,128	13.6
19 SEXTON HIGH SCHOOL	LANSING MI	16,000,000	GAS	\$ 109,128	13.6
20 INGHAM REGIONAL MED CENTER GREE	LANSING MI	15,000,000	GAS	\$ 102,120	14.0
21 OKEMOS HIGH SCHOOL	OKEMOS MI	15,000,000	GAS	\$ 102,120	14.0
22 OKEMOS HIGH SCHOOL	OKEMOS MI	15,000,000	GAS	\$ 102,120	14.0
23 CORPORATE CENTRE	LANSING MI	530,000	ELECTRIC	\$ 7,393	14.0
24 MICHIGAN BIOTECHNOLOGY INSTITUTE	LANSING MI	525,000	ELECTRIC	\$ 7,318	14.0
25 CORPORATE CENTRE	LANSING MI	512,000	ELECTRIC	\$ 7,125	14.0
26 MICH DEPT OF PUB HEALTH	LANSING MI	14,650,000	GAS	\$ 99,667	14.1
27 MICHIGAN DEPARTMENT OF PUBLIC HE	LANSING MI	14,650,000	GAS	\$ 99,667	14.1
28 EAST LANSING HIGH SCHOOL	EAST LANSING MI	14,248,000	GAS	\$ 96,850	14.3
29 CORPORATE CENTRE	LANSING MI	410,000	ELECTRIC	\$ 5,606	14.3
30 HARRY HILL SENIOR HIGH SCHOOL	LANSING MI	14,000,000	GAS	\$ 95,112	14.4
31 HARRY HILL SENIOR HIGH SCHOOL	LANSING MI	14,000,000	GAS	\$ 95,112	14.4
32 EASTERN HIGH SCHOOL	LANSING MI	14,000,000	GAS	\$ 95,112	14.4
33 EASTERN HIGH SCHOOL	LANSING MI	14,000,000	GAS	\$ 95,112	14.4
34 EASTERN HIGH SCHOOL	LANSING MI	14,000,000	GAS	\$ 95,112	14.4
35 WASHINGTON PARK	LANSING MI	315,000	ELECTRIC	\$ 4,191	14.8
36 INGHAM CO JAIL	MASON MI	310,000	ELECTRIC	\$ 4,117	14.8
37 INGHAM CO JAIL	MASON MI	310,000	ELECTRIC	\$ 4,117	14.8
38 APCAPITAL/LAPA	EAST LANSING MI	300,000	ELECTRIC	\$ 3,968	14.9
39 CORRCHOICE LLC	MASON MI	12,560,000	GAS	\$ 85,020	14.9
40 CORRCHOICE LLC	MASON MI	12,560,000	GAS	\$ 85,020	14.9
41 MPC	MASON MI	12,560,000	GAS	\$ 85,020	14.9
42 EAST LANSING HIGH SCHOOL	EAST LANSING MI	12,216,000	GAS	\$ 82,610	15.1
43 MICH BIOTECH INSTITUTE	LANSING MI	12,030,000	GAS	\$ 81,306	15.2
44 SOHN LINEN SERVICE	LANSING MI	12,024,000	GAS	\$ 81,264	15.2
45 GARDNER MIDDLE SCHOOL	LANSING MI	266,000	ELECTRIC	\$ 3,461	15.2
46 INGHAM CO HUMAN SERVICES	LANSING MI	210,000	ELECTRIC	\$ 2,627	15.8
47 SOHN LINEN SERVICE	LANSING MI	10,350,000	GAS	\$ 69,533	15.9

APPENDIX B COUNTY SUMMARIES

INGHAM

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 JACKSON NATIONAL LIFE	LANSING MI	10,282,000	GAS	\$ 69,056	15.9
49 JACKSON NATIONAL LIFE	MASON MI	10,282,000	GAS	\$ 69,056	15.9
50 CHIPPEWA MIDDLE SCHOOL	OKEMOS MI	10,024,000	GAS	\$ 67,248	16.0
51 EVERETT HIGH SCHOOL	LANSING MI	10,000,000	GAS	\$ 67,080	16.0
52 EVERETT HIGH SCHOOL	LANSING MI	10,000,000	GAS	\$ 67,080	16.0
53 EASTERN ANNEX	LANSING MI	10,000,000	GAS	\$ 67,080	16.0
54 HIGH GRADE MATERIALS	LANSING MI	10,000,000	GAS	\$ 67,080	16.0
55 OTTO JR HIGH SCHOOL	LANSING MI	10,000,000	GAS	\$ 67,080	16.0
56 BOICHOT CONCRETE PRODUCT	LANSING MI	9,800,000	GAS	\$ 66,678	16.4
57 GEAGLEY LABORATORY	EAST LANSING MI	9,763,000	GAS	\$ 66,419	16.4
58 SEARS -FRANDOR	LANSING MI	9,730,000	GAS	\$ 66,188	16.5
59 BURCHAM HILLS RETIREMENT CENTER ; EAST LANSING MI		140,000	ELECTRIC	\$ 1,585	17.5
60 BURCHAM HILLS RETIREMENT CENTER ; EAST LANSING MI		140,000	ELECTRIC	\$ 1,585	17.5
61 MICHIGAN SURGICAL CENTER	EAST LANSING MI	140,000	ELECTRIC	\$ 1,585	17.5
62 BARYAMES CLEANERS	LANSING MI	8,370,000	GAS	\$ 56,657	18.1
63 GEAGLEY LABORATORY	EAST LANSING MI	8,369,000	GAS	\$ 56,650	18.1
64 DEMMER CORP	LANSING MI	8,369,000	GAS	\$ 56,650	18.1
65 ATMOSPHERE ANNEALING INC	LANSING MI	8,369,000	GAS	\$ 56,650	18.1
66 EDWARD W SPARROW HOSPITAL ASSO	LANSING MI	8,349,000	GAS	\$ 56,510	18.1
67 ST LAWRENCE CAMPUS	LANSING MI	8,349,000	GAS	\$ 56,510	18.1
68 KOSITCHEKS	LANSING MI	124,000	ELECTRIC	\$ 1,347	18.3
69 C W OTTO SCHOOL	LANSING MI	124,000	ELECTRIC	\$ 1,347	18.3
70 STOCKBRIDGE HIGH SCHOOL	STOCKBRIDGE MI	122,946	ELECTRIC	\$ 1,331	18.4
71 MASON HIGH SCHOOL	MASON MI	8,000,000	GAS	\$ 54,064	18.5
72 MASON HIGH SCHOOL	MASON MI	8,000,000	GAS	\$ 54,064	18.5
73 LANSING EVERETT HIGH SCHOOL	LANSING MI	8,000,000	GAS	\$ 54,064	18.5
74 LANSING WASTE WATER PLANT	LANSING MI	8,000,000	GAS	\$ 54,064	18.5
75 LANSING WASTE WATER PLANT	LANSING MI	8,000,000	GAS	\$ 54,064	18.5
76 SMITH FLORAL COMPANY	LANSING MI	7,875,000	GAS	\$ 53,188	18.6
77 DELTA SIGMA	EAST LANSING MI	7,800,000	GAS	\$ 52,662	18.7
78 OLD COUNTRY BUFFET	OKEMOS MI	110,000	ELECTRIC	\$ 1,138	19.2
79 LANSING SURGERY CENTER	LANSING MI	105,000	ELECTRIC	\$ 1,064	19.6
80 BURCHAM HILLS RET CTR II	EAST LANSING MI	6,970,000	GAS	\$ 46,846	19.7
81 BURCHAM HILLS RET CENTER	EAST LANSING MI	6,970,000	GAS	\$ 46,846	19.7
82 DWIGHT H RICH JR HIGH	LANSING MI	6,900,000	GAS	\$ 46,355	19.8
83 DWIGHT H RICH JR HIGH	LANSING MI	6,900,000	GAS	\$ 46,355	19.8
84 DWIGHT H RICH JR HIGH	LANSING MI	6,900,000	GAS	\$ 46,355	19.8
85 BOARD OF WATER & LIGHT	LANSING MI	102,000	ELECTRIC	\$ 1,019	19.9

APPENDIX B COUNTY SUMMARIES

IONIA

BTU		FUEL TYPE	
<750,000	219	GAS (Natural Gas)	365
750,001-2,500,000	110	PROPANE	0
2,500,001-5,000,000	13	OIL	6
5,000,001-15,000,000	11	WOOD	5
15,000,001-25,000,000	5	ELECTRIC	1
>25,000,001	3	COAL	4
N/A	20	OTHER	0
TOTAL	381	TOTAL	381

AGE		BOILER USE	
2000-present	110	Hot Water Heat	254
1980-1999	215	Hot Water Supply	58
1960-1979	39	Steam Heating	39
1945-1959	10	Power	18
older than 1945	6	Process Steam	7
N/A	1	Other	5
TOTAL	381	TOTAL	381

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	4,729
1-5 Years	0	Potential Wood Use	32,363
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	6		
16-20 years	8		
Greater than 21 years	365		
TOTAL	381		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MICHIGAN REFORMATORY	IONIA MI	70,000,000	GAS	\$ 480,560	8.0
2 STATE OF MICHIGAN	IONIA MI	70,000,000	GAS	\$ 480,560	8.0
3 BELDING MIDDLE SCHOOL	BELDING MI	25,000,000	GAS	\$ 172,200	10.2
4 IONIA HOSPITAL	IONIA MI	4,720,000	OIL	\$ 68,790	10.5
5 IONIA HOSPITAL	IONIA MI	4,720,000	OIL	\$ 68,790	10.5
6 MERIDIAN AUTOMOTIVE SYSTEMS	IONIA MI	138,000,000	GAS	\$ 957,104	12.8
7 MERIDIAN AUTOMOTIVE SYSTEMS	IONIA MI	13,800,000	GAS	\$ 93,710	14.4
8 RIVERSIDE CORRECTIONAL FACILITY	IONIA MI	12,553,000	GAS	\$ 84,971	14.9
9 DEVEREAUX SAW MILL INC	PEWAMO MI	12,000,000	GAS	\$ 81,096	15.2
10 ADM ALLIANCE NUTRITION	PORTLAND MI	8,375,000	GAS	\$ 56,692	18.1
11 MIZKAN AMERICAS INCORPORATED	BELDING MI	8,369,000	GAS	\$ 56,650	18.1
12 MHA SERVICE CORPORATION	IONIA MI	8,360,000	GAS	\$ 56,587	18.1
13 IONIA HIGH SCHOOL NEW	IONIA MI	8,000,000	GAS	\$ 54,064	18.5
14 IONIA HIGH SCHOOL NEW	IONIA MI	8,000,000	GAS	\$ 54,064	18.5
15 MICHIGAN REFORMATORY	IONIA MI	7,000,000	GAS	\$ 47,056	19.7
16 HIGH SCHOOL	IONIA MI	102,400	ELECTRIC	\$ 1,025	19.9
17 IONIA MIDDLE SCHOOL	IONIA MI	6,559,000	GAS	\$ 43,965	20.3
18 IONIA MIDDLE SCHOOL	IONIA MI	6,559,000	GAS	\$ 43,965	20.3
19 HUBBARDSTON ELEM SCHOOL	HUBBARDSTON MI	2,472,000	OIL	\$ 20,155	21.5
20 BELDING HIGH SCHOOL	BELDING MI	5,000,000	GAS	\$ 33,040	22.3
21 WEST ELEMENTARY SCHOOL	LAKE ODESSA MI	2,005,000	OIL	\$ 16,064	22.5
22 PALO COMM SCHOOLS	PALO MI	1,650,000	OIL	\$ 12,954	23.4
23 ST PATRICKS PARISH	PORTLAND MI	4,315,000	GAS	\$ 28,740	23.5
24 JEFFERSON ELEMENTARY	IONIA MI	4,185,000	GAS	\$ 27,828	23.8
25 IONIA MIDDLE SCHOOL	IONIA MI	4,000,000	GAS	\$ 26,532	24.1
26 BELLAMY CREEK CORRECTIONAL	IONIA MI	3,500,000	GAS	\$ 23,028	25.1
27 BELLAMY CREEK CORRECTIONAL	IONIA MI	3,500,000	GAS	\$ 23,028	25.1
28 ROBROY IND BELDING DIV	BELDING MI	3,450,000	GAS	\$ 22,678	25.2
29 BELLAMY CREEK CORRECTIONAL	IONIA MI	3,000,000	GAS	\$ 19,524	26.1
30 TWIN RIVER ELEMENTARY	MUIR MI	3,000,000	GAS	\$ 19,524	26.1
31 HAND OF GOD MINISTRIES	IONIA MI	350,000	OIL	\$ 2,566	26.8
32 SARANAC BRAND FOODS	SARANAC MI	1,470,000	GAS	\$ 788	345.8
33 RICHARDSON MILL APTS	BELDING MI	1,450,000	GAS	\$ 770	349.2
34 BELDING HIGH SCHOOL	BELDING MI	1,440,000	GAS	\$ 761	351.0
35 OAKWOOD ELEMENTARY SCHOOL	PORTLAND MI	1,440,000	GAS	\$ 761	351.0

APPENDIX B COUNTY SUMMARIES

IOSCO

BTU		FUEL TYPE	
<750,000	216	GAS (Natural Gas)	289
750,001-2,500,000	61	PROPANE	0
2,500,001-5,000,000	11	OIL	6
5,000,001-15,000,000	1	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	9
>25,000,001	0	COAL	0
N/A	15	OTHER	0
TOTAL	304	TOTAL	304
AGE		BOILER USE	
2000-present	69	Hot Water Heat	261
1980-1999	163	Hot Water Supply	23
1960-1979	65	Steam Heating	6
1945-1959	7	Power	7
older than 1945	0	Process Steam	7
N/A	0	Other	0
TOTAL	304	TOTAL	304
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	1,382
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	2		
Greater than 21 years	299		
TOTAL	304		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	4,200,000	ELECTRIC	\$ 86,801	7.6
2 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	2,100,000	ELECTRIC	\$ 29,773	12.6
3 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	633,500	ELECTRIC	\$ 8,934	13.7
4 AUNE MEDICAL CENTER	OSCODA MI	9,995,000	GAS	\$ 68,045	16.2
5 HALE HIGH SCHOOL	HALE MI	105,000	ELECTRIC	\$ 1,064	19.6
6 TURNER CHEESE	WHITTEMORE MI	2,200,000	OIL	\$ 17,772	22.0
7 AIRPORT AUTHORITY	OSCODA MI	1,435,000	OIL	\$ 12,071	22.1
8 OSCODA ENGINEERING	OSCODA MI	1,435,000	OIL	\$ 12,071	22.1
9 IOSCO COUNTY ROAD COMMISSION	TAWAS CITY MI	2,100,000	OIL	\$ 16,896	22.2
10 TAWAS PLATING COMPANY	TAWAS CITY MI	4,313,000	GAS	\$ 28,726	23.6
11 HOLY FAMILY SCHOOL	EAST TAWAS MI	3,750,000	GAS	\$ 24,780	24.6
12 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	3,120,000	GAS	\$ 20,365	25.9
13 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	3,120,000	GAS	\$ 20,365	25.9
14 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	3,120,000	GAS	\$ 20,365	25.9
15 TAWAS ST JOSEPH HEALTH REHABILITATION	TAWAS CITY MI	3,120,000	GAS	\$ 20,365	25.9
16 MICHAEL S RICHARDSON	OSCODA MI	96,800	OIL	\$ 348	57.5
17 TAWAS HIGH SCHOOL	TAWAS CITY MI	1,440,000	GAS	\$ 761	351.0
18 TAWAS HIGH SCHOOL	TAWAS CITY MI	1,440,000	GAS	\$ 761	351.0
19 TAWAS HIGH SCHOOL	TAWAS CITY MI	1,440,000	GAS	\$ 761	351.0
20 RICHARDSON ELEMENTARY AND MIDDLE	OSCODA MI	1,357,000	GAS	\$ 689	367.3
21 RICHARDSON ELEMENTARY AND MIDDLE	OSCODA MI	1,357,000	GAS	\$ 689	367.3
22 OSCODA HIGH SCHOOL	OSCODA MI	1,222,500	GAS	\$ 571	402.1
23 AUNE MEDICAL CENTER	OSCODA MI	1,222,500	GAS	\$ 571	402.1
24 AUNE MEDICAL CENTER	OSCODA MI	1,222,500	GAS	\$ 571	402.1
25 AUNE MEDICAL CENTER	OSCODA MI	1,222,500	GAS	\$ 571	402.1
26 OSCODA HEALTH CLINIC	OSCODA MI	1,222,500	GAS	\$ 571	402.1
27 HALE HIGH SCHOOL	HALE MI	1,200,000	GAS	\$ 551	409.3
28 MAINTENANCE SHOP	OSCODA MI	1,200,000	GAS	\$ 551	409.3
29 ALPENA COMMUNITY COLLEGE	OSCODA MI	1,124,700	GAS	\$ 485	437.5
30 RICHARDSON ELEMENTARY	OSCODA MI	2,930,000	GAS	\$ 1,067	468.9
31 IOSCO CO SHERIFF DEPT	TAWAS CITY MI	1,000,000	GAS	\$ 376	505.3
32 WHITTEMORE-PRESCOTT ELEM	WHITTEMORE MI	1,000,000	GAS	\$ 376	505.3
33 AUNE MEDICAL CENTER	OSCODA MI	999,500	GAS	\$ 376	505.7
34 OSCODA SR CONDO	OSCODA MI	960,000	GAS	\$ 341	536.1
35 OSCODA SR CONDO	OSCODA MI	960,000	GAS	\$ 341	536.1

APPENDIX B COUNTY SUMMARIES

IRON

BTU		FUEL TYPE	
<750,000	150	GAS (Natural Gas)	205
750,001-2,500,000	30	PROPANE	0
2,500,001-5,000,000	5	OIL	6
5,000,001-15,000,000	3	WOOD	4
15,000,001-25,000,000	0	ELECTRIC	5
>25,000,001	0	COAL	0
N/A	32	OTHER	0
TOTAL	220	TOTAL	220

AGE		BOILER USE	
2000-present	38	Hot Water Heat	166
1980-1999	138	Hot Water Supply	16
1960-1979	39	Steam Heating	26
1945-1959	4	Power	7
older than 1945	1	Process Steam	5
N/A	0	Other	0
TOTAL	220	TOTAL	220

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	2,743
1-5 Years	0	Potential Wood Use	32
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	2		
Greater than 21 years	218		
TOTAL	220		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ENBRIDGE ENERGY	IRON RIVER MI	262,500	ELECTRIC	\$ 3,409	15.2
2 IRON COUNTY GENERAL HOSPITAL	IRON RIVER MI	131,000	ELECTRIC	\$ 1,451	17.9
3 CRYSTAL MANOR	CRYSTAL FALLS MI	6,700,000	GAS	\$ 44,954	20.1
4 GREAT LAKES TRANS CO STATION #8	CRYSTAL FALLS MI	6,100,000	GAS	\$ 40,749	20.8
5 ALS FURNITURE	IRON RIVER MI	1,100,000	OIL	\$ 9,136	22.8
6 KRIST OIL COMPANY	IRON RIVER MI	895,000	OIL	\$ 7,340	23.3
7 IRON COUNTY MED CARE FAC	CRYSTAL FALLS MI	4,400,000	GAS	\$ 29,335	23.4
8 IRON CTY MED CARE FAC	CRYSTAL FALLS MI	4,181,000	GAS	\$ 27,800	23.8
9 MIDDLE SCHOOL	IRON RIVER MI	3,500,000	GAS	\$ 23,028	25.1
10 MIDDLE SCHOOL	IRON RIVER MI	3,500,000	GAS	\$ 23,028	25.1
11 STAMBAUGH ELEM SCHOOL	STAMBAUGH MI	3,103,000	GAS	\$ 20,246	25.9
12 KRIST OIL COMPANY	IRON RIVER MI	295,000	OIL	\$ 2,084	27.9
13 KRIST OIL COMPANY	IRON RIVER MI	295,000	OIL	\$ 2,084	27.9
14 HEARTWOOD FORESTLAND FUND IV	AMASA MI	243,000	OIL	\$ 1,629	29.5
15 KRIST OIL COMPANY	IRON RIVER MI	225,000	OIL	\$ 1,471	30.2
16 DINA MIA KITCHENS	IRON RIVER MI	57,500	ELECTRIC	\$ 356	56.1
17 CRYSTAL MANOR	CRYSTAL FALLS MI	1,450,000	GAS	\$ 770	349.2
18 DEERFIELD CORRECTIONAL FAC	IONIA MI	1,400,000	GAS	\$ 726	358.5
19 SPRING VALLEY APARTMENTS	CASPIAN MI	1,248,000	GAS	\$ 593	394.5
20 SPRING VALLEY APARTMENTS	CASPIAN MI	1,248,000	GAS	\$ 593	394.5
21 WEST IRON CO HIGH SCH	STAMBAUGH MI	1,200,000	GAS	\$ 551	409.3
22 WEST IRON CO HIGH SCH	STAMBAUGH MI	1,200,000	GAS	\$ 551	409.3
23 WEST IRON CO HIGH SCH	STAMBAUGH MI	1,200,000	GAS	\$ 551	409.3
24 IRON COUNTY COURT HOUSE	CRYSTAL FALLS MI	1,077,000	GAS	\$ 443	459.6
25 IRON COUNTY COURT HOUSE	CRYSTAL FALLS MI	1,077,000	GAS	\$ 443	459.6
26 PLEASANT VALLEY APTS	CRYSTAL FALLS MI	1,000,000	GAS	\$ 376	505.3
27 PLEASANT VALLEY APTS	CRYSTAL FALLS MI	1,000,000	GAS	\$ 376	505.3
28 IRON RIVER NURSING HOME	IRON RIVER MI	1,000,000	GAS	\$ 376	505.3
29 IRON COUNTY MEDICAL CARE	CRYSTAL FALLS MI	980,000	GAS	\$ 358	520.0
30 IRON COUNTY MEDICAL CARE	CRYSTAL FALLS MI	980,000	GAS	\$ 358	520.0
31 CITY HALL BUILDING	CRYSTAL FALLS MI	910,000	GAS	\$ 297	584.6
32 PLOWE FURNITURE STORE	CRYSTAL FALLS MI	910,000	GAS	\$ 297	584.6
33 BATES TWP/ELEM SCHOOL	IRON RIVER MI	900,000	GAS	\$ 288	596.0
34 BATES TWP/ELEM SCHOOL	IRON RIVER MI	900,000	GAS	\$ 288	596.0
35 LAKESHORE INC	IRON RIVER MI	900,000	GAS	\$ 288	596.0

APPENDIX B COUNTY SUMMARIES

ISABELLA

BTU		FUEL TYPE	
<750,000	304	GAS (Natural Gas)	437
750,001-2,500,000	105	PROPANE	0
2,500,001-5,000,000	8	OIL	0
5,000,001-15,000,000	3	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	7	COAL	2
N/A	17	OTHER	0
TOTAL	444	TOTAL	444

AGE		BOILER USE	
2000-present	127	Hot Water Heat	311
1980-1999	251	Hot Water Supply	105
1960-1979	55	Steam Heating	6
1945-1959	6	Power	14
older than 1945	5	Process Steam	6
N/A	0	Other	2
TOTAL	444	TOTAL	444

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	12,167
1-5 Years	0	Potential Wood Use	24,515
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	2		
Greater than 21 years	435		
TOTAL	444		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MOUNT PLEASANT REGIONAL CENTER	MT PLEASANT MI	54,532,000	GAS	\$ 372,160	6.9
2 MT PLEASANT CENTER STATE OF MI	MT PLEASANT MI	34,500,000	GAS	\$ 236,776	7.0
3 CENTRAL MICHIGAN UNIVERSITY POWE	MT.PLEASANT MI	71,530,000	GAS	\$ 491,282	8.1
4 CENTRAL MICHIGAN UNIVERSITY- POWE	MT.PLEASANT MI	72,464,000	GAS	\$ 497,828	8.2
5 MORBARK INCORPORATED	WINN MI	29,300,000	GAS	\$ 202,334	8.6
6 MT PLEASANT REGIONAL CENTER	MT PLEASANT MI	25,280,000	GAS	\$ 174,162	10.1
7 HEALTH PROFESSIONAL BUILDING	MT PLEASANT MI	630,000	ELECTRIC	\$ 8,882	13.7
8 MT PLEASANT HIGH SCHOOL	MT PLEASANT MI	7,000,000	GAS	\$ 47,056	19.7
9 MT PLEASANT HIGH SCHOOL	MT PLEASANT MI	7,000,000	GAS	\$ 47,056	19.7
10 CENTRAL MICHIGAN UNIV	MT PLEASANT MI	5,021,000	GAS	\$ 33,187	22.3
11 WEST INTERMEDIATE SCHOOL	MT PLEASANT MI	5,000,000	GAS	\$ 33,040	22.3
12 WEST INTERMEDIATE SCHOOL	MT PLEASANT MI	5,000,000	GAS	\$ 33,040	22.3
13 OLSEN TIRE	MT PLEASANT MI	3,450,000	GAS	\$ 22,678	25.2
14 ITW FOILS	MT PLEASANT MI	82,000	ELECTRIC	\$ 721	27.7
15 CENTRAL MICHIGAN UNIVERSITY TV-14	MT PLEASANT MI	63,000	ELECTRIC	\$ 438	45.6
16 HOLIDAY INN	MT PLEASANT MI	63,000	ELECTRIC	\$ 438	45.6
17 SACRED HEART CHURCH	MT PLEASANT MI	1,470,000	GAS	\$ 788	345.8
18 NORTHWEST APARTMENTS	MT PLEASANT MI	1,440,000	GAS	\$ 761	351.0
19 MT PLEASANT HIGH SCHOOL	MT PLEASANT MI	1,440,000	GAS	\$ 761	351.0
20 KELLY SHORT STADIUM	MT PLEASANT MI	1,440,000	GAS	\$ 761	351.0
21 WATER TREATMENT PLANT	MT PLEASANT MI	1,392,000	GAS	\$ 719	360.1
22 WATER TREATMENT PLANT	MT PLEASANT MI	1,392,000	GAS	\$ 719	360.1
23 FIREHOUSE CAR WASH	MT PLEASANT MI	1,304,000	GAS	\$ 642	379.6
24 JAMESTOWN APTS	MT PLEASANT MI	1,270,000	GAS	\$ 613	388.3
25 ELEMENTARY SCHOOL	COLEMAN MI	1,260,000	GAS	\$ 604	391.1
26 ELEMENTARY SCHOOL	COLEMAN MI	1,260,000	GAS	\$ 604	391.1
27 ELEMENTARY SCHOOL	COLEMAN MI	1,260,000	GAS	\$ 604	391.1
28 ELEMENTARY SCHOOL	COLEMAN MI	1,260,000	GAS	\$ 604	391.1
29 KEWADIN VILLAGE BLDG 200	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1
30 KEWADIN VILLAGE BLDG 900	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1
31 MR PLEASANT PUB SAFETY	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1
32 MR PLEASANT PUB SAFETY	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1
33 MOREY CHARTER JR/SR HIGH	SHEPERD MI	1,260,000	GAS	\$ 604	391.1
34 PULLEN ELEMENTARY SCHOOL	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1
35 PULLEN ELEMENTARY SCHOOL	MT PLEASANT MI	1,260,000	GAS	\$ 604	391.1

APPENDIX B COUNTY SUMMARIES

JACKSON

BTU		FUEL TYPE	
<750,000	524	GAS (Natural Gas)	1001
750,001-2,500,000	243	PROPANE	0
2,500,001-5,000,000	42	OIL	5
5,000,001-15,000,000	39	WOOD	2
15,000,001-25,000,000	6	ELECTRIC	19
>25,000,001	17	COAL	0
N/A	173	OTHER	17
TOTAL	1044	TOTAL	1044

AGE		BOILER USE	
2000-present	220	Hot Water Heat	641
1980-1999	513	Hot Water Supply	156
1960-1979	253	Steam Heating	150
1945-1959	47	Power	76
older than 1945	11	Process Steam	19
N/A	0	Other	2
TOTAL	1044	TOTAL	1044

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	1	Potential Wood Use	44,550
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	13		
16-20 years	27		
Greater than 21 years	1001		
TOTAL	1044		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 SPSM BUILDING 196	JACKSON MI	72,000,000	OIL	\$ 1,062,224	3.8
2 SO MICH STATE PRISON	JACKSON MI	72,000,000	GAS	\$ 494,576	8.2
3 STATE PRISON OF SO MICH	JACKSON MI	72,000,000	GAS	\$ 494,576	8.2
4 CONSUMERS ENERGY CORP	JACKSON MI	20,660,000	GAS	\$ 141,785	11.8
5 CONSUMERS ENERGY CORP	JACKSON MI	20,660,000	GAS	\$ 141,785	11.8
6 ROSE CITY PROFESSIONAL	JACKSON MI	18,780,000	GAS	\$ 128,610	12.5
7 KANEKA TEXAS CORPORATION	JACKSON MI	17,700,000	GAS	\$ 121,042	12.9
8 KANEKA TEXAS CORPORATION	JACKSON MI	17,700,000	GAS	\$ 121,042	12.9
9 KANEKA TEXAS CORPORATION	JACKSON MI	17,700,000	GAS	\$ 121,042	12.9
10 CMS ENERGY COPRORATION	JACKSON MI	840,000	ELECTRIC	\$ 12,009	13.4
11 WM FOOTE MEMORIAL HOSPITAL	JACKSON MI	14,645,000	GAS	\$ 99,632	14.1
12 W A FOOTE MEMORIAL HOSP	JACKSON MI	14,645,000	GAS	\$ 99,632	14.1
13 W A FOOTE MEMORIAL HOSP	JACKSON MI	14,645,000	GAS	\$ 99,632	14.1
14 MAC STEEL DIV	JACKSON MI	12,500,000	GAS	\$ 84,600	15.0
15 PONDEROSA	JACKSON MI	290,000	ELECTRIC	\$ 3,819	15.0
16 PONDEROSA	JACKSON MI	290,000	ELECTRIC	\$ 3,819	15.0
17 COOPER ST CORR. FACILITY	JACKSON MI	244,000	ELECTRIC	\$ 3,134	15.4
18 AERO QUIP	JACKSON MI	239,000	ELECTRIC	\$ 3,059	15.4
19 CMS ENERGY	JACKSON MI	210,000	ELECTRIC	\$ 2,627	15.8
20 HUMAN SERVICES BUILDING	JACKSON MI	10,461,000	GAS	\$ 70,311	15.8
21 CASCADE MANOR HOUSE	JACKSON MI	190,000	ELECTRIC	\$ 2,329	16.2
22 CASCADE MANOR HOUSE	JACKSON MI	190,000	ELECTRIC	\$ 2,329	16.2
23 BLAKE WOODS PARK SURGERY CTR	JACKSON MI	190,000	ELECTRIC	\$ 2,329	16.2
24 CRACKER BARREL	JACKSON MI	190,000	ELECTRIC	\$ 2,329	16.2
25 JACKSON COUNTY	JACKSON MI	9,240,000	GAS	\$ 62,754	17.0
26 SPARTON CORPORATION	JACKSON MI	8,375,000	GAS	\$ 56,692	18.1
27 SPARTAN CORP	JACKSON MI	8,375,000	GAS	\$ 56,692	18.1
28 COMMUNITY EDUCATION CTR	MICHIGAN CNTR MI	8,375,000	GAS	\$ 56,692	18.1
29 MICHIGAN AUTOMOTIVE COMPRESSORS	PARMA MI	8,370,000	GAS	\$ 56,657	18.1
30 MICHIGAN AUTO COMPRESS	PARMA MI	8,370,000	GAS	\$ 56,657	18.1
31 MICHIGAN AUTO COMPRESSORS	PARMA MI	8,370,000	GAS	\$ 56,657	18.1
32 PROGRESSIVE COATINGS	SPRING ARBOR MI	8,190,000	GAS	\$ 55,396	18.3
33 CITY OF JACKSON	JACKSON MI	7,800,000	GAS	\$ 52,662	18.7
34 JACKSON HIGH SCHOOL	JACKSON MI	7,729,000	GAS	\$ 52,165	18.8
35 JACKSON HIGH SCHOOL	JACKSON MI	7,729,000	GAS	\$ 52,165	18.8
36 CMS ENERGY	JACKSON MI	7,729,000	GAS	\$ 52,165	18.8
37 CMS ENERGY	JACKSON MI	7,729,000	GAS	\$ 52,165	18.8
38 MICHNER PLATING CO	JACKSON MI	7,500,000	GAS	\$ 50,560	19.1
39 DAWN FOOD PRODUCTS	JACKSON MI	7,500,000	GAS	\$ 50,560	19.1
40 COTTON CORRECTIONAL FACILITY	JACKSON MI	7,500,000	GAS	\$ 50,560	19.1
41 COTTON FACILITY - 200	JACKSON MI	7,500,000	GAS	\$ 50,560	19.1
42 CATHOLIC CHARITIES OF JACKSON	JACKSON MI	7,080,000	GAS	\$ 47,617	19.6
43 GREENWOOD ACRES	JACKSON MI	6,820,000	GAS	\$ 45,795	19.9

APPENDIX B COUNTY SUMMARIES

KALAMAZOO

BTU		FUEL TYPE	
<750,000	974	GAS (Natural Gas)	1762
750,001-2,500,000	318	PROPANE	1
2,500,001-5,000,000	76	OIL	23
5,000,001-15,000,000	53	WOOD	3
15,000,001-25,000,000	15	ELECTRIC	24
>25,000,001	11	COAL	8
N/A	374	OTHER	0
TOTAL	1821	TOTAL	1821

AGE		BOILER USE	
2000-present	395	Hot Water Heat	1263
1980-1999	867	Hot Water Supply	226
1960-1979	472	Steam Heating	178
1945-1959	80	Power	93
older than 1945	7	Process Steam	57
N/A	0	Other	4
TOTAL	1821	TOTAL	1821

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	0
1-5 Years	1	Potential Wood Use	101,044
6-10 years	8	(Projects <20 yrs payback)	
11-15 years	35		
16-20 years	26		
Greater than 21 years	1751		
TOTAL	1821		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PFIZER	PORTAGE MI	26,700,000	OIL	\$ 394,616	4.4
2 PFIZER	PORTAGE MI	15,700,000	OIL	\$ 230,804	6.3
3 ANDERSON GYM	KALAMAZOO MI	12,554,000	OIL	\$ 183,954	6.9
4 BORGESS MEDICAL CENTER	KALAMAZOO MI	32,615,000	GAS	\$ 223,566	7.1
5 BORGESS MEDICAL CENTER	KALAMAZOO MI	32,615,000	GAS	\$ 223,566	7.1
6 LINCOLN SCHOOL	KALAMAZOO MI	8,930,000	OIL	\$ 130,986	8.0
7 WESTERN POWER HOUSE	KALAMAZOO MI	71,500,000	GAS	\$ 491,072	8.1
8 METRO TRANSIT FACILITY	KALAMAZOO MI	8,000,000	OIL	\$ 117,136	8.5
9 CYTEC INDUSTRIES	KALAMAZOO MI	29,291,000	GAS	\$ 202,271	8.6
10 PFIZER	KALAMAZOO MI	108,000,000	GAS	\$ 746,864	10.7
11 INTERNATIONAL PAPER CO	KALAMAZOO MI	22,094,000	GAS	\$ 151,835	11.2
12 PFIZER	PORTAGE MI	116,400,000	GAS	\$ 805,731	11.3
13 EDISON SCHOOL	KALAMAZOO MI	3,325,000	OIL	\$ 48,016	11.5
14 EDISON SCHOOL	KALAMAZOO MI	3,300,000	OIL	\$ 47,644	11.6
15 ASCENSION HEALTH	KALAMAZOO MI	21,100,000	GAS	\$ 144,869	11.6
16 WINCHELL SCHOOL	KALAMAZOO MI	3,040,000	OIL	\$ 43,772	11.8
17 GRAPHICS PACKAGING CORPORATION	KALAMAZOO MI	20,456,000	GAS	\$ 140,356	11.9
18 INTERNATIONAL PAPER	KALAMAZOO MI	20,412,000	GAS	\$ 140,047	11.9
19 KALSEC	KALAMAZOO MI	20,411,600	GAS	\$ 140,044	11.9
20 KALAMAZOO VALLEY COMMUNITY COLLEGE	KALAMAZOO MI	20,032,000	GAS	\$ 137,384	12.0
21 KALAMAZOO VALLEY COMMUNITY COLLEGE	KALAMAZOO MI	20,032,000	GAS	\$ 137,384	12.0
22 BRONSON METHODIST HOSPITAL	KALAMAZOO MI	20,000,000	GAS	\$ 137,160	12.0
23 NEW CENTRAL HIGH SCHOOL	KALAMAZOO MI	17,860,000	GAS	\$ 122,163	12.8
24 PFIZER VETERINARY MEDICINE	RICHLAND MI	16,361,000	GAS	\$ 111,658	13.4
25 PFIZER VETERINARY MEDICINE	RICHLAND MI	16,361,000	GAS	\$ 111,658	13.4
26 GREEN BAY PACKAGING INCORPORATE	KALAMAZOO MI	16,329,800	GAS	\$ 111,439	13.4
27 GREEN BAY PACKAGING INCORPORATE	KALAMAZOO MI	16,329,800	GAS	\$ 111,439	13.4
28 PFIZER FARMS	RICHLAND MI	15,296,900	GAS	\$ 104,201	13.8
29 BRONSON METHODIST HOSPITAL	KALAMAZOO MI	15,000,000	GAS	\$ 102,120	14.0
30 BRONSON METHODIST HOSPITAL	KALAMAZOO MI	15,000,000	GAS	\$ 102,120	14.0
31 BRONSON METHODIST HOSPITAL	KALAMAZOO MI	15,000,000	GAS	\$ 102,120	14.0
32 STRYKER CORPORATION	KALAMAZOO MI	450,000	ELECTRIC	\$ 6,201	14.2
33 THE MENS WEARHOUSE	PORTAGE MI	400,000	ELECTRIC	\$ 5,457	14.4
34 STRYKER CORPORATION	KALAMAZOO MI	350,000	ELECTRIC	\$ 4,712	14.6
35 BOVENS QUALITY PLANTS	KALAMAZOO MI	12,600,000	GAS	\$ 85,301	14.9
36 BOVENS QUALITY PLANTS	KALAMAZOO MI	12,600,000	GAS	\$ 85,301	14.9
37 KALAMAZOO COLLEGE	KALAMAZOO MI	12,500,000	GAS	\$ 84,600	15.0
38 NORTH MIDDLE SCHOOL	PORTAGE MI	12,500,000	GAS	\$ 84,600	15.0
39 NORTH MIDDLE SCHOOL	PORTAGE MI	12,500,000	GAS	\$ 84,600	15.0
40 CO AMERICA BANK BUILDING	KALAMAZOO MI	12,500,000	GAS	\$ 84,600	15.0
41 ANDERSON GYM	KALAMAZOO MI	12,500,000	GAS	\$ 84,600	15.0
42 ANDERSON GYM	KALAMAZOO MI	12,500,000	GAS	\$ 84,600	15.0
43 LAKE CENTER ELEMENTARY SCHOOL	PORTAGE MI	12,500,000	GAS	\$ 84,600	15.0
44 CHARLES RIVER LAB INC	PORTAGE MI	12,500,000	GAS	\$ 84,600	15.0
45 RADISON PLAZA HOTEL	KALAMAZOO MI	12,000,000	GAS	\$ 81,096	15.2
46 PFIZER	RICHLAND MI	235,710	ELECTRIC	\$ 3,010	15.5
47 ADVANCE PUBLICATIONS-KALAMAZOO COUNTY	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8

APPENDIX B COUNTY SUMMARIES

KALAMAZOO

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 ADVANCE PUBLICATIONS-KALAMAZOO	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8
49 KALSEC INC	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8
50 VAN BOVEN QUALITY PLANTS	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8
51 RADISSON PLAZA HOTEL	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8
52 GRAPHIC PACKAGING CORPORATION	KALAMAZOO MI	180,370,000	GAS	\$ 1,254,033	15.8
53 GLAXOSMITHKLINE PLC	KALAMAZOO MI	10,140,000	GAS	\$ 68,061	16.0
54 WOODLAND ELEM SCHOOL	PORTAGE MI	10,010,000	GAS	\$ 67,150	16.0
55 AMBERLY ELEM. SCHOOL	PORTAGE MI	9,985,000	GAS	\$ 67,975	16.2
56 SHERIFFS DEPARTMENT	KALAMAZOO MI	160,000	ELECTRIC	\$ 1,883	16.9
57 CRACKER BARREL	KALAMAZOO MI	130,000	ELECTRIC	\$ 1,436	18.0
58 CRACKER BARREL	KALAMAZOO MI	130,000	ELECTRIC	\$ 1,436	18.0
59 CRACKER BARREL	KALAMAZOO MI	130,000	ELECTRIC	\$ 1,436	18.0
60 CULVER ESTATES	KALAMAZOO MI	130,000	ELECTRIC	\$ 1,436	18.0
61 PORTAGE COMM ED CENTER	PORTAGE MI	8,375,000	GAS	\$ 56,692	18.1
62 PFIZER	KALAMAZOO MI	8,369,000	GAS	\$ 56,650	18.1
63 METRO TRANSIT FACILITY	KALAMAZOO MI	8,000,000	GAS	\$ 54,064	18.5
64 CITY OF KALAMAZOO	KALAMAZOO MI	8,000,000	GAS	\$ 54,064	18.5
65 CITY OF KALAMAZOO	KALAMAZOO MI	8,000,000	GAS	\$ 54,064	18.5
66 PFIZER	PORTAGE MI	116,400	ELECTRIC	\$ 1,233	18.8
67 PARCHMENT JR HIGH SCHOOL	PARCHMENT MI	7,560,000	GAS	\$ 50,980	19.0
68 PARCHMENT JR HIGH SCHOOL	PARCHMENT MI	7,560,000	GAS	\$ 50,980	19.0
69 PARKWOOD SCHOOL	KALAMAZOO MI	7,500,000	GAS	\$ 50,560	19.1
70 PFIZER	KALAMAZOO MI	101,850	ELECTRIC	\$ 1,017	19.9

APPENDIX B COUNTY SUMMARIES

KALKASKA

BTU		FUEL TYPE	
<750,000	80	GAS (Natural Gas)	102
750,001-2,500,000	20	PROPANE	0
2,500,001-5,000,000	4	OIL	0
5,000,001-15,000,000	0	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	3
>25,000,001	0	COAL	0
N/A	1	OTHER	0
TOTAL	105	TOTAL	105
AGE		BOILER USE	
2000-present	11	Hot Water Heat	85
1980-1999	67	Hot Water Supply	12
1960-1979	25	Steam Heating	5
1945-1959	2	Power	1
older than 1945	0	Process Steam	2
N/A	0	Other	0
TOTAL	105	TOTAL	105
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	54
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	1		
Greater than 21 years	103		
TOTAL	105		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 LEVEL ACRES HOUSING CORP	KALKASKA MI	500,000	ELECTRIC	\$ 6,946	14.0
2 KALKASKA HIGH SCHOOL	KALKASKA MI	168,000	ELECTRIC	\$ 2,002	16.6
3 KALKASKA HIGH SCHOOL	KALKASKA MI	4,200,000	GAS	\$ 27,934	23.8
4 FOREST AREA COMMUNITY SCHOOLS	FIFE LAKE MI	75,000	ELECTRIC	\$ 617	32.4
5 KALKASKA HIGH SCHOOL	KALKASKA MI	1,260,000	GAS	\$ 604	391.1
6 KALKASKA HIGH SCHOOL	KALKASKA MI	1,260,000	GAS	\$ 604	391.1
7 CHERRY STREET ELEMENTARY SCHOOL	KALKASKA MI	1,255,000	GAS	\$ 599	392.5
8 CHERRY ST ELEMENTARY SCHOOL	KALKASKA MI	1,255,000	GAS	\$ 599	392.5
9 TOUCHLESS CAR WASH	KALKASKA MI	1,202,000	GAS	\$ 553	408.6
10 KALKASKA MIDDLE SCHOOL	KALKASKA MI	1,080,000	GAS	\$ 446	458.1
11 KALKASKA PUBLIC SCHOOLS	KALKASKA MI	1,080,000	GAS	\$ 446	458.1
12 GEORGE SHETLER	KALKASKA MI	1,075,000	GAS	\$ 442	460.6
13 MICHIGAN CONSOLIDATED GAS CO	KALKASKA MI	2,930,000	GAS	\$ 1,067	468.9
14 KALKASKA ELEMENTARY SCHOOL	KALKASKA MI	2,929,000	GAS	\$ 1,066	469.1
15 KALKASKA PUBLIC SCHOOLWS	KALKASKA MI	2,929,000	GAS	\$ 1,066	469.1
16 MERIT ENERGY	KALKASKA MI	1,000,000	GAS	\$ 376	505.3
17 KALKASKA MEM HEALTH CTR	KALKASKA MI	961,700	GAS	\$ 342	534.7
18 FOREST AREA HIGH SCHOOL	FIFE LAKE MI	900,000	GAS	\$ 288	596.0
19 FOREST AREA HIGH SCHOOL	FIFE LAKE MI	900,000	GAS	\$ 288	596.0
20 KALKASKA MEM HEALTH CTR	KALKASKA MI	2,500,000	GAS	\$ 690	634.1
21 KALKASKA MIDDLE SCHOOL	KALKASKA MI	2,400,000	GAS	\$ 602	701.2
22 FOREST AREA COMMUNITY SCHOOLS	FIFE LAKE MI	777,600	GAS	\$ 181	825.0
23 KALKASKA CO RECREATIONAL CNTR	KALKASKA MI	2,100,000	GAS	\$ 340	1,106.9
24 KALKASKA COUNTY RECREATIONAL CE	KALKASKA MI	2,100,000	GAS	\$ 340	1,106.9
25 KALKASKA COUNTY RECREATIONAL CE	KALKASKA MI	2,100,000	GAS	\$ 340	1,106.9
26 KALKASKA CO SPORTS COMPLEX	KALKASKA MI	700,000	GAS	\$ 113	1,193.5
27 MERIT ENERGY CO	KALKASKA MI	630,000	GAS	\$ 52	2,352.2
28 RAPID CITY SCHOOL	RAPID CITY MI	1,738,000	GAS	\$ 22	14,113.9

APPENDIX B COUNTY SUMMARIES

KENT

BTU			FUEL TYPE	
<750,000	3200		GAS (Natural Gas)	5171
750,001-2,500,000	1279		PROPANE	0
2,500,001-5,000,000	179		OIL	24
5,000,001-15,000,000	189		WOOD	2
15,000,001-25,000,000	33		ELECTRIC	50
>25,000,001	30		COAL	8
N/A	349		OTHER	4
TOTAL	5259		TOTAL	5259
AGE			BOILER USE	
2000-present	1192		Hot Water Heat	3784
1980-1999	2975		Hot Water Supply	710
1960-1979	968		Steam Heating	397
1945-1959	103		Power	243
older than 1945	21		Process Steam	119
N/A	0		Other	6
TOTAL	5259		TOTAL	5259
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	122
1-5 Years	0		Potential Wood Use	259,010
6-10 years	22		(Projects <20 yrs payback)	
11-15 years	74			
16-20 years	97			
Greater than 21 years	5066			
TOTAL	5259			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 STEELCASE ENERGY CTR	GRAND RAPIDS MI	46,300,000	GAS	\$ 319,470	6.1
2 CRYSTAL FLASH	GRAND RAPIDS MI	15,000,000	OIL	\$ 220,380	6.5
3 ASHLEY DESK	GRAND RAPIDS MI	40,000,000	GAS	\$ 275,320	6.5
4 ASHLEY DESK	GRAND RAPIDS MI	40,000,000	GAS	\$ 275,320	6.5
5 PAULSTRA	GRAND RAPIDS MI	36,000,000	GAS	\$ 247,288	6.8
6 FISHER BODY DIVISION PLT 1	GRAND RAPIDS MI	55,000,000	GAS	\$ 375,440	7.0
7 FISHER BODY DIVISION PLANT 1	GRAND RAPIDS MI	55,000,000	GAS	\$ 375,440	7.0
8 GENERAL MOTORS CORPORATION	GRAND RAPIDS MI	55,000,000	GAS	\$ 375,440	7.0
9 ALTICOR INCORPORATED	ADA MI	33,480,000	GAS	\$ 229,628	7.0
10 SPECTRUM HEALTH-BUTTERWORTH CA	GRAND RAPIDS MI	32,000,000	GAS	\$ 219,256	7.2
11 GLASS CORNER GREENHOUSES	COMSTOCK PARK MI	30,000,000	GAS	\$ 205,240	7.3
12 DELPHI AUTOMOTIVE	WYOMING MI	70,356,000	GAS	\$ 483,055	8.0
13 PAULSTRA CRC	GRAND RAPIDS MI	28,305,000	GAS	\$ 195,361	8.9
14 DELPHI AUTOMOTIVE SYSTEM	WYOMING MI	87,300,000	GAS	\$ 601,798	9.2
15 MODEL COVERALL INC	GRAND RAPIDS MI	26,986,000	GAS	\$ 186,118	9.4
16 HUNDERMAN & SONS	GRAND RAPIDS MI	6,275,000	OIL	\$ 91,447	9.5
17 WOLVERINE WORLD WIDE INCORPORATED	ROCKFORD MI	26,800,000	GAS	\$ 184,814	9.5
18 SIEMENS DEMATIC	GRAND RAPIDS MI	6,100,000	OIL	\$ 88,841	9.6
19 SIEMENS DEMATIC	GRAND RAPIDS MI	6,100,000	OIL	\$ 88,841	9.6
20 DEMATIC	GRAND RAPIDS MI	6,100,000	OIL	\$ 88,841	9.6
21 DEMATIC	GRAND RAPIDS MI	6,100,000	OIL	\$ 88,841	9.6
22 AMWAY CORP BLDG 67	ADA MI	98,000,000	GAS	\$ 676,784	10.0
23 GRCC ATTN: FACILITIES	GRAND RAPIDS MI	25,200,000	GAS	\$ 173,602	10.1
24 GRCC FAC DEPT	GRAND RAPIDS MI	25,150,000	GAS	\$ 173,251	10.1
25 NEAL MAST & SON	GRAND RAPIDS MI	25,106,000	GAS	\$ 172,943	10.1
26 AQUINAS COLLEGE	GRAND RAPIDS MI	25,106,000	GAS	\$ 172,943	10.1
27 STEELCASE ENERGY CTR	KENTWOOD MI	102,320,000	GAS	\$ 707,059	10.3
28 STEELCASE WOOD	CALEDONIA MI	24,493,900	GAS	\$ 168,653	10.4
29 STEELCASE WOOD	CALEDONIA MI	24,493,900	GAS	\$ 168,653	10.4
30 HIGH GRADE MATERIALS	GRAND RAPIDS MI	4,200,000	OIL	\$ 61,046	10.9
31 HUGHART YARD	GRAND RAPIDS MI	4,000,000	OIL	\$ 58,068	11.0
32 HEKMAN FURNITURE COMPANY	GRAND RAPIDS MI	22,000,000	GAS	\$ 151,176	11.3
33 ALTICOR INCORPORATION	ADA MI	20,922,000	GAS	\$ 143,621	11.7
34 FARMLAND DAIRIES	GRAND RAPIDS MI	20,922,000	GAS	\$ 143,621	11.7
35 NEAL MAST AND SONS GREEHOUSE	GRAND RAPIDS MI	20,922,000	GAS	\$ 143,621	11.7
36 ALTICOR INCORPORATED	ADA MI	20,922,000	GAS	\$ 143,621	11.7
37 ALTICOR INCORPORATED	ADA MI	20,922,000	GAS	\$ 143,621	11.7
38 ADVANCE PACKAGING	KENTWOOD MI	20,920,000	GAS	\$ 143,607	11.7
39 PACKAGING CORP OF AM	GRANDVILLE MI	20,414,000	GAS	\$ 140,061	11.9
40 KENT COMMUNITY HOSPITAL	GRAND RAPIDS MI	20,256,000	GAS	\$ 138,954	11.9
41 KENT COMMUNITY HOSPITAL	GRAND RAPIDS MI	20,136,000	GAS	\$ 138,113	12.0
42 KOHLER CO/BAKER FURNITURE	GRAND RAPIDS MI	20,032,000	GAS	\$ 137,384	12.0
43 ALPINIST ENDEAVORS LLC	GRAND RAPIDS MI	20,000,000	GAS	\$ 137,160	12.0
44 BISSELL INC	GRAND RAPIDS MI	20,000,000	GAS	\$ 137,160	12.0
45 WEST MICHIGAN SHARED HOSPITAL LA	WALKER MI	19,500,000	GAS	\$ 133,656	12.2
46 W MICH SHARED HOSP LDY	WALKER MI	19,500,000	GAS	\$ 133,656	12.2
47 ALPINIST ENDEAVORS LLC	GRAND RAPIDS MI	19,000,000	GAS	\$ 130,152	12.4

APPENDIX B COUNTY SUMMARIES

KENT

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 ALPINIST ENDEAVORS LLC	GRAND RAPIDS MI	19,000,000	GAS	\$ 130,152	12.4
49 MODEL COVERALL SERVICE	GRAND RAPIDS MI	18,200,000	GAS	\$ 124,546	12.7
50 COOKS COMPOSITES	GRAND RAPIDS MI	17,500,000	GAS	\$ 119,640	13.0
51 DISPLAY PACK	GRAND RAPIDS MI	17,250,000	GAS	\$ 117,888	13.1
52 LIGHT METALS CORP	WYOMING MI	17,250,000	GAS	\$ 117,888	13.1
53 MINACT	GRAND RAPIDS MI	16,800,000	GAS	\$ 114,734	13.3
54 MINACT INCORPORATED	GRAND RAPIDS MI	16,800,000	GAS	\$ 114,734	13.3
55 HENRY MAST GREENHOUSES	BYRON CENTER, MI	16,740,000	GAS	\$ 114,314	13.3
56 RIVERVIEW CENTER	GRAND RAPIDS MI	16,740,000	GAS	\$ 114,314	13.3
57 KNOLL INCORPORATED	GRAND RAPIDS MI	16,737,000	GAS	\$ 114,293	13.3
58 OLD ORCHARD BRANDS	SPARTA MI	16,300,000	GAS	\$ 111,230	13.4
59 AAMERICAN SEATING	GRAND RAPIDS MI	16,000,000	GAS	\$ 109,128	13.6
60 COOKS COMPOSITES	GRAND RAPIDS MI	15,500,000	GAS	\$ 105,624	13.8
61 COCA COLA BOTTLING COMPANY OF MI	GRAND RAPIDS MI	578,000	ELECTRIC	\$ 8,108	13.8
62 BLOGETT HOSPITAL	GRAND RAPIDS MI	15,092,000	GAS	\$ 102,765	13.9
63 BLOGETT HOSPITAL	GRAND RAPIDS MI	15,092,000	GAS	\$ 102,765	13.9
64 BLODGETT HOSPITAL	GRAND RAPIDS MI	15,000,000	GAS	\$ 102,120	14.0
65 BLODGETT HOSPITAL	GRAND RAPIDS MI	15,000,000	GAS	\$ 102,120	14.0
66 COVANTA ENERGY	GRAND RAPIDS MI	525,000	ELECTRIC	\$ 7,318	14.0
67 G R C C MAIN BLDG	GRAND RAPIDS MI	14,646,000	GAS	\$ 99,639	14.1
68 FRANKLIN PARTNERS LLC	KENTWOOD MI	14,645,000	GAS	\$ 99,632	14.1
69 FARMLAND DAIRIES LLC	WYOMING MI	14,645,000	GAS	\$ 99,632	14.1
70 ALTICOR INCORPORATION	ADA MI	14,645,000	GAS	\$ 99,632	14.1
71 ALTICOR INCORPORATION	ADA MI	14,645,000	GAS	\$ 99,632	14.1
72 SPECTRUM CUBIC	GRAND RAPIDS MI	14,645,000	GAS	\$ 99,632	14.1
73 BELL FIBRE PRODUCTS CORPORATION	WYOMING MI	14,645,000	GAS	\$ 99,632	14.1
74 KNOLLCREST CAMPUS PR PLT	GRAND RAPIDS MI	14,196,000	GAS	\$ 96,486	14.3
75 KNOLLCREST CAMPUS PR PLT	GRAND RAPIDS MI	14,196,000	GAS	\$ 96,486	14.3
76 EAST PARIS SURGICAL	GRAND RAPIDS MI	420,000	ELECTRIC	\$ 5,755	14.3
77 MACDONALD PLASTICS	GRAND RAPIDS MI	13,400,000	GAS	\$ 90,907	14.6
78 STEEL CASE CDC	CALEDONIA MI	307,080	ELECTRIC	\$ 4,073	14.8
79 SEWAGE TREATMENT PLANT	GRANDVILLE MI	12,600,000	GAS	\$ 85,301	14.9
80 GRANDVILLE HIGH SCHOOL	GRANDVILLE MI	12,600,000	GAS	\$ 85,301	14.9
81 GRANDVILLE HIGH SCHOOL	GRANDVILLE MI	12,600,000	GAS	\$ 85,301	14.9
82 KEEBLER COMPANY	GRAND RAPIDS MI	12,555,000	GAS	\$ 84,985	14.9
83 METO KOTE	GRAND RAPIDS MI	12,555,000	GAS	\$ 84,985	14.9
84 EAST KENTWOOD HIGH SCHOOL	KENTWOOD MI	12,554,000	GAS	\$ 84,978	14.9
85 KENTWOOD HIGH SCHOOL	KENTWOOD MI	12,554,000	GAS	\$ 84,978	14.9
86 KENTWOOD HIGH SCHOOL	KENTWOOD MI	12,554,000	GAS	\$ 84,978	14.9
87 HENRY MAST GREENHOUSES	BYRON CENTER MI	12,553,000	GAS	\$ 84,971	14.9
88 THE KEEBLER COMPANY	GRAND RAPIDS MI	12,553,000	GAS	\$ 84,971	14.9
89 METROPOLITAN HEALTH CORP	GRAND RAPIDS MI	12,553,000	GAS	\$ 84,971	14.9
90 METROPOLITAN HEALTH CORPORATION	GRAND RAPIDS MI	12,553,000	GAS	\$ 84,971	14.9
91 KNAPE & VOGT MFG CO	GRAND RAPIDS MI	12,500,000	GAS	\$ 84,600	15.0
92 KNAPE VOGT MFG CO	GRAND RAPIDS MI	12,500,000	GAS	\$ 84,600	15.0
93 MICHIGAN VETERANS FACILITY	GRAND RAPIDS MI	12,500,000	GAS	\$ 84,600	15.0
94 GREIF INC	KENTWOOD MI	12,500,000	GAS	\$ 84,600	15.0
95 KNAPE & VOGT MFG CO	GRAND RAPIDS MI	12,500,000	GAS	\$ 84,600	15.0
96 GREIF INC	KENTWOOD MI	12,500,000	GAS	\$ 84,600	15.0
97 VALLEY CITY LINEN	GRAND RAPIDS MI	12,354,000	GAS	\$ 83,577	15.0
98 KENT COUNTRY CLUB	GRAND RAPIDS MI	12,000,000	GAS	\$ 81,096	15.2
99 NEAL MAST & SON INC	GRAND RAPIDS MI	12,000,000	GAS	\$ 81,096	15.2
100 OTTAWA HILLS HIGH SCH	GRAND RAPIDS MI	12,000,000	GAS	\$ 81,096	15.2
101 CAMPAU PARKING FACILITY	GRAND RAPIDS MI	263,000	ELECTRIC	\$ 3,417	15.2
102 ADVANCE PACKAGING CORPORATION	GRAND RAPIDS MI	11,550,000	GAS	\$ 77,942	15.4
103 UNION HIGH SCHOOL	GRAND RAPIDS MI	11,000,000	GAS	\$ 74,088	15.6
104 UNION HIGH SCHOOL	GRAND RAPIDS MI	11,000,000	GAS	\$ 74,088	15.6
105 UNION HIGH SCHOOL	GRAND RAPIDS MI	11,000,000	GAS	\$ 74,088	15.6
106 BEHR INDUSTRIES	COMSTOCK PARK MI	10,500,000	GAS	\$ 70,584	15.8
107 KENT CO SHERIFF DEPT	GRAND RAPIDS MI	10,500,000	GAS	\$ 70,584	15.8
108 KENT CO SHERIFF DEPT	GRAND RAPIDS MI	10,500,000	GAS	\$ 70,584	15.8
109 BEHR INDUSTRIES	COMSTOCK PARK MI	10,500,000	GAS	\$ 70,584	15.8
110 AQUINAS COLLEGE	GRAND RAPIDS MI	10,500,000	GAS	\$ 70,584	15.8
111 KUYPER COLLEGE	GRAND RAPIDS MI	210,000	ELECTRIC	\$ 2,627	15.8
112 KENT COUNTY LAB	GRAND RAPIDS MI	210,000	ELECTRIC	\$ 2,627	15.8
113 MICHIGAN VETERAN FACT	GRAND RAPIDS MI	10,462,000	GAS	\$ 70,318	15.8
114 GRAND RAPIDS PRESS	GRAND RAPIDS MI	10,461,000	GAS	\$ 70,311	15.8
115 ADVANCE PUBLICATIONS GRAND RAPID	GRAND RAPIDS MI	10,461,000	GAS	\$ 70,311	15.8
116 COOK DEVOS CENTER	GRAND RAPIDS MI	10,461,000	GAS	\$ 70,311	15.8
117 COOK DEVOS CENTER	GRAND RAPIDS MI	10,461,000	GAS	\$ 70,311	15.8

APPENDIX B COUNTY SUMMARIES

KENT

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
118 VANBOVEN GREENHOUSE	KALAMAZOO MI	10,461,000	GAS	\$ 70,311	15.8
119 FARMLAND DAIRIES LLC	WYOMING MI	10,461,000	GAS	\$ 70,311	15.8
120 VALLEY CITY PLATING CO	WYOMING MI	10,461,000	GAS	\$ 70,311	15.8
121 KENT COUNTY SHERIFF DEPARTMENT	GRAND RAPIDS MI	10,460,000	GAS	\$ 70,304	15.8
122 COCA COLA BOTTLING CO	GRAND RAPIDS MI	10,350,000	GAS	\$ 69,533	15.9
123 COCA COLA BOTTLING CO	GRAND RAPIDS MI	10,350,000	GAS	\$ 69,533	15.9
124 COUNTY OF KENT	GRAND RAPIDS MI	182,000,000	GAS	\$ 1,265,456	16.0
125 GODWIN HGHTS MIDDLE SCH	GRAND RAPIDS MI	200,000	ELECTRIC	\$ 2,478	16.0
126 GODWIN HEIGHTS PUB SCH	GRAND RAPIDS MI	200,000	ELECTRIC	\$ 2,478	16.0
127 THE SALVATION ARMY	GRAND RAPIDS MI	10,000,000	GAS	\$ 67,080	16.0
128 CENTRAL HIGH SCHOOL	GRAND RAPIDS MI	10,000,000	GAS	\$ 67,080	16.0
129 IROQUOIS MIDDLE SCHOOL	GRAND RAPIDS MI	10,000,000	GAS	\$ 67,080	16.0
130 IROQUOIS MIDDLE SCHOOL	GRAND RAPIDS MI	10,000,000	GAS	\$ 67,080	16.0
131 HAROLD CHRISTIANS	GRAND RAPIDS MI	10,000,000	GAS	\$ 67,080	16.0
132 GRAND RAPIDS GRAVEL	CALEDONIA MI	9,900,000	GAS	\$ 67,379	16.3
133 CHAMPION HEALTH FITNESS	ROCKFORD MI	168,000	ELECTRIC	\$ 2,002	16.6
134 SENIOR HIGH SCHOOL	GRAND RAPIDS MI	9,500,000	GAS	\$ 64,576	16.7
135 SENIOR HIGH SCHOOL	GRAND RAPIDS MI	9,500,000	GAS	\$ 64,576	16.7
136 GRAND RAPIDS DOMINICANS	GRAND RAPIDS MI	9,500,000	GAS	\$ 64,576	16.7
137 GRAND RIVER INFRASTRUCTURE	WYOMING MI	9,200,000	GAS	\$ 62,474	17.1
138 CEDAR SPRINGAS HIGH SCHOOL	CEDAR SPR MI	9,200,000	GAS	\$ 62,474	17.1
139 CEDAR SPRINGAS HIGH SCH	CEDAR SPRINGAS MI	9,200,000	GAS	\$ 62,474	17.1
140 HARRISON PARK JHS	GRAND RAPIDS MI	9,200,000	GAS	\$ 62,474	17.1
141 HARRISON PARK JHS	GRAND RAPIDS MI	9,200,000	GAS	\$ 62,474	17.1
142 BISSELL INC	GRAND RAPIDS MI	200,000,000	GAS	\$ 1,391,600	17.2
143 G AND K SERVICES	GRAND RAPIDS MI	9,000,000	GAS	\$ 61,072	17.3
144 GODWIN HEIGHTS MIDDLE SCHOOL	GRAND RAPIDS MI	9,000,000	GAS	\$ 61,072	17.3
145 STREET LIGHTING DEPT	GRAND RAPIDS MI	9,000,000	GAS	\$ 61,072	17.3
146 SURGICAL CENTER	GRAND RAPIDS MI	140,000	ELECTRIC	\$ 1,585	17.5
147 SURGICAL CENTER	GRAND RAPIDS MI	140,000	ELECTRIC	\$ 1,585	17.5
148 SURGICAL CENTER	GRAND RAPIDS MI	140,000	ELECTRIC	\$ 1,585	17.5
149 SURGICAL CENTER	GRAND RAPIDS MI	140,000	ELECTRIC	\$ 1,585	17.5
150 LINCOLN SCHOOL COMPLEX	GRAND RAPIDS MI	8,800,000	GAS	\$ 59,670	17.5
151 KNOLLCREST DINING HALL	GRAND RAPIDS MI	8,728,000	GAS	\$ 59,166	17.6
152 NEW CAMPUS CAFE BLDG	GRAND RAPIDS MI	8,728,000	GAS	\$ 59,166	17.6
153 HARLO PRODUCTS	GRANDVILLE MI	8,400,000	GAS	\$ 56,867	18.0
154 TEAM INDUSTRIES INC	KENTWOOD MI	8,400,000	GAS	\$ 56,867	18.0
155 BURTON SCHOOL	GRAND RAPIDS MI	8,400,000	GAS	\$ 56,867	18.0
156 BURTON SCHOOL	GRAND RAPIDS MI	8,400,000	GAS	\$ 56,867	18.0
157 BPS BUILDING INVESTORS	GRAND RAPIDS MI	8,400,000	GAS	\$ 56,867	18.0
158 SPARTA HIGH SCHOOL	SPARTA MI	8,400,000	GAS	\$ 56,867	18.0
159 EAST GRAND RAPIDS HIGH SCHOOL	E.GRAND RAPIDS MI	8,375,000	GAS	\$ 56,692	18.1
160 SPECTRUM CUBIC	GRAND RAPIDS MI	8,375,000	GAS	\$ 56,692	18.1
161 EAST GRAND RAPIDS HIGH SCHOOL	GRAND RAPIDS MI	8,375,000	GAS	\$ 56,692	18.1
162 PENINSULAR PLATING	GRAND RAPIDS MI	8,370,000	GAS	\$ 56,657	18.1
163 PENINSULAR PLATING	GRAND RAPIDS MI	8,370,000	GAS	\$ 56,657	18.1
164 WOLVERINE WORLD WIDE INC	ROCKFORD MI	8,370,000	GAS	\$ 56,657	18.1
165 SPECTRUM AND WEALTHY	GRAND RAPIDS MI	8,370,000	GAS	\$ 56,657	18.1
166 FREDERIK MEIJER GARDENS	GRAND RAPIDS MI	8,370,000	GAS	\$ 56,657	18.1
167 FREDRICK MEIJER GARDENS	GRAND RAPIDS MI	8,370,000	GAS	\$ 56,657	18.1
168 NEAL MAST & SON INC	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
169 NEAL MAST & SON INC	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
170 GLASS CORNER GREENHOUSES INC	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
171 GLASS CORNER GREENHOUSES	WALKER MI	8,369,000	GAS	\$ 56,650	18.1
172 FALCON MANUFACTURING	BYRON CENTER MI	8,369,000	GAS	\$ 56,650	18.1
173 KENT COUNTY ROAD COMMISSION	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
174 PLASTIC PLATE MONROE	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
175 NORTHEAST JR HIGH SCHOOL	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
176 NORTHEAST JR HIGH SCHOOL	GRAND RAPIDS MI	8,369,000	GAS	\$ 56,650	18.1
177 MOLESTA FLORAL COMPANY	WYOMING MI	8,220,000	GAS	\$ 55,606	18.2
178 HAMILTON LUMBER & VENEER	DUTTON MI	8,000,000	GAS	\$ 54,064	18.5
179 FIFTH THIRD BANK	KENTWOOD MI	8,000,000	GAS	\$ 54,064	18.5
180 SHELDON CLEANERS	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
181 SHELDON CLEANERS	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
182 SARA LEE BAKERY GROUP	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
183 LINCOLN SCHOOL COMPLEX	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
184 CENTRAL HIGH SCHOOL	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
185 CRESTON HIGH SCHOOL	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
186 CRESTON HIGH SCHOOL	GRAND RAPIDS MI	8,000,000	GAS	\$ 54,064	18.5
187 SPECTRUM HEALTH	GRAND RAPIDS MI	105,000	ELECTRIC	\$ 1,064	19.6
188 LACKS PAINT EAST FAC	KENTWOOD MI	105,000	ELECTRIC	\$ 1,064	19.6
189 CINTAS CORP	GRAND RAPIDS MI	7,000,000	GAS	\$ 47,056	19.7
190 RIVERSIDE JR HIGH SCHOOL	GRAND RAPIDS MI	7,000,000	GAS	\$ 47,056	19.7
191 PILGRIM MANOR INC	GRAND RAPIDS MI	6,900,000	GAS	\$ 46,355	19.8
192 HUIZENGA BROTHERS GREENHOUSE	GRAND RAPIDS MI	6,800,000	GAS	\$ 45,654	20.0
193 ANDY MAST GREENHOUSES	GRAND RAPIDS MI	6,800,000	GAS	\$ 45,654	20.0

APPENDIX B COUNTY SUMMARIES

KEWEENAW

BTU			FUEL TYPE	
<750,000	39		GAS (Natural Gas)	23
750,001-2,500,000	1		PROPANE	0
2,500,001-5,000,000	0		OIL	18
5,000,001-15,000,000	0		WOOD	0
15,000,001-25,000,000	0		ELECTRIC	0
>25,000,001	0		COAL	0
N/A	1		OTHER	0
TOTAL	41		TOTAL	41
AGE			BOILER USE	
2000-present	8		Hot Water Heat	37
1980-1999	28		Hot Water Supply	1
1960-1979	5		Steam Heating	3
1945-1959	0		Power	0
older than 1945	0		Process Steam	0
N/A	0		Other	0
TOTAL	41		TOTAL	41
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	-
1-5 Years	0		Potential Wood Use	-
6-10 years	0		(Projects <20 yrs payback)	
11-15 years	0			
16-20 years	0			
Greater than 21 years	41			
TOTAL	41			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual	
				Savings	Payback
1 MOHAWK ELEM SCHOOL	MOHAWK MI	404,000	OIL	\$ 3,039	26.1
2 MOHAWK ELEMENTARY SCHOOL	MOHAWK MI	404,000	OIL	\$ 3,039	26.1
3 SOCIETY OF ST JOHN	EAGLE HARBOR MI	400,000	OIL	\$ 3,004	26.1
4 KEWEENAW CO JAIL	EAGLE RIVER MI	400,000	OIL	\$ 3,004	26.1
5 KEWEENAW COUNTY COURTHOUSE	EAGLE RIVER MI	360,000	OIL	\$ 2,654	26.6
6 ALLOUEZ TOWNSHIP OFFICE	MOHAWK MI	312,000	OIL	\$ 2,233	27.5
7 TRUE NORTH GALLERY	AHMEEK MI	275,000	OIL	\$ 1,909	28.4
8 SAND HILLS LIGHTHOUSE	AHMEEK MI	255,000	OIL	\$ 1,734	29.0
9 VANSVILLE BAR	MOHAWK MI	245,000	OIL	\$ 1,646	29.4
10 AHMEEK COMMUNITY BLDG	AHMEEK MI	230,000	OIL	\$ 1,515	30.0
11 MOHAWK SUPERETTE	MOHAWK MI	220,000	OIL	\$ 1,427	30.5
12 LASSILA INSURANCE AGENCY	AHMEEK MI	165,000	OIL	\$ 945	34.6
13 AHMEEK STREETCAR STATION	AHMEEK MI	150,000	OIL	\$ 814	36.6
14 SUPERIOR NATIONAL BANK	MOHAWK MI	150,000	OIL	\$ 814	36.6
15 SLIM'S CAFE	MOHAWK MI	145,000	OIL	\$ 770	37.4
16 OUR LADY OF PEACH CHURCH	AHMEEK MI	115,000	OIL	\$ 507	45.1
17 OUR LADY OF PEACH CHURCH	AHMEEK MI	115,000	OIL	\$ 507	45.1
18 JEFFERSON HIGH SCHOOL	MONROE MI	855,000	GAS	\$ 249	657.4

APPENDIX B COUNTY SUMMARIES

LAKE

BTU		FUEL TYPE	
<750,000	55	GAS (Natural Gas)	63
750,001-2,500,000	11	PROPANE	0
2,500,001-5,000,000	0	OIL	4
5,000,001-15,000,000	1	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	0
>25,000,001	0	COAL	0
N/A	0	OTHER	0
TOTAL	67	TOTAL	67
AGE		BOILER USE	
2000-present	12	Hot Water Heat	50
1980-1999	46	Hot Water Supply	12
1960-1979	7	Steam Heating	1
1945-1959	2	Power	3
older than 1945	0	Process Steam	1
N/A	0	Other	0
TOTAL	67	TOTAL	67
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	503
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	0		
Greater than 21 years	66		
TOTAL	67		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BALDWIN HIGH SCH	BALDWIN MI	6,200,000	OIL	\$ 90,330	9.5
2 GRAND OAKS NURSING	BALDWIN MI	540,000	OIL	\$ 4,230	24.8
3 FIELD OFF-BALDWN BOX 641	BALDWIN MI	400,000	OIL	\$ 3,004	26.1
4 CHASE BARTON UN METH CH	CHASE MI	250,000	OIL	\$ 1,690	29.2
5 LAKE COUNTY COURTHOUSE	BALDWIN MI	1,200,000	GAS	\$ 551	409.3
6 UNITED MEHTODIST CHURCH	LUDINGTON MI	1,040,000	GAS	\$ 411	479.7
7 CHURCH OF NEW BEGINNINGS	IDLEWILD MI	1,000,000	GAS	\$ 376	505.3
8 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	990,000	GAS	\$ 367	512.5
9 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	920,000	GAS	\$ 306	573.8
10 BALDWIN BUSINESS CTR	BALDWIN MI	900,000	GAS	\$ 288	596.0
11 LAKE COUNTY FAMILY INDEPENDENCE /	BALDWIN MI	789,000	GAS	\$ 191	792.9
12 LAKE COUNTY FAMILY INDEPENDENCE /	BALDWIN MI	789,000	GAS	\$ 191	792.9
13 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	750,000	GAS	\$ 157	919.6
14 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	750,000	GAS	\$ 157	919.6
15 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	750,000	GAS	\$ 157	919.6
16 MICHIGAN YOUTH CORRECTIONAL FACIL	BALDWIN MI	750,000	GAS	\$ 157	919.6
17 ELEMENTARY SCHOOL	BALDWIN MI	2,070,000	GAS	\$ 313	1,184.6
18 ELEMENTARY SCHOOL	BALDWIN MI	2,070,000	GAS	\$ 313	1,184.6
19 BALDWIN CONGREGATION CH	BALDWIN MI	675,000	GAS	\$ 91	1,428.7
20 GRAND OAKS NURSING	BALDWIN MI	650,000	GAS	\$ 69	1,812.3
21 KAHLIL APARTMENTS	BALDWIN MI	600,000	GAS	\$ 26	4,546.9
22 KAHLIL APARTMENTS	BALDWIN MI	600,000	GAS	\$ 26	4,546.9

APPENDIX B COUNTY SUMMARIES

LAPEER

BTU			FUEL TYPE	
<750,000	278		GAS (Natural Gas)	415
750,001-2,500,000	94		PROPANE	1
2,500,001-5,000,000	12		OIL	3
5,000,001-15,000,000	14		WOOD	1
15,000,001-25,000,000	2		ELECTRIC	5
>25,000,001	0		COAL	3
N/A	28		OTHER	0
TOTAL	428		TOTAL	428
AGE			BOILER USE	
2000-present	83		Hot Water Heat	290
1980-1999	252		Hot Water Supply	74
1960-1979	85		Steam Heating	28
1945-1959	5		Power	27
older than 1945	3		Process Steam	6
N/A	0		Other	3
TOTAL	428		TOTAL	428
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	-
1-5 Years	0		Potential Wood Use	5,040
6-10 years	0		(Projects <20 yrs payback)	
11-15 years	2			
16-20 years	4			
Greater than 21 years	422			
TOTAL	428			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PINNACLE FOODS CORP	IMLAY CITY MI	19,200,000	GAS	\$ 131,554	12.3
2 PINNACLE FOODS CORP	IMLAY CITY MI	19,200,000	GAS	\$ 131,554	12.3
3 HUNTERS CREEK CLUB	METAMORA MI	365,000	PROPANE	\$ 4,296	16.7
4 DACS MOLDING INC	IMLAY CITY MI	8,369,000	GAS	\$ 56,650	18.1
5 THUMB CORRECTIONAL FACILITY	LAPEER MI	7,500,000	GAS	\$ 50,560	19.1
6 THUMB CORRECTIONAL FACILITY	LAPEER MI	7,500,000	GAS	\$ 50,560	19.1
7 VOCATIONAL TECH CENTER	ATTICA MI	6,600,000	GAS	\$ 44,253	20.2
8 LAPEER HIGH SCHOOL EAST	LAPEER MI	6,600,000	GAS	\$ 44,253	20.2
9 LAPEER HIGH SCHOOL EAST	LAPEER MI	6,600,000	GAS	\$ 44,253	20.2
10 ADMINISTRATION	LAPEER MI	5,538,000	GAS	\$ 36,810	21.6
11 ALMONT ELEMENTARY SCHOOL	ALMONT MI	5,500,000	GAS	\$ 36,544	21.6
12 ALMONT ELEM SCHOOL	ALMONT MI	5,500,000	GAS	\$ 36,544	21.6
13 NORTH BRANCH AREA HI SCH	NORTH BRANCH MI	5,500,000	GAS	\$ 36,544	21.6
14 NORTH BRANCH AREA HI SCH	NORTH BRANCH MI	5,500,000	GAS	\$ 36,544	21.6
15 ALMONT JR & SR HIGH SCH	ALMONT MI	5,500,000	GAS	\$ 36,544	21.6
16 ALMONT JR & SR HIGH SCHL	ALMONT MI	5,500,000	GAS	\$ 36,544	21.6
17 T C F BLDG 600/MSI	LAPEER MI	5,155,000	GAS	\$ 34,126	22.1
18 IMLAY CITY MIDDLE SCHOOL	IMLAY CITY MI	5,000,000	GAS	\$ 33,040	22.3
19 IMLAY CITY MIDDLE SCHOOL	IMLAY CITY MI	5,000,000	GAS	\$ 33,040	22.3
20 ZEMMER JR HIGH SCH	LAPEER MI	4,200,000	GAS	\$ 27,934	23.8
21 ZEMMER JR HIGH SCHOOL	LAPEER MI	4,200,000	GAS	\$ 27,934	23.8
22 ILLNOIS TOOL WORKS INCORPORATED	LAPEER MI	4,186,000	GAS	\$ 27,835	23.8
23 DECO PLATE	LAPEER MI	4,184,000	GAS	\$ 27,821	23.8
24 N BRANCH JR HIGH SCH	NORTH BRANCH MI	4,184,000	GAS	\$ 27,821	23.8
25 DAYTON CENTER CHURCH	SILVERWOOD MI	578,000	OIL	\$ 4,563	24.6
26 ALMONT MIDDLE SCHOOL	ALMONT MI	3,000,000	GAS	\$ 19,524	26.1
27 ALMONT MIDDLE SCHOOL	ALMONT MI	3,000,000	GAS	\$ 19,524	26.1
28 IMLAY CITY HIGH SCHOOL	IMLAY CITY MI	3,000,000	GAS	\$ 19,524	26.1
29 IMLAY CITY HIGH SCHOOL	IMLAY CITY MI	3,000,000	GAS	\$ 19,524	26.1
30 COUNTRY GROVE AFC	LAPEER MI	150,000	OIL	\$ 814	36.6
31 PINWOOD MANOR	LAPEER MI	120,000	OIL	\$ 551	43.3
32 LAPEER COUNTY M C F	LAPEER MI	42,000	ELECTRIC	\$ 125	159.4
33 LAPEER COUNTY MCF	LAPEER MI	42,000	ELECTRIC	\$ 125	159.4
34 LAPEER WEST. HIGH SCH	LAPEER MI	1,350,000	GAS	\$ 683	368.8
35 S E TOOLS	LAPEER MI	1,320,000	GAS	\$ 656	375.7

APPENDIX B COUNTY SUMMARIES

LEELANAU

BTU		FUEL TYPE	
<750,000	125	GAS (Natural Gas)	139
750,001-2,500,000	14	PROPANE	0
2,500,001-5,000,000	7	OIL	11
5,000,001-15,000,000	6	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	0	COAL	0
N/A	0	OTHER	0
TOTAL	152	TOTAL	152
AGE		BOILER USE	
2000-present	49	Hot Water Heat	112
1980-1999	84	Hot Water Supply	23
1960-1979	19	Steam Heating	13
1945-1959	0	Power	2
older than 1945	0	Process Steam	2
N/A	0	Other	0
TOTAL	152	TOTAL	152
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	620
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	2		
Greater than 21 years	148		
TOTAL	152		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MUNSON HEALTH CARE	NORTHPORT MI	3,700,000	OIL	\$ 53,600	11.3
2 MUNSON HEALTH CARE	NORTHPORT MI	3,500,000	OIL	\$ 50,622	11.4
3 GLEN LAKE COMM SCHOOLS	MAPLE CITY MI	266,000	ELECTRIC	\$ 3,461	15.2
4 SUTTONS BAY SCHOOLS	SUTTONS BAY MI	180,000	ELECTRIC	\$ 2,181	16.4
5 GLEN LAKE COMMUNITY SCHOOLS	GLEN ARBOR MI	6,280,000	GAS	\$ 42,010	20.6
6 GLEN LAKE COMMUNITY SCHOOLS	MAPLE CITY MI	6,280,000	GAS	\$ 42,010	20.6
7 SUTTONS BAY SCHOOLS	SUTTONS BAY MI	6,277,000	GAS	\$ 41,989	20.6
8 SUTTONS BAY SCHOOLS	SUTTONS BAY MI	6,277,000	GAS	\$ 41,989	20.6
9 SUTTONS BAY HIGH SCHOOL	SUTTONS BAY MI	5,230,000	GAS	\$ 34,652	22.0
10 SUTTONS BAY HIGH SCHOOL	SUTTONS BAY MI	5,230,000	GAS	\$ 34,652	22.0
11 LEELANAU SCHOOLS	GLEN ARBOR MI	1,280,000	OIL	\$ 10,713	22.4
12 IMMANUEL LUTHERAN CHURCH	LELAND MI	1,000,000	OIL	\$ 8,260	23.0
13 LEELANAU COUNTRY INN	MAPLE CITY MI	400,000	OIL	\$ 3,004	26.1
14 LEELANAU CENTER FOR EDUCATION	GLEN ARBOR MI	385,000	OIL	\$ 2,873	26.3
15 ORVALL KELOGG FIRE HALL	NORTHPORT MI	310,000	OIL	\$ 2,216	27.5
16 NORTHERN LEELANAU REAL ESTATE	NORTHPORT MI	250,000	OIL	\$ 1,690	29.2
17 RED BARN SAMPLER	EMPIRE MI	239,000	OIL	\$ 1,594	29.6
18 HARRY CALHOUN	NORTHPORT MI	212,000	OIL	\$ 1,357	30.9
19 LE BEAR	GLEN ARBOR MI	1,222,500	GAS	\$ 571	402.1
20 NORTHPORT SCHOOLS	NORTHPORT MI	2,838,000	GAS	\$ 986	493.9
21 NORTHPORT SCHOOLS	NORTHPORT MI	2,838,000	GAS	\$ 986	493.9
22 MUNSON HEALTH CARE	NORTHPORT MI	2,800,000	GAS	\$ 953	505.5
23 ST MICHAELS CHURCH	SUTTONS BAY MI	972,000	GAS	\$ 351	526.2
24 LE BEAR	GLEN ARBOR MI	961,700	GAS	\$ 342	534.7
25 WEST BAY LAUNDRY	TRAVERSE CITY MI	961,700	GAS	\$ 342	534.7
26 SUTTONS BAY MIDDLE SCHOOL	SUTTONS BAY MI	900,000	GAS	\$ 288	596.0
27 LAKE STATES INS. CO.	TRAVERSE CITY MI	2,511,000	GAS	\$ 700	627.7
28 LAKE STATES INS. CO	TRAVERSE CITY MI	2,511,000	GAS	\$ 700	627.7
29 HOWARD ENERGY BLDG	TRAVERSE CITY MI	850,000	GAS	\$ 245	665.5
30 MUNSON HEALTH CARE	NORTHPORT MI	800,000	GAS	\$ 201	764.9
31 ST MARY'S LAKE LEELANAU SCHOOL	LAKE LEELANAU MI	750,000	GAS	\$ 157	919.6
32 ST MARY'S LAKE LEELANAU SCHOOL	LAKE LEELANAU MI	750,000	GAS	\$ 157	919.6
33 LE BEAR	GLEN ARBOR MI	726,000	GAS	\$ 136	1,029.1
34 GLEN ARBOR TWP FIRE DEPT	GLENN ARBOR MI	715,000	GAS	\$ 126	1,091.4
35 LELAND PUBLIC SCHOOLS	LELAND MI	2,000,000	GAS	\$ 252	1,428.6

APPENDIX B COUNTY SUMMARIES

LENAWEE

BTU		FUEL TYPE	
<750,000	547	GAS (Natural Gas)	840
750,001-2,500,000	194	PROPANE	1
2,500,001-5,000,000	40	OIL	8
5,000,001-15,000,000	22	WOOD	7
15,000,001-25,000,000	5	ELECTRIC	11
>25,000,001	2	COAL	5
N/A	62	OTHER	0
TOTAL	872	TOTAL	872
AGE		BOILER USE	
2000-present	117	Hot Water Heat	628
1980-1999	581	Hot Water Supply	111
1960-1979	147	Steam Heating	55
1945-1959	11	Power	51
older than 1945	16	Process Steam	16
N/A	0	Other	11
TOTAL	872	TOTAL	872
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	317
1-5 Years	0	Potential Wood Use	43,798
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	16		
16-20 years	13		
Greater than 21 years	843		
TOTAL	872		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 DAIRY FARMERS OF AMERICA	ADRIAN MI	25,370,000	GAS	\$ 174,793	10.0
2 MERILLAT INDUSTRIES	ADRIAN MI	5,185,000	OIL	\$ 75,215	10.1
3 ADDISON MIDDLE SCHOOL	ADDISON MI	3,250,000	OIL	\$ 46,899	11.6
4 ADDISON MIDDLE SCHOOL	ADDISON MI	3,250,000	OIL	\$ 46,899	11.6
5 TECUMSEH PRODUCTS INC	TECUMSEH MI	21,000,000	GAS	\$ 144,168	11.7
6 SISTERS OF ST DOMINIC	ADRIAN MI	20,922,000	GAS	\$ 143,621	11.7
7 TECUMSEH PRODUCTS CO	TECUMSEH MI	20,922,000	GAS	\$ 143,621	11.7
8 TECUMSEH PRODUCTS CO	TECUMSEH MI	20,922,000	GAS	\$ 143,621	11.7
9 SILBOND CORPORATION	WESTON MI	20,922,000	GAS	\$ 143,621	11.7
10 DIEHL INC	ADRIAN MI	14,675,000	GAS	\$ 99,842	14.1
11 WACKER CHEMICAL CORPORATION	ADRIAN MI	14,645,000	GAS	\$ 99,632	14.1
12 DELPHI AUTOMOTIVE	ADRIAN MI	14,296,000	GAS	\$ 97,186	14.2
13 DELPHI AUTOMOTIVE	ADRIAN MI	14,296,000	GAS	\$ 97,186	14.2
14 DELPHI AUTOMOTIVE	ADRIAN MI	14,295,000	GAS	\$ 97,179	14.2
15 ORCHARD TERRACE APTS	TECUMSEH MI	13,570,000	GAS	\$ 92,099	14.5
16 LENAWEЕ MEDICAL CARE FAC	ADRIAN MI	12,500,000	GAS	\$ 84,600	15.0
17 ST PAUL LUTHERAN CHURCH	BLISSFIELD MI	11,900,000	GAS	\$ 80,395	15.2
18 LENAWEЕ MEDICAL CARE FAC	ADRIAN MI	10,461,000	GAS	\$ 70,311	15.8
19 WACKER CHEMICAL CORPORATION	ADRIAN MI	10,460,000	GAS	\$ 70,304	15.8
20 ONSTED ELEM SCHOOL	ONSTED MI	168,000	ELECTRIC	\$ 2,002	16.6
21 SILBOND CORPORATION	WESTON MI	9,000,000	GAS	\$ 61,072	17.3
22 SILBOND CORP	WESTON MI	9,000,000	GAS	\$ 61,072	17.3
23 HARDWOODS OF MICHIGAN	CLINTON MI	207,000,000	GAS	\$ 1,440,656	17.7
24 DAIRY FARMERS OF AMERICA	ADRIAN MI	8,370,000	GAS	\$ 56,657	18.1
25 HERRICK MEMORIAL HOSP	TECUMSEH MI	8,369,000	GAS	\$ 56,650	18.1
26 HERRICK MEMORIAL HOSPITAL	TECUMSEH MI	8,369,000	GAS	\$ 56,650	18.1
27 TECUMSEH HIGH SCHOOL	TECUMSEH MI	8,369,000	GAS	\$ 56,650	18.1
28 TECUMSEH HIGH SCHOOL	TECUMSEH MI	8,369,000	GAS	\$ 56,650	18.1
29 BLISSFIELD ELEM SCHOOL	BLISSFIELD MI	124,000	ELECTRIC	\$ 1,347	18.3
30 BOYSVILLE OF MICHIGAN	CLINTON MI	6,277,000	GAS	\$ 41,989	20.6
31 SAND CREEK HIGH SCHOOL	SAND CREEK MI	2,910,000	OIL	\$ 23,992	20.7
32 JC PENNEY COMPANY	ADRIAN MI	5,780,000	GAS	\$ 38,506	21.3
33 ADRIAN WASTE WATER PLANT	ADRIAN MI	5,440,000	GAS	\$ 36,124	21.7
34 VILLAGE COIN LAUNDRY	ADDISON MI	5,115,000	GAS	\$ 33,846	22.2
35 GUS HARRISON CORR FACILITY	ADRIAN MI	5,000,000	GAS	\$ 33,040	22.3

APPENDIX B COUNTY SUMMARIES

LIVINGSTON

BTU		FUEL TYPE	
<750,000	296	GAS (Natural Gas)	513
750,001-2,500,000	124	PROPANE	0
2,500,001-5,000,000	31	OIL	8
5,000,001-15,000,000	28	WOOD	7
15,000,001-25,000,000	1	ELECTRIC	10
>25,000,001	2	COAL	2
N/A	58	OTHER	0
TOTAL	540	TOTAL	540

AGE		BOILER USE	
2000-present	130	Hot Water Heat	358
1980-1999	312	Hot Water Supply	100
1960-1979	80	Steam Heating	23
1945-1959	9	Power	42
older than 1945	9	Process Steam	11
N/A	0	Other	6
TOTAL	540	TOTAL	540

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	351
1-5 Years	0	Potential Wood Use	17,716
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	15		
Greater than 21 years	519		
TOTAL	540		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 WJ MAXEY TRAINING SCHOOL	WHITMORE LAKE MI	29,291,000	GAS	\$ 202,271	8.6
2 WJ MAXEY TRAINING SCHOOL	WHITMORE LAKE MI	29,291,000	GAS	\$ 202,271	8.6
3 VILLAGE ELEMENTARY	HARTLAND MI	4,310,000	OIL	\$ 62,685	10.8
4 VILLAGE ELEMENTARY	HARTLAND MI	4,310,000	OIL	\$ 62,685	10.8
5 INTERNATIONAL PAPER COMPANY	HOWELL MI	20,922,000	GAS	\$ 143,621	11.7
6 SCRANTON MIDDLE SCHOOL	BRIGHTON MI	300,000	ELECTRIC	\$ 3,968	14.9
7 VCF FILMS INCORPORATED	HOWELL MI	12,075,000	GAS	\$ 81,622	15.1
8 VCF FILMS INCORPORATED	HOWELL MI	12,075,000	GAS	\$ 81,622	15.1
9 VCF FILMS INCORPORATED	HOWELL MI	12,075,000	GAS	\$ 81,622	15.1
10 BRIGHTON HIGH SCHOOL	BRIGHTON MI	150,000	ELECTRIC	\$ 1,734	17.2
11 PINCKNEY HIGH SCHOOL	PINCKNEY MI	9,000,000	GAS	\$ 61,072	17.3
12 PINCKNEY HIGH SCHOOL	PINCKNEY MI	9,000,000	GAS	\$ 61,072	17.3
13 PINCKNEY HIGH SCHOOL	PINCKNEY MI	9,000,000	GAS	\$ 61,072	17.3
14 HAYES LEMMERZ	HOWELL MI	8,400,000	GAS	\$ 56,867	18.0
15 PATHFINDER SCHOOL	PINCKNEY MI	8,370,000	GAS	\$ 56,657	18.1
16 HARTLAND HIGH SCHOOL	HARTLAND MI	8,369,000	GAS	\$ 56,650	18.1
17 HARTLAND HIGH SCHOOL	HARTLAND MI	8,369,000	GAS	\$ 56,650	18.1
18 HOWELL HIGH SCHOOL	HOWELL MI	8,369,000	GAS	\$ 56,650	18.1
19 HOWELL HIGH SCHOOL	HOWELL MI	8,369,000	GAS	\$ 56,650	18.1
20 TRINITY HEALTH ST JOSEPH MERCY	HOWELL MI	8,360,000	GAS	\$ 56,587	18.1
21 HARTLAND HIGH SCHOOL	HARTLAND MI	8,008,000	GAS	\$ 54,120	18.5
22 PEPSI COLA	HOWELL MI	6,300,000	GAS	\$ 42,150	20.6
23 PEPSI COLA	HOWELL MI	6,300,000	GAS	\$ 42,150	20.6
24 THREE FIRES MIDDLE SCHOOL	HOWELL MI	6,300,000	GAS	\$ 42,150	20.6
25 THREE FIRES MIDDLE SCHOOL	HOWELL MI	6,300,000	GAS	\$ 42,150	20.6
26 FRESHMAN CAMPUS	HOWELL MI	6,277,000	GAS	\$ 41,989	20.6
27 HIGHLANDER MIDDLE SCHOOL	HOWELL MI	6,277,000	GAS	\$ 41,989	20.6
28 HIGHLANDER MIDDLE SCHOOL	HOWELL MI	6,277,000	GAS	\$ 41,989	20.6
29 FRESHMAN CAMPUS	HOWELL MI	6,277,000	GAS	\$ 41,989	20.6
30 FARMS MIDDLE SCHOOL	BRIGHTON MI	2,750,000	OIL	\$ 22,590	21.0
31 FARMS MIDDLE SCHOOL	BRIGHTON MI	2,750,000	OIL	\$ 22,590	21.0
32 NAVIGATOR MIDDLE SCHOOL	PINCKNEY MI	5,600,000	GAS	\$ 37,245	21.5
33 NAVIGATOR MIDDLE SCHOOL	PINCKNEY MI	5,600,000	GAS	\$ 37,245	21.5
34 ELECTRIC APPARATUS CO	HOWELL MI	5,250,000	GAS	\$ 34,792	22.0
35 BENT TUBE INC	FOWLERVILLE MI	5,230,000	GAS	\$ 34,652	22.0

APPENDIX B COUNTY SUMMARIES

LUCE

BTU		FUEL TYPE	
<750,000	63	GAS (Natural Gas)	64
750,001-2,500,000	4	PROPANE	0
2,500,001-5,000,000	4	OIL	7
5,000,001-15,000,000	1	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	5
>25,000,001	1	COAL	0
N/A	4	OTHER	0
TOTAL	77	TOTAL	77

AGE		BOILER USE	
2000-present	26	Hot Water Heat	56
1980-1999	28	Hot Water Supply	2
1960-1979	22	Steam Heating	10
1945-1959	1	Power	5
older than 1945	0	Process Steam	4
N/A	0	Other	0
TOTAL	77	TOTAL	77

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	33
1-5 Years	0	Potential Wood Use	3,917
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	2		
Greater than 21 years	73		
TOTAL	77		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 NEWBERRY CORRECTIONAL FACILITY	NEWBERRY MI	33,480,000	GAS	\$ 229,628	7.0
2 NEWBERRY JOY HOSPITAL	NEWBERRY MI	4,185,000	OIL	\$ 60,823	10.9
3 BANKS HARDWOODS INC	NEWBERRY MI	10,461,000	GAS	\$ 70,311	15.8
4 TAHQUAMENON HIGH SCH.	NEWBERRY MI	165,000	ELECTRIC	\$ 1,957	16.7
5 MC MILLAN TWSP COMM BLDG	NEWBERRY MI	1,169,000	OIL	\$ 9,740	22.6
6 CURTIS ELEMENTARY SCHOOL	CURTIS MI	1,021,000	OIL	\$ 8,444	22.9
7 HELEN NEWBERRY JOY HOSP	NEWBERRY MI	4,184,000	GAS	\$ 27,821	23.8
8 LUCE COUNTY ROAD COMM	NEWBERRY MI	3,835,000	GAS	\$ 25,376	24.4
9 HELEN NEWBERRY JOY HOSPITAL	NEWBERRY MI	3,103,000	GAS	\$ 20,246	25.9
10 NEWBERRY ASSISTED LIVING FAC INC	NEWBERRY MI	255,000	OIL	\$ 1,734	29.0
11 NEWBERRY ASSISTED LIVING FAC INC	NEWBERRY MI	255,000	OIL	\$ 1,734	29.0
12 K O A	NEWBERRY MI	242,000	OIL	\$ 1,620	29.5
13 NEWBERRY CORRECTIONAL FAC	NEWBERRY MI	2,080,000	GAS	\$ 322	1,157.3
14 NEWBERRY REDI MIX INC	NEWBERRY MI	2,025,000	GAS	\$ 274	1,328.9
15 LUCE COUNTY HOUSING AUTH	NEWBERRY MI	660,000	GAS	\$ 78	1,633.1
16 ZELLAR'S MOTEL	NEWBERRY MI	600,000	GAS	\$ 26	4,546.9

APPENDIX B COUNTY SUMMARIES

MACKINAC

BTU		FUEL TYPE	
<750,000	119	GAS (Natural Gas)	141
750,001-2,500,000	29	PROPANE	0
2,500,001-5,000,000	6	OIL	7
5,000,001-15,000,000	2	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	13
>25,000,001	0	COAL	0
N/A	5	OTHER	0
TOTAL	161	TOTAL	161

AGE		BOILER USE	
2000-present	38	Hot Water Heat	142
1980-1999	101	Hot Water Supply	7
1960-1979	19	Steam Heating	6
1945-1959	3	Power	6
older than 1945	0	Process Steam	0
N/A	0	Other	0
TOTAL	161	TOTAL	161

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	1,687
6-10 years	4	(Projects <20 yrs payback)	
11-15 years	7		
16-20 years	2		
Greater than 21 years	148		
TOTAL	161		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GRAND HOTEL	MACKINAC ISLAND	3,780,000	ELECTRIC	\$ 77,971	7.9
2 GRAND HOTEL	MACKINAC ISLAND	3,780,000	ELECTRIC	\$ 77,971	7.9
3 GRAND HOTEL	MACKINAC ISLAND	3,780,000	ELECTRIC	\$ 77,971	7.9
4 MISSION POINT RESORT	MACKINAC ISLAND MI	5,500,000	OIL	\$ 79,906	9.9
5 MACKINAC ISLAND PUB SCHOOLS	MACKINAC MI	789,000	ELECTRIC	\$ 11,250	13.5
6 MACKINAC ISLAND PUB SCHOOLS	MACKINAC MI	789,000	ELECTRIC	\$ 11,250	13.5
7 LILAC TREE HOTEL	MACKINAC ISLAND MI	512,000	ELECTRIC	\$ 7,125	14.0
8 LILAC TREE HOTEL	MACKINAC ISLAND MI	512,000	ELECTRIC	\$ 7,125	14.0
9 ST IGNACE PUBLIC LIBRARY	ST IGNACE MI	372,256	ELECTRIC	\$ 5,044	14.5
10 ST ANNS PARISH #4102	MACKINAW ISLAND MI	336,000	ELECTRIC	\$ 4,504	14.7
11 ST IGNACE PUBLIC LIBRARY	ST IGNACE MI	327,648	ELECTRIC	\$ 4,379	14.7
12 PINE COTTAGE	MACKINAC ISLE MI	206,000	ELECTRIC	\$ 2,568	15.9
13 ALFORDS DRUG STORE	MACKINAC ISLE MI	110,000	ELECTRIC	\$ 1,138	19.2
14 MACKINAC STRAITS HOSP.	ST IGNACE MI	5,313,000	GAS	\$ 35,234	21.9
15 MACKINAC COUNTY JAIL	ST IGNACE MI	1,674,000	OIL	\$ 13,164	23.3
16 TASSIER SUGAR BUSH	CEDARVILLE MI	750,000	OIL	\$ 6,070	23.8
17 ENGADINE CONSOLIDATED SCHOOLS	ENGADINE MI	3,392,000	GAS	\$ 22,271	25.3
18 ENGADINE CONSOLIDATED SCHOOLS	ENGADINE MI	3,392,000	GAS	\$ 22,271	25.3
19 GREAT LAKES GAS TRANSMISSION COM	NAUBINWAY MI	3,392,000	GAS	\$ 22,271	25.3
20 ISLANDS INN MOTEL	CEDARVILLE MI	265,000	OIL	\$ 1,821	28.7
21 NORMANDY MOTEL	ST IGNACE MI	210,000	OIL	\$ 1,340	31.0
22 LASALLE HIGH SCHOOL	ST IGNACE MI	1,386,000	GAS	\$ 714	361.3
23 LASALLE HIGH SCHOOL	ST IGNACE MI	1,386,000	GAS	\$ 714	361.3
24 LASALLE HIGH SCHOOL	ST IGNACE MI	1,386,000	GAS	\$ 714	361.3
25 LASALLE HIGH SCHOOL	ST IGNACE MI	1,386,000	GAS	\$ 714	361.3
26 LASALLE HIGH SCHOOL	ST IGNACE MI	1,350,000	GAS	\$ 683	368.8
27 GREAT LAKES GAS TRANSMISSION	BREVORT MI	1,255,000	GAS	\$ 599	392.5
28 LITTLE BEAR EAST	ST IGNACE MI	1,222,500	GAS	\$ 571	402.1
29 LITTLE BEAR EAST	ST IGNACE MI	1,222,500	GAS	\$ 571	402.1
30 ST IGNACE MIDDLE SCHOOL	ST IGNACE MI	1,125,000	GAS	\$ 486	437.4
31 ST IGNACE MIDDLE SCHOOL	ST IGNACE MI	1,125,000	GAS	\$ 486	437.4
32 ST IGNACE MIDDLE SCHOOL	ST IGNACE MI	1,125,000	GAS	\$ 486	437.4
33 ST IGNACE MIDDLE SCHOOL	ST IGNACE MI	1,125,000	GAS	\$ 486	437.4
34 UNITED METHODIST CHURCH	ST IGNACE MI	1,000,000	GAS	\$ 376	505.3
35 CITY OF ST IGNACE	ST IGNACE MI	910,000	GAS	\$ 297	584.6

APPENDIX B COUNTY SUMMARIES

MACOMB

BTU		FUEL TYPE	
<750,000	1782	GAS (Natural Gas)	3523
750,001-2,500,000	971	PROPANE	0
2,500,001-5,000,000	210	OIL	28
5,000,001-15,000,000	145	WOOD	0
15,000,001-25,000,000	10	ELECTRIC	105
>25,000,001	9	COAL	3
N/A	532	OTHER	0
TOTAL	3659	TOTAL	3659

AGE		BOILER USE	
2000-present	803	Hot Water Heat	2351
1980-1999	1742	Hot Water Supply	741
1960-1979	993	Steam Heating	153
1945-1959	114	Power	310
older than 1945	6	Process Steam	103
N/A	1	Other	1
TOTAL	3659	TOTAL	3659

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	1	Potential Wood Use	142,593
6-10 years	7	(Projects <20 yrs payback)	
11-15 years	36		
16-20 years	79		
Greater than 21 years	3536		
TOTAL	3659		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 GM POWERTRAIN H DENISON	WARREN MI	80,000,000	OIL	\$ 1,181,360	4.1
2 FORD POWERHOUSE	SHELBY TOWNSHIP MI	37,690,000	GAS	\$ 259,132	6.7
3 ST JOSEPH HOSPITAL	CLINTON TWP MI	33,260,000	GAS	\$ 228,086	7.1
4 RDA ENGINEERING -TACOM	WARREN MI	60,000,000	GAS	\$ 410,480	7.3
5 RDA-ENGR-TACOM STM PLNT	WARREN MI	60,000,000	GAS	\$ 410,480	7.3
6 TOM CARUSO CAR WASH	SHELBY TWP MI	9,216,000	OIL	\$ 135,245	7.9
7 FORD MOTOR CO/B ANDREWS	STERLING HTS MI	80,000,000	GAS	\$ 550,640	8.7
8 HENKEL HST	WARREN MI	7,145,000	OIL	\$ 104,403	9.0
9 PASLIN CORP.	WARREN MI	5,234,000	OIL	\$ 75,945	10.0
10 PASLIN CORP	WARREN MI	5,200,000	OIL	\$ 75,438	10.1
11 FORD MOTOR CO EMC BLDG	ROMEO MI	4,200,000	OIL	\$ 61,046	10.9
12 FORD MOTOR CO EMC BLDG	ROMEO MI	4,184,000	OIL	\$ 60,808	10.9
13 DAIMLER CHRYSLER 450 34 00	STERLING HEIGHT MI	115,000,000	GAS	\$ 795,920	11.2
14 TECH CENTER STEAM PLANT	WARREN MI	120,000,000	GAS	\$ 830,960	11.6
15 MACOMB CO COMM COLLEGE	WARREN MI	20,900,000	GAS	\$ 143,467	11.7
16 MACOMB COUNTY COMMUNITY COLLEGE	WARREN MI	20,900,000	GAS	\$ 143,467	11.7
17 MACOMB CNTY COMM COLLEGE	WARREN MI	20,900,000	GAS	\$ 143,467	11.7
18 HORIZON HEALTH BI-COUNTY HOSPITAL	WARREN MI	18,480,000	GAS	\$ 126,508	12.6
19 CHRYSLER MAINTENANCE	CENTERLINE MI	17,250,000	GAS	\$ 117,888	13.1
20 CHRYSLER MAINTENANCE COR	CENTERLINE MI	17,250,000	GAS	\$ 117,888	13.1
21 CHRYSLER MAINTENANCE COR	CENTERLINE MI	17,250,000	GAS	\$ 117,888	13.1
22 MARSHALL FIELDS	STERLING HEIGHTS MI	1,575,000	ELECTRIC	\$ 21,955	13.2
23 ST JOSEPH HOSPITAL	MT CLEMENS MI	16,750,000	GAS	\$ 114,384	13.3
24 RADIANCE MOLD AND ENGR	CHESTERFIELD TWP MI	875,000	ELECTRIC	\$ 12,531	13.4
25 FRASER HIGH SCHOOL	FRASER MI	16,216,000	GAS	\$ 110,642	13.5
26 FRASER HIGH SCHOOL	FRASER MI	16,216,000	GAS	\$ 110,642	13.5
27 SOUTHLAKE HIGH SCHOOL	ST CLAIR SHORES MI	752,400	ELECTRIC	\$ 10,705	13.5
28 ENG BLDG 1-11	WARREN MI	720,000	ELECTRIC	\$ 10,222	13.6
29 ENG BLDG 1-11	WARREN MI	720,000	ELECTRIC	\$ 10,222	13.6
30 LOGAN'S ROADHOUSE	ROSEVILLE MI	613,000	ELECTRIC	\$ 8,629	13.8
31 FORD POWERHOUSE	SHELBY TWP MI	525,000	ELECTRIC	\$ 7,318	14.0
32 EI DUPONT MT CLEMENS PLANT	MT CLEMENS MI	14,646,000	GAS	\$ 99,639	14.1
33 EI DUPONT MT CLEMENS PLT	MT CLEMENS MI	14,646,000	GAS	\$ 99,639	14.1
34 NATIONAL BEVERAGE CORP	WARREN MI	14,645,000	GAS	\$ 99,632	14.1
35 MT CLEMENS GENERAL HOSPITAL	MT CLEMENS MI	357,000	ELECTRIC	\$ 4,816	14.6
36 ST JOHNS MACOMB HOSPITAL	WARREN MI	13,390,000	GAS	\$ 90,837	14.6
37 BON SECOURS PLACE	ST CLAIR SHORES MI	339,000	ELECTRIC	\$ 4,548	14.7
38 MACOMB CORRECTIONAL FACILITY	NEW HAVEN MI	300,000	ELECTRIC	\$ 3,968	14.9
39 DAKOTA HIGH SCHOOL	MACOMB MI	12,600,000	GAS	\$ 85,301	14.9
40 DAKOTA HIGH SCHOOL	MACOMB MI	12,600,000	GAS	\$ 85,301	14.9
41 GENERAL DYNAMICS	STERLING HGHTS MI	12,560,000	GAS	\$ 85,020	14.9
42 GENERAL DYNAMICS	STERLING HGHTS MI	12,560,000	GAS	\$ 85,020	14.9
43 GENERAL MOTORS	WARREN MI	12,555,000	GAS	\$ 84,985	14.9
44 U S MANUFACTURING CORP	WARREN MI	12,553,000	GAS	\$ 84,971	14.9
45 FITZGERALD HIGH SCHOOL	WARREN MI	12,269,000	GAS	\$ 82,981	15.1
46 FITZGERALD HIGH SCHOOL	WARREN MI	12,269,000	GAS	\$ 82,981	15.1
47 STERLING HEIGHTS HS	STERLING HEIGHT MI	266,000	ELECTRIC	\$ 3,461	15.2

APPENDIX B COUNTY SUMMARIES

MACOMB

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 MACOMB COMMUNITY COLLEGE	WARREN MI	266,000	ELECTRIC	\$ 3,461	15.2
49 MACOMB COMMUNITY COLLEGE	WARREN MI	266,000	ELECTRIC	\$ 3,461	15.2
50 EAST DETROIT HIGH SCHOOL	EASTPOINTE MI	12,000,000	GAS	\$ 81,096	15.2
51 EAST DETROIT HIGH SCHOOL	EASTPOINTE MI	12,000,000	GAS	\$ 81,096	15.2
52 BASHA CAR WASH	CLINTON TWP MI	11,247,000	GAS	\$ 75,819	15.5
53 WELDALOY PRODUCTS COMPANY	WARREN MI	10,641,000	GAS	\$ 71,572	15.7
54 MACOMB COUNTY COURTHOUSE	MT CLEMENS MI	10,500,000	GAS	\$ 70,584	15.8
55 MACOMB COUNTY COURTHOUSE	MT CLEMENS MI	10,500,000	GAS	\$ 70,584	15.8
56 EISENHOWER HIGH SCHOOL	SHELBY TWP MI	10,500,000	GAS	\$ 70,584	15.8
57 EISENHOWER HIGH SCHOOL	SHELBY TWP MI	10,500,000	GAS	\$ 70,584	15.8
58 HENRY FORD II HIGH SCHOOL	STERLING HEIGHTS MI	10,500,000	GAS	\$ 70,584	15.8
59 HENRY FORD II HIGH SCHOOL	STERLING HEIGHTS MI	10,500,000	GAS	\$ 70,584	15.8
60 LINCOLN HIGH SCHOOL	WARREN MI	10,500,000	GAS	\$ 70,584	15.8
61 LINCOLN HIGH SCHOOL	WARREN MI	10,500,000	GAS	\$ 70,584	15.8
62 ROMEO SR HIGH SCHOOL	ROMEO MI	10,500,000	GAS	\$ 70,584	15.8
63 ROMEO SR. HIGH SCHOOL	ROMEO MI	10,500,000	GAS	\$ 70,584	15.8
64 LAKESHORE HIGH SCHOOL	ST CLAIR SHORES MI	10,500,000	GAS	\$ 70,584	15.8
65 LAKESHORE HIGH SCHOOL	ST CLAIR SHORES MI	10,500,000	GAS	\$ 70,584	15.8
66 STEVENSON HIGH SCHOOL	STERLING HEIGHTS MI	10,500,000	GAS	\$ 70,584	15.8
67 STEVENSON HIGH SCHOOL	STERLING HEIGHTS MI	10,500,000	GAS	\$ 70,584	15.8
68 ROSEVILLE HIGH SCHOOL	ROSEVILLE MI	10,463,000	GAS	\$ 70,325	15.8
69 ROSEVILLE HIGH SCHOOL	ROSEVILLE MI	10,463,000	GAS	\$ 70,325	15.8
70 CHIPPEWA VALLEY HIGH SCHOOL	CLINTON TWP MI	10,461,000	GAS	\$ 70,311	15.8
71 CHIPPEWA VALLEY HIGH SCHOOL	CLINTON TWP MI	10,461,000	GAS	\$ 70,311	15.8
72 EMISSION FACILITY	STERLING HTS MI	10,461,000	GAS	\$ 70,311	15.8
73 HENKEL HST	WARREN MI	10,461,000	GAS	\$ 70,311	15.8
74 ROBERT TOWER HIGH SCHOOL	WARREN MI	10,461,000	GAS	\$ 70,311	15.8
75 ROBERT TOWER HIGH SCHOOL	WARREN MI	10,461,000	GAS	\$ 70,311	15.8
76 MNP CORP	UTICA MI	10,350,000	GAS	\$ 69,533	15.9
77 DAIMLER CHRYSLER DTE ENERGY	STERLING HEIGHTS MI	10,205,800	GAS	\$ 68,522	15.9
78 DETROIT NEWS NORTH PLANT	STERLING HTS MI	10,043,000	GAS	\$ 67,381	16.0
79 DETROIT NEWS NORTH PLANT	STERLING HTS MI	10,043,000	GAS	\$ 67,381	16.0
80 DAIMLER CHRYSLER	STERLING HEIGHTS MI	9,965,000	GAS	\$ 67,835	16.2
81 DAIMLER CHRYSLER 459-10-00	STERLING HEIGHTS MI	9,965,000	GAS	\$ 67,835	16.2
82 HENRY FORD BI COUNTY HOSPITAL	WARREN MI	188,400,000	GAS	\$ 1,310,307	16.4
83 CITY OF MT CLEMENS	MT CLEMENS MI	9,617,000	GAS	\$ 65,396	16.6
84 ANCHOR BAY MID SCH SOUTH	NEW BALTIMORE MI	9,000,000	GAS	\$ 61,072	17.3
85 ANCHOR BAY MID SCH SOUTH	NEW BALTIMORE MI	9,000,000	GAS	\$ 61,072	17.3
86 DE LA SALLE COLLEGIATE	WARREN MI	9,000,000	GAS	\$ 61,072	17.3
87 DE LA SALLE COLLEGIATE	WARREN MI	9,000,000	GAS	\$ 61,072	17.3
88 ASE	WARREN MI	8,715,000	GAS	\$ 59,075	17.6
89 ROSEVILLE JR HS	ROSEVILLE MI	8,400,000	GAS	\$ 56,867	18.0
90 ROSEVILLE JR HS	ROSEVILLE MI	8,400,000	GAS	\$ 56,867	18.0
91 MACOMB COUNTY COMMUNITY COLLEGE	WARREN MI	8,400,000	GAS	\$ 56,867	18.0
92 CURTIS METAL FINISHING COMPANY	STERLING HEIGHTS MI	8,370,000	GAS	\$ 56,657	18.1
93 STERLING HEIGHTS HS	STERLING HTS MI	8,369,000	GAS	\$ 56,650	18.1
94 MACOMB COUNTY COMMUNITY COLLEGE	WARREN MI	8,360,000	GAS	\$ 56,587	18.1
95 LAKESIDE BUILDING PRODUCTS INCORP	MT CLEMENS MI	8,300,000	GAS	\$ 56,166	18.1
96 CLINTONDALE HIGH SCHOOL	CLINTON TWP MI	8,300,000	GAS	\$ 56,166	18.1
97 CLINTONDALE HIGH SCHOOL	CLINTON TWP MI	8,300,000	GAS	\$ 56,166	18.1
98 RICHMOND MIDDLE SCHOOL	RICHMOND MI	8,289,000	GAS	\$ 56,089	18.2
99 CURTIS METAL FINISHING COMPANY	STERLING HEIGHTS MI	8,270,000	GAS	\$ 55,956	18.2
100 TOWER HIGH SCHOOL	WARREN MI	126,000	ELECTRIC	\$ 1,376	18.2
101 MACHINING ENTERPRISES	WARREN MI	8,000,000	GAS	\$ 54,064	18.5
102 NAGY READY MIX	SHELBY TWP MI	8,000,000	GAS	\$ 54,064	18.5
103 FORD MOTOR CO/B ANDREWS	STERLING HTS MI	8,000,000	GAS	\$ 54,064	18.5
104 STERLING HTS HIGH SCHOOL	STERLING HTS MI	7,625,000	GAS	\$ 51,436	18.9
105 STERLING HTS HIGH SCHOOL	STERLING HTS MI	7,625,000	GAS	\$ 51,436	18.9
106 GM TECH CTR BLDG 7000	WARREN MI	112,000	ELECTRIC	\$ 1,168	19.1
107 LANSE CREUSE HIGH SCHOOL	HARRISON TWP MI	7,500,000	GAS	\$ 50,560	19.1
108 LANSE CREUSE HIGH SCHL	HARRISON TWP MI	7,500,000	GAS	\$ 50,560	19.1
109 NORTH SENIOR HIGH SCHOOL	MT CLEMENS MI	7,500,000	GAS	\$ 50,560	19.1
110 SOUTH LAKE HIGH SCHOOL	ST CLAIR SHORES MI	109,440	ELECTRIC	\$ 1,130	19.3
111 CRACKER BARREL	ROSEVILLE MI	108,000	ELECTRIC	\$ 1,108	19.4
112 CRACKER BARREL	ROSEVILLE MI	108,000	ELECTRIC	\$ 1,108	19.4
113 CRACKER BARREL	ROSEVILLE MI	108,000	ELECTRIC	\$ 1,108	19.4
114 DEKEYSER ELEMENTARY	STERLING HEIGHTS MI	7,120,000	GAS	\$ 47,897	19.6
115 MACOMB CO COMM COLLEGE	WARREN MI	105,000	ELECTRIC	\$ 1,064	19.6
116 MIDDLE SCHOOL EAST	CHESTERFIELD MI	7,000,000	GAS	\$ 47,056	19.7
117 MIDDLE SCHOOL EAST	CHESTERFIELD MI	7,000,000	GAS	\$ 47,056	19.7
118 MACHINING ENTERPRISES	WARREN MI	6,900,000	GAS	\$ 46,355	19.8
119 KELLY MIDDLE SCHOOL	EASTPOINTE MI	6,900,000	GAS	\$ 46,355	19.8
120 KELLY MIDDLE SCHOOL	EASTPOINTE MI	6,900,000	GAS	\$ 46,355	19.8
121 METALDYNE INC	TROY MI	6,900,000	GAS	\$ 46,355	19.8
122 MACHINING ENTERPRISES	WARREN MI	6,900,000	GAS	\$ 46,355	19.8
123 PASLIN COMPANY	WARREN MI	102,455	ELECTRIC	\$ 1,026	19.9
124 CITY OF WARREN	WARREN MI	6,730,000	GAS	\$ 45,164	20.0

MACOMB

125 CITY OF WARREN	WARREN MI	6,730,000	GAS	\$	45,164	20.0
--------------------	-----------	-----------	-----	----	--------	------

APPENDIX B COUNTY SUMMARIES

MANISTEE

BTU		FUEL TYPE	
<750,000	238	GAS (Natural Gas)	294
750,001-2,500,000	52	PROPANE	0
2,500,001-5,000,000	10	OIL	13
5,000,001-15,000,000	2	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	1
>25,000,001	3	COAL	3
N/A	8	OTHER	0
TOTAL	313	TOTAL	313

AGE		BOILER USE	
2000-present	78	Hot Water Heat	240
1980-1999	189	Hot Water Supply	35
1960-1979	37	Steam Heating	18
1945-1959	6	Power	15
older than 1945	3	Process Steam	5
N/A	0	Other	0
TOTAL	313	TOTAL	313

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	44
1-5 Years	0	Potential Wood Use	19,159
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	3		
Greater than 21 years	307		
TOTAL	313		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MANISTEE COUNTY MEDICAL CARE FAC	MANISTEE MI	4,200,000	OIL	\$ 61,046	10.9
2 ONEKEMA HIGH SCHOOL	ONEKEMA MI	4,184,000	OIL	\$ 60,808	10.9
3 ONEKEMA HIGH SCHOOL	ONEKEMA MI	4,184,000	OIL	\$ 60,808	10.9
4 MANISTEE HIGH SCHOOL	MANISTEE MI	10,205,800	GAS	\$ 68,522	15.9
5 MANISTEE HIGH SCHOOL	MANISTEE MI	10,205,000	GAS	\$ 68,517	15.9
6 PACKAGING CORPORATION OF AMERICA/FILER CITY MI		203,230,000	GAS	\$1,414,236	17.5
7 PACKAGING CORPORATION OF AMERICA/FILER CITY MI		265,280,000	GAS	\$1,849,082	21.9
8 ARCADIA TWP ELEM SCH	ARCADIA MI	1,188,000	OIL	\$ 9,907	22.6
9 PACKAGING CORPORATION OF AMERICA/FILER CITY MI		281,344,000	GAS	\$1,961,659	23.0
10 ST JOSEPH CATHOLIC CHURCH	ONEKAMA MI	840,000	OIL	\$ 6,858	23.5
11 MANISTEE MEDICAL CARE	MANISTEE MI	4,250,000	GAS	\$ 28,284	23.7
12 MANISTEE COUNTY MEDICAL CARE FAC	MANISTEE MI	4,200,000	GAS	\$ 27,934	23.8
13 EDWARDS FUNERAL HOME	BEAR LAKE MI	750,000	OIL	\$ 6,070	23.8
14 MANISTEE MED CARE FACIL	MANISTEE MI	4,000,000	GAS	\$ 26,532	24.1
15 CATHOLIC CENTRAL HIGH SCHOOL	MANISTEE MI	3,750,000	GAS	\$ 24,780	24.6
16 CATHOLIC CENTRAL HIGH SCHOOL	MANISTEE MI	3,750,000	GAS	\$ 24,780	24.6
17 PERCLIN ORCHARDS	BEAR LAKE MI	550,000	OIL	\$ 4,318	24.8
18 MADISON ELEMENTARY SCHOOL	MANISTEE MI	3,570,000	GAS	\$ 23,519	24.9
19 SOMSEL LUMBER CO	KALEVA MI	294,000	OIL	\$ 2,075	27.9
20 NORTH COUNTRY BANK	KALEVA MI	250,000	OIL	\$ 1,690	29.2
21 MANISTEE CH OF CHRIST	MANISTEE MI	250,000	OIL	\$ 1,690	29.2
22 TRAVELERS MOTEL	ONEKAMA MI	225,000	OIL	\$ 1,471	30.2
23 TRAVELERS MOTEL	ONEKAMA MI	225,000	OIL	\$ 1,471	30.2
24 TUTTEN'S LOUNGE	ONEKAMA MI	137,000	OIL	\$ 700	38.9
25 GUARDIAN ANGEL PARISH	MANISTEE MI	1,430,000	GAS	\$ 753	352.8
26 UNITED METHODIST CHURCH	MANISTEE MI	1,430,000	GAS	\$ 753	352.8
27 RAMSDALL THEATER	MANISTEE MI	1,430,000	GAS	\$ 753	352.8
28 MANISTEE JEFFERSON SCHOOL	MANISTEE MI	1,260,000	GAS	\$ 604	391.1
29 TOUCH FREE CAR WASH	MANISTEE MI	1,255,000	GAS	\$ 599	392.5
30 MANISTEE HIGH SCHOOL	MANISTEE MI	1,255,000	GAS	\$ 599	392.5
31 MANISTEE AUTO SPA	MANISTEE MI	1,222,500	GAS	\$ 571	402.1
32 OAKS CORRECTIONAL FACILITY	EAST LAKE MI	1,200,000	GAS	\$ 551	409.3
33 OAKS CORRECTIONAL FACILITY	EAST LAKE MI	1,200,000	GAS	\$ 551	409.3
34 OAKS CORRECTIONAL FACILITY	EAST LAKE MI	1,200,000	GAS	\$ 551	409.3
35 OAKS CORRECTIONAL FACILITY	EAST LAKE MI	1,200,000	GAS	\$ 551	409.3

APPENDIX B COUNTY SUMMARIES

MARQUETTE

BTU		FUEL TYPE	
<750,000	686	GAS (Natural Gas)	954
750,001-2,500,000	156	PROPANE	0
2,500,001-5,000,000	31	OIL	43
5,000,001-15,000,000	15	WOOD	7
15,000,001-25,000,000	4	ELECTRIC	18
>25,000,001	4	COAL	9
N/A	135	OTHER	0
TOTAL	1031	TOTAL	1031
AGE		BOILER USE	
2000-present	227	Hot Water Heat	771
1980-1999	555	Hot Water Supply	77
1960-1979	228	Steam Heating	105
1945-1959	20	Power	52
older than 1945	1	Process Steam	26
N/A	0	Other	0
TOTAL	1031	TOTAL	1031
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	23,025
1-5 Years	0	Potential Wood Use	11,638
6-10 years	3	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	8		
Greater than 21 years	1016		
TOTAL	1031		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 EMPIRE IRON MINING PARTNERSHIP	PALMER MI	19,374,000	OIL	\$ 285,518	5.7
2 EMPIRE IRON MINING PARTNERSHIP	PALMER MI	30,000,000	GAS	\$ 205,240	7.3
3 TIDEN MAGNETITE PARTNERSHIP TILDE	ISHPEMING MI	6,840,000	OIL	\$ 99,861	9.2
4 GRAVERAET JR HI SCHOOL	MARQUETTE MI	5,230,000	OIL	\$ 75,885	10.0
5 GRAVERAET JR HI SCHOOL	MARQUETTE MI	5,230,000	OIL	\$ 75,885	10.0
6 BOTHWELL MIDDLE SCHOOL	MARQUETTE MI	5,230,000	OIL	\$ 75,885	10.0
7 MARQUETTE GENERAL HOSPITAL	MARQUETTE MI	20,925,000	GAS	\$ 143,642	11.7
8 PRESQUE ISLE POWER PLANT	MARQUETTE MI	168,000	ELECTRIC	\$ 2,002	16.6
9 GWINN HIGH SCHOOL	GWINN MI	160,000	ELECTRIC	\$ 1,883	16.9
10 BELL MEMORIAL HOSPITAL	ISHPEMING MI	8,400,000	GAS	\$ 56,867	18.0
11 BELL MEMORIAL HOSPITAL	ISHPEMING MI	8,400,000	GAS	\$ 56,867	18.0
12 BELL MEMORIAL HOSPITAL	ISHPEMING MI	8,400,000	GAS	\$ 56,867	18.0
13 MARQUETTE HIGH SCHOOL	MARQUETTE MI	8,375,000	GAS	\$ 56,692	18.1
14 MARQUETTE HIGH SCHOOL	MARQUETTE MI	8,375,000	GAS	\$ 56,692	18.1
15 WESTWOOD HIGH SCHOOL	ISHPEMING MI	8,370,000	GAS	\$ 56,657	18.1
16 DEPARTMENT OF PUBLIC WORKS	NEGAUNEE MI	2,530,000	OIL	\$ 20,663	21.4
17 NEW LIFE CHURCH	MARQUETTE MI	2,420,000	OIL	\$ 19,699	21.6
18 REPUBLIC SCHOOL	REPUBLIC MI	2,410,000	OIL	\$ 19,612	21.6
19 REPUBLIC SCHOOL	REPUBLIC MI	2,410,000	OIL	\$ 19,612	21.6
20 DJ JACOBETTI VTRN'S HOME	MARQUETTE MI	5,314,000	GAS	\$ 35,241	21.9
21 DJ JACOBETTI VTRN'S HOME	MARQUETTE MI	5,314,000	GAS	\$ 35,241	21.9
22 DJ JACOBETTI VTRN'S HOME	MARQUETTE MI	5,314,000	GAS	\$ 35,241	21.9
23 GILBERT ELEMENTARY SCH	GWINN MI	5,313,000	GAS	\$ 35,234	21.9
24 TRANSPORTATION FACILITY	MARQUETTE MI	2,250,000	OIL	\$ 18,210	21.9
25 BOTHWELL MIDDLE SCHOOL	MARQUETTE MI	5,230,000	GAS	\$ 34,652	22.0
26 FRACO INC	MARQUETTE MI	2,150,000	OIL	\$ 17,334	22.1
27 MARQUETTE CNTY RD COMM	ISHPEMING MI	2,092,000	OIL	\$ 16,826	22.3
28 SAGE BLDG #S 708 & 709	GWINN MI	5,000,000	GAS	\$ 33,040	22.3
29 SAGE BLDG #S 708 & 709	GWINN MI	5,000,000	GAS	\$ 33,040	22.3
30 MARQUETTE CO JAIL	MARQUETTE MI	5,000,000	GAS	\$ 33,040	22.3
31 LIBRARY	ISHPEMING MI	1,300,000	OIL	\$ 10,888	22.3
32 WELLS TOWNSHIP SCHOOL	ARNOLD MI	967,000	OIL	\$ 7,971	23.1
33 POWELL TOWNSHIP SCHOOL	BIG BAY MI	1,703,000	OIL	\$ 13,418	23.2
34 POWELL TOWNSHIP SCHOOL	BIG BAY MI	1,703,000	OIL	\$ 13,418	23.2
35 MERICO	ISHPEMING MI	850,000	OIL	\$ 6,946	23.4

APPENDIX B COUNTY SUMMARIES

MASON

BTU		FUEL TYPE	
<750,000	242	GAS (Natural Gas)	307
750,001-2,500,000	43	PROPANE	0
2,500,001-5,000,000	10	OIL	3
5,000,001-15,000,000	5	WOOD	4
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	1	COAL	1
N/A	18	OTHER	0
TOTAL	319	TOTAL	319

AGE		BOILER USE	
2000-present	64	Hot Water Heat	240
1980-1999	180	Hot Water Supply	39
1960-1979	65	Steam Heating	18
1945-1959	5	Power	16
older than 1945	5	Process Steam	4
N/A	0	Other	2
TOTAL	319	TOTAL	319

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	1,150
1-5 Years	0	Potential Wood Use	6,798
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	2		
Greater than 21 years	313		
TOTAL	319		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MEMORIAL HOSPITAL	LUDINGTON MI	61,800,000	GAS	\$ 423,094	7.4
2 ST PAUL UNITED METH CH	LUDINGTON MI	2,000,000	ELECTRIC	\$ 28,284	12.7
3 LUDINGTON PUMPED STRG	LUDINGTON MI	341,000	ELECTRIC	\$ 4,578	14.6
4 INDIAN SUMMER CO OP	LUDINGTON MI	12,553,000	GAS	\$ 84,971	14.9
5 MASON COUNTY CENTRAL MIDDLE SCH	SCOTTVILLE MI	123,000	ELECTRIC	\$ 1,332	18.4
6 SANDERS INCORPORATED	CUSTER MI	7,000,000	GAS	\$ 47,056	19.7
7 INDIAN SUMMER CO OP	LUDINGTON MI	6,278,000	GAS	\$ 41,996	20.6
8 INDIAN SUMMER CO OP	LUDINGTON MI	6,100,000	GAS	\$ 40,749	20.8
9 WESTSHORE COMMUNITY COL	SCOTTVILLE MI	5,230,000	GAS	\$ 34,652	22.0
10 LUDINGTON JUNIOR HIGH SCHOOL	LUDINGTON MI	4,017,600	GAS	\$ 26,655	24.1
11 LUDINGTON JUNIOR HIGH SCHOOL	LUDINGTON MI	4,017,600	GAS	\$ 26,655	24.1
12 SENIOR HIGH	LUDINGTON MI	4,017,600	GAS	\$ 26,655	24.1
13 SENIOR HIGH	LUDINGTON MI	4,017,600	GAS	\$ 26,655	24.1
14 INDIAN SUMMER CO OP	LUDINGTON MI	4,000,000	GAS	\$ 26,532	24.1
15 BLARNEY CASTLE OFFICE #2	SCOTTVILLE MI	602,000	OIL	\$ 4,774	24.5
16 STRAITS STEEL & WIRE CO	LUDINGTON MI	3,600,000	GAS	\$ 23,729	24.9
17 ST PAUL UNITED METHODIST CHURCH	LUDINGTON MI	234,100	OIL	\$ 1,551	29.8
18 CAPTAIN JOHNS PARTY PORT	LUDINGTON MI	125,000	OIL	\$ 595	41.8
19 CITY OF LUDINGTON WTP	LUDINGTON MI	42,000	ELECTRIC	\$ 125	159.4
20 MASON COUNTY HIGH SCHOOL	SCOTTVILLE MI	1,440,000	GAS	\$ 761	351.0
21 MASON COUNTY HIGH SCHOOL	SCOTTVILLE MI	1,440,000	GAS	\$ 761	351.0
22 MASON COUNTY HIGH SCHOOL	SCOTTVILLE MI	1,440,000	GAS	\$ 761	351.0
23 TENDER CARE OF LUDINGTON	LUDINGTON MI	1,360,000	GAS	\$ 691	366.7
24 TENDER CARE OF LUDINGTON	LUDINGTON MI	1,360,000	GAS	\$ 691	366.7
25 MASON CO COURT HOUSE	LUDINGTON MI	1,357,000	GAS	\$ 689	367.3
26 MEMORIAL HOSPITAL	LUDINGTON MI	1,350,000	GAS	\$ 683	368.8
27 SENIOR HIGH	LUDINGTON MI	1,200,000	GAS	\$ 551	409.3
28 LUDINGTON SCHOOLS	LUDINGTON MI	1,200,000	GAS	\$ 551	409.3
29 CAMP SAUBLE	FREE SOIL MI	1,190,000	GAS	\$ 542	412.7
30 HARBOR LIGHT FELLOWSHIP CHURCH	LUDINGTON MI	1,170,000	GAS	\$ 525	419.7
31 HARBOR LIGHT FELLOWSHIP CHURCH	LUDINGTON MI	1,170,000	GAS	\$ 525	419.7
32 CITY OF LUDINGTON	LUDINGTON MI	1,099,000	GAS	\$ 463	448.9
33 EMANUEL LUTHERAN CHURCH	LUDINGTON MI	1,050,000	GAS	\$ 420	474.0
34 UNITED METHODIST CHURCH	LUDINGTON MI	1,015,000	GAS	\$ 389	495.2
35 FORSTER ELEMENTARY SCHOOL	LUDINGTON MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

MECOSTA

BTU		FUEL TYPE	
<750,000	147	GAS (Natural Gas)	235
750,001-2,500,000	60	PROPANE	0
2,500,001-5,000,000	7	OIL	1
5,000,001-15,000,000	11	WOOD	1
15,000,001-25,000,000	3	ELECTRIC	0
>25,000,001	2	COAL	1
N/A	8	OTHER	0
TOTAL	238	TOTAL	238
AGE		BOILER USE	
2000-present	58	Hot Water Heat	189
1980-1999	116	Hot Water Supply	18
1960-1979	57	Steam Heating	12
1945-1959	5	Power	11
older than 1945	2	Process Steam	6
N/A	0	Other	2
TOTAL	238	TOTAL	238
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	16,555
6-10 years	2	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	3		
Greater than 21 years	230		
TOTAL	238		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 FERRIS STATE UNIVERSITY	BIG RAPIDS MI	50,000,000	GAS	\$ 340,400	6.6
2 FERRIS STATE UNIVERSITY	BIG RAPIDS MI	75,000,000	GAS	\$ 515,600	8.4
3 LEPRINO FOODS COMPANY	REMUS MI	20,032,000	GAS	\$ 137,384	12.0
4 LEPRINO FOODS COMPANY	REMUS MI	20,032,000	GAS	\$ 137,384	12.0
5 NESTLE WATERS NA INC SC FACT	STANWOOD MI	17,135,000	GAS	\$ 117,082	13.1
6 HOPE NETWORK	BIG RAPIDS MI	8,348,000	GAS	\$ 56,503	18.1
7 MORLEY-STANWOOD HIGH SCH	MORLEY MI	6,780,000	GAS	\$ 45,514	20.0
8 MORLEY STANWOOD HIGH SCH	MORLEY MI	6,780,000	GAS	\$ 45,514	20.0
9 FERRIS STATE UNIVERSITY	BIG RAPIDS MI	6,379,800	GAS	\$ 42,710	20.5
10 BIG RAPIDS MIDDLE SCHOOL	BIG RAPIDS MI	6,300,000	GAS	\$ 42,150	20.6
11 BIG RAPIDS MIDDLE SCHOOL	BIG RAPIDS MI	6,300,000	GAS	\$ 42,150	20.6
12 MECOSTA HOSPITAL	BIG RAPIDS MI	6,008,000	GAS	\$ 40,104	21.0
13 MECOSTA CO GENERAL HOSP	BIG RAPIDS MI	6,000,000	GAS	\$ 40,048	21.0
14 BIG RAPIDS HIGH SCHOOL	BIG RAPIDS MI	6,000,000	GAS	\$ 40,048	21.0
15 BIG RAPIDS HIGH SCHOOL	BIG RAPIDS MI	6,000,000	GAS	\$ 40,048	21.0
16 BIG RAPIDS COMPONENTS WD	BIG RAPIDS MI	5,860,000	GAS	\$ 39,067	21.2
17 WOLVERINE WORLD WIDE INCORPORAT	BIG RAPIDS MI	4,200,000	GAS	\$ 27,934	23.8
18 MECOSTA COUNTY BUILDING	BIG RAPIDS MI	4,185,000	GAS	\$ 27,828	23.8
19 MECOSTA COUNTY BLDG	BIG RAPIDS MI	4,184,000	GAS	\$ 27,821	23.8
20 STANWOOD ELEM SCHOOL	STANWOOD MI	4,184,000	GAS	\$ 27,821	23.8
21 COMM HOSPITAL	BIG RAPIDS MI	4,135,000	GAS	\$ 27,478	23.9
22 GENERAL SERVICES	BIG RAPIDS MI	3,350,000	GAS	\$ 21,977	25.4
23 CITY OF BIG RAPIDS	BIG RAPIDS MI	3,300,000	GAS	\$ 21,626	25.5
24 SMITH'S AUTO BODY	MECOSTA MI	206,000	OIL	\$ 1,305	31.3
25 CHIPPEWA HILLS HIGH SCHOOL	REMUS MI	1,440,000	GAS	\$ 761	351.0
26 ST MICHAEL'S PARISH	REMUS MI	1,440,000	GAS	\$ 761	351.0
27 MIDDLE SCHOOL	MORLEY MI	1,400,000	GAS	\$ 726	358.5
28 MIDDLE SCHOOL	MORLEY MI	1,400,000	GAS	\$ 726	358.5
29 METRON	BIG RAPIDS MI	1,360,000	GAS	\$ 691	366.7
30 METRON	BIG RAPIDS MI	1,360,000	GAS	\$ 691	366.7
31 MECOSTA OSCEOLA ED CTR	BIG RAPIDS MI	1,357,000	GAS	\$ 689	367.3
32 TRINITY FELLOWSHIP CHURCH	BIG RAPIDS MI	1,260,000	GAS	\$ 604	391.1
33 WESTERN CONCRETE PROD	BIG RAPIDS MI	1,255,000	GAS	\$ 599	392.5
34 BROOKSIDE ELEMENTARY	BIG RAPIDS MI	1,232,000	GAS	\$ 579	399.2
35 GRANGER CENTER	BIG RAPIDS MI	1,200,000	GAS	\$ 551	409.3

APPENDIX B COUNTY SUMMARIES

MENOMINEE

BTU		FUEL TYPE	
<750,000	159	GAS (Natural Gas)	228
750,001-2,500,000	46	PROPANE	0
2,500,001-5,000,000	6	OIL	9
5,000,001-15,000,000	10	WOOD	10
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	0	COAL	2
N/A	32	OTHER	0
TOTAL	253	TOTAL	253
AGE		BOILER USE	
2000-present	42	Hot Water Heat	172
1980-1999	143	Hot Water Supply	17
1960-1979	54	Steam Heating	36
1945-1959	9	Power	19
older than 1945	5	Process Steam	7
N/A	0	Other	2
TOTAL	253	TOTAL	253
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	13,186
1-5 Years	0	Potential Wood Use	746
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	2		
16-20 years	0		
Greater than 21 years	251		
TOTAL	253		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PINECREST MEDICAL CARE	POWERS MI	5,020,000	OIL	\$ 72,758	10.2
2 MENOMINEE CO ROAD COMM	STEPHENSON MI	4,181,000	OIL	\$ 60,763	10.9
3 HERMANVILLE ELEMENTARY SCHOOL	HERMANVILLE MI	100,000	ELECTRIC	\$ 989	20.2
4 MENOMINEE RIVER LUMBER	MENOMINEE MI	6,275,000	GAS	\$ 41,975	20.6
5 PINECREST MEDICAL CARE	POWERS MI	5,858,000	GAS	\$ 39,053	21.2
6 STEPHENSON PUBLIC SCHOOL	STEPHENSON MI	5,250,000	GAS	\$ 34,792	22.0
7 BAY AREA MEDICAL CTR	MENOMINEE MI	5,230,000	GAS	\$ 34,652	22.0
8 MENOMINEE COUNTY ROAD COMMISSIO	POWERS MI	2,100,000	OIL	\$ 16,896	22.2
9 MENOMINEE COUNTY ROAD COMMISSIO	MENOMINEE MI	2,000,000	OIL	\$ 16,020	22.5
10 MENOMINEE COUNTY ROAD COMMISSIO	STEPHENSON MI	1,200,000	OIL	\$ 10,012	22.5
11 CITY OF MENOMINEE	MENOMINEE MI	1,530,000	OIL	\$ 11,903	23.7
12 ANCHOR COUPLING CO	MENOMINEE MI	3,500,000	GAS	\$ 23,028	25.1
13 N. CENTRAL AREA HIGH SCHOOL	POWERS MI	3,313,000	GAS	\$ 21,718	25.5
14 LINSMEIER IMPLEMENT	MENOMINEE MI	220,000	OIL	\$ 1,427	30.5
15 NASER OIL CO	POWERS MI	145,200	OIL	\$ 772	37.3
16 NORTH COUNTRY BANK	STEPHENSON MI	1,329,000	GAS	\$ 664	373.6
17 SCHOOL SPORTS COMPLEX	STEPHENSON MI	1,300,000	GAS	\$ 639	380.6
18 STEPHENSON ELEM SCHOOL	STEPHENSON MI	1,300,000	GAS	\$ 639	380.6
19 CITY OF MENOMINEE	MENOMINEE MI	1,200,000	GAS	\$ 551	409.3
20 CITY OF MENOMINEE	MENOMINEE MI	1,200,000	GAS	\$ 551	409.3
21 MENOMINEE & MARINTE YMCA	MENOMINEE MI	1,200,000	GAS	\$ 551	409.3
22 LLOYD FLANDERS INC	MENOMINEE MI	1,200,000	GAS	\$ 551	409.3
23 MENOMINEE & MARINTE YMCA	MENOMINEE MI	1,200,000	GAS	\$ 551	409.3
24 CITY OF MENOMINEE/WTR PT	MENOMINEE MI	1,190,000	GAS	\$ 542	412.7
25 CITY OF MENOMINEE/WTR PLANT	MENOMINEE MI	1,190,000	GAS	\$ 542	412.7
26 MENOMINEE CO COURTHOUSE	MENOMINEE MI	2,937,000	GAS	\$ 1,073	467.1
27 MENOMINEE CO COURTHOUSE	MENOMINEE MI	2,937,000	GAS	\$ 1,073	467.1
28 CITY OF MENOMINEE	MENOMINEE MI	1,050,000	GAS	\$ 420	474.0
29 CITY OF MENOMINEE	MENOMINEE MI	1,050,000	GAS	\$ 420	474.0
30 MENOMINEE & MARINTE YMCA	MENOMINEE MI	1,005,000	GAS	\$ 380	501.9
31 BARK RIVER-HARRIS SCHOOL	HARRIS MI	1,000,000	GAS	\$ 376	505.3
32 BARK RIVER-HARRIS SCHS	HARRIS MI	1,000,000	GAS	\$ 376	505.3
33 BARK RIVER-HARRIS SCHS	HARRIS MI	1,000,000	GAS	\$ 376	505.3
34 BARK RIVER-HARRIS SCHS	HARRIS MI	1,000,000	GAS	\$ 376	505.3
35 PRECIOUS BLOOD PARISH	STEPHENSON MI	1,000,000	GAS	\$ 376	505.3

APPENDIX B COUNTY SUMMARIES

MIDLAND

BTU		FUEL TYPE	
<750,000	389	GAS (Natural Gas)	611
750,001-2,500,000	122	PROPANE	0
2,500,001-5,000,000	40	OIL	7
5,000,001-15,000,000	32	WOOD	1
15,000,001-25,000,000	4	ELECTRIC	12
>25,000,001	5	COAL	0
N/A	61	OTHER	22
TOTAL	653	TOTAL	653
AGE		BOILER USE	
2000-present	128	Hot Water Heat	427
1980-1999	361	Hot Water Supply	90
1960-1979	142	Steam Heating	44
1945-1959	21	Power	74
older than 1945	1	Process Steam	18
N/A	0	Other	0
TOTAL	653	TOTAL	653
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	37,754
6-10 years	4	(Projects <20 yrs payback)	
11-15 years	8		
16-20 years	18		
Greater than 21 years	623		
TOTAL	653		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 DOW CHEMICAL COMPANY	MIDLAND MI	48,032,000	GAS	\$ 331,608	5.9
2 DOW CORNING CORPORATION B2701-8	MIDLAND MI	57,424,000	GAS	\$ 392,427	7.1
3 DOW CORNING CORPORATION B2701-9	MIDLAND MI	57,429,000	GAS	\$ 392,462	7.1
4 DOW CORNING CORP	MIDLAND MI	79,037,000	GAS	\$ 543,891	8.6
5 DOW CHEMICAL COMPANY	MIDLAND MI	25,090,000	GAS	\$ 172,831	10.1
6 COOK SCHOOL	MIDLAND MI	4,465,000	OIL	\$ 64,993	10.7
7 MIDMICHIGAN HEALTH	MIDLAND MI	2,772,000	ELECTRIC	\$ 39,781	12.0
8 MIDLAND CENTER FOR ARTS	MIDLAND MI	16,737,000	GAS	\$ 114,293	13.3
9 MIDLAND CENTER FOR ARTS	MIDLAND MI	16,737,000	GAS	\$ 114,293	13.3
10 DOW CHEMICAL CO MI DIV	MIDLAND MI	700,000	ELECTRIC	\$ 9,924	13.6
11 DOW CHEMICAL COMPANY	MIDLAND MI	15,360,000	GAS	\$ 104,643	13.8
12 DOW CHEMICAL COMPANY	MIDLAND MI	15,360,000	GAS	\$ 104,643	13.8
13 DOW CORNING CORPORATION BLD 501	MIDLAND MI	12,150,000	GAS	\$ 82,147	15.1
14 DOW CORNING CORPORATION	MIDLAND MI	11,715,744	GAS	\$ 79,104	15.3
15 DOW CHEMICAL COMPANY	MIDLAND MI	10,600,000	GAS	\$ 71,285	15.8
16 DOW CHEMICAL COMPANY	MIDLAND MI	10,600,000	GAS	\$ 71,285	15.8
17 MIDLAND HIGH SCH	MIDLAND MI	10,042,000	GAS	\$ 67,374	16.0
18 DOW CORNING CORPORATION	MIDLAND MI	10,000,000	GAS	\$ 67,080	16.0
19 MIDMICHIGAN HEALTH	MIDLAND MI	175,000	ELECTRIC	\$ 2,106	16.5
20 BLESSED SACRAMENT SCHOOL	MIDLAND MI	8,460,000	GAS	\$ 57,288	17.9
21 HERBERT H DOW HIGH SCH	MIDLAND MI	8,375,000	GAS	\$ 56,692	18.1
22 HERBERT H DOW HIGH SCHOOL	MIDLAND MI	8,375,000	GAS	\$ 56,692	18.1
23 DOW CORNING CORP BLD 604	MIDLAND MI	7,456,000	GAS	\$ 50,252	19.2
24 DOW CORNING CORPORATION	BLDG 341 1 & 2	7,230,000	GAS	\$ 48,668	19.4
25 DOW CORNING CORPORATION	BLDG 341 1 & 2	7,230,000	GAS	\$ 48,668	19.4
26 MIDMICHIGAN MEDICAL CENTER	MIDLAND MI	105,000	ELECTRIC	\$ 1,064	19.6
27 DOW CHEMICAL COMPANY	MIDLAND MI	105,000	ELECTRIC	\$ 1,064	19.6
28 DOW CHEMICAL COMPANY	MIDLAND MI	102,000	ELECTRIC	\$ 1,019	19.9
29 BULLOCK CREEK SR HIGH	MIDLAND MI	6,800,000	GAS	\$ 45,654	20.0
30 BULLOCK CREEK SR HIGH	MIDLAND MI	6,800,000	GAS	\$ 45,654	20.0
31 CENTRAL INTERMEDIATE	MIDLAND MI	6,300,000	GAS	\$ 42,150	20.6
32 CENTRAL INTER.SCHOOL	MIDLAND MI	6,278,000	GAS	\$ 41,996	20.6
33 NORTHEAST SCHOOL	MIDLAND MI	6,278,000	GAS	\$ 41,996	20.6
34 MIDMICHIGAN HEALTH	MIDLAND MI	6,277,000	GAS	\$ 41,989	20.6
35 MIDMICHIGAN HEALTH	MIDLAND MI	6,277,000	GAS	\$ 41,989	20.6

APPENDIX B COUNTY SUMMARIES

MISSAUKEE

BTU		FUEL TYPE	
<750,000	77	GAS (Natural Gas)	99
750,001-2,500,000	15	PROPANE	0
2,500,001-5,000,000	3	OIL	3
5,000,001-15,000,000	0	WOOD	2
15,000,001-25,000,000	4	ELECTRIC	0
>25,000,001	1	COAL	0
N/A	4	OTHER	0
TOTAL	104	TOTAL	104

AGE		BOILER USE	
2000-present	21	Hot Water Heat	91
1980-1999	59	Hot Water Supply	5
1960-1979	20	Steam Heating	1
1945-1959	4	Power	6
older than 1945	0	Process Steam	1
N/A	0	Other	0
TOTAL	104	TOTAL	104

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	129,205
1-5 Years	0	Potential Wood Use	6,746
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	0		
Greater than 21 years	100		
TOTAL	104		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BIERWER SAWMILL INCORPORATED	MCBAIN MI	24,000,000	GAS	\$ 165,192	10.5
2 HYDROLAKE LEASING & SERV CO	MCBAIN MI	22,300,000	GAS	\$ 153,278	11.2
3 BIEWER SAWMILL INCORPORATED	MCBAIN MI	20,256,000	GAS	\$ 138,954	11.9
4 HYDROLAKE LEASING CO	MCBAIN MI	16,616,000	GAS	\$ 113,445	13.3
5 LAKE CITY ELEM & HIGH	LAKE CITY MI	3,000,000	GAS	\$ 19,524	26.1
6 LAKE CITY ELEM & HIGH	LAKE CITY MI	3,000,000	GAS	\$ 19,524	26.1
7 MCBAIN RURAL AG SCH	MC BAIN MI	3,000,000	GAS	\$ 19,524	26.1
8 WHIPPLE & CO	MOORESTOWN MI	226,000	OIL	\$ 1,480	30.2
9 TRI CO VETERINARY HOSP	MCBAIN MI	225,000	OIL	\$ 1,471	30.2
10 NORTHERN MICHIGAN CHRISTIAN SCH	MCBAIN MI	1,200,000	GAS	\$ 551	409.3
11 NORTHERN MICHIGAN CHRISTIAN SCHO	MCBAIN MI	1,200,000	GAS	\$ 551	409.3
12 MCBAIN RURAL AGRI SCHOOL	MCBAIN MI	1,125,000	GAS	\$ 486	437.4
13 MERRITT ELEMENTARY SCHOOL	MERRITT MI	1,020,000	GAS	\$ 394	492.0
14 CLASSIC CAR WASH	LAKE CITY MI	1,010,000	GAS	\$ 385	498.5
15 SUPER KLEEN LAUNDRY	LAKE CITY MI	961,700	GAS	\$ 342	534.7
16 LAKE CITY MIDDLE SCHOOL	LAKE CITY MI	900,000	GAS	\$ 288	596.0
17 LAKE CITY MIDDLE SCHOOL	LAKE CITY MI	900,000	GAS	\$ 288	596.0
18 LAKE CITY MIDDLE SCH	LAKE CITY MI	900,000	GAS	\$ 288	596.0
19 YOUNG LIFE TIMBERWOLF LAKE	LAKE CITY MI	825,000	GAS	\$ 223	710.3
20 YOUNG LIFE TIMBERWOLF LAKE	LAKE CITY MI	825,000	GAS	\$ 223	710.3
21 MISSAUKEE COUNTY	LAKE CITY MI	800,000	GAS	\$ 201	764.9
22 FIRST PRESBYTERIAN CH	LAKE CITY MI	742,500	GAS	\$ 150	950.5
23 AUTUMNWOOD OF MCBAIN	MCBAIN MI	670,000	GAS	\$ 87	1,490.0
24 YOUNG LIFE TIMBERWOLF LAKE	LAKE CITY MI	650,000	GAS	\$ 69	1,812.3
25 MCBAIN RURAL AGRI SCHOOL	MCBAIN MI	1,875,000	GAS	\$ 143	2,384.9
26 LAKE CITY HIGH SCHOOL	LAKE CITY MI	600,000	GAS	\$ 26	4,546.9
27 LAKE CITY UNITED METHODIST CHURCH	LAKE CITY MI	600,000	GAS	\$ 26	4,546.9
28 MCBAIN RURAL AG SCHOOL	MC BAIN MI	1,771,000	GAS	\$ 51	6,281.3
29 MCBAIN RURAL AG SCHOOL	MCBAIN MI	1,771,000	GAS	\$ 51	6,281.3

APPENDIX B COUNTY SUMMARIES

MONROE

BTU		FUEL TYPE	
<750,000	413	GAS (Natural Gas)	678
750,001-2,500,000	175	PROPANE	0
2,500,001-5,000,000	32	OIL	23
5,000,001-15,000,000	50	WOOD	1
15,000,001-25,000,000	3	ELECTRIC	22
>25,000,001	8	COAL	14
N/A	58	OTHER	1
TOTAL	739	TOTAL	739

AGE		BOILER USE	
2000-present	160	Hot Water Heat	457
1980-1999	394	Hot Water Supply	128
1960-1979	157	Steam Heating	93
1945-1959	18	Power	46
older than 1945	10	Process Steam	8
N/A	0	Other	7
TOTAL	739	TOTAL	739

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	122
1-5 Years	0	Potential Wood Use	63,035
6-10 years	6	(Projects <20 yrs payback)	
11-15 years	19		
16-20 years	26		
Greater than 21 years	688		
TOTAL	739		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MACSTEEL MONROE DIVISION	MONROE MI	44,274,000	GAS	\$ 305,272	6.2
2 DETROIT EDISON CO	MONROE MI	192,060,000	OIL	\$ 2,850,158	7.8
3 DETROIT EDISON CO	MONROE MI	192,060,000	OIL	\$ 2,850,158	7.8
4 MICHIGASN PAVING	MONROE MI	27,000,000	GAS	\$ 186,216	9.4
5 DETROIT EDISON CO	MONROE MI	6,277,000	OIL	\$ 91,477	9.5
6 DETROIT EDISON CO	MONROE MI	6,277,000	OIL	\$ 91,477	9.5
7 DANA CORPORATION	OTTAWA LAKE MI	5,312,000	OIL	\$ 77,106	10.0
8 MONROE MIDDLE SCHOOL	MONROE MI	5,021,000	OIL	\$ 72,773	10.2
9 MONROE MIDDLE SCHOOL	MONROE MI	5,020,000	OIL	\$ 72,758	10.2
10 MONROE MIDDLE SCHOOL	MONROE MI	5,020,000	OIL	\$ 72,758	10.2
11 BEDFORD SEWAGE PLNT	ERIE MI	3,347,000	OIL	\$ 48,344	11.5
12 MERCY MEMORIAL HOSPITAL	MONROE MI	20,922,000	GAS	\$ 143,621	11.7
13 BAY CORRUGASTED CONTAINER	MONROE MI	20,700,000	GAS	\$ 142,066	11.8
14 BAY CORRUGASTED CONTAINER	MONROE MI	20,700,000	GAS	\$ 142,066	11.8
15 DETROIT EDISON CO	MONROE MI	500,000	ELECTRIC	\$ 6,946	14.0
16 NATIONAL GASLVANIZING LP	MONROE MI	14,760,000	GAS	\$ 100,438	14.0
17 RENEW VALVE	CARLETON MI	491,472	ELECTRIC	\$ 6,819	14.1
18 DETROIT EDISON CO	MONROE MI	437,500	ELECTRIC	\$ 6,015	14.2
19 ENRICO FERMI	NEWPORT MI	409,440	ELECTRIC	\$ 5,597	14.3
20 DETROIT EDISON MON OFF	MONROE MI	407,400	ELECTRIC	\$ 5,567	14.3
21 FERMI NOC ATTN B LEMIEUX	NEWPORT MI	367,500	ELECTRIC	\$ 4,973	14.5
22 ENRICO FERMI 2 ENRGY PLT	NEWPORT MI	307,080	ELECTRIC	\$ 4,073	14.8
23 DETROIT EDISON CO	MONROE MI	300,000	ELECTRIC	\$ 3,968	14.9
24 GEORGIA PACIFIC CORPORATION	MILAN MI	12,553,000	GAS	\$ 84,971	14.9
25 LA Z BOY, INC	MONROE MI	12,553,000	GAS	\$ 84,971	14.9
26 NEW TECHNOLOGY STEEL	ERIE MI	12,000,000	GAS	\$ 81,096	15.2
27 DETROIT EDISON CO	MONROE MI	265,000	ELECTRIC	\$ 3,446	15.2
28 DETROIT EDISON CO	MONROE MI	260,000	ELECTRIC	\$ 3,372	15.2
29 DETROIT EDISON CO	MONROE MI	252,000	ELECTRIC	\$ 3,253	15.3
30 DETROIT EDISON CO	MONROE MI	252,000	ELECTRIC	\$ 3,253	15.3
31 MACKS CAR WASH	MONROE MI	11,247,000	GAS	\$ 75,819	15.5
32 SISTERS SERVANTS IHM	MONROE MI	10,500,000	GAS	\$ 70,584	15.8
33 SISTERS SERVANTS IHM	MONROE MI	10,500,000	GAS	\$ 70,584	15.8
34 MONROE PUBLIC SCH	MONROE MI	10,048,000	GAS	\$ 67,416	16.0
35 MONROE PUBLIC SCHOOLS	MONROE MI	10,043,000	GAS	\$ 67,381	16.0
36 SUMMERFIELD HIGH SCHOOL	PETERSBURG MI	10,000,000	GAS	\$ 67,080	16.0
37 FERMI #1	NEWPORT MI	162,960	ELECTRIC	\$ 1,927	16.8
38 LA-Z-BOY, INC	MONROE MI	8,375,000	GAS	\$ 56,692	18.1
39 MONROE COMMUNITY HEALTH	MONROE MI	8,375,000	GAS	\$ 56,692	18.1
40 CLEAN TECH INC	DUNDEE MI	8,370,000	GAS	\$ 56,657	18.1
41 MONROE COUNTY COMMUNITY COLLEG	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
42 MONROE COUNTY COMMUNITY COLLEG	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
43 MONROE COUNTY COMMUNITY COLLEG	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
44 MONROE COUNTY COMMUNITY COLLEG	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
45 TENNECO AUTOMOTIVE INC	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
46 TENNECO AUTOMOTIVE INC	MONROE MI	8,369,000	GAS	\$ 56,650	18.1
47 MASON SENIOR HIGH	ERIE MI	124,000	ELECTRIC	\$ 1,347	18.3
48 MONROE COUNTY LAW ENFORCEMENT	MONROE MI	7,970,000	GAS	\$ 53,854	18.5

MONROE

49 GUARDIAN INDUSTRIES	CARLETON MI	7,315,248	GAS	\$	49,265	19.3
50 MASON SR HIGH SCHOOL	ERIE MI	6,900,000	GAS	\$	46,355	19.8
51 MASON SR HIGH SCHOOL	ERIE MI	6,900,000	GAS	\$	46,355	19.8

APPENDIX B COUNTY SUMMARIES

MONTCALM

BTU		FUEL TYPE	
<750,000	278	GAS (Natural Gas)	421
750,001-2,500,000	100	PROPANE	1
2,500,001-5,000,000	28	OIL	7
5,000,001-15,000,000	14	WOOD	5
15,000,001-25,000,000	1	ELECTRIC	4
>25,000,001	0	COAL	2
N/A	19	OTHER	0
TOTAL	440	TOTAL	440
AGE		BOILER USE	
2000-present	113	Hot Water Heat	322
1980-1999	260	Hot Water Supply	57
1960-1979	51	Steam Heating	26
1945-1959	10	Power	17
older than 1945	6	Process Steam	11
N/A	0	Other	7
TOTAL	440	TOTAL	440
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	1,278
1-5 Years	0	Potential Wood Use	10,658
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	13		
Greater than 21 years	423		
TOTAL	440		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MIDDLE SCHOOL	HOWARD CITY MI	4,185,000	OIL	\$ 60,823	10.9
2 FARM COUNTRY CHEESE HOUSE	LAKEVIEW MI	4,000,000	OIL	\$ 58,068	11.0
3 HIGH SCHOOL	GREENVILLE MI	19,000,000	GAS	\$ 130,152	12.4
4 HUNTINGTON FOAM	GREENVILLE MI	14,288,000	GAS	\$ 97,130	14.2
5 CARSON CITY CORRECTIONAL FACILITY	CARSON CITY MI	12,000,000	GAS	\$ 81,096	15.2
6 FEDERAL MOGUL CORPORATION	GREENVILLE MI	10,042,500	GAS	\$ 67,378	16.0
7 FEDERAL MOGUL CORPORATION	GREENVILLE MI	10,042,000	GAS	\$ 67,374	16.0
8 MONTCALM AREA VOCAT CTR	SIDNEY MI	10,000,000	GAS	\$ 67,080	16.0
9 COWDEN LAKE BIBLE CHURCH	CORAL MI	300,000	PROPANE	\$ 3,442	17.2
10 BEATRICE E DOSER BUILDING	SIDNEY MI	130,000	ELECTRIC	\$ 1,436	18.0
11 NORTHLAND REFRIGERATION	GREENVILLE MI	8,369,000	GAS	\$ 56,650	18.1
12 HIGH SCHOOL	STANTON MI	124,000	ELECTRIC	\$ 1,347	18.3
13 CARSON CITY HOSPITAL	CARSON CITY MI	8,008,000	GAS	\$ 54,120	18.5
14 UNITED MEMORIAL HOSPITAL	GREENVILLE MI	8,008,000	GAS	\$ 54,120	18.5
15 GREENVILLE MIDDLE SCHOOL	GREENVILLE MI	8,000,000	GAS	\$ 54,064	18.5
16 GREENVILLE MIDDLE SCHOOL	GREENVILLE MI	8,000,000	GAS	\$ 54,064	18.5
17 UNITED MEMORIAL HOSPITAL	GREENVILLE MI	6,900,000	GAS	\$ 46,355	19.8
18 MONTCALM COMMUNITY COLLEGE	SIDNEY MI	6,000,000	GAS	\$ 40,048	21.0
19 MONTCALM COMMUNITY COLLEGE	SIDNEY MI	6,000,000	GAS	\$ 40,048	21.0
20 FEDERAL MOGUL CORP	GREENVILLE MI	5,016,000	GAS	\$ 33,152	22.3
21 HAROLD O'STEELE HIGH SCH	FENWICK MI	1,600,000	OIL	\$ 12,516	23.5
22 MONTCALM COMMUNITY COLLEGE	SIDNEY MI	4,300,000	GAS	\$ 28,634	23.6
23 MONTCALM COMMUNITY COLLEGE	SIDNEY MI	4,300,000	GAS	\$ 28,634	23.6
24 MEDICS PC	EDMORE MI	4,200,000	GAS	\$ 27,934	23.8
25 MIDDLE SCHOOL	HOWARD CITY MI	4,185,000	GAS	\$ 27,828	23.8
26 CARSON CITY REG PRISON	CARSON CITY MI	4,000,000	GAS	\$ 26,532	24.1
27 CARSON CITY CORRECTIONAL FACILITY	CARSON CITY MI	4,000,000	GAS	\$ 26,532	24.1
28 CENTRAL MONTCALM HIGH SCHOOL	STANTON MI	4,000,000	GAS	\$ 26,532	24.1
29 MEDICS PC	EDMORE MI	3,920,000	GAS	\$ 25,971	24.3
30 TRI COUNTY HIGH SCHOOL	HOWARD CITY MI	3,753,000	GAS	\$ 24,801	24.6
31 TRI COUNTRY HIGH SCHOOL	HOWARD CITY MI	3,753,000	GAS	\$ 24,801	24.6
32 ADULT ED CENTER	SIX LAKES MI	3,712,000	GAS	\$ 24,514	24.7
33 MICHIGAN CHAIR	HOWARD CITY MI	3,200,000	GAS	\$ 20,926	25.7
34 WOLVERINE POWER SUPPLY COOPERA	VESTABURG MI	3,150,000	GAS	\$ 20,575	25.8
35 GREENVILLE ACRES	GREENVILLE MI	300,000	OIL	\$ 2,128	27.8

APPENDIX B COUNTY SUMMARIES

MONTMORENCY

BTU			FUEL TYPE	
<750,000	124		GAS (Natural Gas)	151
750,001-2,500,000	12		PROPANE	0
2,500,001-5,000,000	4		OIL	1
5,000,001-15,000,000	1		WOOD	1
15,000,001-25,000,000	0		ELECTRIC	0
>25,000,001	1		COAL	0
N/A	11		OTHER	0
TOTAL	153		TOTAL	153
AGE			BOILER USE	
2000-present	26		Hot Water Heat	143
1980-1999	119		Hot Water Supply	5
1960-1979	7		Steam Heating	1
1945-1959	1		Power	4
older than 1945	0		Process Steam	0
N/A	0		Other	0
TOTAL	153		TOTAL	153
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	182,500
1-5 Years	0		Potential Wood Use	679
6-10 years	0		(Projects <20 yrs payback)	
11-15 years	0			
16-20 years	1			
Greater than 21 years	152			
TOTAL	153			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PRECISION MILLWORKS INC	HILLMAN MI	8,370,000	GAS	\$ 56,657	18.1
2 ATLANTA JR SR HI SCH	ATLANTA MI	3,768,000	GAS	\$ 24,906	24.6
3 ATLANTA JR SR HI SCH	ATLANTA MI	3,768,000	GAS	\$ 24,906	24.6
4 CALVARY EPISCOPAL CHURCH	HILLMAN MI	470,000	OIL	\$ 3,617	25.4
5 HILLMAN JUNIOR/SENIOR	HILLMAN MI	1,280,000	GAS	\$ 621	385.7
6 ATLANTA COMMUNITY SCHOOLS	ATLANTA MI	1,000,000	GAS	\$ 376	505.3
7 ATLANTA COMMUNITY SCHOOLS	ATLANTA MI	1,000,000	GAS	\$ 376	505.3
8 ATLANTA COMMUNITY SCHOOLS	ATLANTA MI	1,000,000	GAS	\$ 376	505.3
9 WAYNE WIRE & CLOTH	HILLMAN MI	910,000	GAS	\$ 297	584.6
10 HILLMAN JR AND SR HIGH	HILLMAN MI	2,578,000	GAS	\$ 758	592.3
11 HILLMAN JR AND SR HIGH	HILLMAN MI	2,578,000	GAS	\$ 758	592.3
12 LEWISTON ELEMENTARY & MIDDLE SCH	LEWISTON MI	800,000	GAS	\$ 201	764.9
13 LEWISTON ELEMENTARY & MIDDLE SCH	LEWISTON MI	800,000	GAS	\$ 201	764.9
14 MONTMORENCY COUNTY ROAD COMMIE	ATLANTA MI	750,000	GAS	\$ 157	919.6
15 MONTMORENCY CO COURT HSE	ATLANTA MI	700,000	GAS	\$ 113	1,193.5
16 HILLMAN ELEMENTARY	HILLMAN MI	1,941,000	GAS	\$ 200	1,749.9
17 HILLMAN COMMUNITY SCHOOLS	HILLMAN MI	1,941,000	GAS	\$ 200	1,749.9
18 BEST WESTERN THUNDER BAY	HILLMAN MI	1,875,000	GAS	\$ 143	2,384.9
19 HILLMANS HAVEN ASSISTED LIVING	HILLMAN MI	600,000	GAS	\$ 26	4,546.9

APPENDIX B COUNTY SUMMARIES

MUSKEGON

BTU		FUEL TYPE	
<750,000	654	GAS (Natural Gas)	1178
750,001-2,500,000	339	PROPANE	0
2,500,001-5,000,000	63	OIL	9
5,000,001-15,000,000	56	WOOD	0
15,000,001-25,000,000	10	ELECTRIC	25
>25,000,001	9	COAL	6
N/A	91	OTHER	4
TOTAL	1222	TOTAL	1222

AGE		BOILER USE	
2000-present	271	Hot Water Heat	766
1980-1999	556	Hot Water Supply	203
1960-1979	317	Steam Heating	134
1945-1959	65	Power	86
older than 1945	13	Process Steam	32
N/A	0	Other	1
TOTAL	1222	TOTAL	1222

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	3	Potential Wood Use	64,776
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	32		
16-20 years	26		
Greater than 21 years	1156		
TOTAL	1222		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MERCY HOSPITAL OAK CAMPUS	MUSKEGON MI	12,500,000	ELECTRIC	\$ 259,800	4.9
2 MERCY HOSPITAL OAK CAMPUS	MUSKEGON MI	12,500,000	ELECTRIC	\$ 259,800	4.9
3 MERCY HOSPITAL OAK CAMPUS	MUSKEGON MI	12,500,000	ELECTRIC	\$ 259,800	4.9
4 BAYER CORPORATION	MUSKEGON MI	42,100,000	GAS	\$ 290,037	6.4
5 MERCY HOSPITAL	MUSKEGON MI	12,500,000	OIL	\$ 183,150	6.9
6 LIFT TECH INTERNATIONAL	MUSKEGON HTS MI	29,600,000	GAS	\$ 204,437	8.5
7 LIFT TECH INTERNATIONAL	MUSKEGON HTS. MI	29,600,000	GAS	\$ 204,437	8.5
8 MUSKEGON CORR FAC	MUSKEGON MI	27,000,000	GAS	\$ 186,216	9.4
9 LORIN IND-COIL ANOD	MUSKEGON MI	25,106,000	GAS	\$ 172,943	10.1
10 RAVENNA UPPER ELEM SCH	RAVENNA MI	4,000,000	OIL	\$ 58,068	11.0
11 LORIN INDUSTRIES	MUSKEGON MI	20,922,000	GAS	\$ 143,621	11.7
12 ESCO	MUSKEGON MI	20,000,000	GAS	\$ 137,160	12.0
13 PERRIGO COMPANY NORTH LABS	MONTAGUE MI	20,000,000	GAS	\$ 137,160	12.0
14 BAYER CORPORATION	MUSKEGON MI	20,000,000	GAS	\$ 137,160	12.0
15 BAYER CORPORATION	MUSKEGON MI	20,000,000	GAS	\$ 137,160	12.0
16 MUSKEGON CORRECTIONAL FACILITY	MUSKEGON MI	20,000,000	GAS	\$ 137,160	12.0
17 CONSUMERS ENERGY	MUSKEGON MI	1,024,200	ELECTRIC	\$ 14,752	13.2
18 CMS ENERGY CORPORATION	MUSKEGON MI	1,023,900	ELECTRIC	\$ 14,748	13.2
19 HACKLEY HOSPITAL	MUSKEGON MI	16,800,000	GAS	\$ 114,734	13.3
20 DANA	MUSKEGON MI	16,738,000	GAS	\$ 114,300	13.3
21 HACKLEY HOSPITAL	MUSKEGON MI	16,738,000	GAS	\$ 114,300	13.3
22 HACKLEY HOSPITAL	MUSKEGON MI	16,738,000	GAS	\$ 114,300	13.3
23 SENIOR HS	MUSKEGON MI	15,000,000	GAS	\$ 102,120	14.0
24 SENIOR HIGH SCHOOL	MUSKEGON MI	15,000,000	GAS	\$ 102,120	14.0
25 STEELE JR HIGH SCH	MUSKEGON MI	14,000,000	GAS	\$ 95,112	14.4
26 STEELE JR HIGH SCH	MUSKEGON MI	14,000,000	GAS	\$ 95,112	14.4
27 SUN CHEMICAL CORP	MUSKEGON MI	400,000	ELECTRIC	\$ 5,457	14.4
28 WHITEHALL HIGH SCHOOL	WHITEHALL MI	400,000	ELECTRIC	\$ 5,457	14.4
29 SHELLCAST INC	MONTAGUE MI	13,800,000	GAS	\$ 93,710	14.4
30 OLIVE GARDEN	MUSKEGON MI	300,000	ELECTRIC	\$ 3,968	14.9
31 OLIVE GARDEN	MUSKEGON MI	300,000	ELECTRIC	\$ 3,968	14.9
32 BAKER COLLEGE	MUSKEGON MI	12,554,000	GAS	\$ 84,978	14.9
33 MERCY HEALTH CENTER	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
34 SUN CHEMICAL CORPORATION	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
35 SUN CHEMICAL CORPORATION	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
36 MERCY GENERAL HEALTH PNR	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
37 SUN CHEMICAL	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
38 SUN CHEMICAL CORPORATION	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
39 MERCY HOSPITAL OAK CAMPUS	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
40 MERCY HOSPITAL OAK CAMPUS	MUSKEGON MI	12,500,000	GAS	\$ 84,600	15.0
41 HOLTON MIDDLE SCHOOL	HOLTON MI	12,050,000	GAS	\$ 81,446	15.1
42 FROEBEL SCHOOL	MUSKEGON MI	12,000,000	GAS	\$ 81,096	15.2
43 ANGELL SCHOOL	MUSKEGON MI	12,000,000	GAS	\$ 81,096	15.2
44 LOGANS ROADHOUSE #401	NORTON SHORES MI	250,000	ELECTRIC	\$ 3,223	15.3
45 NELSON SCHOOL	MUSKEGON MI	11,500,000	GAS	\$ 77,592	15.4
46 L3 COMBAT PROPULSION SYSTEMS	MUSKEGON MI	242,000	ELECTRIC	\$ 3,104	15.4
47 BUNKER SCHOOL	MUSKEGON MI	11,000,000	GAS	\$ 74,088	15.6

APPENDIX B COUNTY SUMMARIES

MUSKEGON

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 BUNKER SCHOOL	MUSKEGON MI	11,000,000	GAS	\$ 74,088	15.6
49 BEKAERT CORPORATION	MUSKEGON MI	10,500,000	GAS	\$ 70,584	15.8
50 AMERICAN COIL SPRING COMPANY	MUSKEGON MI	10,461,000	GAS	\$ 70,311	15.8
51 KNOLL INCORPORATED	MUSKEGON MI	10,460,000	GAS	\$ 70,304	15.8
52 MONA SHORES HIGH SCH	MUSKEGON MI	10,000,000	GAS	\$ 67,080	16.0
53 MONA SHORES HIGH SCH	MUSKEGON MI	10,000,000	GAS	\$ 67,080	16.0
54 RAVENNA JR/SR HIGH	RAVENNA MI	9,000,000	GAS	\$ 61,072	17.3
55 DANA CORPORATION	MUSKEGON MI	8,375,000	GAS	\$ 56,692	18.1
56 LC WALKER ARENA	MUSKEGON MI	8,368,000	GAS	\$ 56,643	18.1
57 LC WALKER ARENA	MUSKEGON MI	8,368,000	GAS	\$ 56,643	18.1
58 REETHS PUFFER HIGH SCHOOL	N MUSKEGON MI	8,008,000	GAS	\$ 54,120	18.5
59 REETHS PUFFER HIGH SCHOOL	N MUSKEGON MI	8,008,000	GAS	\$ 54,120	18.5
60 CMS ENERGY CORPORATION	MUSKEGON MI	8,000,000	GAS	\$ 54,064	18.5
61 YMCA OF GREATER MUSKEGON	MUSKEGON MI	7,500,000	GAS	\$ 50,560	19.1
62 MIDDLE SCHOOL	MUSKEGON MI	7,460,000	GAS	\$ 50,280	19.1
63 HOWMET CORP PLT # 5	WHITEHALL MI	108,000	ELECTRIC	\$ 1,108	19.4
64 NUPAK SOLUTIONS	MUSKEGON MI	7,000,000	GAS	\$ 47,056	19.7
65 MUSKEGON HTS MIDDLE SCH	MUSKEGON HTS MI	6,900,000	GAS	\$ 46,355	19.8
66 MUSKEGON HTS MIDDLE SCH	MUSKEGON HTS MI	6,900,000	GAS	\$ 46,355	19.8

APPENDIX B COUNTY SUMMARIES

NEWAYGO

BTU		FUEL TYPE	
<750,000	205	GAS (Natural Gas)	285
750,001-2,500,000	64	PROPANE	0
2,500,001-5,000,000	13	OIL	13
5,000,001-15,000,000	1	WOOD	3
15,000,001-25,000,000	1	ELECTRIC	5
>25,000,001	3	COAL	0
N/A	19	OTHER	0
TOTAL	306	TOTAL	306

AGE		BOILER USE	
2000-present	55	Hot Water Heat	245
1980-1999	188	Hot Water Supply	35
1960-1979	53	Steam Heating	4
1945-1959	6	Power	10
older than 1945	4	Process Steam	9
N/A	0	Other	3
TOTAL	306	TOTAL	306

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	73
1-5 Years	0	Potential Wood Use	19,661
6-10 years	3	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	0		
Greater than 21 years	300		
TOTAL	306		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 NOVARTIS GERBER PRODUCTS	FREMONT MI	67,500,000	GAS	\$ 463,040	7.8
2 NOVARTIS GERBER PRODUCTS	FREMONT MI	67,500,000	GAS	\$ 463,040	7.8
3 NOVARTIS GERBER PRODUCTS	FREMONT MI	90,000,000	GAS	\$ 620,720	9.4
4 NOVARTIS GERBER PRODUCTS - CORP	FREMONT MI	16,600,000	GAS	\$ 113,333	13.3
5 WM BOLTHOUSE FARMS INC	GRANT MI	500,000	ELECTRIC	\$ 6,946	14.0
6 WM BOLTHOUSE FARMS INC	GRANT MI	300,000	ELECTRIC	\$ 3,968	14.9
7 DONNELLY CORP	NEWAGO MI	6,100,000	GAS	\$ 40,749	20.8
8 WHITE CLOUD HIGH SCHOOL	WHITE CLOUD MI	4,712,000	GAS	\$ 31,522	22.9
9 WHITE CLOUD HIGH SCHOOL	WHITE CLOUD MI	4,712,000	GAS	\$ 31,522	22.9
10 NEWAYGO CTY DAY CARE COR	NEWAYGO MI	1,010,000	OIL	\$ 8,348	23.0
11 FREMONT SOFT TOUCH WASH	FREMONT MI	1,000,000	OIL	\$ 8,260	23.0
12 NEWAYGO UPPER ELEMENTARY	NEWAYGO MI	4,200,000	GAS	\$ 27,934	23.8
13 MAGNA INTERNATIONAL INC	NEWAGO MI	4,184,000	GAS	\$ 27,821	23.8
14 WM BOLTHOUSE FARMS INC	GRANT MI	634,000	OIL	\$ 5,054	24.3
15 NEWAYGO UPPER ELEMENTARY	NEWAYGO MI	3,347,000	GAS	\$ 21,956	25.4
16 NEWAYGO MEDICAL CARE	FREMONT MI	3,250,000	GAS	\$ 21,276	25.6
17 NEWAGO MIDDLE SCHOOL	NEWAGO MI	3,200,000	GAS	\$ 20,926	25.7
18 NEWAGO HIGH SCHOOL	NEWAGO MI	3,200,000	GAS	\$ 20,926	25.7
19 PROVIDENCE CHRISTIAN HS	FREMONT MI	3,103,000	GAS	\$ 20,246	25.9
20 PROVIDENCE CHRISTIAN HS	FREMONT MI	3,103,000	GAS	\$ 20,246	25.9
21 GRANT CHRISTIAN SCHOOL	GRANT MI	400,000	OIL	\$ 3,004	26.1
22 WOODVILLE COMMUNITY CHURCH	WOODVILLE MI	360,000	OIL	\$ 2,654	26.6
23 SOFT TOUCH CAR WASH	FREMONT MI	350,000	OIL	\$ 2,566	26.8
24 SOFT TOUCH CAR WASH	FREMONT MI	350,000	OIL	\$ 2,566	26.8
25 WM BOLTHOUSE FARMS	GRANT MI	350,000	OIL	\$ 2,566	26.8
26 HESPERIA AREA CHILD CTR	WHITE CLOUD MI	324,000	OIL	\$ 2,338	27.3
27 GRANT CHRISTIAN SCHOOL	GRANT MI	300,000	OIL	\$ 2,128	27.8
28 HARVEST BAPTIST	GRANT MI	250,000	OIL	\$ 1,690	29.6
29 OFFICE BLDG	FREMONT MI	200,000	OIL	\$ 1,252	39.9
30 GREAT LAKES ENERGY	NEWAGO MI	115,000	ELECTRIC	\$ 1,213	41.2
31 WHITE CLOUD HIGH SCHOOL	WHITE CLOUD MI	84,000	ELECTRIC	\$ 751	66.6
32 NEWAYGO COUNTY JAIL	WHITE CLOUD MI	1,400,000	GAS	\$ 726	358.5
33 GRAND ELEMENTARY SCHOOL	GRANT MI	1,357,000	GAS	\$ 689	367.3
34 GRANT ELEMENTARY SCHOOL	GRANT MI	1,357,000	GAS	\$ 689	367.3
35 GERBER MEMORIAL HOSPITAL	FREMONT, MI	1,260,000	GAS	\$ 604	391.1

APPENDIX B COUNTY SUMMARIES

OAKLAND

BTU		FUEL TYPE	
<750,000	4267	GAS (Natural Gas)	7955
750,001-2,500,000	2297	PROPANE	4
2,500,001-5,000,000	503	OIL	27
5,000,001-15,000,000	233	WOOD	2
15,000,001-25,000,000	25	ELECTRIC	201
>25,000,001	24	COAL	8
N/A	851	OTHER	3
TOTAL	8200	TOTAL	8200
AGE		BOILER USE	
2000-present	1805	Hot Water Heat	5068
1980-1999	4186	Hot Water Supply	1874
1960-1979	1979	Steam Heating	0
1945-1959	200	Power	533
older than 1945	29	Process Steam	234
N/A	1	Other	491
TOTAL	8200	TOTAL	8200
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	170
1-5 Years	1	Potential Wood Use	219,966
6-10 years	18	(Projects <20 yrs payback)	
11-15 years	99		
16-20 years	155		
Greater than 21 years	7927		
TOTAL	8200		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CENTRAL HEATING PLANT	PONTIAC MI	35,000,000	OIL	\$ 516,220	3.2
2 WILLIAM BEAUMONT HOSPITAL	ROYAL OAK MI	48,186,000	GAS	\$ 332,687	5.9
3 DAIMLER CHRYSLER CORPORATION C	AUBURN HILLS MI	45,948,000	GAS	\$ 317,004	6.1
4 WILLIAM BEAUMONT HOSPITAL	BIRMINGHAM MI	41,840,000	GAS	\$ 288,215	6.4
5 GM TRUCK & BUS ASSEMBLY	PONTIAC MI	40,000,000	GAS	\$ 275,320	6.5
6 GM CORP PONTIAC E TRUCK ASSEM	PONTIAC MI	40,000,000	GAS	\$ 275,320	6.5
7 DAIMLER CHRYSLER CORPORATION C	AUBURN HILLS MI	40,000,000	GAS	\$ 275,320	6.5
8 CENTRAL HEATING PLANT	PONTIAC MI	35,000,000	GAS	\$ 240,280	6.9
9 GM TRUCK AND BUS ASSEMBLY PLANT	PONTIAC MI	32,940,000	GAS	\$ 225,844	7.1
10 GENERAL MOTORS CORP	MILFORD MI	56,788,000	GAS	\$ 387,970	7.1
11 OAKLAND UNIVERSITY	ROCHESTER MI	32,000,000	GAS	\$ 219,256	7.2
12 DUPONT CO AUTO APP CTR	TROY MI	31,380,000	GAS	\$ 214,911	7.2
13 AUBURN HILLS CAMPUS	AUBURN HILLS MI	31,180,000	GAS	\$ 213,509	7.2
14 WILLIAM BEAUMONT HOSPITAL	ROYAL OAK MI	59,000,000	GAS	\$ 403,472	7.2
15 GENERAL MOTORS ORION ASSEMBLY C	LAKE ORION MI	63,040,000	GAS	\$ 431,784	7.5
16 I B M OFFICE BUILDING	SOUTHFIELD MI	3,900,000	ELECTRIC	\$ 80,494	7.8
17 COLOMBIERE CENTER	CLARKSTON MI	8,369,000	OIL	\$ 122,631	8.3
18 REDICO MANAGEMENT	SOUTHFIELD MI	8,369,000	OIL	\$ 122,631	8.3
19 OAKLAND UNIVERSITY	ROCHESTER MI	27,500,000	GAS	\$ 189,720	9.2
20 SPRING MILLS ELEM	HIGHLAND MI	5,231,000	OIL	\$ 75,900	10.0
21 COLOMBIERE COLLEGE	CLARKSTON MI	5,230,000	OIL	\$ 75,885	10.0
22 ST JOSEPH MERCY HOSPITAL	PONTIAC MI	25,106,000	GAS	\$ 172,943	10.1
23 ST JOSEPH MERCY HOSPITAL	PONTIAC MI	25,106,000	GAS	\$ 172,943	10.1
24 SOUTHFIELD TECHNICAL CENTER	SOUTHFIELD MI	25,106,000	GAS	\$ 172,943	10.1
25 WILLIAM BEAUMONT HOSPITAL	TROY MI	25,106,000	GAS	\$ 172,943	10.1
26 WILLAM BEAUMONT HOSPITAL	TROY MI	25,106,000	GAS	\$ 172,943	10.1
27 SOUTHFIELD TECHNICAL CENTER	SOUTHFIELD MI	25,100,000	GAS	\$ 172,901	10.1
28 AUBURN HILLS CAMPUS	AUBURN HILLS MI	25,000,000	GAS	\$ 172,200	10.2
29 DAIMLER CHRYSLER CORPORATION	AUBURN HILLS MI	24,528,000	GAS	\$ 168,892	10.3
30 BOTSFORD HOSPITAL	FARMINGTON HILLS M	24,494,000	GAS	\$ 168,654	10.3
31 WILLIAM BEAUMONT HOSPITAL	TROY MI	24,494,000	GAS	\$ 168,654	10.3
32 WILLIAM BEAUMONT HOSPITAL	TRY MI	24,494,000	GAS	\$ 168,654	10.3
33 H O TRERICE CO	OAK PARK MI	4,620,000	OIL	\$ 67,301	10.6
34 MARSHALL FIELDS	NOVI MI	4,600,000	OIL	\$ 67,003	10.6
35 4000 TOWN CENTER BLDG	SOUTHFIELD MI	4,184,000	OIL	\$ 60,808	10.9
36 4000 TOWN CENTER BLDG	SOUTHFIELD MI	4,184,000	OIL	\$ 60,808	10.9
37 THIRTY NORTH SAGINAW	PONTIAC MI	3,880,000	OIL	\$ 56,281	11.1
38 THE ARCADIS BLDG	SOUTHFIELD MI	3,500,000	OIL	\$ 50,622	11.4
39 ARCADIA BUILDING	SOUTHFIELD MI	3,500,000	OIL	\$ 50,622	11.4
40 PONTIAC OSTEOPATHIC HOSPITAL	PONTIAC MI	21,000,000	GAS	\$ 144,168	11.7
41 PONTIAC OSTEOPATHIC HOSPITAL	PONTIAC MI	21,000,000	GAS	\$ 144,168	11.7
42 PONTIAC OSTEOPATHIC HOSPITAL	PONTIAC MI	21,000,000	GAS	\$ 144,168	11.7
43 NORTHLAND PWR HOUSE	SOUTHFIELD MI	21,000,000	GAS	\$ 144,168	11.7
44 FISHER CORP	TROY MI	20,650,000	GAS	\$ 141,715	11.8
45 PONTIAC GENERAL HOSPITAL	PONTIAC MI	20,022,000	GAS	\$ 137,314	12.0
46 PONTIAC GENERAL HOSPITAL	PONTIAC MI	20,022,000	GAS	\$ 137,314	12.0
47 WALKER WIRE(ISPAT) INC	FERNDAL MI	20,000,000	GAS	\$ 137,160	12.0

APPENDIX B COUNTY SUMMARIES

OAKLAND

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 SHRINE OF LITTLE FLOWER	ROYAL OAK MI	20,000,000	GAS	\$ 137,160	12.0
49 DETROIT EDISON PSC	SYLVAN LAKE MI	2,716,000	ELECTRIC	\$ 38,947	12.1
50 TROY HIGH SCHOOL	TROY MI	2,625,000	ELECTRIC	\$ 37,592	12.1
51 GM ORION POWERHOUSE	LAKE ORION MI	19,492,000	GAS	\$ 133,600	12.2
52 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	2,052,000	ELECTRIC	\$ 29,058	12.7
53 LAKE ORION NURSING HOME	LAKE ORION MI	18,000,000	GAS	\$ 123,144	12.8
54 E I DUPONT	TROY MI	1,296,000	ELECTRIC	\$ 18,800	12.9
55 DETROIT EDISON SERVICE CENTER	ROYAL OAK MI	1,086,400	ELECTRIC	\$ 15,679	13.1
56 DAIMLER/CHRYSLER TECH CENTER	AUBURN HILLS MI	1,026,000	ELECTRIC	\$ 14,779	13.2
57 1420 BUILDING	TROY MI	1,008,000	ELECTRIC	\$ 14,511	13.2
58 1450 BUILDING	TROY MI	1,008,000	ELECTRIC	\$ 14,511	13.2
59 PROVIDENCE HOSPITAL	SOUTHFIELD MI	16,738,000	GAS	\$ 114,300	13.3
60 POWER PLANT	WHITE LAKE MI	16,738,000	GAS	\$ 114,300	13.3
61 POWER PLANT	WHITE LAKE MI	16,738,000	GAS	\$ 114,300	13.3
62 IBM OFFICE BUILDING	SOUTHFIELD MI	900,000	ELECTRIC	\$ 12,903	13.3
63 YAZAKI COMPANY	TROY MI	840,000	ELECTRIC	\$ 12,009	13.4
64 GM PROVING GROUND	MILFORD MI	800,000	ELECTRIC	\$ 11,414	13.5
65 OAKLAND COMMUNITY COLLEG	WATERFORD MI	16,000,000	GAS	\$ 109,128	13.6
66 OAKLAND COMMUNITY COLLEG	WATERFORD MI	16,000,000	GAS	\$ 109,128	13.6
67 HI-TECH MOLD & ENGINE	ROCHESTER HILLS MI	700,000	ELECTRIC	\$ 9,924	13.6
68 MILFORD HIGH SCHOOL	HIGHLAND TOWNSHIP	15,703,000	GAS	\$ 107,047	13.7
69 MILFORD HIGH SCHOOL	HIGHLAND TOWNSHIP	15,703,000	GAS	\$ 107,047	13.7
70 DETROIT EDISON	SOUTHFIELD MI	630,000	ELECTRIC	\$ 8,882	13.7
71 OAKLAND COMMUNITY COLLEGE	FARMINGTON HILLS M	15,064,000	GAS	\$ 102,569	13.9
72 OAKLAND COMMUNITY COLLEGE	FARMINGTON HILLS M	15,064,000	GAS	\$ 102,569	13.9
73 FERNDALE HIGH SCHOOL	FERNDALE MI	15,000,000	GAS	\$ 102,120	14.0
74 FERNDALE HIGH SCHOOL	FERNDALE MI	15,000,000	GAS	\$ 102,120	14.0
75 AKZO NOBEL	TROY MI	530,000	ELECTRIC	\$ 7,393	14.0
76 GENERAL MOTORS CORP ORION ASSEM	LAKE ORION MI	492,480	ELECTRIC	\$ 6,834	14.1
77 JEFFERSON/WHITTIER J HGH	PONTIAC MI	14,700,000	GAS	\$ 100,018	14.1
78 MOTT SENIOR HIGH SCHOOL	WATERFORD MI	14,680,000	GAS	\$ 99,877	14.1
79 COOPER STANDARD	AUBURN HILLS	483,000	ELECTRIC	\$ 6,693	14.1
80 DU PONT CO AUTO APP CTR	TROY MI	14,650,000	GAS	\$ 99,667	14.1
81 MOTT SENIOR HIGH SCHOOL	WATERFORD MI	14,648,000	GAS	\$ 99,653	14.1
82 NEW HIGH SCHOOL	ORTONVILLE MI	14,646,000	GAS	\$ 99,639	14.1
83 NEW HIGH SCHOOL	ORTONVILLE MI	14,646,000	GAS	\$ 99,639	14.1
84 IBM OFFICE BUILDING	SOUTHFIELD MI	460,000	ELECTRIC	\$ 6,350	14.2
85 PONTIAC OSTEOPATHIC HOSPITAL	PONTIAC MI	14,440,000	GAS	\$ 98,196	14.2
86 GM BOC GROUP	LAKE ORION MI	427,500	ELECTRIC	\$ 5,866	14.3
87 RED OX	AUBURN HILLS MI	400,000	ELECTRIC	\$ 5,457	14.4
88 SIGN OF THE BEEFCARVER	ROYAL OAK MI	399,000	ELECTRIC	\$ 5,442	14.4
89 I B M OFFICE BUILDING	SOUTHFIELD MI	390,000	ELECTRIC	\$ 5,308	14.4
90 DINERS GREENHOUSE	NOVI MI	13,800,000	GAS	\$ 93,710	14.4
91 OAKLAND UNIVERSITY ANIMAL CARE	ROCHESTER HILLS MI	360,000	ELECTRIC	\$ 4,861	14.5
92 OWEN'S CORNING AUTOMOTIVE	NOVI MI	357,000	ELECTRIC	\$ 4,816	14.6
93 AKEBONO ENGINEERING CENTER	FARMINGTON HILLS M	357,000	ELECTRIC	\$ 4,816	14.6
94 DENSO INTERNATIONAL AMERICA	SOUTHFIELD MI	350,000	ELECTRIC	\$ 4,712	14.6
95 OAK PARK HIGH SCHOOL	OAK PARK MI	13,390,000	GAS	\$ 90,837	14.6
96 TOWERS OF SOUTHFIELD	SOUTHFIELD MI	13,371,000	GAS	\$ 90,704	14.6
97 ANDERSONVILLE ELEMENTARY SCHOOL	DAVISBURG MI	13,366,000	GAS	\$ 90,669	14.6
98 DAIMLER/CHRYSLER TECH CENTER	AUBURN HILLS MI	342,000	ELECTRIC	\$ 4,593	14.6
99 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	342,000	ELECTRIC	\$ 4,593	14.6
100 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	342,000	ELECTRIC	\$ 4,593	14.6
101 COLLIER'S BLDG	BINGHAM FARMS MI	13,040,000	GAS	\$ 88,384	14.7
102 GENERAL MOTORS CORP	MILFORD MI	300,000	ELECTRIC	\$ 3,968	14.9
103 DAIMLER CHRYSLER CORPORATION CIVIL	AUBURN HILLS MI	12,644,000	GAS	\$ 85,609	14.9
104 GM-NATP TRUCK PROD CTR	PONTIAC MI	12,600,000	GAS	\$ 85,301	14.9
105 G M-NATP TRUCK PROD CTR	PONTIAC MI	12,600,000	GAS	\$ 85,301	14.9
106 NOVI HIGH SCHOOL	NOVI MI	12,560,000	GAS	\$ 85,020	14.9
107 3000 TOWN CENTER BLDG	SOUTHFIELD MI	12,555,000	GAS	\$ 84,985	14.9
108 MASON MIDDLE SCHOOL	WATERFORD MI	12,555,000	GAS	\$ 84,985	14.9
109 JEFFERSON JHS	PONTIAC MI	12,555,000	GAS	\$ 84,985	14.9
110 MASON MIDDLE SCHOOL	WATERFORD MI	12,555,000	GAS	\$ 84,985	14.9
111 3000 TOWN CENTER BLDG	SOUTHFIELD MI	12,554,000	GAS	\$ 84,978	14.9
112 FARMINGTON HIGH SCH	FARMINGTON HILLS M	12,554,000	GAS	\$ 84,978	14.9
113 FARMINGTON HIGH SCHOOL	FARMINGTON HILLS M	12,554,000	GAS	\$ 84,978	14.9
114 WIXOM ASSEMBLY PLANT	WIXOM MI	12,554,000	GAS	\$ 84,978	14.9
115 WIXOM ASSEMBLY PLANT	WIXOM MI	12,554,000	GAS	\$ 84,978	14.9
116 TROY HIGH SCHOOL	TROY MI	12,500,000	GAS	\$ 84,600	15.0
117 HARRISON HIGH SCHOOL	FARMINGTON HILLS M	12,500,000	GAS	\$ 84,600	15.0
118 TROY HIGH SCHOOL	TROY MI	12,500,000	GAS	\$ 84,600	15.0
119 MADISON HIGH SCHOOL	MADISON HEIGHTS MI	12,303,000	GAS	\$ 83,219	15.0
120 CLASSIC TOUCH	AUBURN HILLS MI	12,225,500	GAS	\$ 82,676	15.1
121 THE DETROIT MEDICAL CENTER	COMMERCE TWP MI	12,200,000	GAS	\$ 82,498	15.1
122 THE DETROIT MEDICAL CENTER	COMMERCE TOWNSHIP MI	12,200,000	GAS	\$ 82,498	15.1
123 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	256,500	ELECTRIC	\$ 3,320	15.3

APPENDIX B COUNTY SUMMARIES

OAKLAND

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
124 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	256,500	ELECTRIC	\$ 3,320	15.3
125 WALKER WIRE AND STEEL CO	FERNDAL MI	11,717,000	GAS	\$ 79,113	15.3
126 DINSERS GREENHOUSE	NOVI MI	11,716,000	GAS	\$ 79,106	15.3
127 TOWN TUB	WATERFORD MI	11,247,000	GAS	\$ 75,819	15.5
128 MILLENNIUM	SOUTH LYON MI	11,160,000	GAS	\$ 75,209	15.5
129 OAKLAND UNIVERSITY	ROCHESTER MI	11,110,000	GAS	\$ 74,859	15.5
130 OAKLAND UNIVERSITY	ROCHESTER MI	11,110,000	GAS	\$ 74,859	15.5
131 MARSHALL FIELDS	TROY MI	223,000	ELECTRIC	\$ 2,821	15.6
132 UNIFIRST CORP	PONTIAC MI	10,500,000	GAS	\$ 70,584	15.8
133 ANDOVER HIGH SCHOOL	BLOOMFIELD TWP MI	10,500,000	GAS	\$ 70,584	15.8
134 TOWNSEND HOTEL	BIRMINGHAM MI	210,000	ELECTRIC	\$ 2,627	15.8
135 TOWNSEND HOTEL	BIRMINGHAM MI	210,000	ELECTRIC	\$ 2,627	15.8
136 ROBERT BOSCH GMBH	FARMINGTON HILLS MI	10,463,000	GAS	\$ 70,325	15.8
137 PONTIAC CENTRAL HIGH SCH	PONTIAC MI	10,463,000	GAS	\$ 70,325	15.8
138 PONTIAC CENTRAL HIGH SCH	PONTIAC MI	10,463,000	GAS	\$ 70,325	15.8
139 ATHENS HIGH SCHOOL	TROY MI	10,463,000	GAS	\$ 70,325	15.8
140 ATHENS HIGH SCHOOL	TROY MI	10,463,000	GAS	\$ 70,325	15.8
141 ROBERT BOSCH GMBH	FARMINGTON HILLS MI	10,462,000	GAS	\$ 70,318	15.8
142 THE DETROIT MEDICAL CENTER	COMMERCE TOWNSHIP MI	10,462,000	GAS	\$ 70,318	15.8
143 KIRK IN THE HILLS	BLOOMFIELD HILLS MI	10,461,000	GAS	\$ 70,311	15.8
144 HAZEL PARK HIGH SCHOOL	HAZEL PARK MI	10,461,000	GAS	\$ 70,311	15.8
145 HAZEL PARK HIGH SCHOOL	HAZEL PARK MI	10,461,000	GAS	\$ 70,311	15.8
146 EMERALD STEEL PROCESS	MADISON HEIGHTS MI	10,461,000	GAS	\$ 70,311	15.8
147 KIRK IN THE HILLS	BLOOMFIELD HILLS MI	10,461,000	GAS	\$ 70,311	15.8
148 EMERALD STEEL PROCESS	MADISON HEIGHTS MI	10,461,000	GAS	\$ 70,311	15.8
149 EATON CORPORATION ET AL	SOUTHFIELD MI	10,450,000	GAS	\$ 70,234	15.8
150 BERKLEY SR HIGH SCH	BERKLEY MI	10,345,000	GAS	\$ 69,498	15.9
151 BERKLEY SR HIGH SCH	BERKLEY MI	10,345,000	GAS	\$ 69,498	15.9
152 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	205,200	ELECTRIC	\$ 2,556	15.9
153 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	205,200	ELECTRIC	\$ 2,556	15.9
154 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	205,200	ELECTRIC	\$ 2,556	15.9
155 DAIMLER/CHRYSLER 4810227	AUBURN HILLS MI	205,200	ELECTRIC	\$ 2,556	15.9
156 WALDON MIDDLE SCHOOL	LAKE ORION MI	200,000	ELECTRIC	\$ 2,478	16.0
157 SE OAKLAND TECHNICAL CENTER	ROYAL OAK MI	200,000	ELECTRIC	\$ 2,478	16.0
158 CHAMMPS RESTAURANT	WEST BLOOMFIELD MI	200,000	ELECTRIC	\$ 2,478	16.0
159 TAM O SHANTER	WEST BLOOMFIELD MI	200,000	ELECTRIC	\$ 2,478	16.0
160 BERKLEY HIGH SCHOOL	BERKLEY MI	200,000	ELECTRIC	\$ 2,478	16.0
161 SE OAKLAND TECHNICAL CENTER	ROYAL OAK MI	200,000	ELECTRIC	\$ 2,478	16.0
162 OAKLAND COMM COLLEGE	FARMINGTON HILLS MI	10,042,000	GAS	\$ 67,374	16.0
163 CRANBROOK HOUSE	BLOOMFIELD HILLS MI	10,000,000	GAS	\$ 67,080	16.0
164 FANUC ROBOTICS AMERICA INC	ROCHESTER HILLS MI	10,000,000	GAS	\$ 67,080	16.0
165 FANUC ROBOTICS AMERICA INC	ROCHESTER HILLS MI	10,000,000	GAS	\$ 67,080	16.0
166 KIMBALL HIGH SCHOOL	ROYAL OAK MI	10,000,000	GAS	\$ 67,080	16.0
167 KIMBALL HIGH SCHOOL	ROYAL OAK MI	10,000,000	GAS	\$ 67,080	16.0
168 DONDERO HIGH SCHOOL	ROYAL OAK MI	10,000,000	GAS	\$ 67,080	16.0
169 DONDERO HIGH SCHOOL	ROYAL OAK MI	10,000,000	GAS	\$ 67,080	16.0
170 52-3 DISTRICT COURT	ROCHESTER HILLS MI	190,000	ELECTRIC	\$ 2,329	16.2
171 DAIMLER CORPORATION 4820212	AUBURN HILLS MI	190,000	ELECTRIC	\$ 2,329	16.2
172 A C O INC	FARMINGTON HILLS MI	189,000	ELECTRIC	\$ 2,315	16.2
173 ANDOVER HIGH SCHOOL	BLOOMFIELD TWP MI	9,965,000	GAS	\$ 67,835	16.2
174 SOUTH LYON HIGH SCHOOL	SOUTH LYON MI	180,000	ELECTRIC	\$ 2,181	16.4
175 CRANBROOK ACADEMY OF ART	BLOOMFIELD HILLS MI	9,800,000	GAS	\$ 66,678	16.4
176 HI-TECH MOLD & ENGINEERING	ROCHESTER HILLS MI	175,000	ELECTRIC	\$ 2,106	16.5
177 HI-TECH MOLD & ENGINEERING	ROCHESTER HILLS MI	175,000	ELECTRIC	\$ 2,106	16.5
178 CMS ENERGY CORPORATION	PONTIAC MI	9,683,000	GAS	\$ 65,858	16.5
179 GM OFFICE CENTER	PONTIAC MI	168,000	ELECTRIC	\$ 2,002	16.6
180 SOMERSET INN	TROY MI	168,000	ELECTRIC	\$ 2,002	16.6
181 GM BOC GROUP	LAKE ORION MI	164,160	ELECTRIC	\$ 1,945	16.7
182 GM BOC GROUP	LAKE ORION MI	164,160	ELECTRIC	\$ 1,945	16.7
183 OAKLAND COMMUNITY COLLEGE	AUBURN HILLS MI	9,470,000	GAS	\$ 64,366	16.8
184 CRANBROOK SCH. FOR BOYS	BLOOMFIELD HILLS MI	9,240,000	GAS	\$ 62,754	17.0
185 CRANBROOK SCH FOR BOYS	BLOOMFIELD HILLS MI	9,240,000	GAS	\$ 62,754	17.0
186 OXFORD HIGH SCHOOL	OXFORD MI	9,000,000	GAS	\$ 61,072	17.3
187 OXFORD HIGH SCHOOL	OXFORD MI	9,000,000	GAS	\$ 61,072	17.3
188 OXFORD HIGH SCHOOL	OXFORD MI	9,000,000	GAS	\$ 61,072	17.3
189 OAKLAND COMMUNITY COLLEGE	ROYAL OAK MI	9,000,000	GAS	\$ 61,072	17.3
190 OAKLAND COMMUNITY COLLEGE	ROYAL OAK MI	9,000,000	GAS	\$ 61,072	17.3
191 OAKLAND COMMUNITY COLLEGE	ROYAL OAK MI	9,000,000	GAS	\$ 61,072	17.3
192 MC DONNELL TOWERS	SOUTHFIELD MI	9,000,000	GAS	\$ 61,072	17.3
193 BOGIE LAKE GREEN HOUSE	WHITE LAKE MI	9,000,000	GAS	\$ 61,072	17.3
194 AKEBONO ENGINEERING CENTER	FARMINGTON HILLS MI	140,000	ELECTRIC	\$ 1,585	17.5
195 AKEBONO ENGINEERING CENTER	FARMINGTON HILLS MI	140,000	ELECTRIC	\$ 1,585	17.5
196 AKEBONO ENGINEERING CENTER	FARMINGTON HILLS MI	140,000	ELECTRIC	\$ 1,585	17.5
197 OAKS MALL	NOVI MI	140,000	ELECTRIC	\$ 1,585	17.5
198 AKEBONO ENGINEERING CENTER	FARMINGTON HILLS MI	140,000	ELECTRIC	\$ 1,585	17.5
199 CROWNE PLAZA	NOVI MI	140,000	ELECTRIC	\$ 1,585	17.5

APPENDIX B COUNTY SUMMARIES

OAKLAND

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
200 BORDINE NURSERY	ROCHESTER HILLS MI	8,656,000	GAS	\$ 58,661	17.7
201 BORDINE NURSERY	ROCHESTER HILLS MI	8,656,000	GAS	\$ 58,661	17.7
202 NEW HOLLY HIGH SCHOOL	HOLLY MI	135,000	ELECTRIC	\$ 1,510	17.8
203 TEMPLE SHIR SHALLOM	WEST BLOOMFIELD MI	131,000	ELECTRIC	\$ 1,451	17.9
204 WATERFORD KETTERING HIGH	WATERFORD MI	8,440,000	GAS	\$ 57,148	18.0
205 WATERFORD KETTERING HIGH	WATERFORD MI	8,440,000	GAS	\$ 57,148	18.0
206 KNOLLWOOD COUNTRY CLUB	W BLOOMFIELD MI	130,000	ELECTRIC	\$ 1,436	18.0
207 NORUP MIDDLE SCHOOL	OAK PARK MI	8,400,000	GAS	\$ 56,867	18.0
208 NORUP MIDDLE SCHOOL	OAK PARK MI	8,400,000	GAS	\$ 56,867	18.0
209 OPENIGAS INC	PONTIAC MI	8,400,000	GAS	\$ 56,867	18.0
210 MARSHAL FIELDS	WATERFORD MI	8,375,000	GAS	\$ 56,692	18.1
211 FEDERAL MOGUL CORPORATION	SOUTHFIELD MI	8,375,000	GAS	\$ 56,692	18.1
212 DAIMLER CHRYSLER 481-0227	AUBURN HILLS MI	8,370,000	GAS	\$ 56,657	18.1
213 DAIMLER CHRYSLER 481-0227	AUBURN HILLS MI	8,370,000	GAS	\$ 56,657	18.1
214 ROBERT BOSCH GMBH	FARMINGTON HILLS M	8,370,000	GAS	\$ 56,657	18.1
215 MAVERICK TUBE	FERNDAL MI	8,370,000	GAS	\$ 56,657	18.1
216 WEST BLOOMFIELD HIGH SCHOOL	WEST BLOOMFIELD MI	8,370,000	GAS	\$ 56,657	18.1
217 WEST BLOOMFIELD HIGH SCHOOL	WEST BLOOMFIELD MI	8,370,000	GAS	\$ 56,657	18.1
218 BERKLEY HIGH SCHOOL	BERKLEY MI	8,369,000	GAS	\$ 56,650	18.1
219 HOWARD FINISHING LLC	MADISON HEIGHTS MI	8,369,000	GAS	\$ 56,650	18.1
220 1000 TOWN CENTER BUILDING	SOUTHFIELD MI	8,369,000	GAS	\$ 56,650	18.1
221 LAHSER HIGH SCHOOL	BLOOMFIELD HILLS MI	8,369,000	GAS	\$ 56,650	18.1
222 LAHSER HIGH SCHOOL	BLOOMFIELD HILLS MI	8,369,000	GAS	\$ 56,650	18.1
223 ROOSEVELT MIDDLE SCHOOL	OAK PARK MI	8,369,000	GAS	\$ 56,650	18.1
224 ROOSEVELT MIDDLE SCHOOL	OAK PARK MI	8,369,000	GAS	\$ 56,650	18.1
225 FEDERAL MOGUL CORPORATION	SOUTHFIELD MI	8,369,000	GAS	\$ 56,650	18.1
226 COLOMBIERE CENTER	CLARKSTON MI	8,310,000	GAS	\$ 56,236	18.1
227 LIFETIME FITNESS	ROCHESTER HILLS MI	126,000	ELECTRIC	\$ 1,376	18.2
228 LIFETIME FITNESS	ROCHESTER HILLS MI	126,000	ELECTRIC	\$ 1,376	18.2
229 LIFETIME FITNESS CENTER	ROCHESTER HILLS MI	126,000	ELECTRIC	\$ 1,376	18.2
230 LIFETIME FITNESS	TROY MI	126,000	ELECTRIC	\$ 1,376	18.2
231 LIFETIME FITNESS	TROY MI	126,000	ELECTRIC	\$ 1,376	18.2
232 GENERAL MOTORS BOC GROUP	LAKE ORION MI	123,120	ELECTRIC	\$ 1,334	18.4
233 KARL RICHTER CAMPUS	HOLLY MI	8,000,000	GAS	\$ 54,064	18.5
234 KARL RICHTER CAMPUS	HOLLY MI	8,000,000	GAS	\$ 54,064	18.5
235 GM CORP TPC NORTH	PONTIAC MI	8,000,000	GAS	\$ 54,064	18.5
236 GM CORP TPC NORTH	PONTIAC MI	8,000,000	GAS	\$ 54,064	18.5
237 GM CORP TPC NORTH	PONTIAC MI	8,000,000	GAS	\$ 54,064	18.5
238 CHURCHILL SCHOOL BUILDING	ROYAL OAK MI	8,000,000	GAS	\$ 54,064	18.5
239 BEECH WOOD ARENA	SOUTHFIELD MI	8,000,000	GAS	\$ 54,064	18.5
240 AT & T	SOUTHFIELD MI	120,000	ELECTRIC	\$ 1,287	18.5
241 OAKLAND COMMUNITY COLLEGE	SOUTHFIELD MI	7,730,000	GAS	\$ 52,172	18.8
242 OAKLAND COMMUNITY COLLEGE	SOUTHFIELD MI	7,730,000	GAS	\$ 52,172	18.8
243 LAKEVILLE ELEMENTARY	OXFORD MI	7,625,000	GAS	\$ 51,436	18.9
244 LAKEVILLE ELEMENTARY	OXFORD MI	7,625,000	GAS	\$ 51,436	18.9
245 BLOOMFIELD HILLS COUNTRY CLUB	BLOOMFIELD HILLS MI	112,000	ELECTRIC	\$ 1,168	19.1
246 LAKE ORION MIDDLE SCH	LAKE ORION MI	110,000	ELECTRIC	\$ 1,138	19.2
247 SEARS ROEBUCK CO	TROY MI	7,144,000	GAS	\$ 48,065	19.5
248 SIEMENS AUTOMOTIVE	AUBURN HILLS MI	7,071,080	GAS	\$ 47,554	19.6
249 SIEMENS AUTOMOTIVE	AUBURN HILLS MI	7,071,000	GAS	\$ 47,554	19.6
250 OAKLAND SCHOOL	ROYAL OAK MI	7,071,000	GAS	\$ 47,554	19.6
251 MILLMAN-DERR EYE CARECTR	ROCHESTER HILLS MI	105,000	ELECTRIC	\$ 1,064	19.6
252 SUN STEEL TREATING INC	SOUTH LYON MI	105,000	ELECTRIC	\$ 1,064	19.6
253 MACYS	TROY MI	105,000	ELECTRIC	\$ 1,064	19.6
254 WATERFORD AMB CARE CTR	WATERFORD MI	105,000	ELECTRIC	\$ 1,064	19.6
255 OAKLAND SURGICAL CENTER	ROCHESTER HILLS MI	105,000	ELECTRIC	\$ 1,064	19.6
256 DENAY CLEANERS	TROY MI	105,000	ELECTRIC	\$ 1,064	19.6
257 JEWISH COMMUNITY CENTER	WEST BLOOMFIELD MI	105,000	ELECTRIC	\$ 1,064	19.6
258 PAGE MIDDLE SCHOOL	MADISON HEIGHTS MI	7,000,000	GAS	\$ 47,056	19.7
259 PAGE MIDDLE SCHOOL	MADISON HEIGHTS MI	7,000,000	GAS	\$ 47,056	19.7
260 PHILIP A HART MIDDLE SCH	ROCHESTER HILLS MI	7,000,000	GAS	\$ 47,056	19.7
261 PHILIP A HART MIDDLE SCH	ROCHESTER HILLS MI	7,000,000	GAS	\$ 47,056	19.7
262 BRACE-LEDERLE ELEMENTARY SCHOOL	SOUTHFIELD MI	7,000,000	GAS	\$ 47,056	19.7
263 HOLLY HIGH SCHOOL	HOLLY MI	6,947,000	GAS	\$ 46,685	19.8
264 HOLLY HIGH SCHOOL	HOLLY MI	6,947,000	GAS	\$ 46,685	19.8
265 HANA KARCHO	FARMINGTON HILLS M	103,000	ELECTRIC	\$ 1,034	19.8
266 GRANT STREET CLEANERS	BIRMINGHAM MI	6,900,000	GAS	\$ 46,355	19.8
267 DIAL CLEANERS	PONTIAC MI	6,900,000	GAS	\$ 46,355	19.8
268 WESTERN HIGH SCHOOL	WALLED LAKE MI	6,900,000	GAS	\$ 46,355	19.8
269 WESTERN HIGH SCHOOL	WALLED LAKE MI	6,900,000	GAS	\$ 46,355	19.8
270 KNOLLWOOD COUNTRY CLUB	WEST BLOOMFIELD MI	102,000	ELECTRIC	\$ 1,019	19.9
271 KNOLLWOOD COUNTRY CLUB	WEST BLOOMFIELD MI	102,000	ELECTRIC	\$ 1,019	19.9
272 CLAWSON MIDDLE SCHOOL	CLAWSON MI	6,800,000	GAS	\$ 45,654	20.0
273 CLAWSON MIDDLE SCHOOL	CLAWSON MI	6,800,000	GAS	\$ 45,654	20.0

APPENDIX B COUNTY SUMMARIES

OCEANA

BTU		FUEL TYPE	
<750,000	109	GAS (Natural Gas)	151
750,001-2,500,000	28	PROPANE	0
2,500,001-5,000,000	3	OIL	9
5,000,001-15,000,000	8	WOOD	0
15,000,001-25,000,000	3	ELECTRIC	1
>25,000,001	2	COAL	0
N/A	8	OTHER	0
TOTAL	161	TOTAL	161
AGE		BOILER USE	
2000-present	34	Hot Water Heat	116
1980-1999	94	Hot Water Supply	21
1960-1979	30	Steam Heating	5
1945-1959	3	Power	15
older than 1945	0	Process Steam	4
N/A	0	Other	0
TOTAL	161	TOTAL	161
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	25,934
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	9		
16-20 years	3		
Greater than 21 years	148		
TOTAL	161		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CHASE FARMS	WALKERVILLE MI	27,600,000	GAS	\$ 190,421	9.2
2 NEW ERA CANNING COMPANY	NEW ERA MI	24,056,000	GAS	\$ 165,584	10.5
3 NEW ERA CANNING COMPANY	NEW ERA MI	24,056,000	GAS	\$ 165,584	10.5
4 GRAY AND COMPANY	HART MI	125,540,000	GAS	\$ 869,784	11.9
5 NEW ERA CANNING COMPANY	NEW ERA MI	17,800,000	GAS	\$ 121,742	12.9
6 INDIAN SUMMERS	HART MI	14,646,000	GAS	\$ 99,639	14.1
7 MICHIGAN FREEZE PAK	HART MI	14,645,000	GAS	\$ 99,632	14.1
8 INDIAN SUMMERS	HART MI	14,500,000	GAS	\$ 98,616	14.2
9 PETERSON FARMS	SHELBY MI	14,000,000	GAS	\$ 95,112	14.4
10 GRAY & COMPANY	HART MI	12,553,000	GAS	\$ 84,971	14.9
11 CHASE FARMS	WALKERVILLE MI	11,500,000	GAS	\$ 77,592	15.4
12 MICH FREEZE PARK	HART MI	10,461,000	GAS	\$ 70,311	15.8
13 OCEANA FOODS	SHELBY MI	8,375,000	GAS	\$ 56,692	18.1
14 MHA SERVICE CORPORATION	SHELBY MI	2,000,000	OIL	\$ 16,020	22.5
15 MHA SERVICE CORPORATION	SHELBY MI	2,000,000	OIL	\$ 16,020	22.5
16 OCEANA CO RD COMM	SHELBY MI	792,000	OIL	\$ 6,438	23.6
17 HESPERIA JR SR HIGH SCHOOL	HESPERIA MI	4,200,000	GAS	\$ 27,934	23.8
18 SHELBY HIGH SCHOOL	SHELBY MI	3,360,000	GAS	\$ 22,047	25.4
19 SHELBY HIGH SCHOOL	SHELBY MI	3,360,000	GAS	\$ 22,047	25.4
20 ELBRIDGE ELEMENTARY	HART MI	259,000	OIL	\$ 1,769	28.9
21 ELBRIDGE ELEMENTARY	HART MI	259,000	OIL	\$ 1,769	28.9
22 OCEANA HOUSE	HART MI	251,000	OIL	\$ 1,699	29.2
23 SENIORS AT HART	HART MI	233,000	OIL	\$ 1,541	29.9
24 ELDRIDGE COMM. CHURCH	HART MI	151,000	OIL	\$ 823	36.4
25 MIDDLE SCHOOL	SHELBY MI	1,440,000	GAS	\$ 761	351.0
26 OCEANA COUNTY BUILDING	HART MI	1,380,000	GAS	\$ 709	362.5
27 WALKERVILLE RURAL SCHOOLS	WALKERVILLE MI	1,260,000	GAS	\$ 604	391.1
28 WALKERVILLE RURAL SCHOOL	WALKERVILLE MI	1,260,000	GAS	\$ 604	391.1
29 THOMAS READ GYM	SHELBY MI	1,260,000	GAS	\$ 604	391.1
30 ROTHBURY SCHOOL	ROTHBURY MI	1,200,000	GAS	\$ 551	409.3
31 COUNTY JAIL	HART MI	1,160,000	GAS	\$ 516	423.4
32 NEW ERA CHRIST. SCHOOL	NEW ERA MI	1,080,000	GAS	\$ 446	458.1
33 VIEWHOME FARM CTRY DAIRY	NEW ERA MI	1,050,000	GAS	\$ 420	474.0
34 VIEWHOME FARM COUNTRY	NEW ERA MI	1,050,000	GAS	\$ 420	474.0
35 HANSON COLD STORAGE	HART MI	1,020,000	GAS	\$ 394	492.0

APPENDIX B COUNTY SUMMARIES

OGEMAW

BTU		FUEL TYPE	
<750,000	157	GAS (Natural Gas)	189
750,001-2,500,000	22	PROPANE	0
2,500,001-5,000,000	5	OIL	5
5,000,001-15,000,000	6	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	0	COAL	0
N/A	8	OTHER	0
TOTAL	198	TOTAL	198

AGE		BOILER USE	
2000-present	60	Hot Water Heat	154
1980-1999	108	Hot Water Supply	25
1960-1979	29	Steam Heating	10
1945-1959	1	Power	7
older than 1945	0	Process Steam	2
N/A	0	Other	0
TOTAL	198	TOTAL	198

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	589
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	0		
Greater than 21 years	196		
TOTAL	198		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 SANDVIK AB	WEST BRANCH MI	6,615,000	ELECTRIC	\$ 137,074	6.5
2 SANDVIK AB	WEST BRANCH MI	644,000	ELECTRIC	\$ 9,090	13.7
3 MEDICAL ARTS CENTER	WEST BRANCH MI	6,277,000	GAS	\$ 41,989	20.6
4 WEST BRANCH REGIONAL MEDICAL CEN	WEST BRANCH MI	5,500,000	GAS	\$ 36,544	21.6
5 WEST BRANCH REGIONAL MEDICAL CEN	WEST BRANCH MI	5,500,000	GAS	\$ 36,544	21.6
6 WEST BRANCH REGIONAL MEDICAL CEN	WEST BRANCH MI	5,500,000	GAS	\$ 36,544	21.6
7 WOODSTOCK PRESERVING INC	WEST BRANCH MI	5,234,000	GAS	\$ 34,680	22.0
8 OGEMAW HEIGHTS HIGH SCHOOL	WEST BRANCH MI	4,250,000	GAS	\$ 28,284	23.7
9 OGEMAW HEIGHTS HIGH SCHOOL	WEST BRANCH MI	4,250,000	GAS	\$ 28,284	23.7
10 OGEMAW HEIGHTS HIGH	WEST BRANCH MI	4,250,000	GAS	\$ 28,284	23.7
11 MEDICAL ARTS CENTER	WEST BRANCH MI	4,185,000	GAS	\$ 27,828	23.8
12 LOYAL ORDER OF MOOSE	WEST BRANCH MI	490,000	OIL	\$ 3,792	25.2
13 ROSE CITY MIDDLE SCHOOL	ROSE CITY MI	3,000,000	GAS	\$ 19,524	26.1
14 WOODLANDS	HALE MI	380,000	OIL	\$ 2,829	26.4
15 KENYONS RESORT	LUPTON MI	327,000	OIL	\$ 2,365	27.2
16 CLEAR LAKE BAR	WEST BRANCH MI	261,000	OIL	\$ 1,786	28.8
17 ASSOCIATED MINISTRIES GODS COVEN	PRESCOTT MI	245,000	OIL	\$ 1,646	29.4
18 WEST BRANCH REGIONAL MEDICAL CEN	WEST BRANCH MI	75,000	ELECTRIC	\$ 617	32.4
19 WEST BRANCH REGIONAL MEDICAL CEN	WEST BRANCH MI	75,000	ELECTRIC	\$ 617	32.4
20 SURLINE ELEMENTARY	WEST BRANCH, MI	1,470,000	GAS	\$ 788	345.8
21 WEST BRANCH ELEMENTARY SCHOOL	WEST BRANCH, MI	1,470,000	GAS	\$ 788	345.8
22 SURLINE MIDDLE SCHOOL	WEST BRANCH MI	1,125,000	GAS	\$ 486	437.4
23 SURLINE MIDDLE	WEST BRANCH MI	1,125,000	GAS	\$ 486	437.4
24 SURLINE MIDDLE	WEST BRANCH MI	1,125,000	GAS	\$ 486	437.4
25 OGEMAW COUNTY BOARD OF PUBLIC W	WEST BRANCH MI	1,050,000	GAS	\$ 420	474.0
26 ST JOSEPH CATHOLIC SCHOOL	W BRANCH MI	1,050,000	GAS	\$ 420	474.0
27 ST JOSEPH CATHOLIC SCHOOL	WEST BRANCH MI	1,050,000	GAS	\$ 420	474.0
28 OGEMAW HEIGHTS HIGH SCHOOL	WEST BRANCH MI	961,700	GAS	\$ 342	534.7
29 WEST BRANCH CLEANERS	WEST BRANCH MI	961,700	GAS	\$ 342	534.7
30 OGEMAW COUNTY BOARD OF PUBLIC W	WEST BRANCH MI	950,000	GAS	\$ 332	544.8
31 ROSE CITY MIDDLE SCHOOL	ROSE CITY MI	750,000	GAS	\$ 157	919.6
32 THE BROOK	WEST BRANCH MI	750,000	GAS	\$ 157	919.6
33 THE BROOK	WEST BRANCH MI	750,000	GAS	\$ 157	919.6
34 THE BROOK	WEST BRANCH MI	750,000	GAS	\$ 157	919.6
35 MAPLEWOOD MANOR	WEST BRANCH MI	750,000	GAS	\$ 157	919.6

APPENDIX B COUNTY SUMMARIES

ONTONAGON

BTU		FUEL TYPE	
<750,000	99	GAS (Natural Gas)	116
750,001-2,500,000	12	PROPANE	0
2,500,001-5,000,000	4	OIL	17
5,000,001-15,000,000	1	WOOD	4
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	1	COAL	1
N/A	23	OTHER	0
TOTAL	140	TOTAL	140

AGE		BOILER USE	
2000-present	17	Hot Water Heat	108
1980-1999	82	Hot Water Supply	8
1960-1979	34	Steam Heating	11
1945-1959	6	Power	11
older than 1945	1	Process Steam	1
N/A	0	Other	1
TOTAL	140	TOTAL	140

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	888
1-5 Years	0	Potential Wood Use	2,037
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	0		
Greater than 21 years	139		
TOTAL	140		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 WHITE PINE ELECTRICTRIC POWER LLC	WHITE PINE MI	25,110,000	GAS	\$ 172,971	10.1
2 ONTONAGON COUNTY JAIL	ONTONAGON MI	5,500,000	GAS	\$ 36,544	21.6
3 MASS CITY ALTERNATIVE SH	MASS CITY MI	2,161,000	OIL	\$ 17,430	22.1
4 ONTONAGON COUNTY RD COMM	ONTONAGON MI	2,100,000	OIL	\$ 16,896	22.2
5 ONTONAGON MEMORIAL HOSP	ONTONAGON MI	3,766,000	GAS	\$ 24,892	24.6
6 WALLEYE LODGE	BERGLAND MI	510,000	OIL	\$ 3,968	25.1
7 BEER BELLY BOBS PUB-N-GRUB	GREENLAND MI	400,000	OIL	\$ 3,004	26.1
8 CHANCES HARDWARD AND LUMBER	MASS CITY MI	400,000	OIL	\$ 3,004	26.1
9 HARBOR HOUSE	ONTONAGON MI	300,000	OIL	\$ 2,128	27.8
10 HENRY'S INN	ROCKLAND MI	275,000	OIL	\$ 1,909	28.4
11 SILVER SANDS MOTEL	SILVER CITY MI	210,000	OIL	\$ 1,340	31.0
12 SILVER SANDS MOTEL	SILVER CITY MI	210,000	OIL	\$ 1,340	31.0
13 ST PAULS LUTHERAN CHURCH	MASS CITY MI	200,000	OIL	\$ 1,252	31.6
14 THE BUCKHORN BAR	MASS CITY MI	196,000	OIL	\$ 1,217	31.9
15 HARVEST COUNTRY MARKET	MASS CITY MI	190,000	OIL	\$ 1,164	32.3
16 WADE D JOHNSON/GARAGE	GREENLAND MI	145,000	OIL	\$ 770	37.4
17 MID REGIONAL WATER SYSTEM	WHITE PINE MI	1,300,000	GAS	\$ 639	380.6
18 ONTONAGON COUNTY COURT HOUSE	ONTONAGON MI	1,063,000	GAS	\$ 431	466.9
19 ONTONAGON COUNTY COURT HOUSE	ONTONAGON MI	1,063,000	GAS	\$ 431	466.9
20 MAPLE MANOR	ONTONAGON MI	1,014,000	GAS	\$ 388	495.8
21 MAPLE MANOR	ONTONAGON MI	1,014,000	GAS	\$ 388	495.8
22 EWEN-TROUT CREEK SCHOOL	EWEN MI	1,000,000	GAS	\$ 376	505.3
23 EWEN-TROUT CREEK SCHOOL	EWEN MI	1,000,000	GAS	\$ 376	505.3
24 EWEN-TROUT CREEK SCHOOL	EWEN MI	1,000,000	GAS	\$ 376	505.3
25 EWEN-TROUT CREEK SCHOOL	EWEN MI	1,000,000	GAS	\$ 376	505.3
26 EWEN-TROUT CREEK SCHOOL	EWEN MI	1,000,000	GAS	\$ 376	505.3
27 ONTONAGON ELEMENTARY SCHOOL	ONTONAGON MI	2,730,000	GAS	\$ 891	528.9
28 ONTONAGON ELEMENTARY SCHOOL	ONTONAGON MI	2,730,000	GAS	\$ 891	528.9
29 JOHN CANE	ONTONAGON MI	700,000	GAS	\$ 113	1,193.5
30 VOLUNTEER FIRE DEPT	ONTONAGON MI	680,000	GAS	\$ 96	1,373.1
31 NORDINES FOODLAND	BERGLAND MI	670,000	GAS	\$ 87	1,490.0
32 PORCUPINE BEST WESTERN	SILVER CITY MI	627,000	GAS	\$ 49	2,466.3
33 ST VINCENT DEPAUL SOCIETY	ONTONAGON MI	624,000	GAS	\$ 47	2,593.2

APPENDIX B COUNTY SUMMARIES

OSEOLA

BTU		FUEL TYPE	
<750,000	132	GAS (Natural Gas)	173
750,001-2,500,000	30	PROPANE	0
2,500,001-5,000,000	6	OIL	4
5,000,001-15,000,000	8	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	4
>25,000,001	3	COAL	1
N/A	5	OTHER	1
TOTAL	184	TOTAL	184

AGE		BOILER USE	
2000-present	43	Hot Water Heat	136
1980-1999	104	Hot Water Supply	25
1960-1979	33	Steam Heating	12
1945-1959	3	Power	10
older than 1945	1	Process Steam	0
N/A	0	Other	1
TOTAL	184	TOTAL	184

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	50,212
1-5 Years	0	Potential Wood Use	13,831
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	5		
Greater than 21 years	176		
TOTAL	184		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PINE RIVER HIGH SCHOOL	LEROY MI	4,718,000	OIL	\$ 68,760	10.5
2 PINE RIVER HIGH SCHOOL	LEROY MI	4,718,000	OIL	\$ 68,760	10.5
3 GENERAL MILLS INC	REED CITY MI	126,000,000	GAS	\$ 873,008	12.0
4 GENERAL MILLS INC	REED CITY MI	10,350,000	GAS	\$ 69,533	15.9
5 INDAL LTD TUBELITE DIV	REED CITY MI	8,625,000	GAS	\$ 58,444	17.8
6 REED CITY HOSPITAL	REED CITY MI	8,000,000	GAS	\$ 54,064	18.5
7 REED CITY HOSPITAL	REED CITY MI	8,000,000	GAS	\$ 54,064	18.5
8 REED CITY HOSPITAL	REED CITY MI	102,455	ELECTRIC	\$ 1,026	19.9
9 EVART MIDDLE SCHOOL	EVART MI	100,000	ELECTRIC	\$ 989	20.2
10 PINE RIVER AREA SCHOOLS	LEROY MI	100,000	ELECTRIC	\$ 989	20.2
11 LIBERTY DAIRY	EVART MI	6,277,000	GAS	\$ 41,989	20.6
12 EVART MIDDLE SCHOOL	EVART MI	6,250,000	GAS	\$ 41,800	20.7
13 EVART MIDDLE SCHOOL	EVART MI	6,250,000	GAS	\$ 41,800	20.7
14 MARION HIGH SCHOOL	MARION MI	5,231,000	GAS	\$ 34,659	22.0
15 LIBERTY DAIRY	EUART MI	4,184,000	GAS	\$ 27,821	23.8
16 CONSUMER ENERGY	MARION MI	3,360,000	GAS	\$ 22,047	25.4
17 REED CITY QUICK LUBE	REED CITY MI	240,000	OIL	\$ 1,602	29.6
18 LEROY ELEMENTARY SCHOOL	LEROY MI	63,000	ELECTRIC	\$ 438	45.6
19 UNITED METHODIST CHURCH	REED CITY MI	1,400,000	GAS	\$ 726	358.5
20 CREEKSIDE CAR WASH	EVART MI	1,200,000	GAS	\$ 551	409.3
21 REED CITY MIDDLE SCH	REED CITY MI	1,118,000	GAS	\$ 479	440.4
22 CLASSIC CAR WASH	MARION MI	1,010,000	GAS	\$ 385	498.5
23 CHURCH OF THE NAZARENE	REED CITY MI	1,000,000	GAS	\$ 376	505.3
24 CUPDA CAR WASH	REED CITY MI	990,000	GAS	\$ 367	512.5
25 MARION SCHOOL	MARION MI	2,630,000	GAS	\$ 804	568.3
26 MARION PUBLIC SCHOOL	MARION MI	2,630,000	GAS	\$ 804	568.3
27 MARION HIGH SCHOOL	MARION MI	922,000	GAS	\$ 308	571.7
28 TRINITY LUTHERAN SCHOOL	REED CITY MI	900,000	GAS	\$ 288	596.0
29 UNITED METHODIST CHURCH	EVART MI	850,000	GAS	\$ 245	665.5
30 CYCLONE CAR WASH	EVART MI	825,000	GAS	\$ 223	710.3
31 CHIPPEWA PLASTICS	EVART MI	800,000	GAS	\$ 201	764.9
32 SPRING HILL CAMPS	EVART MI	780,000	GAS	\$ 183	818.0
33 CALVARY BAPTIST CHURCH	EVART MI	750,000	GAS	\$ 157	919.6
34 LEROY MIDDLE SCHOOL	LEROY MI	2,163,000	GAS	\$ 395	977.3
35 LEROY MIDDLE SCHOOL	LEROY MI	2,163,000	GAS	\$ 395	977.3

APPENDIX B COUNTY SUMMARIES

OSCODA

BTU		FUEL TYPE	
<750,000	52	GAS (Natural Gas)	74
750,001-2,500,000	18	PROPANE	0
2,500,001-5,000,000	2	OIL	0
5,000,001-15,000,000	0	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	1
>25,000,001	0	COAL	0
N/A	5	OTHER	0
TOTAL	77	TOTAL	77
AGE		BOILER USE	
2000-present	11	Hot Water Heat	65
1980-1999	61	Hot Water Supply	6
1960-1979	4	Steam Heating	2
1945-1959	0	Power	1
older than 1945	1	Process Steam	3
N/A	0	Other	0
TOTAL	77	TOTAL	77
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	718
1-5 Years	0	Potential Wood Use	-
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	0		
Greater than 21 years	77		
TOTAL	77		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 COMINS LUMBER SALES INC	COMINS MI	4,035,000	GAS	\$ 26,777	24.1
2 COMINS LUMBER SALES INC	COMINS MI	4,035,000	GAS	\$ 26,777	24.1
3 GARLAND GOLF COURSE	LEWISTON MI	40,000	ELECTRIC	\$ 96	209.0
4 AUSABLE VALLEY APTS	FAIRVIEW MI	1,426,000	GAS	\$ 749	353.5
5 AUSABLE VALLEY APTS	FAIRVIEW MI	1,426,000	GAS	\$ 749	353.5
6 GARLAND RESORT	LEWISTON MI	951,700	GAS	\$ 334	543.3
7 GARLAND RESORT	LEWISTON MI	951,700	GAS	\$ 334	543.3
8 GARLAND GOLF COURSE	LEWISTON MI	950,600	GAS	\$ 333	544.2
9 GARLAND GOLF COURSE	LEWISTON MI	950,600	GAS	\$ 333	544.2
10 GARLAND GOLF COURSE	LEWISTON MI	950,600	GAS	\$ 333	544.2
11 FAIRVIEW AREA SCHOOLS	FAIRVIEW MI	900,000	GAS	\$ 288	596.0
12 ST. MARYS CATH. CHURCH	MIO MI	900,000	GAS	\$ 288	596.0
13 SIT AND SPIN	MIO MI	825,000	GAS	\$ 223	710.3
14 COMINS CREEK TIMBER	FAIRVIEW MI	2,200,000	GAS	\$ 427	916.7
15 AUSABLE VALLEY APTS	FAIRVIEW MI	728,000	GAS	\$ 138	1,018.7
16 MIO-AUSABLE SCHOOLS	MIO MI	715,000	GAS	\$ 126	1,091.4
17 MIO-AUSABLE SCHOOLS	MIO MI	715,000	GAS	\$ 126	1,091.4
18 FAIRVIEW AREA SCHOOLS	FAIRVIEW MI	2,100,000	GAS	\$ 340	1,106.9
19 FAIRVIEW AREA SCHOOLS	FAIRVIEW MI	2,100,000	GAS	\$ 340	1,106.9
20 AUSABLE VALLEY HOME	FAIRVIEW MI	1,974,000	GAS	\$ 229	1,552.3
21 AUSABLE VALLEY HOME	FAIRVIEW MI	1,974,000	GAS	\$ 229	1,552.3
22 COMINS LUMBER SALES INC	COMINS MI	1,940,000	GAS	\$ 199	1,756.7

APPENDIX B COUNTY SUMMARIES

OTSEGO

BTU		FUEL TYPE	
<750,000	244	GAS (Natural Gas)	308
750,001-2,500,000	62	PROPANE	0
2,500,001-5,000,000	3	OIL	7
5,000,001-15,000,000	0	WOOD	0
15,000,001-25,000,000	0	ELECTRIC	3
>25,000,001	1	COAL	0
N/A	8	OTHER	0
TOTAL	318	TOTAL	318

AGE		BOILER USE	
2000-present	78	Hot Water Heat	256
1980-1999	194	Hot Water Supply	39
1960-1979	45	Steam Heating	9
1945-1959	1	Power	6
older than 1945	0	Process Steam	8
N/A	0	Other	0
TOTAL	318	TOTAL	318

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	7,038
6-10 years	1	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	2		
Greater than 21 years	315		
TOTAL	318		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 U S PLYWOOD	GAYLORD MI	86,554,000	GAS	\$ 596,570	9.2
2 STANDARD PRODUCTS CO	GAYLORD MI	112,000	ELECTRIC	\$ 1,168	19.1
3 OTSEGO MEMORIAL HOSPITAL	GAYLORD MI	105,000	ELECTRIC	\$ 1,064	19.6
4 OTSEGO CTY MEM HOSP	GAYLORD MI	1,260,000	OIL	\$ 10,538	22.4
5 CONCRETE SUPPLY	GAYLORD MI	4,184,000	GAS	\$ 27,821	23.8
6 JOHNSON OIL CO	GAYLORD MI	520,000	OIL	\$ 4,055	25.0
7 VANDERBILT COMM CHURCH	VANDERBILT MI	3,300,000	GAS	\$ 21,626	25.5
8 JOHNSON OIL CO	GAYLORD MI	181,000	OIL	\$ 1,086	33.0
9 CHALET MARATHON	GAYLORD MI	181,000	OIL	\$ 1,086	33.0
10 QUICK LUBE	GAYLORD MI	172,000	OIL	\$ 1,007	33.9
11 WILDERNESS VALLEY	GAYLORD MI	168,700	OIL	\$ 978	34.2
12 KIRTLAND COMMUNITY COLLEGE	GAYLORD MI	86,000	OIL	\$ 253	78.9
13 JOHANNESBURG-LEWISTON HIGH SCHC	JOHANNESBURG MI	42,000	ELECTRIC	\$ 125	159.4
14 ALPINE AUTO SHINE	GAYLORD MI	1,497,000	GAS	\$ 811	341.4
15 PROFESSIONAL MEMORIAL BLDG	GAYLORD MI	1,430,000	GAS	\$ 753	352.8
16 OTSEGO COUNTY MEMORIAL HOSPITAL	GAYLORD MI	1,260,000	GAS	\$ 604	391.1
17 HIDDEN VALLEY RESORT	GAYLORD MI	1,256,000	GAS	\$ 600	392.2
18 GAYLORD HIGH SCHOOL	GAYLORD MI	1,206,400	GAS	\$ 557	407.2
19 FIFTH THIRD BANK	GAYLORD MI	1,200,000	GAS	\$ 551	409.3
20 NORTH OHIO ELEMENTARY	GAYLORD MI	1,170,000	GAS	\$ 525	419.7
21 NORTH OHIO ELEMENTARY	GAYLORD MI	1,170,000	GAS	\$ 525	419.7
22 SOUTH MAPLE	GAYLORD MI	1,170,000	GAS	\$ 525	419.7
23 SOUTH MAPLE	GAYLORD MI	1,170,000	GAS	\$ 525	419.7
24 GAYLORD HIGH SCHOOL	GAYLORD MI	1,050,000	GAS	\$ 420	474.0
25 JOHANNESBURG LEWISTON SCHOOLS	JOHANNESBURG MI	1,050,000	GAS	\$ 420	474.0
26 JOHANNESBURG ELEMENTARY	JOHANNESBURG MI	1,050,000	GAS	\$ 420	474.0
27 OTSEGO MEMORIAL HOSP	GAYLORD MI	1,000,000	GAS	\$ 376	505.3
28 OTSEGO MEMORIAL HOSP	GAYLORD MI	1,000,000	GAS	\$ 376	505.3
29 DEPT OF ENVIRONMENTAL QUAL	GAYLORD MI	990,000	GAS	\$ 367	512.5
30 GAYLORD MIDDLE SCHOOL	GAYLORD MI	990,000	GAS	\$ 367	512.5
31 VANDERBILT AREA SCHOOLS	VANDERBILT MI	961,700	GAS	\$ 342	534.7
32 VANDERBILT AREA SCHOOLS	VANDERBILT MI	961,700	GAS	\$ 342	534.7
33 VANDERBILT AREA SCHOOLS	VANDERBILT MI	961,700	GAS	\$ 342	534.7
34 SYLVAN RESORT	GAYLORD MI	951,700	GAS	\$ 334	543.3
35 SYLVAN RESORT	GAYLORD MI	951,700	GAS	\$ 334	543.3

APPENDIX B COUNTY SUMMARIES

OTTAWA

BTU		FUEL TYPE	
<750,000	1048	GAS (Natural Gas)	1781
750,001-2,500,000	464	PROPANE	0
2,500,001-5,000,000	75	OIL	22
5,000,001-15,000,000	53	WOOD	5
15,000,001-25,000,000	17	ELECTRIC	15
>25,000,001	23	COAL	8
N/A	151	OTHER	0
TOTAL	1831	TOTAL	1831

AGE		BOILER USE	
2000-present	462	Hot Water Heat	1356
1980-1999	1040	Hot Water Supply	248
1960-1979	270	Steam Heating	88
1945-1959	49	Power	105
older than 1945	10	Process Steam	32
N/A	0	Other	2
TOTAL	1831	TOTAL	1831

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	2,506
1-5 Years	2	Potential Wood Use	130,648
6-10 years	20	(Projects <20 yrs payback)	
11-15 years	36		
16-20 years	23		
Greater than 21 years	1750		
TOTAL	1831		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 FLINT INK	HOLLAND MI	50,000,000	OIL	\$ 734,600	3.1
2 EVERETT SMITH GROUP LTD	GRAND HAVEN MI	54,180,000	OIL	\$ 796,849	3.2
3 CONSUMERS ENERGY	WEST OLIVE MI	17,250,000	OIL	\$ 253,887	6.1
4 GRAND VALLEY STATE COLLEGE	ALLEDALE MI	45,000,000	GAS	\$ 310,360	6.2
5 CONSUMERS ENERGY	WEST OLIVE MI	152,000,000	OIL	\$ 2,253,584	6.5
6 BRISTOL MYERS SQUIBB MEAD JOHNSO ZEELAND MI		40,600,000	GAS	\$ 279,525	6.5
7 BRISTOL MYERS SQUIBB MEAD JOHNSO ZEELAND MI		40,600,000	GAS	\$ 279,525	6.5
8 LEPRINO FOODS	ALLEDALE MI	40,000,000	GAS	\$ 275,320	6.5
9 PHYSICAL PLANT	ALLEDALE MI	40,000,000	GAS	\$ 275,320	6.5
10 DELPHI AUTOMOTIVE SYSTEMS	COOPERSVILLE MI	38,800,000	GAS	\$ 266,910	6.6
11 HOPE COLLEGE	HOLLAND MI	35,400,000	GAS	\$ 243,083	6.9
12 PFIZER	HOLLAND MI	34,726,000	GAS	\$ 238,360	6.9
13 PFIZER	HOLLAND MI	34,726,000	GAS	\$ 238,360	6.9
14 ZEELAND FARM SERVICE	ZEELAND MI	34,500,000	GAS	\$ 236,776	7.0
15 H J HEINZ LP	HOLLAND MI	32,000,000	GAS	\$ 219,256	7.2
16 HOPE COLLEGE POWER PLANT	HOLLAND MI	30,406,000	GAS	\$ 208,085	7.3
17 HOPE COLLEGE POWER PLANT	HOLLAND MI	30,406,000	GAS	\$ 208,085	7.3
18 HART AND COOLEY CO	HOLLAND MI	30,328,000	GAS	\$ 207,539	7.3
19 LEPRINO FOODS	ALLEDALE MI	30,128,000	GAS	\$ 206,137	7.3
20 HAMILTON FARM BUREAU	HOLLAND MI	10,000,000	OIL	\$ 145,920	7.4
21 EAGLE OTTAWA	GRAND HAVEN MI	65,000,000	GAS	\$ 445,520	7.7
22 H J HEINZ LP	HOLLAND MI	28,000,000	GAS	\$ 193,224	9.1
23 FLINT INK	HOLLAND MI	25,000,000	GAS	\$ 172,200	10.2
24 CITY ON A HILL MINISTRIES	ZEELAND MI	5,025,000	OIL	\$ 72,832	10.2
25 DR PEPPER/SEVEN UP BOTTLING GROU	HOLLAND MI	24,150,000	GAS	\$ 166,243	10.5
26 BOARS HEAD PROVISIONS CO INC	HOLLAND MI	24,000,000	GAS	\$ 165,192	10.5
27 MUNICIPAL POWER PLANT	GRAND HAVEN MI	24,000,000	GAS	\$ 165,192	10.5
28 HERMAN MILLER INC/ENERGY CTR MS01	ZEELAND MI	22,240,000	GAS	\$ 152,858	11.2
29 HOLLAND HIGH SCHL	HOLLAND MI	22,000,000	GAS	\$ 151,176	11.3
30 FERRYSBURG SCHOOL	FERRYSBURG MI	3,450,000	OIL	\$ 49,877	11.4
31 REQUEST FOODS	HOLLAND MI	21,000,000	GAS	\$ 144,168	11.7
32 S 2 YACHTS INC	HOLLAND MI	3,070,000	OIL	\$ 44,218	11.8
33 REQUEST FOODS	HOLLAND MI	20,412,000	GAS	\$ 140,047	11.9
34 BOARS HEAD PROVISIONS CO INC	HOLLAND MI	20,000,000	GAS	\$ 137,160	12.0
35 SARA LEE FOODS US	ZEELAND MI	20,000,000	GAS	\$ 137,160	12.0
36 DONNELLY CORP	HOLLAND MI	18,750,000	GAS	\$ 128,400	12.5
37 SENIOR HIGH SCHOOL	HOLLAND MI	18,000,000	GAS	\$ 123,144	12.8
38 SARA LEE FOODS US	ZEELAND MI	17,250,000	GAS	\$ 117,888	13.1
39 HOLLAND COMMUNITY HOSPITAL	HOLLAND MI	16,064,000	GAS	\$ 109,577	13.5
40 SARA LEE FOODS US	ZEELAND MI	16,064,000	GAS	\$ 109,577	13.5
41 BAKER KNAPP & TUBBS	HOLLAND MI	16,000,000	GAS	\$ 109,128	13.6
42 NU-WOOL CO	JENISON MI	630,000	ELECTRIC	\$ 8,882	13.7
43 GKN SINTER METALS	ZEELAND MI	505,000	ELECTRIC	\$ 7,020	14.0
44 QUINCY STREET INCORPORATED	HOLLAND MI	14,645,000	GAS	\$ 99,632	14.1
45 DR PEPPER 7 UP BOTTLING GROUP	HOLLAND MI	14,645,000	GAS	\$ 99,632	14.1
46 SARA LEE FOODS US	ZEELAND MI	14,645,000	GAS	\$ 99,632	14.1
47 DELPHI AUTOMOTIVE	COOPERSVILLE MI	14,500,000	GAS	\$ 98,616	14.2

APPENDIX B COUNTY SUMMARIES

OTTAWA

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 HOLLAND BOARD OF PUB WKS	HOLLAND MI	430,000	ELECTRIC	\$ 5,904	14.3
49 SARA LEE FOODS US	ZEELAND MI	14,000,000	GAS	\$ 95,112	14.4
50 DR PEPPER 7UP BOTTLING GROUP	HOLLAND MI	13,390,000	GAS	\$ 90,837	14.6
51 LOGANS ROADHOUSE	HOLLAND MI	300,000	ELECTRIC	\$ 3,968	14.9
52 J B LABORATORIES	HOLLAND MI	12,550,000	GAS	\$ 84,950	14.9
53 NORTH OTTAWA COMM HOSP	GRAND HAVEN MI	12,500,000	GAS	\$ 84,600	15.0
54 SHAPE CORPORATION	GRAND HAVEN MI	12,500,000	GAS	\$ 84,600	15.0
55 HOLLAND COMMUNITY HOSPITAL	HOLLAND MI	12,500,000	GAS	\$ 84,600	15.0
56 HOLLAND COMMUNITY HOSP	HOLLAND MI	12,500,000	GAS	\$ 84,600	15.0
57 JOHNSTON BOILER CO	FERRYSBURG MI	12,500,000	GAS	\$ 84,600	15.0
58 NORTH OTTAWA COMMUNITY HOSPITAL	GRAND HAVEN MI	12,500,000	GAS	\$ 84,600	15.0
59 HOLLAND JR HIGH SCH	HOLLAND MI	12,400,000	GAS	\$ 83,899	15.0
60 HART & COOLEY CO	HOLLAND MI	12,000,000	GAS	\$ 81,096	15.2
61 ELEMENTARY SCHOOL WEST	COOPERSVILLE MI	11,000,000	GAS	\$ 74,088	15.6
62 JENISON HIGH SCHOOL	JENISON MI	10,461,000	GAS	\$ 70,311	15.8
63 JENISON HIGH SCHOOL	JENISON MI	10,461,000	GAS	\$ 70,311	15.8
64 HERMAN MILLER	SPRING LAKE MI	10,000,000	GAS	\$ 67,080	16.0
65 CAREERTIME TECHNICAL CENTER	HOLLAND MI	10,000,000	GAS	\$ 67,080	16.0
66 CAREERTIME TECHNICAL CENTER	HOLLAND MI	10,000,000	GAS	\$ 67,080	16.0
67 HUDSONVILLE HIGH SCH	HUDSONVILLE MI	10,000,000	GAS	\$ 67,080	16.0
68 WOODWARD FST	ZEELAND MI	164,000	ELECTRIC	\$ 1,942	16.7
69 ZEELAND PUBLIC SCHOOLS	ZEELAND MI	150,000	ELECTRIC	\$ 1,734	17.2
70 JOHNSON CONTROLS INCORPORATED	HOLLAND MI	8,800,000	GAS	\$ 59,670	17.5
71 LAKE MICH FILTER. PLANT	WEST OLIVE MI	8,370,000	GAS	\$ 56,657	18.1
72 LAKE MICH FILTRATON PLT	WEST OLIVE MI	8,370,000	GAS	\$ 56,657	18.1
73 GRAND HAVEN HIGH SCHOOL	GRAND HAVEN MI	8,370,000	GAS	\$ 56,657	18.1
74 GRAND HAVEN HIGH SCHOOL	GRAND HAVEN MI	8,370,000	GAS	\$ 56,657	18.1
75 GRAND HAVEN MIDDLE SCHOOL	GRAND HAVEN MI	8,370,000	GAS	\$ 56,657	18.1
76 GRAND HAVEN MIDDLE SCHOOL	GRAND HAVEN MI	8,370,000	GAS	\$ 56,657	18.1
77 ENGINE POWER COMPONENTS	GRAND HAVEN MI	8,236,000	GAS	\$ 55,718	18.2
78 GRAND RAPIDS GRAVEL	HOLLAND MI	7,170,000	GAS	\$ 48,247	19.5
79 PEALE SCIENCE	HOLLAND MI	105,000	ELECTRIC	\$ 1,064	19.6
80 WHITE PINES MIDDLE SCHOOL	GRAND HAVEN MI	6,900,000	GAS	\$ 46,355	19.8
81 WHITE PINES MIDDLE SCHOOL	GRAND HAVEN MI	6,900,000	GAS	\$ 46,355	19.8

APPENDIX B COUNTY SUMMARIES

PRESQUE ISLE

BTU			FUEL TYPE	
<750,000	147		GAS (Natural Gas)	177
750,001-2,500,000	16		PROPANE	0
2,500,001-5,000,000	4		OIL	3
5,000,001-15,000,000	4		WOOD	0
15,000,001-25,000,000	0		ELECTRIC	0
>25,000,001	0		COAL	0
N/A	9		OTHER	0
TOTAL	180		TOTAL	180
AGE			BOILER USE	
2000-present	29		Hot Water Heat	150
1980-1999	115		Hot Water Supply	10
1960-1979	30		Steam Heating	15
1945-1959	5		Power	3
older than 1945	1		Process Steam	2
N/A	0		Other	0
TOTAL	180		TOTAL	180
SIMPLE PAYBACK			WOOD USE (Tons/yr)	
<1 Year	0		Existing Wood Use	-
1-5 Years	0		Potential Wood Use	1,703
6-10 years	0		(Projects <20 yrs payback)	
11-15 years	0			
16-20 years	3			
Greater than 21 years	177			
TOTAL	180			

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CADILLAC PRODUCTS	ROGERS CITY MI	7,200,000	GAS	\$ 48,458	19.5
2 ONAWAY HI SCH	ONAWAY MI	6,900,000	GAS	\$ 46,355	19.8
3 ONAWAY HIGH SCHOOL	ONAWAY MI	6,900,000	GAS	\$ 46,355	19.8
4 ROGERS CITY HIGH SCHOOL	ROGERS CITY MI	5,230,000	GAS	\$ 34,652	22.0
5 ROGERS CITY REHABILITATION HOSPITAL	ROGERS CITY MI	5,000,000	GAS	\$ 33,040	22.3
6 NORTHLAND BAR	ONAWAY MI	180,000	OIL	\$ 1,077	33.1
7 ST. PETERS HALL	POSEN MI	163,000	OIL	\$ 928	34.8
8 PAINTER PETROLEUM CO	ONAWAY MI	130,000	OIL	\$ 639	40.4
9 ST CASIMIR CHURCH	POSEN MI	1,430,000	GAS	\$ 753	352.8
10 ST JOHNS LUTHERAN SCHOOL	ROGERS CITY MI	1,400,000	GAS	\$ 726	358.5
11 ROGERS CITY THEATRE	ROGERS CITY MI	1,000,000	GAS	\$ 376	505.3
12 HARBOR LIGHT LAUNDRY	ROGERS CITY MI	960,000	GAS	\$ 341	536.1
13 POSEN CONSOLIDATED SCHLS	POSEN MI	2,510,000	GAS	\$ 699	628.3
14 ST IGNATIUS SCH	ROGERS CITY MI	2,510,000	GAS	\$ 699	628.3
15 HARRY G GRAMBAU ED CNTR	ROGERS CITY MI	2,510,000	GAS	\$ 699	628.3
16 UAW EDUCATION CTR	ONAWAY MI	850,000	GAS	\$ 245	665.5
17 HILLTOP MANOR	ROGERS CITY MI	825,000	GAS	\$ 223	710.3
18 HILLTOP MANOR	ROGERS CITY MI	825,000	GAS	\$ 223	710.3
19 ELEMENTARY SCHOOL	ROGERS CITY MI	2,319,000	GAS	\$ 531	771.5
20 AC WASHES INC	ROGERS CITY MI	760,000	GAS	\$ 166	882.1
21 PRESQUE ISLE COUNTY JAIL	ROGERS CITY MI	2,200,000	GAS	\$ 427	916.7
22 PRESQUE ISLE COUNTY JAIL	ROGERS CITY MI	2,200,000	GAS	\$ 427	916.7
23 ST IGNATIUS SCH	ROGERS CITY MI	2,200,000	GAS	\$ 427	916.7
24 HARRY G GRAMBAU ED CNTR	ROGERS CITY MI	2,095,000	GAS	\$ 335	1,119.0
25 SEWAGE TREATMENT PLANT	ROGERS CITY MI	680,000	GAS	\$ 96	1,373.1
26 ST JOHNS LUTHERAN CH	ROGERS CITY MI	630,000	GAS	\$ 52	2,352.2
27 POSEN CONSOLIDATED SCHLS	POSEN MI	1,800,000	GAS	\$ 77	4,265.6
28 ROGERS CITY MOTEL	ROGERS CITY MI	600,000	GAS	\$ 26	4,546.9

APPENDIX B COUNTY SUMMARIES

ROSCOMMON

BTU		FUEL TYPE	
<750,000	130	GAS (Natural Gas)	169
750,001-2,500,000	44	PROPANE	0
2,500,001-5,000,000	2	OIL	12
5,000,001-15,000,000	2	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	0
>25,000,001	0	COAL	1
N/A	5	OTHER	0
TOTAL	183	TOTAL	183

AGE		BOILER USE	
2000-present	49	Hot Water Heat	155
1980-1999	99	Hot Water Supply	19
1960-1979	33	Steam Heating	3
1945-1959	2	Power	2
older than 1945	0	Process Steam	3
N/A	0	Other	1
TOTAL	183	TOTAL	183

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	243
1-5 Years	0	Potential Wood Use	-
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	0		
Greater than 21 years	183		
TOTAL	183		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	2,891,000	OIL	\$ 23,825	20.8
2 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	2,891,000	OIL	\$ 23,825	20.8
3 HOUGHTON LAKE HIGH SCH	HOUGHTON LAKE MI	6,000,000	GAS	\$ 40,048	21.0
4 HOUGHTON LK HIGH SCH	HOUGHTON LAKE MI	6,000,000	GAS	\$ 40,048	21.0
5 ACADEMIC BUILDING	ROSCOMMON MI	1,431,000	OIL	\$ 12,036	22.1
6 ACADEMIC BUILDING	ROSCOMMON MI	1,431,000	OIL	\$ 12,036	22.1
7 ROSCOMMON COUNTY ROAD COMMISSI	HOUGHTON LAKE MI	2,100,000	OIL	\$ 16,896	22.2
8 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	1,329,000	OIL	\$ 11,142	22.3
9 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	1,329,000	OIL	\$ 11,142	22.3
10 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	1,180,000	OIL	\$ 9,837	22.6
11 KIRTLAND COMMUNITY COLLEGE	ROSSCOMMON MI	1,180,000	OIL	\$ 9,837	22.6
12 KIRTLAND COMMUNITY COLLEGE	ROSSCOMMON MI	1,180,000	OIL	\$ 9,837	22.6
13 KIRTLAND COMMUNITY COLLEGE	ROSCOMMON MI	1,180,000	OIL	\$ 9,837	22.6
14 KIRTLAND COMM COLLEGE	ROSCOMMON MI	400,000	OIL	\$ 3,004	26.1
15 THE BROOK	ROSCOMMON MI	1,498,000	GAS	\$ 812	341.2
16 ST HELEN ELEMENTARY SCH	ST HELEN MI	1,350,000	GAS	\$ 683	368.8
17 PERFORMANCE PLUS	PRUDENVILLE MI	1,336,600	GAS	\$ 671	371.8
18 CRAF CENTER	ROSCOMMON MI	1,100,000	GAS	\$ 464	448.4
19 FISHER'S COIN LAUNDRY	PRUDENVILLE MI	1,100,000	GAS	\$ 464	448.4
20 FISHER'S COIN LAUNDRY	PRUDENVILLE MI	1,100,000	GAS	\$ 464	448.4
21 SUPER WASH	HOUGHTON LAKE MI	1,010,000	GAS	\$ 385	498.5
22 CASS COUNTY ROAD COMMISSION	CASSOPOLIS MI	1,000,000	GAS	\$ 376	505.3
23 CRAF CENTER	ROSCOMMON MI	1,000,000	GAS	\$ 376	505.3
24 CRAF CENTER	ROSCOMMON MI	1,000,000	GAS	\$ 376	505.3
25 HOUGHTON LK MIDDLE SCH	HOUGHTON LAKE MI	1,000,000	GAS	\$ 376	505.3
26 HOUGHTON LAKE MIDDLE SCHOOL	HOUGHTON LAKE MI	1,000,000	GAS	\$ 376	505.3
27 HOUGHTON LAKE MIDDLE SCH	HOUGHTON LAKE MI	1,000,000	GAS	\$ 376	505.3
28 SPLASH AND DASH	PRUDENVILLE MI	990,000	GAS	\$ 367	512.5
29 THE BROOK	ROSCOMMON MI	990,000	GAS	\$ 367	512.5
30 SQUEKY CLEAN CAR WASH	ROSCOMMON MI	985,000	GAS	\$ 363	516.2
31 SUPER WASH	HOUGHTON LAKE MI	961,700	GAS	\$ 342	534.7
32 SPRUCE MOTOR LODGE	ROSCOMMON MI	900,000	GAS	\$ 288	596.0
33 HOUGHTON LAKE SCH DIST	PRUDENVILLE MI	2,500,000	GAS	\$ 690	634.1
34 EAST BAY CAR WASH	PRUDENVILLE MI	825,000	GAS	\$ 223	710.3
35 ROSCOMMON BOARD OF COMMISSIONE	ROSCOMMON MI	800,000	GAS	\$ 201	764.9

APPENDIX B COUNTY SUMMARIES

SAGINAW

BTU		FUEL TYPE	
<750,000	810	GAS (Natural Gas)	1467
750,001-2,500,000	426	PROPANE	3
2,500,001-5,000,000	106	OIL	19
5,000,001-15,000,000	65	WOOD	3
15,000,001-25,000,000	10	ELECTRIC	38
>25,000,001	17	COAL	10
N/A	106	OTHER	0
TOTAL	1540	TOTAL	1540

AGE		BOILER USE	
2000-present	357	Hot Water Heat	971
1980-1999	744	Hot Water Supply	247
1960-1979	380	Steam Heating	186
1945-1959	47	Power	85
older than 1945	12	Process Steam	45
N/A	0	Other	6
TOTAL	1540	TOTAL	1540

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	116,806
6-10 years	12	(Projects <20 yrs payback)	
11-15 years	19		
16-20 years	47		
Greater than 21 years	1462		
TOTAL	1540		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ST MARYS MEDICAL CENTER	SAGINAW MI	49,900,000	GAS	\$ 344,699	5.8
2 DARLING INTERNATIONAL	COLDWATER, MI	45,960,000	GAS	\$ 317,088	6.1
3 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	41,678,000	GAS	\$ 287,079	6.4
4 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	41,678,000	GAS	\$ 287,079	6.4
5 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	41,425,000	GAS	\$ 285,306	6.4
6 DELPHI S POWERHOUSE/JEFF SHAW	SAGINAW MI	54,036,760	GAS	\$ 368,690	6.9
7 COMMUNITY HOSPITAL SERV	SAGINAW MI	34,140,000	GAS	\$ 234,253	7.0
8 SAGINAW INDUSTRIAL MACHINING INC	SAGINAW MI	33,660,000	GAS	\$ 230,889	7.0
9 CHESANING MIDDLE SCHOOL	CHESANING MI	11,500,000	OIL	\$ 168,258	7.1
10 ST MARYS HOSPITAL	SAGINAW MI	32,500,000	GAS	\$ 222,760	7.1
11 COVENANT HEALTHCARE	SAGINAW MI	30,000,000	GAS	\$ 205,240	7.3
12 GM/SMCO POWERHOUSE #3	SAGINAW MI	27,200,000	GAS	\$ 187,618	9.4
13 ST MARYS MEDICAL CENTER	SAGINAW MI	24,345,000	GAS	\$ 167,610	10.4
14 COMMUNITY HOSPITAL SERVICE	SAGINAW MI	24,000,000	GAS	\$ 165,192	10.5
15 GM/SMCO POWERHOUSE	SAGINAW MI	106,956,000	GAS	\$ 739,548	10.6
16 GM/SMCO-POWER HOUSE #4	SAGINAW MI	106,956,000	GAS	\$ 739,548	10.6
17 GM/SMCO POWERHOUSE#1	SAGINAW MI	106,956,000	GAS	\$ 739,548	10.6
18 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	22,300,000	GAS	\$ 153,278	11.2
19 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	22,300,000	GAS	\$ 153,278	11.2
20 ST HELEN SCHOOL	SAGINAW MI	20,700,000	GAS	\$ 142,066	11.8
21 COVENANT HEALTH CARE	SAGINAW MI	20,278,000	GAS	\$ 139,108	11.9
22 COVENANT HEALTH CARE SYSTEM	SAGINAW MI	20,278,000	GAS	\$ 139,108	11.9
23 BRIDGEPORT SR HIGH SCH	BRIDGEPORT MI	17,250,000	GAS	\$ 117,888	13.1
24 COVENANT HEALTHCARE	SAGINAW MI	16,361,000	GAS	\$ 111,658	13.4
25 COVENANT HEALTHCARE	SAGINAW MI	16,361,000	GAS	\$ 111,658	13.4
26 PIONEER SUGAR	CARROLLTON MI	150,000,000	GAS	\$ 1,041,200	13.7
27 COVENANT HEALTHCARE	SAGINAW MI	615,000	ELECTRIC	\$ 8,659	13.8
28 COVENANT HEALTHCARE	SAGINAW MI	615,000	ELECTRIC	\$ 8,659	13.8
29 EATON CORPORATION	SAGINAW MI	14,700,000	GAS	\$ 100,018	14.1
30 ARTHUR EDUCATIONAL CENTER	SAGINAW MI	338,000	ELECTRIC	\$ 4,533	14.7
31 EATON CORP	SAGINAW MI	12,554,000	GAS	\$ 84,978	14.9
32 HERITAGE HIGH SCHOOL	SAGINAW MI	12,024,000	GAS	\$ 81,264	15.2
33 HERITAGE HIGH SCHOOL	SAGINAW MI	12,024,000	GAS	\$ 81,264	15.2
34 BANCROFT HOUSE	SAGINAW MI	12,000,000	GAS	\$ 81,096	15.2
35 US GRAPHITE COMPANY	SAGINAW MI	12,000,000	GAS	\$ 81,096	15.2
36 ST STEPHEN ELEMENTARY	SAGINAW MI	12,000,000	GAS	\$ 81,096	15.2
37 ST STEPHEN ELEMENTARY	SAGINAW MI	12,000,000	GAS	\$ 81,096	15.2
38 COLBY'S INC	SAGINAW MI	11,247,000	GAS	\$ 75,819	15.5
39 COVENANT HEALTH CARE	SAGINAW MI	225,000	ELECTRIC	\$ 2,851	15.6
40 ADVANCE PUBLICATIONS - SAGINAW NE	SAGINAW MI	10,461,000	GAS	\$ 70,311	15.8
41 ADVANCED PUBLICATIONS-SAGINAW NE	SAGINAW MI	10,461,000	GAS	\$ 70,311	15.8
42 COVENANT MICHIGAN CAMPUS	SAGINAW MI	10,461,000	GAS	\$ 70,311	15.8
43 BRIDGEPORT COMMUNITY SCH	BRIDGEPORT MI	10,000,000	GAS	\$ 67,080	16.0
44 MICHIGAN PIONER SUGAR	CARROLLTON MI	10,000,000	GAS	\$ 67,080	16.0
45 ST LUKES HEALTH CENTER	SAGINAW MI	10,000,000	GAS	\$ 67,080	16.0
46 SAGINAW CIVIC CENTER	SAGINAW MI	9,532,000	GAS	\$ 64,800	16.7
47 DELPHI CORPORATION	SAGINAW MI	144,000	ELECTRIC	\$ 1,644	17.4

APPENDIX B COUNTY SUMMARIES

SAGINAW

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 HEMLOCK SEMI CONDUCTOR	HEMLOCK MI	8,370,000	GAS	\$ 56,657	18.1
49 BRIDGEPORT SPAULDING ELEMENTARY	SAGINAW MI	8,369,000	GAS	\$ 56,650	18.1
50 BRIDGEPORT SPAULDING ELEMENTARY	SAGINAW,MI	8,369,000	GAS	\$ 56,650	18.1
51 DOW CORNING CORPORATION	HEMLOCK MI	126,000	ELECTRIC	\$ 1,376	18.2
52 SPATZ'S BAKERY	SAGINAW MI	126,000	ELECTRIC	\$ 1,376	18.2
53 DOW CORNING CORPORATION	HEMLOCK,MI	8,220,000	GAS	\$ 55,606	18.2
54 CAREER OPPORTUNITY CENTER	SAGINAW MI	124,000	ELECTRIC	\$ 1,347	18.3
55 SEARS ROEBUCK & CO	SAGINAW MI	8,034,000	GAS	\$ 54,302	18.5
56 SEARS ROEBUCK AND CO	SAGINAW MI	8,034,000	GAS	\$ 54,302	18.5
57 ZEHNDERS INCORPORATED	FRANKENMUTH MI	8,016,000	GAS	\$ 54,176	18.5
58 BAVARIAN INN	FRANKENMUTH MI	8,016,000	GAS	\$ 54,176	18.5
59 BAVARIAN INN	FRANKENMUTH MI	8,016,000	GAS	\$ 54,176	18.5
60 ZEHNDERS INC	FRANKENMUTH MI	8,016,000	GAS	\$ 54,176	18.5
61 SAGINAW VALLEY STATE UNIVERSITY	UNIVERSITY CENTER MI	8,008,000	GAS	\$ 54,120	18.5
62 SAGINAW VALLEY STATE UN	UNIVERSITY CTR MI	8,000,000	GAS	\$ 54,064	18.5
63 SAGINAW VALLEY COLLEGE	UNIVERSITY CTR MI	8,000,000	GAS	\$ 54,064	18.5
64 SAGINAW VALLEY STATE UNIV	UNIVERSITY CTR MI	8,000,000	GAS	\$ 54,064	18.5
65 THE SCIENCE BLDG WEST	UNIVERSITY CTR MI	8,000,000	GAS	\$ 54,064	18.5
66 CRACKER BARREL	BRIDGEPORT MI	120,000	ELECTRIC	\$ 1,287	18.5
67 CRAKER BARREL	BRIDGEPORT MI	120,000	ELECTRIC	\$ 1,287	18.5
68 CRACKER BARREL	BRIDGEPORT MI	120,000	ELECTRIC	\$ 1,287	18.5
69 APPLE MOUNTAIN	FREELAND MI	120,000	ELECTRIC	\$ 1,287	18.5
70 MICHIGAN LUTHERAN SEMIN	SAGINAW MI	120,000	ELECTRIC	\$ 1,287	18.5
71 MICHIGAN LUTHERAN SEMIN	SAGINAW MI	120,000	ELECTRIC	\$ 1,287	18.5
72 THE MENS WEARHOUSE	SAGINAW MI	120,000	ELECTRIC	\$ 1,287	18.5
73 FRANKENMUTH BAVARIAN LOD	FRANKENMUTH MI	120,000	ELECTRIC	\$ 1,287	18.5
74 FRANKENMUTH R V PARK	FRANKENMUTH MI	200,000	PROPANE	\$ 2,128	18.6
75 DOW CORNING CORPORATION	HEMLOCK MI	7,620,000	GAS	\$ 51,401	19.0
76 GASE BAKING CO	SAGINAW MI	7,123,000	GAS	\$ 47,918	19.6
77 SAGINAW VALLEY STATE UNIVERSITY	UNIVERSITY CENTER	105,000	ELECTRIC	\$ 1,064	19.6
78 ASCENSION HEALTH ST MARYS	SAGINAW MI	105,000	ELECTRIC	\$ 1,064	19.6

APPENDIX B COUNTY SUMMARIES

SANILAC

BTU		FUEL TYPE	
<750,000	282	GAS (Natural Gas)	363
750,001-2,500,000	61	PROPANE	0
2,500,001-5,000,000	5	OIL	5
5,000,001-15,000,000	6	WOOD	1
15,000,001-25,000,000	0	ELECTRIC	7
>25,000,001	3	COAL	2
N/A	21	OTHER	0
TOTAL	378	TOTAL	378

AGE		BOILER USE	
2000-present	94	Hot Water Heat	302
1980-1999	230	Hot Water Supply	48
1960-1979	47	Steam Heating	6
1945-1959	3	Power	18
older than 1945	4	Process Steam	3
N/A	0	Other	1
TOTAL	378	TOTAL	378

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	1	Potential Wood Use	8,415
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	1		
16-20 years	4		
Greater than 21 years	372		
TOTAL	378		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MICHIGAN SUGAR CO	CROSWELL MI	75,000,000	OIL	\$ 1,106,900	3.9
2 TRELLEBORG YSH INCORPORATED	SANDUSKY MI	14,650,000	GAS	\$ 99,667	14.1
3 PECK HIGH SCHOOL	PECK MI	165,000	ELECTRIC	\$ 1,957	16.7
4 SANILAC CAREER CENTER	PECK MI	126,000	ELECTRIC	\$ 1,376	18.2
5 MARLETTE COMMUNITY HOSPITAL	MARLETTE MI	6,900,000	GAS	\$ 46,355	19.8
6 MARLETTE COMM HOSPITAL	MARLETTE MI	6,900,000	GAS	\$ 46,355	19.8
7 MICHIGAN PIONEER SUGAR	CROSWELL MI	6,000,000	GAS	\$ 40,048	21.0
8 MARLETTE HIGH SCHOOL	MARLETTE MI	5,230,000	GAS	\$ 34,652	22.0
9 MARLETTE HIGH SCHOOL	MARLETTE MI	5,230,000	GAS	\$ 34,652	22.0
10 SANDUSKY HIGH SCHOOL	SANDUSKY MI	5,000,000	GAS	\$ 33,040	22.3
11 SANDUSKY HIGH SCHOOL	SANDUSKY MI	5,000,000	GAS	\$ 33,040	22.3
12 PAW PAW BLACK RIVER SCH	PAW PAW MI	4,596,000	GAS	\$ 30,709	23.1
13 PARISH HALL	ARGYLE MI	601,700	OIL	\$ 4,771	24.5
14 TUBBS BROTHERS FORD	SANDUSKY MI	286,000	OIL	\$ 2,005	28.1
15 BETHEL UNITED MISS CHR	YALE MI	201,270	OIL	\$ 1,263	31.5
16 HARRINGTON FARMS	CROSWELL MI	115,000	OIL	\$ 507	45.1
17 AUTUMNWOOD	DECKERVILLE MI	1,457,000	GAS	\$ 776	348.0
18 BROWN CITY ELEMENTARY	BROWN CITY MI	1,336,000	GAS	\$ 670	372.0
19 BROWN CITY ELEMENTARY	BROWN CITY MI	1,336,000	GAS	\$ 670	372.0
20 BROWN CITY ELEMENTARY	BROWN CITY MI	1,336,000	GAS	\$ 670	372.0
21 SANDUSKY AUTO SPA	SANDUSKY MI	1,255,000	GAS	\$ 599	392.5
22 FAITH BAPTIST CHURCH	BROWN CITY MI	1,169,000	GAS	\$ 524	420.1
23 GREAT REFLECTIONS INC	BROWN CITY MI	1,050,000	GAS	\$ 420	474.0
24 HURON INC	LEXINGTON MI	1,000,000	GAS	\$ 376	505.3
25 BROWN CITY MISSIONARY CH	BROWN CITY MI	1,000,000	GAS	\$ 376	505.3
26 CARSONVILLE HIGH SCHOOL	CARSONVILLE, MI	990,000	GAS	\$ 367	512.5
27 MARLETTE PARK AND POOL	MARLETTE MI	990,000	GAS	\$ 367	512.5
28 SANDUSKY MIDDLE SCHOOL	SANDUSKY MI	990,000	GAS	\$ 367	512.5
29 E Z AUTO WASH	BROWN CITY MI	990,000	GAS	\$ 367	512.5
30 PORT SANILAC AUTO SPA	PORT SANILAC MI	985,000	GAS	\$ 363	516.2
31 CROSWELL CAR WASH	CROSWELL MI	961,700	GAS	\$ 342	534.7
32 LEXINGTON CAR WASH	LEXINGTON MI	961,700	GAS	\$ 342	534.7
33 CHASE BANK	SANDUSKY MI	960,000	GAS	\$ 341	536.1
34 MARLETTE COMMUNITY HOSPITAL	MARLETTE MI	2,700,000	GAS	\$ 865	539.9
35 MARLETTE COMMUNITY HOSPITAL	MARLETTE MI	2,700,000	GAS	\$ 865	539.9

APPENDIX B COUNTY SUMMARIES

SCHOOLCRAFT

BTU		FUEL TYPE	
<750,000	92	GAS (Natural Gas)	118
750,001-2,500,000	20	PROPANE	0
2,500,001-5,000,000	4	OIL	5
5,000,001-15,000,000	3	WOOD	3
15,000,001-25,000,000	0	ELECTRIC	2
>25,000,001	0	COAL	2
N/A	11	OTHER	0
TOTAL	130	TOTAL	130
AGE		BOILER USE	
2000-present	32	Hot Water Heat	97
1980-1999	58	Hot Water Supply	9
1960-1979	34	Steam Heating	13
1945-1959	5	Power	8
older than 1945	1	Process Steam	3
N/A	0	Other	0
TOTAL	130	TOTAL	130
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	2,509
1-5 Years	0	Potential Wood Use	9
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	1		
Greater than 21 years	129		
TOTAL	130		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MDOT REST STOP	SENEY MI	110,000	ELECTRIC	\$ 1,138	19.2
2 CENTRAL HIGH SCHOOL	MANISTIQUE MI	5,400,000	GAS	\$ 35,843	21.8
3 CENTRAL HIGH SCHOOL	MANISTIQUE MI	5,400,000	GAS	\$ 35,843	21.8
4 SCHOOLCRAFT COUNTY ROAD COMMIS	MANISTIQUE MI	2,100,000	OIL	\$ 16,896	22.2
5 CITY OF MANISTIQUE	MANISTIQUE MI	640,000	OIL	\$ 5,106	24.3
6 WASTE WATER TXMT PLANT	MANISTIQUE MI	3,392,000	GAS	\$ 22,271	25.3
7 ON MINERALS PORT INLAND PLANT	GULLIVER MI	432,000	OIL	\$ 3,284	25.7
8 SCHOOLCRAFT COUNTY COURT HOUSE	MANISTIQUE MI	3,000,000	GAS	\$ 19,524	26.1
9 SCHOOLCRAFT COUNTY COURT HOUSE	MANISTIQUE MI	3,000,000	GAS	\$ 19,524	26.1
10 MANISTIQUE DIMENSION	MANISTIQUE MI	1,474,000	GAS	\$ 791	345.1
11 HARBOR ENTERPRISES	MANISTIQUE MI	1,357,000	GAS	\$ 689	367.3
12 HERITAGE HOUSE APTS	MANISTIQUE MI	1,300,000	GAS	\$ 639	380.6
13 HERITAGE HOUSE APTS	MANISTIQUE MI	1,300,000	GAS	\$ 639	380.6
14 MANISTIQUE FLORAL CO	MANISTIQUE MI	1,260,000	GAS	\$ 604	391.1
15 MANISTIQUE FED CR. UNION	MANISTIQUE MI	1,125,000	GAS	\$ 486	437.4
16 FAIRVIEW SCHOOL	MANISTIQUE MI	1,010,000	GAS	\$ 385	498.5
17 FAIRVIEW SCHOOL	MANISTIQUE MI	1,010,000	GAS	\$ 385	498.5
18 MANISTIQUE AREA SCHHOLS	MANISTIQUE MI	1,000,000	GAS	\$ 376	505.3
19 LINCOLN ELEMENTARY SCH	MANISTIQUE MI	1,000,000	GAS	\$ 376	505.3
20 LINCOLN ELEMENTARY SCHOOL	MANISTIQUE MI	1,000,000	GAS	\$ 376	505.3
21 SCHOOLCRAFT MED CARE FAC	MANISTIQUE MI	1,000,000	GAS	\$ 376	505.3
22 FAMILY PRIDE LAUNDRY	MANISTIQUE MI	961,700	GAS	\$ 342	534.7
23 SUPER WASH	MANISTIQUE MI	940,000	GAS	\$ 323	553.9
24 SCHOOLCRAFT MED CARE FAC	MANISTIQUE MI	792,000	GAS	\$ 194	785.0
25 SCHOOLCRAFT MEDICAL CARE	MANISTIQUE MI	792,000	GAS	\$ 194	785.0
26 NORTHFORK RED MIX	MANISTIQUE MI	780,000	GAS	\$ 183	818.0
27 CAMP MANISTIQUE	MANISTIQUE MI	2,250,000	GAS	\$ 471	847.9
28 SCHOOLCRAFT MED CARE FAC	MANISTIQUE MI	700,000	GAS	\$ 113	1,193.5
29 SCHOOLCRAFT MED CARE FAC	MANISTIQUE MI	700,000	GAS	\$ 113	1,193.5
30 ALEX CREIGHTON FORD	MANISTIQUE MI	680,000	GAS	\$ 96	1,373.1
31 THOMPSON FISH HAT	THOMPSON MI	613,000	GAS	\$ 37	3,213.0
32 MICHIGAN NAT GUARD	MANISTIQUE MI	1,800,000	GAS	\$ 77	4,265.6

APPENDIX B COUNTY SUMMARIES

SHIAWASSEE

BTU		FUEL TYPE	
<750,000	210	GAS (Natural Gas)	349
750,001-2,500,000	88	PROPANE	0
2,500,001-5,000,000	18	OIL	5
5,000,001-15,000,000	13	WOOD	1
15,000,001-25,000,000	1	ELECTRIC	3
>25,000,001	0	COAL	1
N/A	29	OTHER	0
TOTAL	359	TOTAL	359

AGE		BOILER USE	
2000-present	76	Hot Water Heat	269
1980-1999	197	Hot Water Supply	37
1960-1979	74	Steam Heating	28
1945-1959	11	Power	16
older than 1945	1	Process Steam	7
N/A	0	Other	2
TOTAL	359	TOTAL	359

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	7,161
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	4		
16-20 years	3		
Greater than 21 years	352		
TOTAL	359		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 SCA PACKAGING	OWOSSO MI	24,354,000	GAS	\$ 167,673	10.4
2 GEORGIA PACIFIC CORPORATION	OWOSSO MI	14,650,000	GAS	\$ 99,667	14.1
3 MEMORIAL HEALTHCARE CTR	OWOSSO MI	12,800,000	GAS	\$ 86,702	14.8
4 MEMORIAL HEALTHCARE CTR	OWOSSO MI	12,555,000	GAS	\$ 84,985	14.9
5 SCA PACKAGING	OWOSSO MI	12,100,000	GAS	\$ 81,797	15.1
6 SHIAWASSEE COUNTY	CORUNNA MI	11,692,000	GAS	\$ 78,938	15.3
7 Y M C A	OWOSSO MI	132,000	ELECTRIC	\$ 1,466	17.9
8 WOODARD	OWOSSO MI	6,700,000	GAS	\$ 44,954	20.1
9 CORUNNA MIDDLE SCHOOL	CORUNNA MI	6,250,000	GAS	\$ 41,800	20.7
10 CORUNNA MIDDLE SCHOOL	CORUNNA MI	6,250,000	GAS	\$ 41,800	20.7
11 CORUNNA HIGH SCHOOL	CORUNNA MI	6,000,000	GAS	\$ 40,048	21.0
12 CORUNNA HIGH SCHOOL	CORUNNA MI	6,000,000	GAS	\$ 40,048	21.0
13 MEMORIAL HEALTHCARE CTR	OWOSSO MI	6,000,000	GAS	\$ 40,048	21.0
14 A O SMITH CORPORATION	OWOSSO MI	5,300,000	GAS	\$ 35,142	21.9
15 A O SMITH CORPORATION	OWOSSO MI	5,300,000	GAS	\$ 35,142	21.9
16 NEW LOTHROP HIGH SCHOOL	NEW LOTHROP MI	5,000,000	GAS	\$ 33,040	22.3
17 NEW LOTHROP HIGH SCHOOL	NEW LOTHROP MI	5,000,000	GAS	\$ 33,040	22.3
18 OWOSSO JR HIGH SCHOOL	OWOSSO MI	5,000,000	GAS	\$ 33,040	22.3
19 OWOSSO JR HIGH SCHOOL	OWOSSO MI	5,000,000	GAS	\$ 33,040	22.3
20 DURAND MIDDLE SCHOOL	DURAND MI	4,184,000	GAS	\$ 27,821	23.8
21 DURAND MIDDLE SCHOOL	DURAND MI	4,184,000	GAS	\$ 27,821	23.8
22 TUB TOWN CAR WASH	CORUNNA MI	659,000	OIL	\$ 5,273	24.2
23 CMS ENERGY CORPORATION	OWOSSO MI	3,750,000	GAS	\$ 24,780	24.6
24 CMS ENERGY CORPORATION	OWOSSO MI	3,750,000	GAS	\$ 24,780	24.6
25 WASHINGTON SCHOOL	OWOSSO MI	3,650,000	GAS	\$ 24,079	24.8
26 MORRICE HIGH SCHOOL	MORRICE MI	3,500,000	GAS	\$ 23,028	25.1
27 MORRICE HIGH SCHOOL	MORRICE MI	3,500,000	GAS	\$ 23,028	25.1
28 DURAND HIGH SCHOOL	DURAND MI	3,254,000	GAS	\$ 21,304	25.6
29 DURAND HIGH SCHOOL	DURAND MI	3,254,000	GAS	\$ 21,304	25.6
30 DURAND HIGH SCHOOL	DURAND MI	3,254,000	GAS	\$ 21,304	25.6
31 THE TOWN TUB	CORUNNA MI	144,000	OIL	\$ 761	37.6
32 SHIAWASSEE YMCA	OWOSSO MI	66,000	ELECTRIC	\$ 483	41.4
33 OWOSSO REDI MIX	OWOSSO MI	1,460,000	GAS	\$ 779	347.5
34 ADMIN & ADULT ED	CORUNNA MI	1,376,000	GAS	\$ 705	363.3
35 HEALTH & COURT BLDG	CORUNNA MI	1,365,000	GAS	\$ 696	365.6

APPENDIX B COUNTY SUMMARIES

ST CLAIR

BTU		FUEL TYPE	
<750,000	592	GAS (Natural Gas)	946
750,001-2,500,000	243	PROPANE	0
2,500,001-5,000,000	47	OIL	12
5,000,001-15,000,000	33	WOOD	0
15,000,001-25,000,000	4	ELECTRIC	32
>25,000,001	12	COAL	15
N/A	74	OTHER	0
TOTAL	1005	TOTAL	1005

AGE		BOILER USE	
2000-present	212	Hot Water Heat	681
1980-1999	533	Hot Water Supply	156
1960-1979	212	Steam Heating	85
1945-1959	36	Power	70
older than 1945	12	Process Steam	12
N/A	0	Other	1
TOTAL	1005	TOTAL	1005

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	1	Potential Wood Use	69,776
6-10 years	9	(Projects <20 yrs payback)	
11-15 years	19		
16-20 years	18		
Greater than 21 years	958		
TOTAL	1005		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BELLE RIVER POWER PLANT	ST CLAIR MI	15,000,000	ELECTRIC	\$ 312,360	4.6
2 BELLE RIVER POWER PLANT	ST CLAIR MI	10,196,640	ELECTRIC	\$ 211,374	5.2
3 BELLE RIVER POWER PLANT	ST CLAIR MI	10,196,640	ELECTRIC	\$ 211,374	5.2
4 GREENWOOD POWER PLANT	AVOCA MI	145,500,000	OIL	\$ 2,156,786	6.3
5 GREENWOOD POWER PLANT	AVOCA MI	145,500,000	OIL	\$ 2,156,786	6.3
6 BELLE RIVER POWER PLANT	ST CLAIR MI	12,380,400	OIL	\$ 181,369	6.9
7 BELLE RIVER POWER PLANT	ST CLAIR MI	12,380,400	OIL	\$ 181,369	6.9
8 DUNN PAPER	PORT HURON MI	63,340,000	GAS	\$ 433,887	7.5
9 DUNN PAPER	PORT HURON MI	70,600,000	GAS	\$ 484,765	8.1
10 INTERTAPE POLYMER	MARYSVILLE MI	28,000,000	GAS	\$ 193,224	9.1
11 ST CLAIR CNTY ROAD COMM	ST CLAIR MI	4,750,000	OIL	\$ 69,237	10.5
12 MARYSVILLE HYDROCARBONS	MARYSVILLE MI	110,700,000	GAS	\$ 765,786	10.9
13 HOLLAND WOODS INTER SCH	PORT HURON MI	3,200,000	OIL	\$ 46,154	11.6
14 BELLE RIVER POWER PLANT	ST CLAIR MI	1,473,280	ELECTRIC	\$ 21,440	12.7
15 DETROIT EDISON	AVOCA MI	1,400,000	ELECTRIC	\$ 20,349	12.8
16 BELLE RIVER POWER PLANT	ST CLAIR MI	1,260,000	ELECTRIC	\$ 18,264	12.9
17 GREENWOOD ENERGY CTR	AVOCA MI	1,260,000	ELECTRIC	\$ 18,264	12.9
18 GREENWOOD POWER PLANT	AVOCA MI	1,697,000	ELECTRIC	\$ 23,772	13.1
19 ANCHOR BAY HIGH SCHOOL	FAIRHAVEN MI	17,000,000	GAS	\$ 116,136	13.2
20 ANCHOR BAY HIGH SCHOOL	FAIRHAVEN MI	17,000,000	GAS	\$ 116,136	13.2
21 CHRYSLER CORP-MPD	MARYSVILLE MI	17,000,000	GAS	\$ 116,136	13.2
22 GREENWOOD ENERGY CENTER	AVOCA MI	1,576,000	ELECTRIC	\$ 21,970	13.2
23 GREENWOOD ENERGY CENTER	AVOCA MI	1,576,000	ELECTRIC	\$ 21,970	13.2
24 BELLE RIVER PLANT	ST CLAIR MI	1,500,000	ELECTRIC	\$ 20,838	13.3
25 BELLE RIVER POWER PLANT	ST CLAIR MI	1,500,000	ELECTRIC	\$ 20,838	13.3
26 FAGERDALA PACLITE	MARINE CITY MI	16,475,000	GAS	\$ 112,457	13.4
27 MARYSVILLE-POWER PLT	MARYSVILLE MI	543,200	ELECTRIC	\$ 7,589	13.9
28 BELLE RIVER POWER PLANT	ST CLAIR MI	312,375	ELECTRIC	\$ 4,152	14.8
29 ACHESON INDUSTRIES INC	PORT HURON MI	12,554,000	GAS	\$ 84,978	14.9
30 THOMAS EDISON INN	PORT HURON MI	12,225,000	GAS	\$ 82,673	15.1
31 ACHESON INDUSTRIES INC	PORT HURON MI	12,000,000	GAS	\$ 81,096	15.2
32 FAGERDALA PACLITE	MARINE CITY MI	10,500,000	GAS	\$ 70,584	15.8
33 DETROIT EDISON CO	ST CLAIR MI	210,000	ELECTRIC	\$ 2,627	15.8
34 DETROIT EDISON CO	ST CLAIR MI	210,000	ELECTRIC	\$ 2,627	15.8
35 ST CLAIR HIGH SCHOOL	ST CLAIR MI	10,460,000	GAS	\$ 70,304	15.8
36 ACHESON INDUSTRIES INC	PORT HURON MI	8,728,000	GAS	\$ 59,166	17.6
37 NORTHERN HIGH SCH	PORT HURON MI	8,625,000	GAS	\$ 58,444	17.8
38 NORTHERN HIGH SCH	PORT HURON MI	8,625,000	GAS	\$ 58,444	17.8
39 ST CLAIR CTY BLDG AUTH	PORT HURON MI	8,400,000	GAS	\$ 56,867	18.0
40 MUELLER INDUSTRIES INC	MARYSVILLE MI	8,369,000	GAS	\$ 56,650	18.1
41 MERCY HOSPITAL	PORT HURON MI	8,369,000	GAS	\$ 56,650	18.1
42 ALGON-QUIN JUNIOR HIGH	ALGONAC MI	122,946	ELECTRIC	\$ 1,331	18.4
43 LAKE HURON WATER PLANT	FORT GRATIOT MI	7,520,000	GAS	\$ 50,700	19.1
44 LAKE HURON WATER PLANT	FORT GRATIOT MI	7,520,000	GAS	\$ 50,700	19.1
45 ALGON QUIN JUNIOR HIGH	ALGONAC MI	7,500,000	GAS	\$ 50,560	19.1
46 PORT HURON HIGH SCHOOL	PORT HURON MI	7,500,000	GAS	\$ 50,560	19.1
47 PORT HURON HIGH SCHOOL	PORT HURON MI	7,500,000	GAS	\$ 50,560	19.1

APPENDIX B COUNTY SUMMARIES

ST JOSEPH

BTU		FUEL TYPE	
<750,000	182	GAS (Natural Gas)	338
750,001-2,500,000	55	PROPANE	0
2,500,001-5,000,000	13	OIL	9
5,000,001-15,000,000	11	WOOD	12
15,000,001-25,000,000	6	ELECTRIC	5
>25,000,001	5	COAL	2
N/A	94	OTHER	0
TOTAL	366	TOTAL	366

AGE		BOILER USE	
2000-present	78	Hot Water Heat	245
1980-1999	183	Hot Water Supply	44
1960-1979	75	Steam Heating	24
1945-1959	19	Power	33
older than 1945	11	Process Steam	8
N/A	0	Other	12
TOTAL	366	TOTAL	366

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	5
1-5 Years	0	Potential Wood Use	39,176
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	12		
16-20 years	2		
Greater than 21 years	347		
TOTAL	366		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 COVALENCE SPECIALTY MATERIALS HOI	CONSTANTINE MI	30,780,000	GAS	\$ 210,706	7.2
2 COVALENCE SPECIALTY MATERIALS HOI	CONSTANTINE MI	30,780,000	GAS	\$ 210,706	7.2
3 ROSS PRODUCTS/ED ROTH	STURGIS MI	60,000,000	GAS	\$ 410,480	7.3
4 ROSS PRODUCTS/ED ROTH	STURGIS MI	74,000,000	GAS	\$ 508,592	8.3
5 MENDON JR & SENIOR HIGH	MENDON MI	5,700,000	OIL	\$ 82,884	9.8
6 STURGIS HOSPITAL	STURGIS MI	5,175,000	OIL	\$ 75,066	10.1
7 AMERICAN AXLE	THREE RIVERS MI	22,809,000	GAS	\$ 156,845	11.0
8 AMERICAN AXLE & MFG	THREE RIVERS MI	22,809,000	GAS	\$ 156,845	11.0
9 MICHIGAN MILK PRODUCERS	CONSTANTINE MI	20,922,000	GAS	\$ 143,621	11.7
10 WEYERHAEUSER COMPANY	THREE RIVERS MI	20,922,000	GAS	\$ 143,621	11.7
11 DAY INTERNATIONAL INCORPORATED	THREE RIVERS MI	20,922,000	GAS	\$ 143,621	11.7
12 AMERICAN AXLE	THREE RIVERS MI	20,411,000	GAS	\$ 140,040	11.9
13 JOHNSON CORPORATION	THREE RIVERS MI	125,000,000	GAS	\$ 866,000	11.9
14 MAPLE TOWERS APARTMENTS	STURGIS MI	735,000	ELECTRIC	\$ 10,446	13.6
15 THREE RIVERS COMM SCHLS	THREE RIVERS MI	400,000	ELECTRIC	\$ 5,457	14.4
16 CITY OF STURGIS	STURGIS MI	392,000	ELECTRIC	\$ 5,338	14.4
17 THE JOHNSON CORPORATION	THREE RIVERS MI	12,500,000	GAS	\$ 84,600	15.0
18 WHITE PIGEON HIGH SCHOOL	WHITE PIGEON MI	8,625,000	GAS	\$ 58,444	17.8
19 FIBRE CONVERTERS	CONSTANTINE MI	105,000	ELECTRIC	\$ 1,064	19.6
20 AMERICAN AXLE	THREE RIVERS MI	6,500,000	GAS	\$ 43,552	20.3
21 MHA SERVICE CORPORATION	THREE RIVERS MI	6,277,000	GAS	\$ 41,989	20.6
22 MHA SERVICE CORPORATION	THREE RIVERS MI	6,277,000	GAS	\$ 41,989	20.6
23 STURGIS HOSPITAL	STURGIS MI	6,000,000	GAS	\$ 40,048	21.0
24 MENDON JR & SENIOR HIGH	MENDON MI	5,700,000	GAS	\$ 37,946	21.4
25 MHA SERVICE CORPORATION	STURGIS MI	5,650,000	GAS	\$ 37,595	21.4
26 JEROLENE SCHOOL	STURGIS MI	810,000	OIL	\$ 6,596	23.6
27 CONSUMERS ENERGY	WHITE PIGEON MI	4,250,000	GAS	\$ 28,284	23.7
28 STURGIS YOUNG AUDITORIUM	STURGIS MI	4,000,000	GAS	\$ 26,532	24.1
29 ARMSTRONG MACHINE WORKS	THREE RIVERS MI	3,750,000	GAS	\$ 24,780	24.6
30 CENTREVILLE PUBLIC SCHOOLS	CENTREVILLE MI	3,560,000	GAS	\$ 23,448	25.0
31 WALL ELEMENTARY SCHOOL	STURGIS MI	3,520,000	GAS	\$ 23,168	25.0
32 STURGIS SCH WALL ELEM	STURGIS MI	3,520,000	GAS	\$ 23,168	25.0
33 STURGIS HIGH SCHOOL	STURGIS MI	3,520,000	GAS	\$ 23,168	25.0
34 STURGIS HIGH SCHOOL	STURGIS MI	3,520,000	GAS	\$ 23,168	25.0
35 STURGIS HIGH SCHOOL	STURGIS MI	3,520,000	GAS	\$ 23,168	25.0

APPENDIX B COUNTY SUMMARIES

TUSCOLA

BTU		FUEL TYPE	
<750,000	291	GAS (Natural Gas)	388
750,001-2,500,000	67	PROPANE	2
2,500,001-5,000,000	15	OIL	6
5,000,001-15,000,000	7	WOOD	3
15,000,001-25,000,000	0	ELECTRIC	5
>25,000,001	5	COAL	1
N/A	20	OTHER	0
TOTAL	405	TOTAL	405

AGE		BOILER USE	
2000-present	95	Hot Water Heat	309
1980-1999	210	Hot Water Supply	48
1960-1979	87	Steam Heating	25
1945-1959	9	Power	20
older than 1945	4	Process Steam	2
N/A	0	Other	1
TOTAL	405	TOTAL	405

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	3,154
1-5 Years	1	Potential Wood Use	17,113
6-10 years	3	(Projects <20 yrs payback)	
11-15 years	0		
16-20 years	6		
Greater than 21 years	395		
TOTAL	405		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 MICHIGAN SUGAR	CARO MI	69,000,000	OIL	\$ 1,017,548	3.7
2 CARO CENTER	CARO MI	40,000,000	GAS	\$ 275,320	6.5
3 MICHIGAN SUGAR	CARO MI	65,272,000	GAS	\$ 447,426	7.7
4 CARO CENTER	CARO MI	25,500,000	GAS	\$ 175,704	10.0
5 BROIN COMPANIES	CARO MI	10,438,080	GAS	\$ 70,150	15.8
6 JUNIATA CHRISTIAN SCHOOL	VASSAR MI	250,000	PROPANE	\$ 2,785	17.7
7 AKRON-FAIRGROVE JR/SR HI	FAIRGROVE MI	126,000	ELECTRIC	\$ 1,376	18.2
8 DEPT OF NATURAL RESOURCE	CASS CITY MI	180,000	PROPANE	\$ 1,865	19.1
9 CARO COMMUNITY HOSPITAL	CARO MI	105,000	ELECTRIC	\$ 1,064	19.6
10 CARO COMMUNITY HOSPITAL	CARO MI	105,000	ELECTRIC	\$ 1,064	19.6
11 LIVING WORD CH OF GOD	CASS CITY MI	6,750,000	GAS	\$ 45,304	20.0
12 KIRK ELEM SCHOOL	MILLINGTON MI	6,300,000	GAS	\$ 42,150	20.6
13 REESE HIGH SCHOOL	REESE MI	6,000,000	GAS	\$ 40,048	21.0
14 REESE HIGH SCHOOL	REESE MI	6,000,000	GAS	\$ 40,048	21.0
15 CARO HIGH SCHOOL	CARO MI	5,230,000	GAS	\$ 34,652	22.0
16 S M GLAZA ELEM SCHOOL	MILLINGTON MI	4,184,000	GAS	\$ 27,821	23.8
17 MAYVILLE HIGH SCHOOL	MAYVILLE MI	3,843,000	GAS	\$ 25,432	24.4
18 MCCOMB ELEMENTARY SCHOOL	CARO MI	3,770,000	GAS	\$ 24,920	24.6
19 ENGINE MANAGEMENT LLC	CASS CITY MI	3,500,000	GAS	\$ 23,028	25.1
20 VITA PLUS CORPORATION	GAGETOWN MI	3,348,000	GAS	\$ 21,963	25.4
21 VASSAR HIGH SCHOOL	VASSAR MI	3,000,000	GAS	\$ 19,524	26.1
22 VASSAR HIGH SCHOOL	VASSAR MI	3,000,000	GAS	\$ 19,524	26.1
23 VILLAGE OF CASS CITY	CASS CITY MI	377,000	OIL	\$ 2,803	26.4
24 RIVERVIEW AFC	CASS CITY MI	290,000	OIL	\$ 2,040	28.0
25 DEFORD COUNTRY GROCERY	DEFORD MI	244,000	OIL	\$ 1,637	29.4
26 EARLY CHILD EDUCATION CENTER	CASS CITY MI	1,440,000	GAS	\$ 761	351.0
27 AKRON FAIRGROVE ELEM SCH	AKRON MI	1,435,000	GAS	\$ 757	351.9
28 AKRON FAIRGROVE HIGH SCHOOL	FAIRGROVE MI	1,435,000	GAS	\$ 757	351.9
29 AKRON FAIRGROVE HIGH SCHOOL	FAIRGROVE MI	1,435,000	GAS	\$ 757	351.9
30 AKRON FAIRGROVE HIGH SCHOOL	FAIRGROVE MI	1,435,000	GAS	\$ 757	351.9
31 REESE MIDDLE SCHOOL	REESE MI	1,400,000	GAS	\$ 726	358.5
32 REESE MIDDLE SCHOOL	REESE MI	1,400,000	GAS	\$ 726	358.5
33 REESE MIDDLE SCHOOL	REESE MI	1,400,000	GAS	\$ 726	358.5
34 KINGSTON PUBLIC SCHOOLS	KINGSTON MI	1,375,000	GAS	\$ 705	363.5
35 CARO WASTE WATER PLANT	CARO MI	1,352,000	GAS	\$ 684	368.4

APPENDIX B COUNTY SUMMARIES

VAN BUREN

BTU		FUEL TYPE	
<750,000	229	GAS (Natural Gas)	375
750,001-2,500,000	68	PROPANE	2
2,500,001-5,000,000	14	OIL	15
5,000,001-15,000,000	22	WOOD	2
15,000,001-25,000,000	0	ELECTRIC	15
>25,000,001	4	COAL	0
N/A	81	OTHER	9
TOTAL	418	TOTAL	418

AGE		BOILER USE	
2000-present	104	Hot Water Heat	258
1980-1999	172	Hot Water Supply	58
1960-1979	125	Steam Heating	50
1945-1959	14	Power	34
older than 1945	3	Process Steam	16
N/A	0	Other	2
TOTAL	418	TOTAL	418

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	1
1-5 Years	1	Potential Wood Use	27,655
6-10 years	5	(Projects <20 yrs payback)	
11-15 years	11		
16-20 years	12		
Greater than 21 years	389		
TOTAL	418		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 ENTERGY NUCLEAR OPERATIONS INC	COVERT MI	31,383,000	OIL	\$ 462,356	3.3
2 WELCH'S	LAWTON MI	50,050,000	GAS	\$ 340,750	6.6
3 WELCH'S	LAWTON MI	53,090,000	GAS	\$ 362,055	6.8
4 MPI RESEARCH	MATTAWAN MI	12,500,000	OIL	\$ 183,150	6.9
5 MPI RESEARCH	MATTAWAN MI	12,500,000	OIL	\$ 183,150	6.9
6 MPI RESEARCH	MATTAWAN MI	12,500,000	OIL	\$ 183,150	6.9
7 BURNETT FOODS	HARTFORD MI	25,106,000	GAS	\$ 172,943	10.1
8 MIDDLE SCHOOL	BANGOR MI	1,890,000	ELECTRIC	\$ 26,646	12.8
9 MIDDLE SCHOOL	BANGOR MI	1,890,000	ELECTRIC	\$ 26,646	12.8
10 VANBUREN VOCATIONAL TECH CTR	LAWRENCE MI	428,400	ELECTRIC	\$ 5,880	14.3
11 LAKEVIEW COMMUNITY HOSPITAL	PAW PAW MI	420,000	ELECTRIC	\$ 5,755	14.3
12 HONEE BEAR CANNING	LAWTON MI	13,510,000	GAS	\$ 91,678	14.5
13 BANGOR HIGH SCHOOL	BANGOR MI	315,000	ELECTRIC	\$ 4,191	14.8
14 MPI RESEARCH	MATTAWAN MI	12,500,000	GAS	\$ 84,600	15.0
15 MPI RESEARCH	MATTAWAN MI	12,500,000	GAS	\$ 84,600	15.0
16 MPI RESEARCH	MATTAWAN MI	12,500,000	GAS	\$ 84,600	15.0
17 MPI RESEARCH	MATTAWAN MI	12,500,000	GAS	\$ 84,600	15.0
18 KNOUSE FOODS	PAW PAW MI	10,461,000	GAS	\$ 70,311	15.8
19 SOUTH HAVEN COMMUNITY HOSPITAL	SOUTH HAVEN MI	168,000	ELECTRIC	\$ 2,002	16.6
20 BANGOR HIGH SCHOOL	BANGOR MI	165,000	ELECTRIC	\$ 1,957	16.7
21 VAN BUREN INTERMEDIATE SCHOOL DISTRICT	LAWRENCE MI	147,000	ELECTRIC	\$ 1,689	17.3
22 GENERAL MOTOR POWERTRAIN	WIXOM MI	9,000,000	GAS	\$ 61,072	17.3
23 LATE ELEM. SCHOOL	MATTAWAN MI	8,400,000	GAS	\$ 56,867	18.0
24 SOUTH HAVEN COMM HOSP	SOUTH HAVEN MI	8,394,000	GAS	\$ 56,825	18.0
25 DECATUR PUBLIC SCHOOLS	DECATUR MI	8,370,000	GAS	\$ 56,657	18.1
26 ALBEMARLE CORPORATION	SOUTH HAVEN MI	8,369,000	GAS	\$ 56,650	18.1
27 VAN BUREN VOCATIONAL TECH CENTER	LAWRENCE MI	8,000,000	GAS	\$ 54,064	18.5
28 PAW PAW PUBLIC SCHOOL	PAW PAW MI	7,000,000	GAS	\$ 47,056	19.7
29 SOUTH HAVEN COMMUNITY HOSPITAL	SOUTH HAVEN MI	6,900,000	GAS	\$ 46,355	19.8
30 DECATUR PUBLIC SCHOOLS	DECATUR MI	6,278,000	GAS	\$ 41,996	20.6
31 DECATUR PUBLIC SCHOOLS	DECATUR MI	6,250,000	GAS	\$ 41,800	20.7
32 ENTERGY NUCLEAR OPERATIONS INC	COVERT MI	2,700,000	OIL	\$ 22,152	21.1
33 LOWER ELEMENTARY SCHOOL	BANGOR MI	5,231,000	GAS	\$ 34,659	22.0
34 GOBLES HIGH SCHOOL	GOBLES MI	5,120,000	GAS	\$ 33,881	22.2
35 GOBLES HIGH SCHOOL	GOBLES MI	5,120,000	GAS	\$ 33,881	22.2

APPENDIX B COUNTY SUMMARIES

WASHTENAW

BTU		FUEL TYPE	
<750,000	1567	GAS (Natural Gas)	2791
750,001-2,500,000	662	PROPANE	1
2,500,001-5,000,000	114	OIL	11
5,000,001-15,000,000	104	WOOD	4
15,000,001-25,000,000	17	ELECTRIC	41
>25,000,001	12	COAL	6
N/A	378	OTHER	0
TOTAL	2854	TOTAL	2854

AGE		BOILER USE	
2000-present	675	Hot Water Heat	1809
1980-1999	1334	Hot Water Supply	540
1960-1979	761	Steam Heating	297
1945-1959	60	Power	143
older than 1945	24	Process Steam	62
N/A	0	Other	3
TOTAL	2854	TOTAL	2854

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	0	Potential Wood Use	122,139
6-10 years	6	(Projects <20 yrs payback)	
11-15 years	35		
16-20 years	67		
Greater than 21 years	2746		
TOTAL	2854		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 PFIZER	ANN ARBOR MI	48,500,000	GAS	\$ 334,888	5.9
2 CENTER FOR FORENSIC PSY	YPSILANTI MI	55,000,000	GAS	\$ 375,440	7.0
3 CENTER FOR FORENSIC PSY	YPSILANTI MI	55,000,000	GAS	\$ 375,440	7.0
4 PFIZER	ANN ARBOR MI	58,200,000	GAS	\$ 397,866	7.2
5 ST JOSEPH MERCY HOSPITAL	ANN ARBOR MI	70,358,000	GAS	\$ 483,069	8.0
6 UNIVERSITY OF MICHIGAN	ANN ARBOR MI	96,905,000	GAS	\$ 669,110	9.9
7 WASHTENAW COMM COLLEGE	ANN ARBOR MI	25,106,000	GAS	\$ 172,943	10.1
8 WASHTENAW COMM COLLEGE	ANN ARBOR MI	25,106,000	GAS	\$ 172,943	10.1
9 EDWARDS BROTHERS	ANN ARBOR MI	100,240,000	GAS	\$ 692,482	10.2
10 YPSILANTI COMM UTILITY	YPSILANTI MI	21,000,000	GAS	\$ 144,168	11.7
11 YPSILANTI COMM UTILITY	YPSILANTI MI	21,000,000	GAS	\$ 144,168	11.7
12 UNIVERSITY OF MICHIGAN COLLEGE OF	ANN ARBOR MI	20,923,000	GAS	\$ 143,628	11.7
13 UNIVERSITY OF MICHIGAN COLLEGE OF	ANN ARBOR MI	20,923,000	GAS	\$ 143,628	11.7
14 FLINT INK CORP RESER CTR	ANN ARBOR MI	20,920,000	GAS	\$ 143,607	11.7
15 FLINT INK CORP RESER CENTER	ANN ARBOR MI	20,920,000	GAS	\$ 143,607	11.7
16 PROVING GROUNDS	CHELSEA MI	20,411,600	GAS	\$ 140,044	11.9
17 PROVING GROUNDS	CHELSEA MI	20,411,600	GAS	\$ 140,044	11.9
18 LINCOLN MIDDLE SCHOOL	YPSILANTI MI	19,000,000	GAS	\$ 130,152	12.4
19 LINCOLN MIDDLE SCHOOL	YPSILANTI MI	19,000,000	GAS	\$ 130,152	12.4
20 SALINE AREA HIGH SCHOOL	SALINE MI	17,800,000	GAS	\$ 121,742	12.9
21 SALINE AREA HIGH SCHOOL	SALINE MI	17,800,000	GAS	\$ 121,742	12.9
22 AMERICAN SOY	SALINE MI	16,738,000	GAS	\$ 114,300	13.3
23 CONCORDIA COLLEGE	ANN ARBOR MI	16,737,000	GAS	\$ 114,293	13.3
24 G G BROWN LAB	ANN ARBOR MI	16,361,000	GAS	\$ 111,658	13.4
25 G G BROWN LAB	ANN ARBOR MI	16,361,000	GAS	\$ 111,658	13.4
26 GEORGIA-PACIFIC CORPORATION	MILAN MI	16,329,300	GAS	\$ 111,436	13.4
27 DETROIT EDISON CO	ANN ARBOR MI	567,000	ELECTRIC	\$ 7,944	13.9
28 YPSILANTI SR HIGH SCH	YPSILANTI MI	14,650,000	GAS	\$ 99,667	14.1
29 YPSILANTI SR HIGH SCH	YPSILANTI MI	14,650,000	GAS	\$ 99,667	14.1
30 DOMINOS FARMS CORPORATION	ANN ARBOR MI	476,000	ELECTRIC	\$ 6,589	14.1
31 DOMINOS FARMS CORPORATION	ANN ARBOR MI	476,000	ELECTRIC	\$ 6,589	14.1
32 DOMINOS FARMS CORPORATION	ANN ARBOR MI	357,000	ELECTRIC	\$ 4,816	14.6
33 U OF M CENTRAL HEATING	ANN ARBOR MI	13,400,000	GAS	\$ 90,907	14.6
34 U OF M CENTRAL HEATING PLANT	ANN ARBOR MI	13,400,000	GAS	\$ 90,907	14.6
35 BURSLEY HALL	ANN ARBOR MI	12,600,000	GAS	\$ 85,301	14.9
36 BURSLEY HALL	ANN ARBOR MI	12,600,000	GAS	\$ 85,301	14.9
37 BURSLEY HALL	ANN ARBOR MI	12,600,000	GAS	\$ 85,301	14.9
38 WILLOW RUN HIGH SCHOOLS	YPSILANTI MI	12,600,000	GAS	\$ 85,301	14.9
39 WILLOW RUN HIGH SCHOOLS	YPSILANTI MI	12,600,000	GAS	\$ 85,301	14.9
40 G G BROWN LAB	ANN ARBOR MI	12,553,000	GAS	\$ 84,971	14.9
41 UNIVERSITY TOWERS	ANN ARBOR MI	12,540,000	GAS	\$ 84,880	14.9
42 LINCOLN HIGH SCHOOL	YPSILANTI MI	12,247,000	GAS	\$ 82,827	15.1
43 LINCOLN HIGH SCHOOL	YPSILANTI MI	12,247,000	GAS	\$ 82,827	15.1
44 PIONEER HIGH SCHOOL	ANN ARBOR MI	12,000,000	GAS	\$ 81,096	15.2
45 PIONEER HIGH SCHOOL	ANN ARBOR MI	12,000,000	GAS	\$ 81,096	15.2
46 CITY OF ANN ARBOR SEWAGE TREATME	ANN ARBOR MI	12,000,000	GAS	\$ 81,096	15.2
47 CITY OF ANN ARBOR SEWAGE TREATME	ANN ARBOR MI	12,000,000	GAS	\$ 81,096	15.2

APPENDIX B COUNTY SUMMARIES

WASHTENAW

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 CITY OF SALINE	SALINE MI	12,000,000	GAS	\$ 81,096	15.2
49 U OF M HOUSING FACILITIES	ANN ARBOR MI	11,626,000	GAS	\$ 78,475	15.3
50 U OF M HOUSING FACILITIES	ANN ARBOR MI	11,626,000	GAS	\$ 78,475	15.3
51 PALL CORPORATION	ANN ARBOR MI	245,736	ELECTRIC	\$ 3,160	15.4
52 BALLY TOTAL FITNESS	ANN ARBOR MI	11,118,400	GAS	\$ 74,918	15.5
53 SALINE HIGH SCHOOL	SALINE MI	11,000,000	GAS	\$ 74,088	15.6
54 SALINE HIGH SCHOOL	SALINE MI	11,000,000	GAS	\$ 74,088	15.6
55 SALINE HIGH SCHOOL	SALINE MI	11,000,000	GAS	\$ 74,088	15.6
56 NORTH CAMPUS REC BLDG	ANN ARBOR MI	10,900,000	GAS	\$ 73,387	15.6
57 VISTEON	MILAN MI	10,461,000	GAS	\$ 70,311	15.8
58 VISTEON	MILAN MI	10,461,000	GAS	\$ 70,311	15.8
59 MARSH PLATING CORPORATION	YPSILANTI MI	10,461,000	GAS	\$ 70,311	15.8
60 SALEM EV LUTHERAN CHURCH	ANN ARBOR MI	10,400,000	GAS	\$ 69,883	15.8
61 NATIONAL SANITATION FOUN	ANN ARBOR MI	9,200,000	GAS	\$ 62,474	17.1
62 NATIONAL SANITATION FOUN	ANN ARBOR MI	9,200,000	GAS	\$ 62,474	17.1
63 HURON HIGH SCHOOL	ANN ARBOR MI	9,000,000	GAS	\$ 61,072	17.3
64 HURON HIGH SCHOOL	ANN ARBOR MI	9,000,000	GAS	\$ 61,072	17.3
65 DONINOS FARM CORP	ANN ARBOR MI	9,000,000	GAS	\$ 61,072	17.3
66 DONINOS FARM CORP	ANN ARBOR MI	9,000,000	GAS	\$ 61,072	17.3
67 SALINE MIDDLE SCHOOL	SALINE MI	9,000,000	GAS	\$ 61,072	17.3
68 SALINE MIDDLE SCHOOL	SALINE MI	9,000,000	GAS	\$ 61,072	17.3
69 PALL CORPORATION	ANN ARBOR MI	140,000	ELECTRIC	\$ 1,585	17.5
70 PLYMOUTH PARK #4	ANN ARBOR MI	8,500,000	GAS	\$ 57,568	17.9
71 BOYS TRAINING SCHOOL	WHITMORE LAKE MI	8,500,000	GAS	\$ 57,568	17.9
72 L L FORSYTHE JR HIGH SCH	ANN ARBOR MI	8,400,000	GAS	\$ 56,867	18.0
73 L L FORSYTHE JR HIGH SCH	ANN ARBOR MI	8,400,000	GAS	\$ 56,867	18.0
74 SCHOOL OF MUSIC	ANN ARBOR MI	8,375,000	GAS	\$ 56,692	18.1
75 SCHOOL OF MUSIC	ANN ARBOR MI	8,375,000	GAS	\$ 56,692	18.1
76 SPACE RESEARCH BUILDING	ANN ARBOR MI	8,370,000	GAS	\$ 56,657	18.1
77 COOLEY BUILDING	ANN ARBOR MI	8,370,000	GAS	\$ 56,657	18.1
78 UNIV MICROFILM INTRNTL	ANN ARBOR MI	8,370,000	GAS	\$ 56,657	18.1
79 UNIV MICROFILM INTRNTL	ANN ARBOR MI	8,370,000	GAS	\$ 56,657	18.1
80 ARGUS II	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
81 PIERPONT COMMONS	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
82 PIERPONT COMMONS	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
83 AEROSPACE ENGR	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
84 DUDERSTADT CENTER	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
85 DUDERSTADT CENTER	ANN ARBOR MI	8,369,000	GAS	\$ 56,650	18.1
86 CHELSEA COMM. HOSPITAL	CHELSEA MI	8,369,000	GAS	\$ 56,650	18.1
87 DEXTER HIGH SCHOOL	DEXTER MI	8,309,000	GAS	\$ 56,229	18.1
88 DEXTER HIGH SCHOOL	DEXTER MI	8,309,000	GAS	\$ 56,229	18.1
89 TARGET CORP/MARSHALL FIELD	ANN ARBOR MI	126,000	ELECTRIC	\$ 1,376	18.2
90 PINTER BROTHERS GRNHOUSE	YPSILANTI MI	8,056,000	GAS	\$ 54,456	18.4
91 ACE DRY CLEANERS	ANN ARBOR MI	120,000	ELECTRIC	\$ 1,287	18.5
92 GM POWERTRAIN DIVISION	YPSILANTI MI	120,000	ELECTRIC	\$ 1,287	18.5
93 PACKARD CLEANERS	ANN ARBOR MI	116,042	ELECTRIC	\$ 1,228	18.8
94 HOLIDAY INN	ANN ARBOR MI	7,490,000	GAS	\$ 50,490	19.1
95 CITY OF YPSILANTI	YPSILANTI MI	7,415,675	GAS	\$ 49,969	19.2
96 MARSHALL FIELDS	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
97 UNIVERSITY OF MICHIGAN HOSPITAL	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
98 UNIVERSITY OF MICHIGAN HOSPITAL	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
99 UNIVERSITY OF MICHIGAN HOSPITAL	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
100 UNIVERSITY OF MICHIGAN HOSPITAL	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
101 UNIVERSITY OF MICHIGAN HOSPITAL	ANN ARBOR MI	105,000	ELECTRIC	\$ 1,064	19.6
102 CHELSEA RETIREMENT HOME	CHELSEA MI	7,000,000	GAS	\$ 47,056	19.7
103 CHELSEA RETIREMENT HOME	CHELSEA MI	7,000,000	GAS	\$ 47,056	19.7
104 BRICK ELEM SCHOOL	YPSILANTI MI	7,000,000	GAS	\$ 47,056	19.7
105 BRICK ELEMENTARY SCHOOL	YPSILANTI MI	7,000,000	GAS	\$ 47,056	19.7
106 U OF M HOUSING FACILITIES	ANN ARBOR MI	6,982,000	GAS	\$ 46,930	19.7
107 U OF M HOUSING FACILITIES	ANN ARBOR MI	6,982,000	GAS	\$ 46,930	19.7
108 CHELSEA HOSPITAL	CHELSEA MI	102,000	ELECTRIC	\$ 1,019	19.9

APPENDIX B COUNTY SUMMARIES

WAYNE

BTU		FUEL TYPE	
<750,000	3496	GAS (Natural Gas)	6790
750,001-2,500,000	2014	PROPANE	0
2,500,001-5,000,000	448	OIL	40
5,000,001-15,000,000	304	WOOD	0
15,000,001-25,000,000	40	ELECTRIC	140
>25,000,001	53	COAL	19
N/A	650	OTHER	16
TOTAL	7005	TOTAL	7005

AGE		BOILER USE	
2000-present	1274	Hot Water Heat	4219
1980-1999	3414	Hot Water Supply	1426
1960-1979	2037	Steam Heating	627
1945-1959	246	Power	516
older than 1945	32	Process Steam	213
N/A	2	Other	4
TOTAL	7005	TOTAL	7005

SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	-
1-5 Years	2	Potential Wood Use	356,999
6-10 years	32	(Projects <20 yrs payback)	
11-15 years	109		
16-20 years	173		
Greater than 21 years	6689		
TOTAL	7005		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 BULLDOG BOILER RENTAL	HAMTRAMCK MI	26,800,000	OIL	\$ 396,106	4.4
2 BAG PLANT - PRAXAIR	ECORSE, MI	25,712,000	OIL	\$ 379,903	4.6
3 DARLING INTERNATIONAL INCORPORATION	MELVINDALE MI	49,100,000	GAS	\$ 339,093	5.9
4 BULLDOG BOILER	HAMTRAMCK MI	48,000,000	GAS	\$ 331,384	5.9
5 PFIZER	PLYMOUTH TOWNSHIP	40,000,000	GAS	\$ 275,320	6.5
6 BULLDOG BOILER	HAMTRAMCK MI	50,000,000	GAS	\$ 340,400	6.6
7 DARLING INTERNATIONAL INCORPORATION	MELVINDALE MI	51,076,000	GAS	\$ 347,941	6.7
8 BULLDOG BOILER RENTALS	HAMTRAMCK MI	37,800,000	GAS	\$ 259,902	6.7
9 WAYNE COUNTY AIRPORT AUTHORITY	ROMULUS MI	37,500,000	GAS	\$ 257,800	6.7
10 WAYNE COUNTY AIRPORT AUTHORITY	ROMULUS MI	37,500,000	GAS	\$ 257,800	6.7
11 WAYNE COUNTY AIRPORT AUTHORITY	ROMULUS MI	37,500,000	GAS	\$ 257,800	6.7
12 DETROIT METRO AIRPORT	ROMULUS MI	54,000,000	GAS	\$ 368,432	6.9
13 BULLDOG BOILER	HAMTRAMCK MI	33,500,000	GAS	\$ 229,768	7.0
14 BULLDOG BOILER	HAMTRAMCK MI	33,500,000	GAS	\$ 229,768	7.0
15 OAKWOOD HOSPITAL	DEARBORN MI	33,476,000	GAS	\$ 229,600	7.0
16 OAKWOOD HOSPITAL	DEARBORN MI	33,476,000	GAS	\$ 229,600	7.0
17 INSITUFORM	DETROIT MI	11,458,254	OIL	\$ 167,636	7.1
18 EUGENE APPLEBAUM BLDG	DETROIT MI	32,659,000	GAS	\$ 223,874	7.1
19 BULLDOG BOILER	HAMTRAMCK MI	58,950,000	GAS	\$ 403,122	7.2
20 BULLDOG BOILER	HAMTRAMCK MI	30,190,000	GAS	\$ 206,572	7.3
21 BULLDOG BOILER	HAMTRAMCK MI	30,120,000	GAS	\$ 206,081	7.3
22 DETROIT OTHER CORPORATION	REDFORD TOWNSHIP	60,000,000	GAS	\$ 410,480	7.3
23 OAKWOOD HEALTHCARE INCORPORATION	WAYNE MI	30,000,000	GAS	\$ 205,240	7.3
24 ST FLORIAN PARISH	HAMTRAMCK MI	10,000,000	OIL	\$ 145,920	7.4
25 MARIANHILL MISSION SOC	DEARBORN HEIGHTS MI	8,050,000	OIL	\$ 117,881	8.5
26 BAG PLANT PRAXAIR	ECORSE, MI	29,450,000	GAS	\$ 203,386	8.5
27 BAG PLANT PRAXAIR	ECORSE, MI	29,450,000	GAS	\$ 203,386	8.5
28 ALLIED GENERAL SERVICES	DETROIT MI	29,291,000	GAS	\$ 202,271	8.6
29 FORD MOTOR CO PAINT PLANT	DEARBORN MI	83,700,000	GAS	\$ 576,570	9.0
30 NORTHVILLE STATE HOSP	NORTHVILLE MI	6,840,000	OIL	\$ 99,861	9.2
31 SIEMENS	DEARBORN MI	27,000,000	GAS	\$ 186,216	9.4
32 DEARBORN MEDICAL CTR	DEARBORN MI	6,250,000	OIL	\$ 91,075	9.5
33 BULLDOG BOILER	HAMTRAMCK MI	95,000,000	GAS	\$ 655,760	9.8
34 BULLDOG BOILER	HAMTRAMCK MI	25,900,000	GAS	\$ 178,507	9.8
35 HYATT REGENCY HOTEL	DEARBORN MI	25,106,000	GAS	\$ 172,943	10.1
36 ALLIED GENERAL SERVICES	DETROIT MI	25,106,000	GAS	\$ 151,176	10.1
37 GREAT LAKES WORKS	ECORSE MI	25,106,000	GAS	\$ 151,176	10.1
38 BULLDOG BOILER	HAMTRAMCK MI	25,106,000	GAS	\$ 50,622	10.1
39 HYATT REGENCY HOTEL	DEARBORN MI	25,106,000	GAS	\$ 144,168	10.1
40 HOLLINGASWORTH LOGISTICS	DEARBORN MI	25,106,000	GAS	\$ 144,168	10.1
41 HOLLINGASWORTH LOGISTICS	DEARBORN MI	25,106,000	GAS	\$ 144,168	10.1
42 BIO SCIENCE BLDG.	DETROIT MI	25,106,000	GAS	\$ 143,621	10.1
43 COUNTRY FRESH	LIVONIA MI	25,106,000	GAS	\$ 143,621	10.1
44 FORD MOTOR COMPANY	WOODHAVEN MI	25,106,000	GAS	\$ 143,621	10.1
45 FORD WOODHAVEN PLT	WOODHAVEN MI	25,106,000	GAS	\$ 143,621	10.1
46 PEPSICO INC	ALLEN PARK MI	24,495,900	GAS	\$ 44,367	10.3
47 EES OTHER BATTERY LLC	RIVER ROUGE MI	24,040,480	OIL	\$ 44,367	10.5

APPENDIX B COUNTY SUMMARIES

WAYNE

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
48 SHOPPERS WORLD	HAMTRAMCK MI	4,300,000	GAS	\$ 44,070	10.8
49 VENCOR HOSPITAL	LINCOLN PARK MI	22,700,000	OIL	\$ 140,044	11.0
50 MICHIGASN STATE POLICE	LIVONIA MI	3,830,000	GAS	\$ 140,044	11.2
51 SPRINGWELLS WATER TRTMT	DEARBORN MI	22,000,000	GAS	\$ 137,160	11.3
52 SPRINGWELLS WATER TRMT	DEARBORN MI	22,000,000	OIL	\$ 137,160	11.3
53 JC PENNEY	WESTLAND MI	3,500,000	GAS	\$ 137,160	11.4
54 CITY OF DEARBORN	DEARBORN MI	21,000,000	GAS	\$ 134,357	11.7
55 MICHIGASN TRUCK PLANT	WAYNE MI	21,000,000	GAS	\$ 131,554	11.7
56 MICHIGASN TRUCK PLANT	WAYNE MI	21,000,000	GAS	\$ 21,391	11.7
57 FORD MOTOR CO	BROWNSTOWN MI	20,922,000	GAS	\$ 20,974	11.7
58 FORD MOTOR CO	BROWNSTOWN MI	20,922,000	GAS	\$ 122,864	11.7
59 DEARBORN POWERHOUSE	DEARBORN MI	20,922,000	GAS	\$ 122,864	11.7
60 FAURECIA INTERIOR SYSTEMS	DETROIT MI	20,922,000	GAS	\$ 118,659	11.7
61 BAG PLANT (PRAXAIR)	ECORSE MI	20,921,875	OIL	\$ 117,888	11.7
62 BILL BROWN BODY SHOP	LIVONIA MI	3,080,000	OIL	\$ 117,888	11.7
63 BILL BROWN BODY SHOP	LIVONIA MI	3,080,000	OIL	\$ 114,384	11.7
64 JC PENNEY	LINCOLN PARK MI	3,060,000	GAS	\$ 114,384	11.8
65 G M POWERTRAIN DIV	ROMULUS MI	20,411,585	GAS	\$ 114,384	11.9
66 G M POWERTRAIN DIV	ROMULUS MI	20,411,585	GAS	\$ 114,384	11.9
67 COTTAGE HOSPITAL	GROSSE POINTE FARM	20,000,000	GAS	\$ 114,314	12.0
68 DETROIT OTHER CORPORATION	REDFORD TWP MI	20,000,000	GAS	\$ 114,300	12.0
69 PRAXAIR INC	ECORSE MI	20,000,000	GAS	\$ 114,300	12.0
70 BANOTAI GREENHOUSE	BELLEVILLE MI	19,600,000	GAS	\$ 114,300	12.2
71 SHELL OIL-RIVER ROUGE	RIVER ROUGE MI	19,200,000	ELECTRIC	\$ 114,300	12.3
72 JC PENNEY	DEARBORN MI	1,470,000	ELECTRIC	\$ 1,009,664	12.7
73 JC PENNEY	TAYLOR MI	1,442,000	GAS	\$ 111,931	12.8
74 BON SECOURS HOSPITAL	GROSSE POINTE MI	17,960,000	GAS	\$ 111,511	12.8
75 BON SECOURS HOSPITAL	GROSSE POINTE MI	17,960,000	GAS	\$ 10,937	12.8
76 KINDRED HOSPITAL	LINCOLN PARK MI	17,360,000	GAS	\$ 109,128	13.0
77 VOSS STEEL CORP	TAYLOR MI	17,250,000	GAS	\$ 10,371	13.1
78 ST JOHNS CONFERENCE CENTER	PLYMOUTH MI	17,250,000	GAS	\$ 9,924	13.1
79 FORD MOTOR CO PAINT PLANT	DEARBORN MI	16,750,000	GAS	\$ 1,063,275	13.3
80 FORD MOTOR CO PAINT PLANT	DEARBORN MI	16,750,000	GAS	\$ 102,470	13.3
81 ROOSEVELT HIGH SCHOOL	WYANDOTTE MI	16,750,000	GAS	\$ 102,470	13.3
82 ROOSEVELT HIGH SCHOOL	WYANDOTTE MI	16,750,000	GAS	\$ 102,470	13.3
83 DANOU TECHNICAL PARK LLC	ALLEN PARK MI	16,740,000	GAS	\$ 102,120	13.3
84 VISTEON TECH CENTER	DEARBORN MI	16,738,000	GAS	\$ 102,120	13.3
85 VISTEON TECH CENTER	DEARBORN MI	16,738,000	GAS	\$ 102,120	13.3
86 W DICKENSON DETEN. FAC	HAMTRAMCK MI	16,738,000	GAS	\$ 102,120	13.3
87 W DICKERSON DETENTION	HAMTRAMCK MI	16,738,000	GAS	\$ 102,120	13.3
88 RIVER ROUGE POWER PLANT	RIVER ROUGE MI	145,500,000	GAS	\$ 102,120	13.4
89 DOWNRIVER COMMUNITY CONFEREN	SOUTHGASTE MI	16,400,000	GAS	\$ 7,006	13.4
90 DANOU TECHNICAL PARK LLC	ALLEN PARK MI	16,340,000	ELECTRIC	\$ 99,632	13.4
91 DETROIT EDISON WAYNE DIV	BELLEVILLE MI	768,000	GAS	\$ 99,632	13.5
92 ST MARY MERCY HOSPITAL	LIVONIA MI	16,000,000	ELECTRIC	\$ 99,632	13.6
93 SCOTT CORRECTIONAL FACILITY	PLYMOUTH MI	730,000	ELECTRIC	\$ 99,632	13.6
94 NORTHWEST AIRLINE	ROMULUS MI	700,000	GAS	\$ 6,376	13.6
95 GREAT LAKES STEEL CORPORATION	RIVER ROUGE MI	153,150,000	GAS	\$ 97,131	13.9
96 HENRY FORD COMMUNITY COLLEGE	DEARBORN MI	15,050,000	GAS	\$ 97,131	13.9
97 HENRY FORD COMMUNITY COLLEGE	DEARBORN MI	15,050,000	GAS	\$ 5,755	13.9
98 HENRY FORD COMMUNITY COLLEGE	DEARBORN MI	15,050,000	GAS	\$ 5,755	13.9
99 SEVERSTAL NORTH AMERICA	DEARBORN MI	15,000,000	GAS	\$ 95,112	14.0
100 BULLDOG BOILER	HAMTRAMCK MI	15,000,000	GAS	\$ 95,112	14.0
101 HIGHLAND PARK COMM COLL	HIGHLAND PARK MI	15,000,000	GAS	\$ 95,112	14.0
102 HIGHLAND PARK COMM COLL	HIGHLAND PARK MI	15,000,000	GAS	\$ 95,112	14.0
103 JOHN GLENN HIGH SCHOOL	WESTLAND MI	15,000,000	GAS	\$ 93,710	14.0
104 JOHN GLENN HIGH SCHOOL	WESTLAND MI	15,000,000	ELECTRIC	\$ 93,710	14.0
105 VALVE RECONDITIONING	MELVINDALE MI	504,000	GAS	\$ 89,506	14.0
106 ELECTRIC ALLIANCE INTERNATIONAL	IFLAT ROCK MI	14,645,000	GAS	\$ 85,511	14.1
107 GENERAL MOTORS WORLD TRAVEL	ROMULUS MI	14,645,000	GAS	\$ 85,301	14.1
108 WALTER REUTHER HOSPITAL	WESTLAND MI	14,645,000	GAS	\$ 85,301	14.1
109 WALTER REUTHER HOSPITAL	WESTLAND MI	14,645,000	ELECTRIC	\$ 85,301	14.1
110 DETROIT EDISON	WESTLAND MI	461,720	GAS	\$ 85,301	14.1
111 GROSSE POINTE HIGH SCHOOL	GROSSE POINTE FARM	14,288,100	GAS	\$ 85,301	14.2
112 GROSSE POINTE HIGH SCHOOL	GROSSE POINTE FARM	14,288,100	ELECTRIC	\$ 85,301	14.2
113 UNIVERSITY OF MICHIGASN SURGERY	LIVONIA MI	420,000	ELECTRIC	\$ 84,985	14.3
114 UNIVERSITY OF MICHIGASN SURGERY	LIVONIA MI	420,000	GAS	\$ 84,985	14.3
115 ALLIED GENERAL SERVICES	DETROIT MI	14,000,000	GAS	\$ 84,978	14.4
116 GROSSE PTE NORTH HIGH SCH	GROSSE PTE WOODS	14,000,000	GAS	\$ 84,978	14.4
117 WAYNE CO ROAD COMM, BLDG MAINT	ROMULUS MI	14,000,000	GAS	\$ 84,978	14.4
118 WAYNE CO ROAD COMM, BLDG MAINT	ROMULUS MI	14,000,000	GAS	\$ 84,978	14.4
119 OFFICE DEPOT	PLYMOUTH MI	13,800,000	GAS	\$ 84,971	14.4
120 OFFICE DEPOT	PLYMOUTH MI	13,800,000	GAS	\$ 84,971	14.4
121 SPRINGWELLS WATER TRTMT	DEARBORN MI	13,200,000	GAS	\$ 84,971	14.7
122 SHELL OIL-RIVER ROUGE LUBRICANTS	RIVER ROUGE MI	12,630,000	GAS	\$ 84,600	14.9
123 BULLDOG BOILER	HAMTRAMCK MI	12,600,000	GAS	\$ 84,600	14.9

APPENDIX B COUNTY SUMMARIES

WAYNE

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
124 PACKAGING CORPORATION OF AMERI	PLYMOUTH MI	12,600,000	GAS	\$ 84,600	14.9
125 PACKAGING CORPORATION OF AMERI	PLYMOUTH MI	12,600,000	GAS	\$ 84,600	14.9
126 WESTLAND SHOPING CENTER	WESTLAND MI	12,600,000	GAS	\$ 84,600	14.9
127 WESTLAND SHOPPING CENTER	WESTLAND MI	12,600,000	GAS	\$ 84,600	14.9
128 WESTLAND SHOPPING CENTER	WESTLAND MI	12,600,000	GAS	\$ 82,827	14.9
129 FRANKLIN HIGH SCHOOL	LIVONIA MI	12,555,000	GAS	\$ 82,827	14.9
130 FRANKLIN HIGH SCHOOL	LIVONIA MI	12,555,000	GAS	\$ 82,827	14.9
131 MORSE COMPANIES INC	BELLEVILLE MI	12,554,000	GAS	\$ 82,827	14.9
132 PHYSICAL EDUCATION BUILDING	GIBRALTAR MI	12,554,000	GAS	\$ 81,769	14.9
133 PHYSICAL EDUCATION BUILDING	GIBRALTAR MI	12,554,000	GAS	\$ 3,461	14.9
134 WAYNE COUNTY COMMUNITY COLLEGE	TAYLOR MI	12,554,000	GAS	\$ 81,096	14.9
135 LINCOLN PARK HIGH SCHOOL	LINCOLN PARK MI	12,553,000	GAS	\$ 3,402	14.9
136 LINCOLN PARK HIGH SCHOOL	LINCOLN PARK MI	12,553,000	GAS	\$ 75,819	14.9
137 LINCOLN PARK HIGH SCHOOL	LINCOLN PARK MI	12,553,000	GAS	\$ 75,819	14.9
138 DETROIT METRO AIRPORT	ROMULUS MI	12,500,000	GAS	\$ 75,209	15.0
139 HILLSIDE MIDDLE SCHOOL	NORTHVILLE MI	12,500,000	GAS	\$ 75,209	15.0
140 HILLSIDE MIDDLE SCHOOL	NORTHVILLE MI	12,500,000	GAS	\$ 75,209	15.0
141 DETROIT METRO AIRPORT	ROMULUS MI	12,500,000	GAS	\$ 75,209	15.0
142 DETROIT METRO AIRPORT	ROMULUS MI	12,500,000	GAS	\$ 72,476	15.0
143 ARROW UNIFORM	TAYLOR MI	12,500,000	GAS	\$ 72,476	15.0
144 FORDSON HIGH SCHOOL	DEARBORN MI	12,247,000	GAS	\$ 72,476	15.1
145 VISTEON VILLAGE	VAN BUREN TWP MI	12,247,000	GAS	\$ 71,579	15.1
146 VISTEON VILLAGE	VAN BUREN TWP MI	12,247,000	GAS	\$ 70,584	15.1
147 VISTEON VILLAGE	VAN BUREN TWP MI	12,247,000	GAS	\$ 70,584	15.1
148 WAYNE CO ROAD COMM, BLDG MAINT	ROMULUS MI	12,096,000	ELECTRIC	\$ 70,584	15.1
149 FORD MOTOR STAMPING	DEARBORN MI	266,000	GAS	\$ 70,584	15.2
150 WAYNE CO COMM COLLEGE	TAYLOR MI	12,000,000	ELECTRIC	\$ 70,584	15.2
151 ACH LLC	DEARBORN MI	262,000	GAS	\$ 70,584	15.2
152 TRUMAN HIGH SCHOOL	TAYLOR MI	11,247,000	GAS	\$ 70,584	15.5
153 ERECKADALE ELEMENTARY	TAYLOR MI	11,247,000	GAS	\$ 70,584	15.5
154 VISTA MARIA SCH	DEARBORN HEIGHT M	11,160,000	GAS	\$ 70,584	15.5
155 VISTA MARIA	DEARBORN HEIGHT M	11,160,000	GAS	\$ 70,584	15.5
156 VISTA MARIA	DEARBORN HEIGHT M	11,160,000	GAS	\$ 70,584	15.5
157 SCHOOLCRAFT COLLEGE	LIVONIA MI	11,160,000	GAS	\$ 70,584	15.5
158 CANTON HIGH SCHOOL	CANTON MI	10,770,000	GAS	\$ 70,584	15.7
159 SCHOOLCRAFT COLLEGE	GASRDEN CITY MI	10,770,000	GAS	\$ 70,584	15.7
160 SCHOOLCRAFT COLLEGE	GASRDEN CITY MI	10,770,000	GAS	\$ 70,584	15.7
161 TRENTON HIGH SCHOOL	TRENTON MI	10,642,000	GAS	\$ 2,627	15.7
162 GASRDEN CITY OSTEO HOSP	GASRDEN CITY MI	10,500,000	GAS	\$ 70,325	15.8
163 GASRDEN CITY OSTEO HOSP	GASRDEN CITY MI	10,500,000	GAS	\$ 70,325	15.8
164 KEY PLASTICS	PLYMOUTH MI	10,500,000	GAS	\$ 70,325	15.8
165 WM D FORD VOCATIONAL EDUCATION	WESTLAND MI	10,500,000	GAS	\$ 70,318	15.8
166 WM D FORD VOCATIONAL EDUCATION	WESTLAND MI	10,500,000	GAS	\$ 70,318	15.8
167 FORD MOTOR CO	ALLEN PARK MI	10,500,000	GAS	\$ 70,311	15.8
168 FORD MOTOR COMPANY	ALLEN PARK MI	10,500,000	GAS	\$ 70,311	15.8
169 WEST JR HIGH SCHOOL	GASRDEN CITY MI	10,500,000	GAS	\$ 70,311	15.8
170 WEST SR HIGH SCHOOL	GASRDEN CITY MI	10,500,000	GAS	\$ 70,311	15.8
171 EAST SR HIGH SCHOOL	GASRDEN CITY MI	10,500,000	GAS	\$ 70,311	15.8
172 EAST SR HIGH SCHOOL	GASRDEN CITY MI	10,500,000	GAS	\$ 69,533	15.8
173 MADONNA UNIVERSITY	LIVONIA MI	10,500,000	GAS	\$ 69,533	15.8
174 ARROW UNIFORM RENTAL	TAYLOR MI	10,500,000	GAS	\$ 68,524	15.8
175 ARROW UNIFORM RENTAL	TAYLOR MI	10,500,000	GAS	\$ 68,524	15.8
176 H S TRUMAN SR & JR HIGH	TAYLOR MI	10,500,000	ELECTRIC	\$ 68,522	15.8
177 JOHNSON CONTROLS INC	TAYLOR MI	210,000	GAS	\$ 68,522	15.8
178 CARDINAL HEALTH INC	ROMULUS MI	10,463,000	GAS	\$ 2,478	15.8
179 THE SOUTHLAND CENTER	TAYLOR MI	10,463,000	GAS	\$ 2,478	15.8
180 THE ROUSE COMPANY	TAYLOR MI	10,463,000	GAS	\$ 2,478	15.8
181 TRENTON HIGH SCHOOL	TRENTON MI	10,462,000	GAS	\$ 2,478	15.8
182 TRENTON HIGH SCHOOL	TRENTON MI	10,462,000	GAS	\$ 2,478	15.8
183 SVERDRUP TECHNOLOGIES IN	ALLEN PARK MI	10,461,000	GAS	\$ 2,478	15.8
184 SVERDRUP TECHNOLOGIES IN	ALLEN PARK MI	10,461,000	GAS	\$ 2,478	15.8
185 VISTEON TECH CENTER	DEARBORN MI	10,461,000	GAS	\$ 2,478	15.8
186 ELECTRIC ALLIANCE INTERNATIONAL	IFLAT ROCK MI	10,461,000	GAS	\$ 2,478	15.8
187 ELECTRIC ALLIANCE INTERNATIONAL	IFLAT ROCK MI	10,461,000	GAS	\$ 2,478	15.8
188 COMPREHENSIVE ENVIRONMENTAL S	DEARBORN MI	10,350,000	GAS	\$ 67,220	15.9
189 SCOTT HALL BUILDING	DETROIT MI	10,350,000	GAS	\$ 67,115	15.9
190 LIVONIA COMM CTR	LIVONIA MI	10,206,000	GAS	\$ 67,115	15.9
191 LIVONIA COMMUNITY CTR	LIVONIA MI	10,206,000	GAS	\$ 67,080	15.9
192 ROMULUS HIGH SCHOOL	ROMULUS MI	10,205,800	GAS	\$ 67,080	15.9
193 ROMULUS HIGH SCHOOL	ROMULUS MI	10,205,800	ELECTRIC	\$ 67,080	15.9
194 SALEM HIGH SCHOOL	CANTON, MI	200,000	ELECTRIC	\$ 67,080	16.0
195 GROSSE POINTE NORTH HIGH SCHOO	GROSSE POINTE WOC	200,000	ELECTRIC	\$ 67,080	16.0
196 GROSSE PTE NORTH HIGH SCH	GROSSEPOINTE WOO	200,000	ELECTRIC	\$ 67,080	16.0
197 CHAMPPS AMERICANA	LIVONIA MI	200,000	ELECTRIC	\$ 67,080	16.0
198 CHAMPPS AMERICANA	LIVONIA MI	200,000	ELECTRIC	\$ 67,379	16.0
199 NORTHVILLE HIGH SCHOOL	NORTHVILLE MI	200,000	ELECTRIC	\$ 2,181	16.0

APPENDIX B COUNTY SUMMARIES

WAYNE

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
200 NORTHVILLE HIGH SCHOOL	NORTHVILLE MI	200,000	ELECTRIC	\$ 2,181	16.0
201 SEITZ JUNIOR HIGH SCHOOL	RIVERVIEW MI	200,000	ELECTRIC	\$ 2,181	16.0
202 HILLSIDE MIDDLE SCHOOL	NORTHVILLE MI	200,000	ELECTRIC	\$ 2,181	16.0
203 STEVENSON JUNIOR HIGH SCHOOL	WESTLAND MI	200,000	GAS	\$ 2,106	16.0
204 NATIONAL CITY BANK	SOUTHGASTE MI	10,020,000	GAS	\$ 2,106	16.0
205 CANTON HIGH SCHOOL	CANTON MI	10,005,000	GAS	\$ 2,106	16.0
206 CANTON HIGH SCHOOL	CANTON MI	10,005,000	GAS	\$ 66,118	16.0
207 FELICIAN SISTERS CONVENT	LIVONIA MI	10,000,000	GAS	\$ 65,396	16.0
208 FELICIAN SISTERS CONVENT	LIVONIA MI	10,000,000	GAS	\$ 65,396	16.0
209 SCHOOLCRAFT COLLEGE	LIVONIA MI	10,000,000	GAS	\$ 2,002	16.0
210 MICH DAIRY	LIVONIA MI	10,000,000	GAS	\$ 2,002	16.0
211 SOUTHLAND MALL	TAYLOR MI	10,000,000	GAS	\$ 2,002	16.0
212 WAYNE MEMORIAL HIGH SCHOOL	WAYNE MI	10,000,000	GAS	\$ 1,942	16.0
213 WAYNE MEMORIAL HIGH SCHOOL	WAYNE MI	10,000,000	GAS	\$ 1,942	16.0
214 SUNNYSIDE CLEANERS	FLAT ROCK MI	9,900,000	ELECTRIC	\$ 1,942	16.3
215 HENRY FORD MUSEUM	DEARBORN MI	180,000	ELECTRIC	\$ 63,875	16.4
216 HENRY FORD MUSEUM	DEARBORN MI	180,000	ELECTRIC	\$ 63,875	16.4
217 FRAME PLANT	DEARBORN MI	180,000	ELECTRIC	\$ 1,868	16.4
218 SCOTT REGIONAL FACILITY	PLYMOUTH MI	180,000	ELECTRIC	\$ 62,242	16.4
219 JOHNSON CONTROLS INC	ROCKWOOD MI	175,000	ELECTRIC	\$ 62,242	16.5
220 OLD COUNTRY BUFFET 38	WESTLAND MI	175,000	ELECTRIC	\$ 62,242	16.5
221 JOHNSON CONTROLS INC	PLYMOUTH MI	175,000	GAS	\$ 62,242	16.5
222 ECORSE HIGH SCHOOL	ECORSE MI	9,720,000	GAS	\$ 1,734	16.5
223 GEN MTRS POWERTRAIN DIV	ROMULUS MI	9,617,000	GAS	\$ 61,072	16.6
224 HOLLAND ELEMENTARY SCHOOL	TAYLOR MI	9,617,000	ELECTRIC	\$ 61,072	16.6
225 DOBBY'S FORMAL WEAR	LIVONIA MI	168,000	ELECTRIC	\$ 61,072	16.6
226 FELICIAN SISTERS	LIVONIA MI	168,000	ELECTRIC	\$ 61,072	16.6
227 FELICIAN SISTERS	LIVONIA MI	168,000	ELECTRIC	\$ 61,072	16.6
228 KINGASBORO CLEANERS	CANTON MI	164,000	ELECTRIC	\$ 61,072	16.7
229 KINGASBORO CLEANERS	CANTON MI	164,000	ELECTRIC	\$ 61,072	16.7
230 KINGASBORO CLEANERS	CANTON MI	164,000	GAS	\$ 61,072	16.7
231 SCOTT REGIONAL FACILITY	PLYMOUTH MI	9,400,000	GAS	\$ 61,072	16.9
232 SCOTT REGIONAL FACILITY	PLYMOUTH MI	9,400,000	ELECTRIC	\$ 61,072	16.9
233 FARMER JACKS MARKET	LINCOLN PARK MI	159,000	GAS	\$ 58,970	16.9
234 U OF M DEARBORN	DEARBORN MI	9,167,000	GAS	\$ 58,970	17.1
235 U OF M DEARBORN	DEARBORN MI	9,167,000	GAS	\$ 1,510	17.1
236 REDFORD UNION HIGH SCHOOL	REDFORD TWP MI	9,167,000	GAS	\$ 58,444	17.1
237 REDFORD UNION HIGH SCHOOL	REDFORD TWP MI	9,167,000	ELECTRIC	\$ 58,269	17.1
238 INDIAN VILLAGE ANNEX 2	LINCOLN PARK MI	150,000	GAS	\$ 1,481	17.2
239 REGINA HIGH SCHOOL	HARPER WOODS MI	9,000,000	GAS	\$ 56,867	17.3
240 HYATT REGENCY	DEARBORN MI	9,000,000	GAS	\$ 56,867	17.3
241 CAMBRIDGE JR HIGH SCHOOL	GASRDEN CITY MI	9,000,000	GAS	\$ 56,867	17.3
242 CAMBRIDGE JR HIGH SCHOOL	GASRDEN CITY MI	9,000,000	GAS	\$ 56,867	17.3
243 BURGER CENTER FOR AUTISM	GASRDEN CITY MI	9,000,000	GAS	\$ 56,692	17.3
244 BURGER CENTER FOR AUTISM	GASRDEN CITY MI	9,000,000	GAS	\$ 56,657	17.3
245 REGINA HIGH SCHOOL	HARPER WOODS MI	9,000,000	GAS	\$ 56,657	17.3
246 BASILIAN FATHERS CATH.	REDFORD TWP MI	9,000,000	GAS	\$ 56,657	17.3
247 BASILIAN FATHERS CATH.	REDFORD TWP MI	9,000,000	GAS	\$ 56,657	17.3
248 TAYLOR COMM CTR	TAYLOR MI	9,000,000	GAS	\$ 56,657	17.3
249 HENRY FORD SCHOOL	HIGHLAND PARK MI	8,700,000	GAS	\$ 56,657	17.7
250 HENRY FORD SCHOOL	HIGHLAND PARK MI	8,700,000	ELECTRIC	\$ 56,650	17.7
251 RENAISSANCE GASRDEN	DEARBORN MI	135,000	GAS	\$ 56,650	17.8
252 CAREER WORKS	HIGHLAND PARK MI	8,625,000	GAS	\$ 56,650	17.8
253 FORD MOTOR COMPANY/NPDC	LIVONIA MI	8,600,000	ELECTRIC	\$ 56,650	17.8
254 FAIRLANE CLEANER	DEARBORN MI	133,000	GAS	\$ 56,650	17.8
255 LIBERTY SCHOOL	HIGHLAND PARK MI	8,400,000	GAS	\$ 56,650	18.0
256 SCHOOL OF PERFORMING ARTS	INKSTER MI	8,400,000	GAS	\$ 56,650	18.0
257 LIBERTY SCHOOL	HIGHLAND PARK MI	8,400,000	GAS	\$ 56,650	18.0
258 INDEPENDENCE VILLAGE	PLYMOUTH MI	8,400,000	GAS	\$ 56,650	18.0
259 NATL CONCRETE PRODUCTS	PLYMOUTH MI	8,375,000	GAS	\$ 56,650	18.1
260 FORD MOTOR CO PAINT PLANT	DEARBORN MI	8,370,000	GAS	\$ 56,648	18.1
261 FORD MOTOR CO PAINT PLANT	DEARBORN MI	8,370,000	GAS	\$ 56,648	18.1
262 CADON PLATING COMPANY	WYANDOTTE MI	8,370,000	GAS	\$ 56,241	18.1
263 FORD MOTOR COMPANY	ALLEN PARK MI	8,370,000	GAS	\$ 55,956	18.1
264 UNIVERSITY LIGGETT SCH	GROSSE PT WOODS MI	8,370,000	GAS	\$ 1,376	18.1
265 UNIVERSITY LIGGETT SCH	GROSSE PT WOODS MI	8,370,000	GAS	\$ 1,330	18.1
266 FORD MOTOR COMPANY-PILOT PLANT	ALLEN PARK MI	8,369,000	GAS	\$ 1,330	18.1
267 FORD MOTOR COMPANY	ALLEN PARK MI	8,369,000	GAS	\$ 1,330	18.1
268 BANK ONE	BELLEVILLE MI	8,369,000	GAS	\$ 1,330	18.1
269 BANK ONE	BELLEVILLE MI	8,369,000	GAS	\$ 54,064	18.1
270 LIVONIA PLANT	LIVONIA MI	8,369,000	GAS	\$ 54,064	18.1
271 INDEPENDENCE VILLAGE	PLYMOUTH MI	8,369,000	GAS	\$ 54,064	18.1
272 FORD MOTOR CO	WAYNE MI	8,369,000	GAS	\$ 54,064	18.1
273 LINCOLN JR. HIGH SCH.	WYANDOTTE MI	8,369,000	GAS	\$ 54,064	18.1
274 LINCOLN JR HIGH SCHOOL	WYANDOTTE MI	8,369,000	GAS	\$ 54,064	18.1

APPENDIX B COUNTY SUMMARIES

WAYNE

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
275 JO BRIGHTON SCHOOL	WYANDOTTE MI	8,369,000	GAS	\$ 54,064	18.1
276 OAKWOOD HOSPITAL SOUTHSORE-TT	TRENTON MI	8,368,750	GAS	\$ 54,064	18.1
277 OAKWOOD HOSPITAL SOUTHSORE-TT	TRENTON MI	8,368,750	GAS	\$ 54,064	18.1
278 SOUTHWEST TREATMENT PLT	ALLEN PARK MI	8,310,600	GAS	\$ 54,064	18.1
279 WAYNE COUNTY AIRPORT AUTHORITY	ROMULUS MI	8,270,000	ELECTRIC	\$ 54,064	18.2
280 LORD AND TAYLOR-FAIRLANE	DEARBORN MI	126,000	ELECTRIC	\$ 54,064	18.2
281 SUMMIT ON THE PARK	CANTON MI	122,868	ELECTRIC	\$ 54,064	18.4
282 LIFETIME FITNESS CENTER	CANTON MI	122,868	ELECTRIC	\$ 1,168	18.4
283 LIFETIME FITNESS CENTER	CANTON MI	122,868	ELECTRIC	\$ 50,560	18.4
284 MOUND CORRECTIONAL FAC	DETROIT MI	122,868	GAS	\$ 50,560	18.4
285 PLYMOUTH HIGH SCHOOL	CANTON MI	8,000,000	GAS	\$ 50,560	18.5
286 PLYMOUTH HIGH SCHOOL	CANTON MI	8,000,000	GAS	\$ 50,560	18.5
287 PLYMOUTH HIGH SCHOOL	CANTON MI	8,000,000	GAS	\$ 50,560	18.5
288 SEARS ROEBUCK & CO	LIVONIA MI	8,000,000	GAS	\$ 1,138	18.5
289 SEARS ROEBUCK & CO	LIVONIA MI	8,000,000	GAS	\$ 49,320	18.5
290 HURON SCHOOL DISTRICT	NEW BOSTON MI	8,000,000	GAS	\$ 49,320	18.5
291 HURON SCHOOL DISTRICT	NEW BOSTON MI	8,000,000	GAS	\$ 49,018	18.5
292 HUNTINGTON SCHOOL	RIVERVIEW MI	8,000,000	GAS	\$ 48,072	18.5
293 HUNTINGTON SCHOOL	RIVERVIEW MI	8,000,000	GAS	\$ 47,743	18.5
294 CENTRAL MIDDLE SCHOOL	PLYMOUTH MI	8,000,000	GAS	\$ 1,064	18.5
295 CENTRAL MIDDLE SCH	PLYMOUTH MI	8,000,000	GAS	\$ 47,056	18.5
296 WAYNE CO ROAD COMM, BLDG MAINT	ROMULUS MI	8,000,000	GAS	\$ 47,056	18.5
297 WAYNE CO ROAD COMM, BLDG MAINT	ROMULUS MI	8,000,000	ELECTRIC	\$ 45,952	18.5
298 HENRY FORD COMMUNITY COLLEGE	DEARBORN MI	112,000	GAS	\$ 45,935	19.1
299 ELECTRIC CLUB OF MICHIGASN	DEARBORN MI	7,500,000	GAS	\$ 45,935	19.1
300 ELECTRIC CLUB OF MICHIGASN	DEARBORN MI	7,500,000	GAS	\$ 45,935	19.1
301 ELECTRIC CLUB OF MICHIGASN	DEARBORN MI	7,500,000	GAS	\$ 44,919	19.1
302 BULLDOG BOILER RENTALS	HAMTRAMCK MI	7,500,000	GAS	\$ 989	19.1
303 BEACON DAY TREATMENT	INKSTER MI	7,500,000	ELECTRIC	\$ 989	19.1
304 METROPOLITAN	ROMULUS MI	110,000	GAS	\$ 989	19.2
305 ALLIED GENERAL SERVICES	DETROIT MI	7,323,000	GAS	\$ 989	19.3
306 DICKINSON ELEM SCHOOL	HAMTRAMCK MI	7,323,000	GAS	\$ 989	19.3
307 INSITUFORM	DETROIT MI	7,280,000	GAS	\$ 43,965	19.4
308 HEINTZEN SCHOOL	SOUTHGASTE MI	7,145,000	GAS	\$ 43,965	19.5
309 HARPER WOODS HIGH SCH	HARPER WOODS MI	7,098,000	ELECTRIC	\$ 43,902	19.6
310 UNIVERSITY OF MICHIGASN DEARBOR	DEARBORN MI	105,000	GAS	\$ 43,552	19.6
311 MELVINDALE HIGH SCHOOL	MELVINDALE MI	7,000,000	GAS	\$ 43,552	19.7
312 WILSON JUNIOR HIGH	WYANDOTTE MI	7,000,000	GAS	\$ 43,552	19.7
313 BANK ONE	INKSTER MI	6,842,400	GAS	\$ 43,552	19.9
314 CORTLAND ELEM SCHOOL	HIGHLAND PARK MI	6,840,000	GAS	\$ 43,552	19.9
315 CORTLAND ELEMENTARY SCHOOL	HIGHLAND PARK MI	6,840,000	GAS	\$ 43,552	19.9
316 DOWNRIVER COMMUNITY CONFEREN	SOUTHGASTE MI	6,840,000	GAS	\$ 43,552	19.9

APPENDIX B COUNTY SUMMARIES

WEXFORD

BTU		FUEL TYPE	
<750,000	301	GAS (Natural Gas)	346
750,001-2,500,000	50	PROPANE	0
2,500,001-5,000,000	7	OIL	1
5,000,001-15,000,000	11	WOOD	13
15,000,001-25,000,000	1	ELECTRIC	6
>25,000,001	1	COAL	5
N/A	0	OTHER	0
TOTAL	371	TOTAL	371
AGE		BOILER USE	
2000-present	83	Hot Water Heat	270
1980-1999	207	Hot Water Supply	40
1960-1979	63	Steam Heating	14
1945-1959	3	Power	25
older than 1945	15	Process Steam	5
N/A	0	Other	17
TOTAL	371	TOTAL	371
SIMPLE PAYBACK		WOOD USE (Tons/yr)	
<1 Year	0	Existing Wood Use	182,500
1-5 Years	0	Potential Wood Use	5,488
6-10 years	0	(Projects <20 yrs payback)	
11-15 years	3		
16-20 years	5		
Greater than 21 years	363		
TOTAL	371		

TOP PROJECTS BY PAYBACK

Facility	City	Boiler Size	Fuel Type	Annual Savings	Payback
1 CADILLAC RUBBER & PLSTCS	CADILLAC MI	16,000,000	GAS	\$ 109,128	13.6
2 WOLVERINE POWER SUPPLY	CADILLAC MI	307,170	ELECTRIC	\$ 4,074	14.8
3 MERCY HOSPITAL ANNEX	CADILLAC MI	12,500,000	GAS	\$ 84,600	15.0
4 AVON RUBBER	CADILLAC MI	12,000,000	GAS	\$ 81,096	15.2
5 MERCY HOSPITAL	CADILLAC MI	11,200,000	GAS	\$ 75,490	15.5
6 CITY OF CADILLAC	CADILLAC MI	158,000	ELECTRIC	\$ 1,853	16.9
7 MICHIGAN RUBBER PROD	CADILLAC MI	8,370,000	GAS	\$ 56,657	18.1
8 WEXFORD MISSAUKEE VOC CT	CADILLAC MI	7,120,000	GAS	\$ 47,897	19.6
9 MICH BELL TELEPHONE CO	CADILLAC MI	2,800,000	OIL	\$ 23,028	20.9
10 BILL OLIVERS BEST WESTRN	CADILLAC MI	5,230,000	GAS	\$ 34,652	22.0
11 MESICK CONSOLIDATED SCHOOLS	MESICK MI	5,214,000	GAS	\$ 34,540	22.0
12 MERCY HOSPITAL	CADILLAC MI	5,133,929	GAS	\$ 33,979	22.1
13 MERCY HOSPITAL	CADILLAC MI	5,133,929	GAS	\$ 33,979	22.1
14 MERCY HOSPITAL	CADILLAC MI	5,133,929	GAS	\$ 33,979	22.1
15 MESICK CONSOLIDATED SCHOOL	MESICK MI	5,124,000	GAS	\$ 33,909	22.1
16 PAULSTRA CADILLAC	CADILLAC MI	4,000,000	GAS	\$ 26,532	24.1
17 LAKESHORE LAUNDRY INC	CADILLAC MI	3,000,000	GAS	\$ 19,524	26.1
18 MACKINAW TRAIL MIDDLE SCHOOL	CADILLAC MI	3,000,000	GAS	\$ 19,524	26.1
19 MACKINAW TRAIL MIDDLE SCHOOL	CADILLAC MI	3,000,000	GAS	\$ 19,524	26.1
20 MANTON CONSOL SCHOOLS	MANTON MI	3,000,000	GAS	\$ 19,524	26.1
21 WOLVERINE PWR SUPP COOP	CADILLAC MI	68,260	ELECTRIC	\$ 517	38.7
22 HARBOR VIEW ELDERLY HSG	CADILLAC MI	1,440,000	GAS	\$ 761	351.0
23 LINCOLN ELEMENTARY SCHO	CADILLAC MI	1,260,000	GAS	\$ 604	391.1
24 LINCOLN ELEMENTARY SCHOOL	CADILLAC MI	1,260,000	GAS	\$ 604	391.1
25 MESICK CONSOLIDATED SCH	MESICK MI	37,000	ELECTRIC	\$ 51	392.1
26 WEXFORD MISSAWKEE SPEC SERV	CADILLAC MI	1,255,000	GAS	\$ 599	392.5
27 WEXFORD MISSAWKEE SPEC SERV	CADILLAC MI	1,202,000	GAS	\$ 553	408.6
28 WEXFORD PARK & REC COMM	CADILLAC MI	1,200,000	GAS	\$ 551	409.3
29 1ST. CONGREAT. CHURCH	CADILLAC MI	1,200,000	GAS	\$ 551	409.3
30 HARBOR VIEW ELDERLY HSG	CADILLAC MI	1,200,000	GAS	\$ 551	409.3
31 NO CNTRL COMM MNTL HLTH	CADILLAC MI	1,125,000	GAS	\$ 486	437.4
32 FRANKLIN ELEMENTARY SCHOOL	CADILLAC MI	1,125,000	GAS	\$ 486	437.4
33 FRANKLIN ELEMENTARY SCHOOL	CADILLAC MI	1,125,000	GAS	\$ 486	437.4
34 CADILLAC JUNIOR HIGH	CADILLAC MI	1,124,700	GAS	\$ 485	437.5
35 WESTERN CONCRETE PROD.	CADILLAC MI	1,000,000	GAS	\$ 376	505.3