

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	144	195	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	216	284	352	420	488	556	624	692	760	828
Simple Cycle GE 7EA CT - 73 MW	102	186	271	356	441	525	610	695	779	864	949
Simple Cycle GE 7FA CT - 148 MW	77	161	244	328	412	496	580	663	747	831	915
Combined Cycle GE 7EA CT - 119 MW	136	189	242	295	348	400	453	506	559	612	665
Combined Cycle GE 7FA CT - 235 MW	108	156	204	253	301	349	397	445	494	542	590
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	138	186	234	282	329	377	425	473	521	569
W 501F CC CT - 258 MW	102	152	201	251	301	351	401	450	500	550	600
Spark Ignition Engine - 5 MW	127	214	302	389	477	564	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	167	243	318	394	469	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	221	266	310	355	400	445	489	534	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	124	167	211	255	298	342	386	---	---	---
Kalina Cycle CC CT - 275 MW	98	143	188	233	278	323	368	413	---	---	---
Cheng Cycle CT - 140 MW	119	175	231	287	343	400	456	512	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	235	293	351	409	467	525	583	---	---	---
IGCC - 267 MW	201	233	265	297	328	360	392	424	456	---	---
IGCC - 534 MW	173	205	236	268	299	331	362	393	425	---	---
Fuel Cell - 0.2 MW	1263	1322	1381	1441	1500	1560	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	192	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	188	279	370	461	552	643	734	---	---	---
Supercritical Pulverized Coal - 500 MW	153	175	197	219	241	263	285	307	329	350	372
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	182	201	220	239	258	277	296	314	333	352
Supercritical Pulverized Coal - 750 MW	137	159	180	202	223	245	266	288	309	331	352
Subcritical Pulverized Coal - 250 MW	189	211	234	257	280	303	325	348	371	394	417
Subcritical Pulverized Coal - 500 MW	149	171	194	216	238	260	282	305	327	349	371
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	178	197	216	236	255	274	293	312	332	351
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	165	183	202	221	239	258	276	295	314	332
Circulating Fluidized Bed - 250 MW	197	220	244	267	290	313	337	360	383	407	430
Circulating Fluidized Bed - 500 MW	150	172	195	218	241	264	287	310	333	356	379
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	132	147	162	178	193	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	208	223	238	254	269

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Compressed Air Energy Storage - 500 MW	93	147	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	222	297	371	446	520	595	669	744	818	893
Simple Cycle GE 7EA CT - 73 MW	102	194	287	379	471	564	656	749	841	933	1026
Simple Cycle GE 7FA CT - 148 MW	77	168	258	349	440	531	622	712	803	894	985
Combined Cycle GE 7EA CT - 119 MW	136	194	251	309	367	424	482	540	598	655	713
Combined Cycle GE 7FA CT - 235 MW	108	161	213	266	318	371	424	476	529	581	634
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	142	195	247	299	351	404	456	508	561	613
W 501F CC CT - 258 MW	102	156	211	265	319	374	428	483	537	591	646
Spark Ignition Engine - 5 MW	127	220	314	407	501	594	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	172	253	333	414	494	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
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Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
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MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	224	271	319	366	414	461	509	556	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	128	175	223	271	318	366	414	---	---	---
Kalina Cycle CC CT - 275 MW	98	147	196	246	295	344	393	442	---	---	---
Cheng Cycle CT - 140 MW	119	180	242	303	365	426	487	549	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	240	303	366	430	493	556	620	---	---	---
IGCC - 267 MW	201	235	270	304	339	373	408	442	477	---	---
IGCC - 534 MW	173	207	241	275	309	343	377	411	445	---	---
Fuel Cell - 0.2 MW	1263	1327	1392	1456	1521	1586	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	200	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	195	294	392	491	589	688	786	---	---	---
Supercritical Pulverized Coal - 500 MW	153	177	201	224	248	272	296	319	343	367	390
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	185	207	229	251	273	295	317	338	360	382
Supercritical Pulverized Coal - 750 MW	137	161	184	207	230	253	277	300	323	346	369
Subcritical Pulverized Coal - 250 MW	189	213	238	262	287	312	336	361	385	410	435
Subcritical Pulverized Coal - 500 MW	149	173	197	221	245	269	293	317	341	365	389
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	181	203	225	248	270	292	314	336	359	381
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	168	189	211	232	254	275	297	318	340	361
Circulating Fluidized Bed - 250 MW	197	222	247	273	298	323	348	373	399	424	449
Circulating Fluidized Bed - 500 MW	150	174	199	224	248	273	298	322	347	372	397
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	135	153	170	188	206	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	224	242	260	278	296

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Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	143	193	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	212	277	341	406	470	535	599	664	728	793
Simple Cycle GE 7EA CT - 73 MW	102	182	263	343	423	504	584	665	745	825	906
Simple Cycle GE 7FA CT - 148 MW	77	157	237	317	397	477	557	637	717	797	877
Combined Cycle GE 7EA CT - 119 MW	136	186	236	287	337	387	437	487	538	588	638
Combined Cycle GE 7FA CT - 235 MW	108	154	200	245	291	337	383	429	474	520	566
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	135	181	226	272	317	363	408	454	499	545
W 501F CC CT - 258 MW	102	149	196	244	291	338	386	433	480	528	575
Spark Ignition Engine - 5 MW	127	211	295	379	463	547	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	165	238	310	383	456	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
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Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
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IGCC - 534 MW	173	203	233	263	293	323	353	383	413	---	---
Fuel Cell - 0.2 MW	1263	1319	1376	1432	1489	1546	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	188	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	184	271	358	444	531	618	705	---	---	---
Supercritical Pulverized Coal - 500 MW	153	173	192	212	231	250	270	289	309	328	347
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	182	201	221	240	259	278	297	316	335	354
Supercritical Pulverized Coal - 750 MW	137	157	176	195	214	233	252	271	290	309	328
Subcritical Pulverized Coal - 250 MW	189	209	229	249	269	290	310	330	350	370	391
Subcritical Pulverized Coal - 500 MW	149	169	189	208	228	248	267	287	307	326	346
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	178	197	217	236	255	275	294	313	333	352
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	165	184	202	221	240	258	277	296	315	333
Circulating Fluidized Bed - 250 MW	197	218	239	259	280	301	322	343	363	384	405
Circulating Fluidized Bed - 500 MW	150	170	190	210	231	251	271	292	312	332	353
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	132	147	163	178	193	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	209	224	239	254	270

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Combined Cycle 2x1 GE 7FA CT - 484 MW	90	140	190	240	290	340	391	441	491	541	591
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Fuel Cell - 0.2 MW	1263	1330	1397	1465	1532	1600	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	205	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	200	302	405	507	610	712	815	---	---	---
Supercritical Pulverized Coal - 500 MW	153	178	203	227	252	277	302	326	351	376	400
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	186	209	231	254	277	299	322	345	368	390
Supercritical Pulverized Coal - 750 MW	137	162	186	210	235	259	283	308	332	356	380
Subcritical Pulverized Coal - 250 MW	189	214	240	266	291	317	343	368	394	420	446
Subcritical Pulverized Coal - 500 MW	149	174	199	224	250	275	300	325	350	375	400
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	182	205	228	251	274	297	320	343	366	389
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	169	191	213	235	258	280	302	325	347	369
Circulating Fluidized Bed - 250 MW	197	223	250	276	303	329	355	382	408	435	461
Circulating Fluidized Bed - 500 MW	150	175	201	227	253	279	304	330	356	382	408
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	136	154	173	192	211	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	230	248	267	286	305

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	148	196	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	215	274	333	392	450	509	568	626	685	744
Simple Cycle GE 7EA CT - 73 MW	108	181	255	328	401	475	548	622	695	768	842
Simple Cycle GE 7FA CT - 148 MW	81	155	228	302	376	450	524	597	671	745	819
Combined Cycle GE 7EA CT - 119 MW	145	191	237	283	329	374	420	466	512	558	604
Combined Cycle GE 7FA CT - 235 MW	116	158	200	241	283	325	367	409	450	492	534
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	138	179	221	262	304	346	387	429	470	512
W 501F CC CT - 258 MW	109	152	195	238	281	324	367	411	454	497	540
Spark Ignition Engine - 5 MW	141	220	298	377	455	534	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	171	240	308	377	445	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	260	300	341	381	422	462	503	543	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	129	167	204	242	280	318	356	---	---	---
Kalina Cycle CC CT - 275 MW	114	153	192	231	270	308	347	386	---	---	---
Cheng Cycle CT - 140 MW	140	188	237	285	334	382	430	479	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	263	313	363	414	464	514	565	---	---	---
IGCC - 267 MW	237	265	293	322	350	378	406	435	463	---	---
IGCC - 534 MW	207	235	263	291	319	346	374	402	430	---	---
Fuel Cell - 0.2 MW	1394	1446	1498	1550	1602	1654	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	206	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	202	282	362	443	523	603	683	---	---	---
Supercritical Pulverized Coal - 500 MW	167	185	203	220	238	256	274	291	309	327	344
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	195	212	230	248	265	283	300	318	336	353
Supercritical Pulverized Coal - 750 MW	150	168	185	203	220	237	255	272	290	307	324
Subcritical Pulverized Coal - 250 MW	206	224	243	261	280	298	317	335	354	372	391
Subcritical Pulverized Coal - 500 MW	163	181	199	217	235	253	271	289	307	325	343
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	191	208	226	244	262	280	297	315	333	351
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	177	194	211	229	246	264	281	298	316	333
Circulating Fluidized Bed - 250 MW	215	234	253	272	291	310	329	348	367	386	405
Circulating Fluidized Bed - 500 MW	164	182	201	219	238	257	275	294	312	331	350
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	143	157	171	185	199	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	213	227	241	255	269

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	151	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	222	286	351	416	481	546	610	675	740	805
Simple Cycle GE 7EA CT - 73 MW	108	189	269	350	431	512	593	673	754	835	916
Simple Cycle GE 7FA CT - 148 MW	81	161	242	322	402	483	563	644	724	804	885
Combined Cycle GE 7EA CT - 119 MW	145	195	246	296	347	397	448	498	549	599	650
Combined Cycle GE 7FA CT - 235 MW	116	162	208	254	300	346	392	438	484	530	576
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	142	187	233	279	324	370	416	462	507	553
W 501F CC CT - 258 MW	109	156	204	251	299	346	394	441	489	536	584
Spark Ignition Engine - 5 MW	141	225	309	394	478	562	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	176	249	322	395	468	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	262	306	349	392	435	479	522	565	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	133	174	216	258	299	341	383	---	---	---
Kalina Cycle CC CT - 275 MW	114	157	200	243	286	328	371	414	---	---	---
Cheng Cycle CT - 140 MW	140	193	247	301	354	408	461	515	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	268	323	379	434	490	545	601	---	---	---
IGCC - 267 MW	237	267	298	329	359	390	420	451	482	---	---
IGCC - 534 MW	207	238	268	298	328	358	388	418	448	---	---
Fuel Cell - 0.2 MW	1394	1450	1507	1564	1621	1678	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	213	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	209	297	384	471	558	646	733	---	---	---
Supercritical Pulverized Coal - 500 MW	167	188	209	230	251	272	293	314	335	355	376
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	195	213	232	250	268	286	304	322	340	358
Supercritical Pulverized Coal - 750 MW	150	171	191	212	232	253	273	294	314	335	355
Subcritical Pulverized Coal - 250 MW	206	227	249	271	293	315	336	358	380	402	424
Subcritical Pulverized Coal - 500 MW	163	184	206	227	248	269	290	312	333	354	375
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	191	209	228	246	264	283	301	319	338	356
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	177	195	213	231	249	267	285	302	320	338
Circulating Fluidized Bed - 250 MW	215	237	260	282	304	326	349	371	393	416	438
Circulating Fluidized Bed - 500 MW	164	185	207	229	251	273	294	316	338	360	382
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	143	158	172	187	201	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	216	230	245	259	274

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	153	205	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	228	299	369	440	511	582	653	724	795	866
Simple Cycle GE 7EA CT - 73 MW	108	196	284	372	461	549	637	725	813	902	990
Simple Cycle GE 7FA CT - 148 MW	81	168	255	342	429	516	603	690	777	864	951
Combined Cycle GE 7EA CT - 119 MW	145	200	255	310	365	420	476	531	586	641	696
Combined Cycle GE 7FA CT - 235 MW	116	166	216	266	316	367	417	467	517	567	617
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	146	196	246	296	345	395	445	495	545	595
W 501F CC CT - 258 MW	109	161	212	264	316	368	420	471	523	575	627
Spark Ignition Engine - 5 MW	141	231	321	411	501	591	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	181	258	336	413	491	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	265	311	357	403	449	495	541	587	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	136	182	228	273	319	364	410	---	---	---
Kalina Cycle CC CT - 275 MW	114	161	208	255	302	348	395	442	---	---	---
Cheng Cycle CT - 140 MW	140	198	257	316	374	433	491	550	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	273	333	394	454	515	575	636	---	---	---
IGCC - 267 MW	237	270	303	336	369	402	435	468	501	---	---
IGCC - 534 MW	207	240	273	305	338	370	403	436	468	---	---
Fuel Cell - 0.2 MW	1394	1455	1517	1579	1641	1703	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	221	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	216	311	405	500	594	689	783	---	---	---
Supercritical Pulverized Coal - 500 MW	167	190	212	235	257	280	302	325	347	370	392
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	198	219	240	261	282	303	324	344	365	386
Supercritical Pulverized Coal - 750 MW	150	173	195	217	239	261	283	305	327	349	371
Subcritical Pulverized Coal - 250 MW	206	229	253	276	300	323	347	370	394	417	441
Subcritical Pulverized Coal - 500 MW	163	186	209	232	255	278	301	323	346	369	392
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	194	215	236	258	279	300	321	342	364	385
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	180	200	221	242	262	283	303	324	345	365
Circulating Fluidized Bed - 250 MW	215	239	263	287	311	335	360	384	408	432	456
Circulating Fluidized Bed - 500 MW	164	187	211	234	258	281	305	328	352	375	399
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TCC 732 MW Supercritical Pulverized Coal	129	146	163	180	197	214	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	231	248	266	283	300

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	150	198	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	218	280	342	403	465	526	588	650	711	773
Simple Cycle GE 7EA CT - 73 MW	108	185	262	338	415	492	569	646	723	800	877
Simple Cycle GE 7FA CT - 148 MW	81	158	235	312	388	465	542	619	696	773	850
Combined Cycle GE 7EA CT - 119 MW	145	193	241	289	337	385	433	481	529	577	625
Combined Cycle GE 7FA CT - 235 MW	116	160	204	247	291	335	379	423	466	510	554
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	140	183	227	270	314	358	401	445	488	532
W 501F CC CT - 258 MW	109	154	199	244	290	335	380	425	470	516	561
Spark Ignition Engine - 5 MW	141	222	303	385	466	547	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	174	244	315	385	456	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	261	303	345	387	428	470	512	554	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	130	170	210	249	289	328	368	---	---	---
Kalina Cycle CC CT - 275 MW	114	155	196	236	277	318	358	399	---	---	---
Cheng Cycle CT - 140 MW	140	191	242	292	343	394	445	496	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	265	318	371	423	476	529	582	---	---	---
IGCC - 267 MW	237	266	296	325	355	384	413	443	472	---	---
IGCC - 534 MW	207	236	265	294	323	352	381	410	439	---	---
Fuel Cell - 0.2 MW	1394	1448	1502	1557	1611	1666	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	209	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	206	289	373	456	540	623	707	---	---	---
Supercritical Pulverized Coal - 500 MW	167	186	205	223	242	260	279	298	316	335	353
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	196	214	232	251	269	288	306	324	343	361
Supercritical Pulverized Coal - 750 MW	150	169	187	205	224	242	260	279	297	315	333
Subcritical Pulverized Coal - 250 MW	206	225	244	264	283	303	322	341	361	380	400
Subcritical Pulverized Coal - 500 MW	163	182	201	220	238	257	276	295	314	332	351
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	191	210	229	247	266	284	303	322	340	359
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	177	195	214	232	250	268	286	304	322	340
Circulating Fluidized Bed - 250 MW	215	235	255	275	295	314	334	354	374	394	414
Circulating Fluidized Bed - 500 MW	164	183	203	222	242	261	281	300	320	339	359
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	143	158	173	187	202	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	216	231	246	260	275

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	155	209	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	231	306	380	455	529	604	678	753	827	902
Simple Cycle GE 7EA CT - 73 MW	108	200	293	385	477	570	662	755	847	939	1032
Simple Cycle GE 7FA CT - 148 MW	81	172	262	353	444	535	626	716	807	898	989
Combined Cycle GE 7EA CT - 119 MW	145	203	260	318	376	433	491	549	607	664	722
Combined Cycle GE 7FA CT - 235 MW	116	169	221	274	326	379	432	484	537	589	642
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	148	201	253	305	357	410	462	514	567	619
W 501F CC CT - 258 MW	109	163	218	272	326	381	435	490	544	598	653
Spark Ignition Engine - 5 MW	141	234	328	421	515	608	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	183	264	344	425	505	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	267	314	362	409	457	504	552	599	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	139	186	234	282	329	377	425	---	---	---
Kalina Cycle CC CT - 275 MW	114	163	212	262	311	360	409	458	---	---	---
Cheng Cycle CT - 140 MW	140	201	263	324	386	447	508	570	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	276	339	402	466	529	592	656	---	---	---
IGCC - 267 MW	237	271	306	340	375	409	444	478	513	---	---
IGCC - 534 MW	207	241	275	309	343	377	411	445	479	---	---
Fuel Cell - 0.2 MW	1394	1458	1523	1587	1652	1717	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	225	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	220	319	417	516	614	713	811	---	---	---
Supercritical Pulverized Coal - 500 MW	167	191	215	238	262	286	310	333	357	381	404
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	199	221	243	265	287	309	331	352	374	396
Supercritical Pulverized Coal - 750 MW	150	174	197	220	243	266	290	313	336	359	382
Subcritical Pulverized Coal - 250 MW	206	230	255	279	304	329	353	378	402	427	452
Subcritical Pulverized Coal - 500 MW	163	187	211	235	259	283	307	331	355	379	403
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	195	217	239	262	284	306	328	350	373	395
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	181	202	224	245	267	288	310	331	353	374
Circulating Fluidized Bed - 250 MW	215	240	265	291	316	341	366	391	417	442	467
Circulating Fluidized Bed - 500 MW	164	188	213	238	262	287	312	336	361	386	411
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	147	165	182	200	218	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	236	254	272	290	308

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	151	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	221	286	350	415	479	544	608	673	737	802
Simple Cycle GE 7EA CT - 73 MW	108	188	269	349	429	510	590	671	751	831	912
Simple Cycle GE 7FA CT - 148 MW	81	161	241	321	401	481	561	641	721	801	881
Combined Cycle GE 7EA CT - 119 MW	145	195	245	296	346	396	446	496	547	597	647
Combined Cycle GE 7FA CT - 235 MW	116	162	208	253	299	345	391	437	482	528	574
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	141	187	232	278	323	369	414	460	505	551
W 501F CC CT - 258 MW	109	156	203	251	298	345	393	440	487	535	582
Spark Ignition Engine - 5 MW	141	225	309	393	477	561	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	176	249	321	394	467	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	262	305	348	392	435	478	521	564	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	132	174	215	257	298	339	381	---	---	---
Kalina Cycle CC CT - 275 MW	114	157	200	242	285	328	370	413	---	---	---
Cheng Cycle CT - 140 MW	140	193	246	300	353	406	460	513	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	268	323	378	433	488	543	599	---	---	---
IGCC - 267 MW	237	267	298	328	359	389	420	450	481	---	---
IGCC - 534 MW	207	237	267	297	327	357	387	417	447	---	---
Fuel Cell - 0.2 MW	1394	1450	1507	1563	1620	1677	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	213	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	209	296	383	469	556	643	730	---	---	---
Supercritical Pulverized Coal - 500 MW	167	187	206	226	245	264	284	303	323	342	361
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	196	215	235	254	273	292	311	330	349	368
Supercritical Pulverized Coal - 750 MW	150	170	189	208	227	246	265	284	303	322	341
Subcritical Pulverized Coal - 250 MW	206	226	246	266	286	307	327	347	367	387	408
Subcritical Pulverized Coal - 500 MW	163	183	203	222	242	262	281	301	321	340	360
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	192	211	231	250	269	289	308	327	347	366
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	178	197	215	234	253	271	290	309	328	346
Circulating Fluidized Bed - 250 MW	215	236	257	277	298	319	340	361	381	402	423
Circulating Fluidized Bed - 500 MW	164	184	204	224	245	265	285	306	326	346	367
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	144	159	175	190	205	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	221	236	251	266	282

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	153	205	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	228	299	371	442	513	585	656	727	798	870
Simple Cycle GE 7EA CT - 73 MW	108	196	285	374	462	551	639	728	817	905	994
Simple Cycle GE 7FA CT - 148 MW	81	168	255	343	430	517	605	692	779	867	954
Combined Cycle GE 7EA CT - 119 MW	145	200	256	311	366	421	477	532	587	643	698
Combined Cycle GE 7FA CT - 235 MW	116	166	217	267	318	368	418	469	519	570	620
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	146	196	246	296	346	397	447	497	547	597
W 501F CC CT - 258 MW	109	161	213	265	317	369	421	474	526	578	630
Spark Ignition Engine - 5 MW	141	231	322	412	503	593	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	181	259	336	414	492	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	265	311	357	404	450	496	542	588	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	137	182	228	274	319	365	411	---	---	---
Kalina Cycle CC CT - 275 MW	114	161	208	255	302	349	396	443	---	---	---
Cheng Cycle CT - 140 MW	140	199	258	316	375	434	493	552	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	273	334	395	455	516	577	638	---	---	---
IGCC - 267 MW	237	270	303	336	370	403	436	469	502	---	---
IGCC - 534 MW	207	240	273	306	338	371	404	436	469	---	---
Fuel Cell - 0.2 MW	1394	1456	1518	1580	1642	1704	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	221	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	217	311	406	501	596	690	785	---	---	---
Supercritical Pulverized Coal - 500 MW	167	190	213	236	259	282	305	328	351	373	396
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	197	217	236	256	276	295	315	335	355	374
Supercritical Pulverized Coal - 750 MW	150	173	195	218	240	263	285	308	330	353	375
Subcritical Pulverized Coal - 250 MW	206	229	253	277	301	325	348	372	396	420	444
Subcritical Pulverized Coal - 500 MW	163	186	210	233	256	279	302	326	349	372	395
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	193	213	233	252	272	292	312	332	352	372
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	179	198	217	236	256	275	294	314	333	352
Circulating Fluidized Bed - 250 MW	215	239	264	288	313	337	361	386	410	435	459
Circulating Fluidized Bed - 500 MW	164	187	211	235	259	283	307	331	355	379	403
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	145	161	176	192	208	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	224	240	256	272	288

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	156	211	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	235	313	391	469	547	625	703	781	859	937
Simple Cycle GE 7EA CT - 73 MW	108	204	301	398	495	591	688	785	881	978	1075
Simple Cycle GE 7FA CT - 148 MW	81	175	270	365	459	554	648	743	838	932	1027
Combined Cycle GE 7EA CT - 119 MW	145	205	266	326	387	447	507	568	628	689	749
Combined Cycle GE 7FA CT - 235 MW	116	171	226	281	336	391	446	501	556	611	666
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	151	205	260	315	369	424	479	534	588	643
W 501F CC CT - 258 MW	109	166	223	280	336	393	450	507	564	621	678
Spark Ignition Engine - 5 MW	141	238	334	431	527	624	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	186	269	352	435	518	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	268	317	366	416	465	514	563	612	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	141	191	241	291	341	391	441	---	---	---
Kalina Cycle CC CT - 275 MW	114	166	217	268	320	371	423	474	---	---	---
Cheng Cycle CT - 140 MW	140	204	269	333	398	462	526	591	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	279	345	411	478	544	610	677	---	---	---
IGCC - 267 MW	237	273	309	345	380	416	452	488	524	---	---
IGCC - 534 MW	207	243	278	314	349	385	420	455	491	---	---
Fuel Cell - 0.2 MW	1394	1461	1528	1596	1663	1731	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	230	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	225	327	430	532	635	737	840	---	---	---
Supercritical Pulverized Coal - 500 MW	167	192	217	241	266	291	316	340	365	390	414
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	200	223	245	268	291	313	336	359	382	404
Supercritical Pulverized Coal - 750 MW	150	175	199	223	248	272	296	321	345	369	393
Subcritical Pulverized Coal - 250 MW	206	231	257	283	308	334	360	385	411	437	463
Subcritical Pulverized Coal - 500 MW	163	188	213	238	264	289	314	339	364	389	414
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	196	219	242	265	288	311	334	357	380	403
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	182	204	226	248	271	293	315	338	360	382
Circulating Fluidized Bed - 250 MW	215	241	268	294	321	347	373	400	426	453	479
Circulating Fluidized Bed - 500 MW	164	189	215	241	267	293	318	344	370	396	422
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	148	166	185	204	223	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	242	260	279	298	317

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	164	212	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	224	283	342	401	459	518	577	635	694	753
Simple Cycle GE 7EA CT - 73 MW	114	187	261	334	407	481	554	628	701	774	848
Simple Cycle GE 7FA CT - 148 MW	86	160	233	307	381	455	529	602	676	750	824
Combined Cycle GE 7EA CT - 119 MW	155	201	247	293	339	384	430	476	522	568	614
Combined Cycle GE 7FA CT - 235 MW	123	165	207	248	290	332	374	416	457	499	541
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	143	184	226	267	309	351	392	434	475	517
W 501F CC CT - 258 MW	116	159	202	245	288	331	374	418	461	504	547
Spark Ignition Engine - 5 MW	155	234	312	391	469	548	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	181	250	318	387	455	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	304	344	385	425	466	506	547	587	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	140	178	215	253	291	329	367	---	---	---
Kalina Cycle CC CT - 275 MW	131	170	209	248	287	325	364	403	---	---	---
Cheng Cycle CT - 140 MW	160	208	257	305	354	402	450	499	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	298	348	398	449	499	549	600	---	---	---
IGCC - 267 MW	273	301	329	358	386	414	442	471	499	---	---
IGCC - 534 MW	240	268	296	324	352	379	407	435	463	---	---
Fuel Cell - 0.2 MW	1526	1578	1630	1682	1734	1786	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	230	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	226	306	386	467	547	627	707	---	---	---
Supercritical Pulverized Coal - 500 MW	181	199	217	234	252	270	288	305	323	341	358
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	210	227	245	263	280	298	315	333	351	368
Supercritical Pulverized Coal - 750 MW	162	180	197	215	232	249	267	284	302	319	336
Subcritical Pulverized Coal - 250 MW	223	241	260	278	297	315	334	352	371	389	408
Subcritical Pulverized Coal - 500 MW	176	194	212	230	248	266	284	302	320	338	356
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	205	222	240	258	276	294	311	329	347	365
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	191	208	225	243	260	278	295	312	330	347
Circulating Fluidized Bed - 250 MW	232	251	270	289	308	327	346	365	384	403	422
Circulating Fluidized Bed - 500 MW	178	196	215	233	252	271	289	308	326	345	364
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	154	168	182	196	210	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	224	238	252	266	280

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	167	217	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	231	295	360	425	490	555	619	684	749	814
Simple Cycle GE 7EA CT - 73 MW	114	195	275	356	437	518	599	679	760	841	922
Simple Cycle GE 7FA CT - 148 MW	86	166	247	327	407	488	568	649	729	809	890
Combined Cycle GE 7EA CT - 119 MW	155	205	256	306	357	407	458	508	559	609	660
Combined Cycle GE 7FA CT - 235 MW	123	169	215	261	307	353	399	445	491	537	583
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	147	192	238	284	329	375	421	467	512	558
W 501F CC CT - 258 MW	116	163	211	258	306	353	401	448	496	543	591
Spark Ignition Engine - 5 MW	155	239	323	408	492	576	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	186	259	332	405	478	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	306	350	393	436	479	523	566	609	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	144	185	227	269	310	352	394	---	---	---
Kalina Cycle CC CT - 275 MW	131	174	217	260	303	345	388	431	---	---	---
Cheng Cycle CT - 140 MW	160	213	267	321	374	428	481	535	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	303	358	414	469	525	580	636	---	---	---
IGCC - 267 MW	273	303	334	365	395	426	456	487	518	---	---
IGCC - 534 MW	240	271	301	331	361	391	421	451	481	---	---
Fuel Cell - 0.2 MW	1526	1582	1639	1696	1753	1810	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	237	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	233	321	408	495	582	670	757	---	---	---
Supercritical Pulverized Coal - 500 MW	181	202	223	244	265	286	307	328	349	369	390
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	210	228	247	265	283	301	319	337	355	373
Supercritical Pulverized Coal - 750 MW	162	183	203	224	244	265	285	306	326	347	367
Subcritical Pulverized Coal - 250 MW	223	244	266	288	310	332	353	375	397	419	441
Subcritical Pulverized Coal - 500 MW	176	197	219	240	261	282	303	325	346	367	388
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	205	223	242	260	278	297	315	333	352	370
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	191	209	227	245	263	281	299	316	334	352
Circulating Fluidized Bed - 250 MW	232	254	277	299	321	343	366	388	410	433	455
Circulating Fluidized Bed - 500 MW	178	199	221	243	265	287	308	330	352	374	396
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	154	169	183	198	212	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	227	241	256	270	285

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	169	221	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	237	308	378	449	520	591	662	733	804	875
Simple Cycle GE 7EA CT - 73 MW	114	202	290	378	467	555	643	731	819	908	996
Simple Cycle GE 7FA CT - 148 MW	86	173	260	347	434	521	608	695	782	869	956
Combined Cycle GE 7EA CT - 119 MW	155	210	265	320	375	430	486	541	596	651	706
Combined Cycle GE 7FA CT - 235 MW	123	173	223	273	323	374	424	474	524	574	624
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	151	201	251	301	350	400	450	500	550	600
W 501F CC CT - 258 MW	116	168	219	271	323	375	427	478	530	582	634
Spark Ignition Engine - 5 MW	155	245	335	425	515	605	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	191	268	346	423	501	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	309	355	401	447	493	539	585	631	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	147	193	239	284	330	375	421	---	---	---
Kalina Cycle CC CT - 275 MW	131	178	225	272	319	365	412	459	---	---	---
Cheng Cycle CT - 140 MW	160	218	277	336	394	453	511	570	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	308	368	429	489	550	610	671	---	---	---
IGCC - 267 MW	273	306	339	372	405	438	471	504	537	---	---
IGCC - 534 MW	240	273	306	338	371	403	436	469	501	---	---
Fuel Cell - 0.2 MW	1526	1587	1649	1711	1773	1835	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	245	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	240	335	429	524	618	713	807	---	---	---
Supercritical Pulverized Coal - 500 MW	181	204	226	249	271	294	316	339	361	384	406
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	213	234	255	276	297	318	339	359	380	401
Supercritical Pulverized Coal - 750 MW	162	185	207	229	251	273	295	317	339	361	383
Subcritical Pulverized Coal - 250 MW	223	246	270	293	317	340	364	387	411	434	458
Subcritical Pulverized Coal - 500 MW	176	199	222	245	268	291	314	336	359	382	405
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	208	229	250	272	293	314	335	356	378	399
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	194	214	235	256	276	297	317	338	359	379
Circulating Fluidized Bed - 250 MW	232	256	280	304	328	352	377	401	425	449	473
Circulating Fluidized Bed - 500 MW	178	201	225	248	272	295	319	342	366	389	413
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	157	174	191	208	225	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	242	259	277	294	311

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	166	214	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	227	289	351	412	474	535	597	659	720	782
Simple Cycle GE 7EA CT - 73 MW	114	191	268	344	421	498	575	652	729	806	883
Simple Cycle GE 7FA CT - 148 MW	86	163	240	317	393	470	547	624	701	778	855
Combined Cycle GE 7EA CT - 119 MW	155	203	251	299	347	395	443	491	539	587	635
Combined Cycle GE 7FA CT - 235 MW	123	167	211	254	298	342	386	430	473	517	561
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	145	188	232	275	319	363	406	450	493	537
W 501F CC CT - 258 MW	116	161	206	251	297	342	387	432	477	523	568
Spark Ignition Engine - 5 MW	155	236	317	399	480	561	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	184	254	325	395	466	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	305	347	389	431	472	514	556	598	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	141	181	221	260	300	339	379	---	---	---
Kalina Cycle CC CT - 275 MW	131	172	213	253	294	335	375	416	---	---	---
Cheng Cycle CT - 140 MW	160	211	262	312	363	414	465	516	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	300	353	406	458	511	564	617	---	---	---
IGCC - 267 MW	273	302	332	361	391	420	449	479	508	---	---
IGCC - 534 MW	240	269	298	327	356	385	414	443	472	---	---
Fuel Cell - 0.2 MW	1526	1580	1634	1689	1743	1798	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	233	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	230	313	397	480	564	647	731	---	---	---
Supercritical Pulverized Coal - 500 MW	181	200	219	237	256	274	293	312	330	349	367
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	211	229	247	266	284	303	321	339	358	376
Supercritical Pulverized Coal - 750 MW	162	181	199	217	236	254	272	291	309	327	345
Subcritical Pulverized Coal - 250 MW	223	242	261	281	300	320	339	358	378	397	417
Subcritical Pulverized Coal - 500 MW	176	195	214	233	251	270	289	308	327	345	364
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	205	224	243	261	280	298	317	336	354	373
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	191	209	228	246	264	282	300	318	336	354
Circulating Fluidized Bed - 250 MW	232	252	272	292	312	331	351	371	391	411	431
Circulating Fluidized Bed - 500 MW	178	197	217	236	256	275	295	314	334	353	373
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	154	169	184	198	213	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	227	242	257	271	286

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	168	219	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	234	302	370	438	506	574	642	710	778	846
Simple Cycle GE 7EA CT - 73 MW	114	198	283	368	453	537	622	707	791	876	961
Simple Cycle GE 7FA CT - 148 MW	86	170	253	337	421	505	589	672	756	840	924
Combined Cycle GE 7EA CT - 119 MW	155	208	261	314	367	419	472	525	578	631	684
Combined Cycle GE 7FA CT - 235 MW	123	171	219	268	316	364	412	460	509	557	605
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	149	197	245	293	340	388	436	484	532	580
W 501F CC CT - 258 MW	116	166	215	265	315	365	415	464	514	564	614
Spark Ignition Engine - 5 MW	155	242	330	417	505	592	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	188	264	339	415	490	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	308	353	397	442	487	532	576	621	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	146	189	233	277	320	364	408	---	---	---
Kalina Cycle CC CT - 275 MW	131	176	221	266	311	356	401	446	---	---	---
Cheng Cycle CT - 140 MW	160	216	272	328	384	441	497	553	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	306	364	422	480	538	596	654	---	---	---
IGCC - 267 MW	273	305	337	369	400	432	464	496	528	---	---
IGCC - 534 MW	240	272	303	335	366	398	429	460	492	---	---
Fuel Cell - 0.2 MW	1526	1585	1644	1704	1763	1823	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	241	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	237	328	419	510	601	692	783	---	---	---
Supercritical Pulverized Coal - 500 MW	181	203	225	247	269	291	313	335	357	378	400
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	211	230	249	268	287	306	325	343	362	381
Supercritical Pulverized Coal - 750 MW	162	184	205	227	248	270	291	313	334	356	377
Subcritical Pulverized Coal - 250 MW	223	245	268	291	314	337	359	382	405	428	451
Subcritical Pulverized Coal - 500 MW	176	198	221	243	265	287	309	332	354	376	398
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	206	225	244	264	283	302	321	340	360	379
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	192	210	229	248	266	285	303	322	341	359
Circulating Fluidized Bed - 250 MW	232	255	279	302	325	348	372	395	418	442	465
Circulating Fluidized Bed - 500 MW	178	200	223	246	269	292	315	338	361	384	407
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	155	170	185	201	216	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	231	246	261	277	292

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	171	225	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	240	315	389	464	538	613	687	762	836	911
Simple Cycle GE 7EA CT - 73 MW	114	206	299	391	483	576	668	761	853	945	1038
Simple Cycle GE 7FA CT - 148 MW	86	177	267	358	449	540	631	721	812	903	994
Combined Cycle GE 7EA CT - 119 MW	155	213	270	328	386	443	501	559	617	674	732
Combined Cycle GE 7FA CT - 235 MW	123	176	228	281	333	386	439	491	544	596	649
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	153	206	258	310	362	415	467	519	572	624
W 501F CC CT - 258 MW	116	170	225	279	333	388	442	497	551	605	660
Spark Ignition Engine - 5 MW	155	248	342	435	529	622	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	193	274	354	435	515	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	311	358	406	453	501	548	596	643	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	150	197	245	293	340	388	436	---	---	---
Kalina Cycle CC CT - 275 MW	131	180	229	279	328	377	426	475	---	---	---
Cheng Cycle CT - 140 MW	160	221	283	344	406	467	528	590	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	311	374	437	501	564	627	691	---	---	---
IGCC - 267 MW	273	307	342	376	411	445	480	514	549	---	---
IGCC - 534 MW	240	274	308	342	376	410	444	478	512	---	---
Fuel Cell - 0.2 MW	1526	1590	1655	1719	1784	1849	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	249	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	244	343	441	540	638	737	835	---	---	---
Supercritical Pulverized Coal - 500 MW	181	205	229	252	276	300	324	347	371	395	418
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	214	236	258	280	302	324	346	367	389	411
Supercritical Pulverized Coal - 750 MW	162	186	209	232	255	278	302	325	348	371	394
Subcritical Pulverized Coal - 250 MW	223	247	272	296	321	346	370	395	419	444	469
Subcritical Pulverized Coal - 500 MW	176	200	224	248	272	296	320	344	368	392	416
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	209	231	253	276	298	320	342	364	387	409
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	195	216	238	259	281	302	324	345	367	388
Circulating Fluidized Bed - 250 MW	232	257	282	308	333	358	383	408	434	459	484
Circulating Fluidized Bed - 500 MW	178	202	227	252	276	301	326	350	375	400	425
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	158	176	193	211	229	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	247	265	283	301	319

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Capital Cost- High
Heat Rate- High
Fuel Forecast-Low

2004 Dollars (\$/kW yr)

Capacity Factors

Technology	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	167	217	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	230	295	359	424	488	553	617	682	746	811
Simple Cycle GE 7EA CT - 73 MW	114	194	275	355	435	516	596	677	757	837	918
Simple Cycle GE 7FA CT - 148 MW	86	166	246	326	406	486	566	646	726	806	886
Combined Cycle GE 7EA CT - 119 MW	155	205	255	306	356	406	456	506	557	607	657
Combined Cycle GE 7FA CT - 235 MW	123	169	215	260	306	352	398	444	489	535	581
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	146	192	237	283	328	374	419	465	510	556
W 501F CC CT - 258 MW	116	163	210	258	305	352	400	447	494	542	589
Spark Ignition Engine - 5 MW	155	239	323	407	491	575	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	186	259	331	404	477	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	306	349	392	436	479	522	565	608	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	143	185	226	268	309	350	392	---	---	---
Kalina Cycle CC CT - 275 MW	131	174	217	259	302	345	387	430	---	---	---
Cheng Cycle CT - 140 MW	160	213	266	320	373	426	480	533	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	303	358	413	468	523	578	634	---	---	---
IGCC - 267 MW	273	303	334	364	395	425	456	486	517	---	---
IGCC - 534 MW	240	270	300	330	360	390	420	450	480	---	---
Fuel Cell - 0.2 MW	1526	1582	1639	1695	1752	1809	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	237	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	233	320	407	493	580	667	754	---	---	---
Supercritical Pulverized Coal - 500 MW	181	201	220	240	259	278	298	317	337	356	375
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	211	230	250	269	288	307	326	345	364	383
Supercritical Pulverized Coal - 750 MW	162	182	201	220	239	258	277	296	315	334	353
Subcritical Pulverized Coal - 250 MW	223	243	263	283	303	324	344	364	384	404	425
Subcritical Pulverized Coal - 500 MW	176	196	216	235	255	275	294	314	334	353	373
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	206	225	245	264	283	303	322	341	361	380
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	192	211	229	248	267	285	304	323	342	360
Circulating Fluidized Bed - 250 MW	232	253	274	294	315	336	357	378	398	419	440
Circulating Fluidized Bed - 500 MW	178	198	218	238	259	279	299	320	340	360	381
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	155	170	186	201	216	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	232	247	262	277	293

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	169	221	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	237	308	380	451	522	594	665	736	807	879
Simple Cycle GE 7EA CT - 73 MW	114	202	291	380	468	557	645	734	823	911	1000
Simple Cycle GE 7FA CT - 148 MW	86	173	260	348	435	522	610	697	784	872	959
Combined Cycle GE 7EA CT - 119 MW	155	210	266	321	376	431	487	542	597	653	708
Combined Cycle GE 7FA CT - 235 MW	123	173	224	274	325	375	425	476	526	577	627
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	151	201	251	301	351	402	452	502	552	602
W 501F CC CT - 258 MW	116	168	220	272	324	376	428	481	533	585	637
Spark Ignition Engine - 5 MW	155	245	336	426	517	607	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	191	269	346	424	502	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	309	355	401	448	494	540	586	632	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	148	193	239	285	330	376	422	---	---	---
Kalina Cycle CC CT - 275 MW	131	178	225	272	319	366	413	460	---	---	---
Cheng Cycle CT - 140 MW	160	219	278	336	395	454	513	572	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	308	369	430	490	551	612	673	---	---	---
IGCC - 267 MW	273	306	339	372	406	439	472	505	538	---	---
IGCC - 534 MW	240	273	306	339	371	404	437	469	502	---	---
Fuel Cell - 0.2 MW	1526	1588	1650	1712	1774	1836	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	245	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	241	335	430	525	620	714	809	---	---	---
Supercritical Pulverized Coal - 500 MW	181	204	227	250	273	296	319	342	365	387	410
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	212	232	251	271	291	310	330	350	370	389
Supercritical Pulverized Coal - 750 MW	162	185	207	230	252	275	297	320	342	365	387
Subcritical Pulverized Coal - 250 MW	223	246	270	294	318	342	365	389	413	437	461
Subcritical Pulverized Coal - 500 MW	176	199	223	246	269	292	315	339	362	385	408
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	207	227	247	266	286	306	326	346	366	386
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	193	212	231	250	270	289	308	328	347	366
Circulating Fluidized Bed - 250 MW	232	256	281	305	330	354	378	403	427	452	476
Circulating Fluidized Bed - 500 MW	178	201	225	249	273	297	321	345	369	393	417
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	156	172	187	203	219	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	235	251	267	283	299

Levelized Dollars at Various Capacity Factors With SO2 Adders, without CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	172	227	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	244	322	400	478	556	634	712	790	868	946
Simple Cycle GE 7EA CT - 73 MW	114	210	307	404	501	597	694	791	887	984	1081
Simple Cycle GE 7FA CT - 148 MW	86	180	275	370	464	559	653	748	843	937	1032
Combined Cycle GE 7EA CT - 119 MW	155	215	276	336	397	457	517	578	638	699	759
Combined Cycle GE 7FA CT - 235 MW	123	178	233	288	343	398	453	508	563	618	673
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	156	210	265	320	374	429	484	539	593	648
W 501F CC CT - 258 MW	116	173	230	287	343	400	457	514	571	628	685
Spark Ignition Engine - 5 MW	155	252	348	445	541	638	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	196	279	362	445	528	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	312	361	410	460	509	558	607	656	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	152	202	252	302	352	402	452	---	---	---
Kalina Cycle CC CT - 275 MW	131	183	234	285	337	388	440	491	---	---	---
Cheng Cycle CT - 140 MW	160	224	289	353	418	482	546	611	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	314	380	446	513	579	645	712	---	---	---
IGCC - 267 MW	273	309	345	381	416	452	488	524	560	---	---
IGCC - 534 MW	240	276	311	347	382	418	453	488	524	---	---
Fuel Cell - 0.2 MW	1526	1593	1660	1728	1795	1863	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	254	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	249	351	454	556	659	761	864	---	---	---
Supercritical Pulverized Coal - 500 MW	181	206	231	255	280	305	330	354	379	404	428
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	215	238	260	283	306	328	351	374	397	419
Supercritical Pulverized Coal - 750 MW	162	187	211	235	260	284	308	333	357	381	405
Subcritical Pulverized Coal - 250 MW	223	248	274	300	325	351	377	402	428	454	480
Subcritical Pulverized Coal - 500 MW	176	201	226	251	277	302	327	352	377	402	427
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	210	233	256	279	302	325	348	371	394	417
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	196	218	240	262	285	307	329	352	374	396
Circulating Fluidized Bed - 250 MW	232	258	285	311	338	364	390	417	443	470	496
Circulating Fluidized Bed - 500 MW	178	203	229	255	281	307	332	358	384	410	436
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	159	177	196	215	234	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	253	271	290	309	328

Exhibit 7

Least Costly Technologies In All Cases With Base Emissions

Base Capital, Base Heatrate, Base Fuel

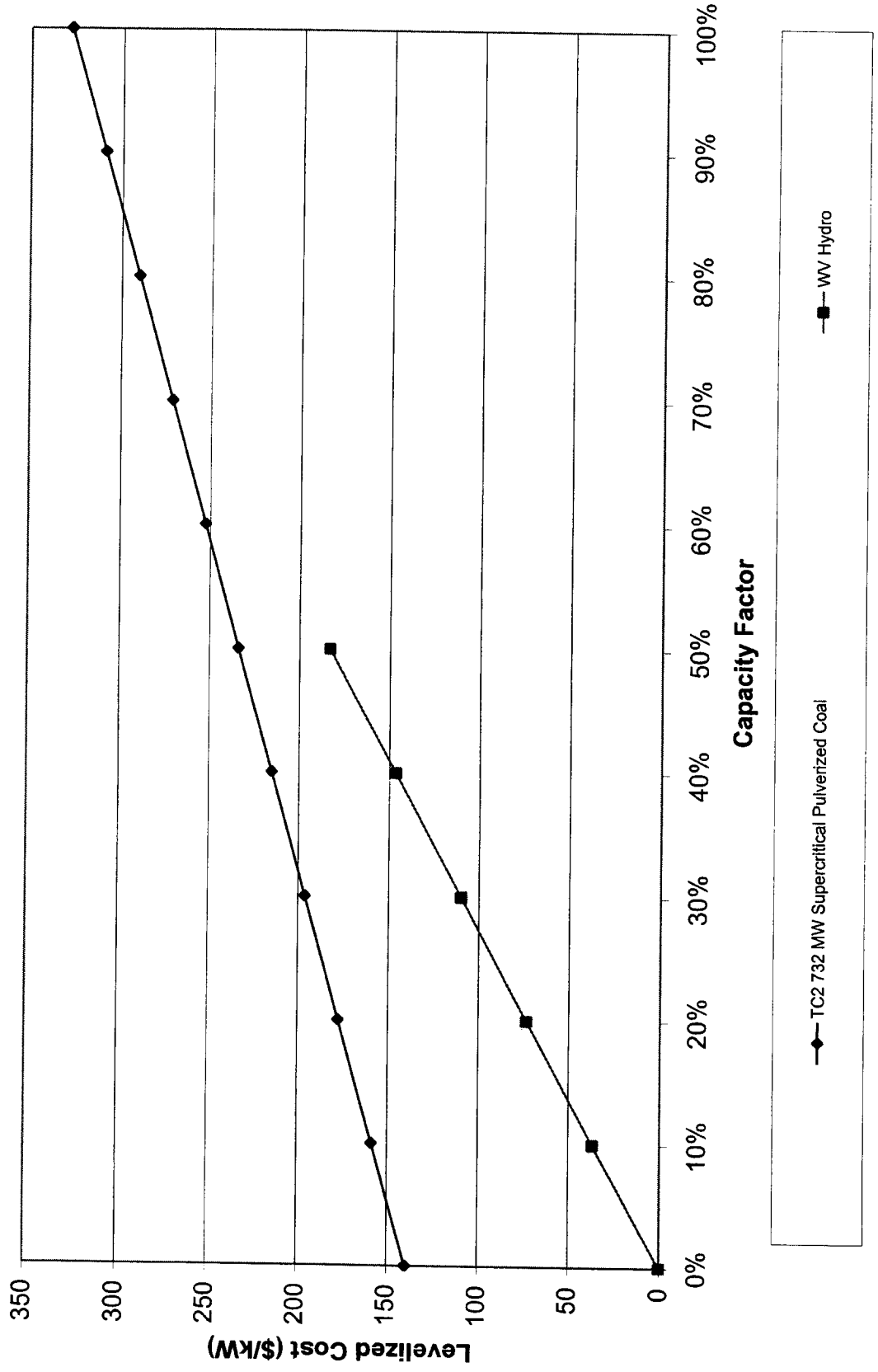


Exhibit 8

**30-Year Levelized Cost For
All Technologies Over All Capacity
Factors With CO₂ Emissions**

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	153	205	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	226	296	365	435	504	574	643	713	782	852
Simple Cycle GE 7EA CT - 73 MW	108	194	281	367	453	540	626	713	799	885	972
Simple Cycle GE 7FA CT - 148 MW	81	166	252	337	422	508	593	679	764	849	935
Combined Cycle GE 7EA CT - 119 MW	145	199	253	307	361	415	469	523	577	631	685
Combined Cycle GE 7FA CT - 235 MW	116	165	214	264	313	362	411	460	510	559	608
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	145	194	243	292	340	389	438	487	536	585
W 501F CC CT - 258 MW	109	160	210	261	312	363	414	464	515	566	617
Spark Ignition Engine - 5 MW	141	230	318	407	495	584	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	180	256	333	409	486	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	266	313	360	408	455	502	549	596	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	135	180	225	269	314	358	403	---	---	---
Kalina Cycle CC CT - 275 MW	114	160	206	252	298	343	389	435	---	---	---
Cheng Cycle CT - 140 MW	140	197	255	312	370	427	484	542	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	272	331	390	450	509	568	628	---	---	---
IGCC - 267 MW	237	271	305	339	373	407	442	476	510	---	---
IGCC - 534 MW	207	241	275	308	342	376	409	443	477	---	---
Fuel Cell - 0.2 MW	1394	1454	1515	1575	1636	1697	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	219	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	215	307	400	493	586	678	771	---	---	---
Supercritical Pulverized Coal - 500 MW	167	192	216	241	265	290	314	339	363	388	412
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	199	220	242	263	285	306	328	349	371	392
Supercritical Pulverized Coal - 750 MW	150	175	199	223	247	271	295	319	343	367	391
Subcritical Pulverized Coal - 250 MW	206	231	257	282	308	333	359	384	410	435	461
Subcritical Pulverized Coal - 500 MW	163	188	213	238	262	287	312	337	362	386	411
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	195	216	238	260	282	304	325	347	369	391
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	180	201	223	244	265	286	307	328	349	370
Circulating Fluidized Bed - 250 MW	215	241	267	293	319	345	371	397	423	449	475
Circulating Fluidized Bed - 500 MW	164	189	215	240	266	291	317	342	368	393	419
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	146	164	182	199	217	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	234	252	270	287	305

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	141	189	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	208	268	328	388	448	508	568	629	689	749
Simple Cycle GE 7EA CT - 73 MW	102	177	252	327	402	477	552	627	703	778	853
Simple Cycle GE 7FA CT - 148 MW	77	152	227	303	378	453	529	604	679	755	830
Combined Cycle GE 7EA CT - 119 MW	136	183	230	277	324	370	417	464	511	558	605
Combined Cycle GE 7FA CT - 235 MW	108	151	193	236	279	322	364	407	450	492	535
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	132	175	217	260	302	345	387	430	472	515
W 501F CC CT - 258 MW	102	146	190	234	278	322	366	411	455	499	543
Spark Ignition Engine - 5 MW	127	207	287	366	446	526	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	161	231	300	370	439	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	---	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	219	262	305	348	390	433	476	519	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	119	157	196	235	273	312	351	---	---	---
Kalina Cycle CC CT - 275 MW	98	138	178	217	257	297	336	376	---	---	---
Cheng Cycle CT - 140 MW	119	168	218	268	317	367	416	466	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	228	279	331	382	434	485	537	---	---	---
IGCC - 267 MW	201	231	262	292	322	353	383	413	444	---	---
IGCC - 534 MW	173	203	233	263	293	323	353	383	413	---	---
Fuel Cell - 0.2 MW	1263	1316	1369	1422	1475	1528	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	182	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	179	260	342	424	506	587	669	---	---	---
Supercritical Pulverized Coal - 500 MW	153	173	194	214	234	254	274	294	314	334	354
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	183	203	223	243	263	283	303	323	343	363
Supercritical Pulverized Coal - 750 MW	137	157	177	197	216	236	256	275	295	315	334
Subcritical Pulverized Coal - 250 MW	189	210	231	252	273	294	315	336	357	378	399
Subcritical Pulverized Coal - 500 MW	149	170	190	210	231	251	272	292	312	333	353
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	179	199	220	240	260	281	301	321	342	362
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	166	186	205	225	245	264	284	304	324	343
Circulating Fluidized Bed - 250 MW	197	218	240	261	283	304	326	347	369	390	412
Circulating Fluidized Bed - 500 MW	150	171	192	213	234	255	276	297	318	339	360
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	133	149	166	182	198	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	215	231	247	263	280

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	143	193	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	214	280	346	413	479	545	611	677	744	810
Simple Cycle GE 7EA CT - 73 MW	102	184	267	349	432	514	597	679	762	844	927
Simple Cycle GE 7FA CT - 148 MW	77	159	241	323	404	486	568	650	732	814	896
Combined Cycle GE 7EA CT - 119 MW	136	187	239	290	342	393	445	496	548	599	651
Combined Cycle GE 7FA CT - 235 MW	108	155	202	249	296	343	389	436	483	530	577
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	137	183	230	277	323	370	417	464	510	557
W 501F CC CT - 258 MW	102	150	199	247	296	344	393	441	490	538	587
Spark Ignition Engine - 5 MW	127	213	298	384	469	555	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	166	240	314	388	462	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	222	267	313	359	404	450	495	541	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	122	165	208	250	293	335	378	---	---	---
Kalina Cycle CC CT - 275 MW	98	142	186	229	273	317	360	404	---	---	---
Cheng Cycle CT - 140 MW	119	174	228	283	338	392	447	502	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	233	290	346	403	459	516	573	---	---	---
IGCC - 267 MW	201	234	266	299	332	364	397	430	463	---	---
IGCC - 534 MW	173	206	238	270	302	335	367	399	431	---	---
Fuel Cell - 0.2 MW	1263	1321	1379	1437	1495	1553	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	190	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	186	275	364	452	541	630	719	---	---	---
Supercritical Pulverized Coal - 500 MW	153	177	200	223	247	270	293	316	340	363	386
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	184	204	225	246	266	287	307	328	349	369
Supercritical Pulverized Coal - 750 MW	137	160	183	206	229	252	275	298	321	344	366
Subcritical Pulverized Coal - 250 MW	189	213	237	262	286	311	335	359	384	408	433
Subcritical Pulverized Coal - 500 MW	149	173	197	220	244	268	291	315	339	362	386
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	180	200	221	242	263	284	304	325	346	367
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	167	187	207	227	248	268	288	309	329	349
Circulating Fluidized Bed - 250 MW	197	222	247	272	297	321	346	371	396	421	446
Circulating Fluidized Bed - 500 MW	150	174	198	222	247	271	295	320	344	368	393
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	134	150	167	184	201	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	218	234	251	268	285

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	146	198	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	220	292	365	437	509	582	654	726	798	871
Simple Cycle GE 7EA CT - 73 MW	102	192	281	371	461	551	641	730	820	910	1000
Simple Cycle GE 7FA CT - 148 MW	77	165	254	342	430	519	607	696	784	872	961
Combined Cycle GE 7EA CT - 119 MW	136	192	248	304	360	416	473	529	585	641	697
Combined Cycle GE 7FA CT - 235 MW	108	159	210	261	312	364	415	466	517	568	619
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	141	192	242	293	344	395	446	496	547	598
W 501F CC CT - 258 MW	102	155	207	260	313	366	419	471	524	577	630
Spark Ignition Engine - 5 MW	127	218	310	401	493	584	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	171	249	328	406	485	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	224	273	321	370	418	466	515	563	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	126	173	219	266	312	358	405	---	---	---
Kalina Cycle CC CT - 275 MW	98	146	194	241	289	337	384	432	---	---	---
Cheng Cycle CT - 140 MW	119	179	238	298	358	417	477	537	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	238	300	361	423	484	546	608	---	---	---
IGCC - 267 MW	201	236	271	306	342	377	412	447	482	---	---
IGCC - 534 MW	173	208	243	278	312	347	382	416	451	---	---
Fuel Cell - 0.2 MW	1263	1325	1388	1451	1514	1577	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	197	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	193	289	385	481	577	673	769	---	---	---
Supercritical Pulverized Coal - 500 MW	153	178	204	229	254	279	304	329	354	379	404
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	187	210	234	257	281	304	328	351	375	398
Supercritical Pulverized Coal - 750 MW	137	162	187	211	236	260	285	310	334	359	383
Subcritical Pulverized Coal - 250 MW	189	215	241	267	293	320	346	372	398	424	451
Subcritical Pulverized Coal - 500 MW	149	175	200	226	251	277	302	328	353	379	404
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	183	206	230	254	278	302	325	349	373	397
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	169	193	216	239	262	285	309	332	355	378
Circulating Fluidized Bed - 250 MW	197	224	250	277	304	330	357	384	411	437	464
Circulating Fluidized Bed - 500 MW	150	176	202	228	254	280	306	332	358	384	411
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	136	156	176	195	215	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	234	254	274	293	313

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	142	191	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	211	274	337	400	463	526	589	652	715	778
Simple Cycle GE 7EA CT - 73 MW	102	180	259	338	417	495	574	653	731	810	889
Simple Cycle GE 7FA CT - 148 MW	77	155	234	312	391	469	548	626	705	783	862
Combined Cycle GE 7EA CT - 119 MW	136	185	234	283	332	381	431	480	529	578	627
Combined Cycle GE 7FA CT - 235 MW	108	153	198	242	287	332	377	422	466	511	556
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	134	179	223	268	312	357	401	446	490	535
W 501F CC CT - 258 MW	102	148	194	240	287	333	379	425	471	518	564
Spark Ignition Engine - 5 MW	127	210	292	375	457	540	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	164	235	307	378	450	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	220	265	309	354	398	442	487	531	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	120	161	202	242	283	323	364	---	---	---
Kalina Cycle CC CT - 275 MW	98	140	182	223	265	307	348	390	---	---	---
Cheng Cycle CT - 140 MW	119	171	223	275	327	379	431	483	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	230	284	338	392	446	500	554	---	---	---
IGCC - 267 MW	201	232	264	295	327	359	390	422	453	---	---
IGCC - 534 MW	173	205	236	267	298	329	360	391	422	---	---
Fuel Cell - 0.2 MW	1263	1318	1373	1429	1484	1540	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	186	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	182	267	352	438	523	608	693	---	---	---
Supercritical Pulverized Coal - 500 MW	153	174	196	217	238	259	280	301	322	343	364
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	184	205	226	247	268	289	310	330	351	372
Supercritical Pulverized Coal - 750 MW	137	158	179	200	220	241	262	282	303	324	344
Subcritical Pulverized Coal - 250 MW	189	211	233	255	277	299	321	343	365	387	409
Subcritical Pulverized Coal - 500 MW	149	170	192	213	234	256	277	298	320	341	362
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	180	201	222	244	265	286	307	328	350	371
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	167	187	208	229	249	270	290	311	332	352
Circulating Fluidized Bed - 250 MW	197	219	242	264	287	309	332	354	377	399	422
Circulating Fluidized Bed - 500 MW	150	172	194	216	238	260	282	304	326	348	370
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	134	151	168	185	202	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	219	236	253	270	287

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	145	197	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	217	287	356	426	495	565	634	704	773	843
Simple Cycle GE 7EA CT - 73 MW	102	188	275	361	447	534	620	707	793	879	966
Simple Cycle GE 7FA CT - 148 MW	77	162	248	333	418	504	589	675	760	845	931
Combined Cycle GE 7EA CT - 119 MW	136	190	244	298	352	406	460	514	568	622	676
Combined Cycle GE 7FA CT - 235 MW	108	157	206	256	305	354	403	452	502	551	600
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	139	188	237	286	334	383	432	481	530	579
W 501F CC CT - 258 MW	102	153	203	254	305	356	407	457	508	559	610
Spark Ignition Engine - 5 MW	127	216	304	393	481	570	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	169	245	322	398	475	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	223	270	317	365	412	459	506	553	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	124	169	214	258	303	347	392	---	---	---
Kalina Cycle CC CT - 275 MW	98	144	190	236	282	327	373	419	---	---	---
Cheng Cycle CT - 140 MW	119	176	234	291	349	406	463	521	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	236	295	354	414	473	532	592	---	---	---
IGCC - 267 MW	201	235	269	303	337	371	406	440	474	---	---
IGCC - 534 MW	173	207	241	274	308	342	375	409	443	---	---
Fuel Cell - 0.2 MW	1263	1323	1384	1444	1505	1566	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	194	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	190	282	375	468	561	653	746	---	---	---
Supercritical Pulverized Coal - 500 MW	153	178	202	227	251	276	300	325	349	374	398
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	185	206	228	249	271	292	314	335	357	378
Supercritical Pulverized Coal - 750 MW	137	162	186	210	234	258	282	306	330	354	378
Subcritical Pulverized Coal - 250 MW	189	214	240	265	291	316	342	367	393	418	444
Subcritical Pulverized Coal - 500 MW	149	174	199	224	248	273	298	323	348	372	397
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	181	202	224	246	268	290	311	333	355	377
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	167	188	210	231	252	273	294	315	336	357
Circulating Fluidized Bed - 250 MW	197	223	249	275	301	327	353	379	405	431	457
Circulating Fluidized Bed - 500 MW	150	175	201	226	252	277	303	328	354	379	405
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	134	152	170	187	205	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	222	240	258	275	293

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	147	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	224	300	375	451	527	603	679	755	831	907
Simple Cycle GE 7EA CT - 73 MW	102	196	290	384	479	573	667	761	855	950	1044
Simple Cycle GE 7FA CT - 148 MW	77	169	261	354	446	538	631	723	815	908	1000
Combined Cycle GE 7EA CT - 119 MW	136	195	254	312	371	430	489	548	606	665	724
Combined Cycle GE 7FA CT - 235 MW	108	162	215	269	322	376	429	483	536	590	643
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	143	196	250	303	356	409	462	516	569	622
W 501F CC CT - 258 MW	102	157	213	268	323	379	434	490	545	600	656
Spark Ignition Engine - 5 MW	127	222	317	411	506	601	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	173	255	336	418	499	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	226	276	326	376	426	476	526	576	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	129	177	226	275	323	372	421	---	---	---
Kalina Cycle CC CT - 275 MW	98	148	198	248	298	348	398	448	---	---	---
Cheng Cycle CT - 140 MW	119	182	244	307	370	432	495	558	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	241	306	370	435	499	564	629	---	---	---
IGCC - 267 MW	201	238	274	311	348	384	421	458	495	---	---
IGCC - 534 MW	173	210	246	282	318	355	391	427	463	---	---
Fuel Cell - 0.2 MW	1263	1328	1394	1460	1526	1592	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	202	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	197	297	397	498	598	698	798	---	---	---
Supercritical Pulverized Coal - 500 MW	153	180	206	233	259	285	312	338	365	391	417
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	188	212	237	262	286	311	335	360	385	409
Supercritical Pulverized Coal - 750 MW	137	163	189	215	241	267	293	319	345	371	396
Subcritical Pulverized Coal - 250 MW	189	216	243	271	298	326	353	380	408	435	463
Subcritical Pulverized Coal - 500 MW	149	176	203	229	256	283	309	336	363	389	416
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	184	209	234	259	284	309	334	359	384	409
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	170	195	219	243	267	291	316	340	364	388
Circulating Fluidized Bed - 250 MW	197	225	253	281	309	337	365	393	421	449	477
Circulating Fluidized Bed - 500 MW	150	177	204	232	259	287	314	341	369	396	424
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	137	158	178	199	219	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	240	260	281	301	322

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Capital Cost-Low
Heat Rate- High
Fuel Forecast-Low

2004 Dollars (\$/kW yr)

Technology	Capacity Factors										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	143	193	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	214	280	346	412	478	544	610	676	742	808
Simple Cycle GE 7EA CT - 73 MW	102	184	266	348	431	513	595	677	759	842	924
Simple Cycle GE 7FA CT - 148 MW	77	159	240	322	404	485	567	649	730	812	894
Combined Cycle GE 7EA CT - 119 MW	136	187	239	290	342	393	444	496	547	599	650
Combined Cycle GE 7FA CT - 235 MW	108	155	202	248	295	342	389	436	482	529	576
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	136	183	229	276	322	369	415	462	508	555
W 501F CC CT - 258 MW	102	150	198	247	295	343	392	440	488	537	585
Spark Ignition Engine - 5 MW	127	212	298	383	469	554	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	166	240	314	388	462	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	222	268	313	359	405	451	496	542	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion -.085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	122	165	207	250	292	334	377	---	---	---
Kalina Cycle CC CT - 275 MW	98	142	185	229	272	316	360	403	---	---	---
Cheng Cycle CT - 140 MW	119	173	228	282	337	391	445	500	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	233	289	345	402	458	514	571	---	---	---
IGCC - 267 MW	201	234	267	299	332	365	398	431	463	---	---
IGCC - 534 MW	173	206	238	271	303	335	368	400	432	---	---
Fuel Cell - 0.2 MW	1263	1320	1378	1436	1494	1552	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	190	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	186	274	363	452	541	629	718	---	---	---
Supercritical Pulverized Coal - 500 MW	153	175	197	219	241	263	285	307	329	351	373
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	185	207	228	250	272	293	315	337	359	380
Supercritical Pulverized Coal - 750 MW	137	159	181	202	224	245	267	289	310	332	353
Subcritical Pulverized Coal - 250 MW	189	211	234	257	280	303	326	349	372	395	418
Subcritical Pulverized Coal - 500 MW	149	172	194	216	239	261	284	306	328	351	373
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	181	203	225	247	269	291	313	335	357	379
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	168	189	210	232	253	275	296	317	339	360
Circulating Fluidized Bed - 250 MW	197	220	244	267	291	314	338	361	385	408	432
Circulating Fluidized Bed - 500 MW	150	173	196	219	242	265	288	311	334	357	380
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	135	152	170	188	206	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	224	241	259	277	295

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	146	199	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	221	293	366	439	512	585	657	730	803	876
Simple Cycle GE 7EA CT - 73 MW	102	192	283	373	463	554	644	735	825	915	1006
Simple Cycle GE 7FA CT - 148 MW	77	166	255	344	433	522	611	700	789	878	967
Combined Cycle GE 7EA CT - 119 MW	136	192	249	305	362	418	474	531	587	644	700
Combined Cycle GE 7FA CT - 235 MW	108	159	211	262	314	365	416	468	519	571	622
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	141	192	243	294	345	397	448	499	550	601
W 501F CC CT - 258 MW	102	155	208	261	314	367	420	474	527	580	633
Spark Ignition Engine - 5 MW	127	219	311	402	494	586	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	171	250	329	408	487	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	225	274	322	371	420	469	517	566	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	127	173	220	267	313	360	407	---	---	---
Kalina Cycle CC CT - 275 MW	98	146	194	242	290	338	386	434	---	---	---
Cheng Cycle CT - 140 MW	119	179	239	299	359	419	479	539	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	238	300	362	424	486	548	610	---	---	---
IGCC - 267 MW	201	236	272	307	343	379	414	450	485	---	---
IGCC - 534 MW	173	209	244	279	314	349	384	419	454	---	---
Fuel Cell - 0.2 MW	1263	1326	1389	1452	1515	1579	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	198	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	194	290	387	483	580	676	773	---	---	---
Supercritical Pulverized Coal - 500 MW	153	179	205	230	256	281	307	333	358	384	409
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	186	208	230	253	275	298	320	342	365	387
Supercritical Pulverized Coal - 750 MW	137	163	188	213	238	263	288	313	338	363	388
Subcritical Pulverized Coal - 250 MW	189	215	242	268	295	322	348	375	401	428	455
Subcritical Pulverized Coal - 500 MW	149	175	201	227	253	279	305	331	357	383	409
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	182	204	227	250	272	295	318	340	363	386
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	168	190	212	234	256	278	300	322	344	366
Circulating Fluidized Bed - 250 MW	197	224	252	279	306	333	361	388	415	443	470
Circulating Fluidized Bed - 500 MW	150	176	203	230	256	283	310	336	363	390	417
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	135	154	172	190	209	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	227	246	264	282	301

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	176	207	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	145	258	370	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	93	149	205	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	148	227	307	386	466	545	625	704	784	863	943
Simple Cycle GE 7EA CT - 73 MW	102	200	299	397	496	594	693	791	890	988	1087
Simple Cycle GE 7FA CT - 148 MW	77	173	269	365	462	558	654	750	846	943	1039
Combined Cycle GE 7EA CT - 119 MW	136	197	259	320	382	443	505	566	628	689	751
Combined Cycle GE 7FA CT - 235 MW	108	164	220	276	332	388	444	500	556	612	668
Combined Cycle 2x1 GE 7FA CT - 484 MW	90	146	201	257	313	368	424	480	536	591	647
W 501F CC CT - 258 MW	102	160	218	276	333	391	449	507	565	623	681
Spark Ignition Engine - 5 MW	127	225	323	422	520	618	---	---	---	---	---
Compression Ignition Engine - 10 MW	92	176	260	345	429	513	---	---	---	---	---
Wind Energy Conversion - 50 MW	160	160	160	160	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	395	424	454	483	513	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	307	323	339	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Thermal, Solar Chimney - 200 MW	351	367	383	399	416	432	448	464	---	---	---
Solar Photovoltaic - 50 kW	771	795	820	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	272	280	289	297	306	315	323	332	341	---	---
Geothermal - 30 MW	592	592	592	592	592	592	592	592	592	---	---
Hydroelectric - New - 30 MW	364	369	374	378	383	387	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	895	975	1056	1137	1217	1298	1378	1459	---	---	---
RDF Stoker-Fired - 7 MW	1315	1401	1487	1573	1659	1745	1831	1917	---	---	---
Landfill Gas IC Engine - 5 MW	176	228	280	331	383	435	487	538	590	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	290	295	300	305	310	315	320	325	330	335	341
Sewage Sludge & Anaerobic Digestion - .085 MW	268	284	300	316	333	349	365	381	397	---	---
Humid Air Turbine Cycle CT - 450 MW	80	131	182	233	284	335	386	437	---	---	---
Kalina Cycle CC CT - 275 MW	98	151	203	255	308	360	413	465	---	---	---
Cheng Cycle CT - 140 MW	119	184	250	316	381	447	512	578	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	177	244	311	379	446	514	581	649	---	---	---
IGCC - 267 MW	201	239	277	316	354	392	430	469	507	---	---
IGCC - 534 MW	173	211	249	287	325	362	400	438	476	---	---
Fuel Cell - 0.2 MW	1263	1331	1400	1468	1537	1606	---	---	---	---	---
Peaking Microturbine - 0.03 MW	97	206	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	97	201	306	410	515	619	724	828	---	---	---
Supercritical Pulverized Coal - 500 MW	153	181	209	236	264	291	319	347	374	402	429
Supercritical Pulverized Coal, High Sulfur - 500 MW	163	189	214	240	266	291	317	342	368	394	419
Supercritical Pulverized Coal - 750 MW	137	164	191	218	245	272	299	326	353	380	407
Subcritical Pulverized Coal - 250 MW	189	217	246	275	303	332	361	389	418	447	476
Subcritical Pulverized Coal - 500 MW	149	177	205	233	261	289	317	345	373	401	429
Subcritical Pulverized Coal, High Sulfur - 500 MW	159	185	211	237	263	289	315	341	367	393	419
Supercritical Pulverized Coal, High Sulfur - 750 MW	146	171	197	222	247	272	297	323	348	373	398
Circulating Fluidized Bed - 250 MW	197	226	256	285	314	343	373	402	431	461	490
Circulating Fluidized Bed - 500 MW	150	178	207	235	264	293	321	350	378	407	436
Ohio Falls 9 and 10	130	130	130	130	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	117	138	160	181	203	224	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	246	267	289	310	332

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Capital Cost- Base
Heat Rate-Low
Fuel Forecast-Low

2004 Dollars (\$/kW yr)

Technology	Capacity Factors										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	149	197	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	217	277	337	397	457	517	577	638	698	758
Simple Cycle GE 7EA CT - 73 MW	108	183	258	333	408	483	558	633	709	784	859
Simple Cycle GE 7FA CT - 148 MW	81	156	231	307	382	457	533	608	683	759	834
Combined Cycle GE 7EA CT - 119 MW	145	192	239	286	333	379	426	473	520	567	614
Combined Cycle GE 7FA CT - 235 MW	116	159	201	244	287	330	372	415	458	500	543
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	138	181	223	266	308	351	393	436	478	521
W 501F CC CT - 258 MW	109	153	197	241	285	329	373	418	462	506	550
Spark Ignition Engine - 5 MW	141	221	301	380	460	540	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	172	242	311	381	450	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	262	305	348	391	433	476	519	562	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	130	168	207	246	284	323	362	---	---	---
Kalina Cycle CC CT - 275 MW	114	154	194	233	273	313	352	392	---	---	---
Cheng Cycle CT - 140 MW	140	189	239	289	338	388	437	487	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	264	315	367	418	470	521	573	---	---	---
IGCC - 267 MW	237	267	298	328	358	389	419	449	480	---	---
IGCC - 534 MW	207	237	267	297	327	357	387	417	447	---	---
Fuel Cell - 0.2 MW	1394	1447	1500	1553	1606	1659	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	207	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	204	285	367	449	531	612	694	---	---	---
Supercritical Pulverized Coal - 500 MW	167	187	208	228	248	268	288	308	328	348	368
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	197	217	237	257	277	297	317	337	357	377
Supercritical Pulverized Coal - 750 MW	150	170	190	210	229	249	269	288	308	328	347
Subcritical Pulverized Coal - 250 MW	206	227	248	269	290	311	332	353	374	395	416
Subcritical Pulverized Coal - 500 MW	163	184	204	224	245	265	286	306	326	347	367
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	193	213	234	254	274	295	315	335	356	376
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	179	199	218	238	258	277	297	317	337	356
Circulating Fluidized Bed - 250 MW	215	236	258	279	301	322	344	365	387	408	430
Circulating Fluidized Bed - 500 MW	164	185	206	227	248	269	290	311	332	353	374
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	145	161	178	194	210	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	227	243	259	275	292

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	151	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	223	289	355	422	488	554	620	686	753	819
Simple Cycle GE 7EA CT - 73 MW	108	190	273	355	438	520	603	685	768	850	933
Simple Cycle GE 7FA CT - 148 MW	81	163	245	327	408	490	572	654	736	818	900
Combined Cycle GE 7EA CT - 119 MW	145	196	248	299	351	402	454	505	557	608	660
Combined Cycle GE 7FA CT - 235 MW	116	163	210	257	304	351	397	444	491	538	585
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	143	189	236	283	329	376	423	470	516	563
W 501F CC CT - 258 MW	109	157	206	254	303	351	400	448	497	545	594
Spark Ignition Engine - 5 MW	141	227	312	398	483	569	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	177	251	325	399	473	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	265	310	356	402	447	493	538	584	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	133	176	219	261	304	346	389	---	---	---
Kalina Cycle CC CT - 275 MW	114	158	202	245	289	333	376	420	---	---	---
Cheng Cycle CT - 140 MW	140	195	249	304	359	413	468	523	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	269	326	382	439	495	552	609	---	---	---
IGCC - 267 MW	237	270	302	335	368	400	433	466	499	---	---
IGCC - 534 MW	207	240	272	304	336	369	401	433	465	---	---
Fuel Cell - 0.2 MW	1394	1452	1510	1568	1626	1684	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	215	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	211	300	389	477	566	655	744	---	---	---
Supercritical Pulverized Coal - 500 MW	167	191	214	237	261	284	307	330	354	377	400
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	198	218	239	260	280	301	321	342	363	383
Supercritical Pulverized Coal - 750 MW	150	173	196	219	242	265	288	311	334	357	379
Subcritical Pulverized Coal - 250 MW	206	230	254	279	303	328	352	376	401	425	450
Subcritical Pulverized Coal - 500 MW	163	187	211	234	258	282	305	329	353	376	400
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	194	214	235	256	277	298	318	339	360	381
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	180	200	220	240	261	281	301	322	342	362
Circulating Fluidized Bed - 250 MW	215	240	265	290	315	339	364	389	414	439	464
Circulating Fluidized Bed - 500 MW	164	188	212	236	261	285	309	334	358	382	407
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	146	162	179	196	213	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	230	246	263	280	297

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	154	206	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	229	301	374	446	518	591	663	735	807	880
Simple Cycle GE 7EA CT - 73 MW	108	198	287	377	467	557	647	736	826	916	1006
Simple Cycle GE 7FA CT - 148 MW	81	169	258	346	434	523	611	700	788	876	965
Combined Cycle GE 7EA CT - 119 MW	145	201	257	313	369	425	482	538	594	650	706
Combined Cycle GE 7FA CT - 235 MW	116	167	218	269	320	372	423	474	525	576	627
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	147	198	248	299	350	401	452	502	553	604
W 501F CC CT - 258 MW	109	162	214	267	320	373	426	478	531	584	637
Spark Ignition Engine - 5 MW	141	232	324	415	507	598	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	182	260	339	417	496	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	267	316	364	413	461	509	558	606	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	137	184	230	277	323	369	416	---	---	---
Kalina Cycle CC CT - 275 MW	114	162	210	257	305	353	400	448	---	---	---
Cheng Cycle CT - 140 MW	140	200	259	319	379	438	498	558	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	274	336	397	459	520	582	644	---	---	---
IGCC - 267 MW	237	272	307	342	378	413	448	483	518	---	---
IGCC - 534 MW	207	242	277	312	346	381	416	450	485	---	---
Fuel Cell - 0.2 MW	1394	1456	1519	1582	1645	1708	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	222	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	218	314	410	506	602	698	794	---	---	---
Supercritical Pulverized Coal - 500 MW	167	192	218	243	268	293	318	343	368	393	418
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	201	224	248	271	295	318	342	365	389	412
Supercritical Pulverized Coal - 750 MW	150	175	200	224	249	273	298	323	347	372	396
Subcritical Pulverized Coal - 250 MW	206	232	258	284	310	337	363	389	415	441	468
Subcritical Pulverized Coal - 500 MW	163	189	214	240	265	291	316	342	367	393	418
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	197	220	244	268	292	316	339	363	387	411
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	182	206	229	252	275	298	322	345	368	391
Circulating Fluidized Bed - 250 MW	215	242	268	295	322	348	375	402	429	455	482
Circulating Fluidized Bed - 500 MW	164	190	216	242	268	294	320	346	372	398	425
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	148	168	188	207	227	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	246	266	286	305	325

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	150	199	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	220	283	346	409	472	535	598	661	724	787
Simple Cycle GE 7EA CT - 73 MW	108	186	265	344	423	501	580	659	737	816	895
Simple Cycle GE 7FA CT - 148 MW	81	159	238	316	395	473	552	630	709	787	866
Combined Cycle GE 7EA CT - 119 MW	145	194	243	292	341	390	440	489	538	587	636
Combined Cycle GE 7FA CT - 235 MW	116	161	206	250	295	340	385	430	474	519	564
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	140	185	229	274	318	363	407	452	496	541
W 501F CC CT - 258 MW	109	155	201	247	294	340	386	432	478	525	571
Spark Ignition Engine - 5 MW	141	224	306	389	471	554	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	175	246	318	389	461	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	263	308	352	397	441	485	530	574	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	131	172	213	253	294	334	375	---	---	---
Kalina Cycle CC CT - 275 MW	114	156	198	239	281	323	364	406	---	---	---
Cheng Cycle CT - 140 MW	140	192	244	296	348	400	452	504	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	266	320	374	428	482	536	590	---	---	---
IGCC - 267 MW	237	268	300	331	363	395	426	458	489	---	---
IGCC - 534 MW	207	239	270	301	332	363	394	425	456	---	---
Fuel Cell - 0.2 MW	1394	1449	1504	1560	1615	1671	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	211	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	207	292	377	463	548	633	718	---	---	---
Supercritical Pulverized Coal - 500 MW	167	188	210	231	252	273	294	315	336	357	378
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	198	219	240	261	282	303	324	344	365	386
Supercritical Pulverized Coal - 750 MW	150	171	192	213	233	254	275	295	316	337	357
Subcritical Pulverized Coal - 250 MW	206	228	250	272	294	316	338	360	382	404	426
Subcritical Pulverized Coal - 500 MW	163	184	206	227	248	270	291	312	334	355	376
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	194	215	236	258	279	300	321	342	364	385
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	180	200	221	242	262	283	303	324	345	365
Circulating Fluidized Bed - 250 MW	215	237	260	282	305	327	350	372	395	417	440
Circulating Fluidized Bed - 500 MW	164	186	208	230	252	274	296	318	340	362	384
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	146	163	180	197	214	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	231	248	265	282	299

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	Capacity Factors										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	155	209	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	233	309	384	460	536	612	688	764	840	916
Simple Cycle GE 7EA CT - 73 MW	108	202	296	390	485	579	673	767	861	956	1050
Simple Cycle GE 7FA CT - 148 MW	81	173	265	358	450	542	635	727	819	912	1004
Combined Cycle GE 7EA CT - 119 MW	145	204	263	321	380	439	498	557	615	674	733
Combined Cycle GE 7FA CT - 235 MW	116	170	223	277	330	384	437	491	544	598	651
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	149	202	256	309	362	415	468	522	575	628
W 501F CC CT - 258 MW	109	164	220	275	330	386	441	497	552	607	663
Spark Ignition Engine - 5 MW	141	236	331	425	520	615	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	184	266	347	429	510	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	269	319	369	419	469	519	569	619	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	140	188	237	286	334	383	432	---	---	---
Kalina Cycle CC CT - 275 MW	114	164	214	264	314	364	414	464	---	---	---
Cheng Cycle CT - 140 MW	140	203	265	328	391	453	516	579	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	277	342	406	471	535	600	665	---	---	---
IGCC - 267 MW	237	274	310	347	384	420	457	494	531	---	---
IGCC - 534 MW	207	244	280	316	352	389	425	461	497	---	---
Fuel Cell - 0.2 MW	1394	1459	1525	1591	1657	1723	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	227	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	222	322	422	523	623	723	823	---	---	---
Supercritical Pulverized Coal - 500 MW	167	194	220	247	273	299	326	352	379	405	431
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	202	226	251	276	300	325	349	374	399	423
Supercritical Pulverized Coal - 750 MW	150	176	202	228	254	280	306	332	358	384	409
Subcritical Pulverized Coal - 250 MW	206	233	260	288	315	343	370	397	425	452	480
Subcritical Pulverized Coal - 500 MW	163	190	217	243	270	297	323	350	377	403	430
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	198	223	248	273	298	323	348	373	398	423
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	183	208	232	256	280	304	329	353	377	401
Circulating Fluidized Bed - 250 MW	215	243	271	299	327	355	383	411	439	467	495
Circulating Fluidized Bed - 500 MW	164	191	218	246	273	301	328	355	383	410	438
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	149	170	190	211	231	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	252	272	293	313	334

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	151	201	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	223	289	355	421	487	553	619	685	751	817
Simple Cycle GE 7EA CT - 73 MW	108	190	272	354	437	519	601	683	765	848	930
Simple Cycle GE 7FA CT - 148 MW	81	163	244	326	408	489	571	653	734	816	898
Combined Cycle GE 7EA CT - 119 MW	145	196	248	299	351	402	453	505	556	608	659
Combined Cycle GE 7FA CT - 235 MW	116	163	210	256	303	350	397	444	490	537	584
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	142	189	235	282	328	375	421	468	514	561
W 501F CC CT - 258 MW	109	157	205	254	302	350	399	447	495	544	592
Spark Ignition Engine - 5 MW	141	226	312	397	483	568	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	177	251	325	399	473	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	265	311	356	402	448	494	539	585	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	133	176	218	261	303	345	388	---	---	---
Kalina Cycle CC CT - 275 MW	114	158	201	245	288	332	376	419	---	---	---
Cheng Cycle CT - 140 MW	140	194	249	303	358	412	466	521	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	269	325	381	438	494	550	607	---	---	---
IGCC - 267 MW	237	270	303	335	368	401	434	467	499	---	---
IGCC - 534 MW	207	240	272	305	337	369	402	434	466	---	---
Fuel Cell - 0.2 MW	1394	1451	1509	1567	1625	1683	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	215	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	211	299	388	477	566	654	743	---	---	---
Supercritical Pulverized Coal - 500 MW	167	189	211	233	255	277	299	321	343	365	387
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	199	221	242	264	286	307	329	351	373	394
Supercritical Pulverized Coal - 750 MW	150	172	194	215	237	258	280	302	323	345	366
Subcritical Pulverized Coal - 250 MW	206	228	251	274	297	320	343	366	389	412	435
Subcritical Pulverized Coal - 500 MW	163	186	208	230	253	275	298	320	342	365	387
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	195	217	239	261	283	305	327	349	371	393
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	181	202	223	245	266	288	309	330	352	373
Circulating Fluidized Bed - 250 MW	215	238	262	285	309	332	356	379	403	426	450
Circulating Fluidized Bed - 500 MW	164	187	210	233	256	279	302	325	348	371	394
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	147	164	182	200	218	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	236	253	271	289	307

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	154	207	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	230	302	375	448	521	594	666	739	812	885
Simple Cycle GE 7EA CT - 73 MW	108	198	289	379	469	560	650	741	831	921	1012
Simple Cycle GE 7FA CT - 148 MW	81	170	259	348	437	526	615	704	793	882	971
Combined Cycle GE 7EA CT - 119 MW	145	201	258	314	371	427	483	540	596	653	709
Combined Cycle GE 7FA CT - 235 MW	116	167	219	270	322	373	424	476	527	579	630
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	147	198	249	300	351	403	454	505	556	607
W 501F CC CT - 258 MW	109	162	215	268	321	374	427	481	534	587	640
Spark Ignition Engine - 5 MW	141	233	325	416	508	600	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	182	261	340	419	498	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	268	317	365	414	463	512	560	609	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	138	184	231	278	324	371	418	---	---	---
Kalina Cycle CC CT - 275 MW	114	162	210	258	306	354	402	450	---	---	---
Cheng Cycle CT - 140 MW	140	200	260	320	380	440	500	560	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	274	336	398	460	522	584	646	---	---	---
IGCC - 267 MW	237	272	308	343	379	415	450	486	521	---	---
IGCC - 534 MW	207	243	278	313	348	383	418	453	488	---	---
Fuel Cell - 0.2 MW	1394	1457	1520	1583	1646	1710	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	223	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	219	315	412	508	605	701	798	---	---	---
Supercritical Pulverized Coal - 500 MW	167	193	219	244	270	295	321	347	372	398	423
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	200	222	244	267	289	312	334	356	379	401
Supercritical Pulverized Coal - 750 MW	150	176	201	226	251	276	301	326	351	376	401
Subcritical Pulverized Coal - 250 MW	206	232	259	285	312	339	365	392	418	445	472
Subcritical Pulverized Coal - 500 MW	163	189	215	241	267	293	319	345	371	397	423
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	196	218	241	264	286	309	332	354	377	400
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	181	203	225	247	269	291	313	335	357	379
Circulating Fluidized Bed - 250 MW	215	242	270	297	324	351	379	406	433	461	488
Circulating Fluidized Bed - 500 MW	164	190	217	244	270	297	324	350	377	404	431
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	147	166	184	202	221	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	239	258	276	294	313

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	195	226	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	159	272	384	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	101	157	213	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	157	236	316	395	475	554	634	713	793	872	952
Simple Cycle GE 7EA CT - 73 MW	108	206	305	403	502	600	699	797	896	994	1093
Simple Cycle GE 7FA CT - 148 MW	81	177	273	369	466	562	658	754	850	947	1043
Combined Cycle GE 7EA CT - 119 MW	145	206	268	329	391	452	514	575	637	698	760
Combined Cycle GE 7FA CT - 235 MW	116	172	228	284	340	396	452	508	564	620	676
Combined Cycle 2x1 GE 7FA CT - 484 MW	96	152	207	263	319	374	430	486	542	597	653
W 501F CC CT - 258 MW	109	167	225	283	340	398	456	514	572	630	688
Spark Ignition Engine - 5 MW	141	239	337	436	534	632	---	---	---	---	---
Compression Ignition Engine - 10 MW	103	187	271	356	440	524	---	---	---	---	---
Wind Energy Conversion - 50 MW	191	191	191	191	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	494	523	553	582	612	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	384	400	416	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	658	674	690	706	723	739	755	771	---	---	---
Solar Thermal, Solar Chimney - 200 MW	439	455	471	487	504	520	536	552	---	---	---
Solar Photovoltaic - 50 kW	958	982	1007	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	321	329	338	346	355	364	372	381	390	---	---
Geothermal - 30 MW	664	664	664	664	664	664	664	664	664	---	---
Hydroelectric - New - 30 MW	402	407	412	416	421	425	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1026	1106	1187	1268	1348	1429	1509	1590	---	---	---
RDF Stoker-Fired - 7 MW	1491	1577	1663	1749	1835	1921	2007	2093	---	---	---
Landfill Gas IC Engine - 5 MW	219	271	323	374	426	478	530	581	633	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	345	350	355	360	365	370	375	380	385	390	396
Sewage Sludge & Anaerobic Digestion - .085 MW	335	351	367	383	400	416	432	448	464	---	---
Humid Air Turbine Cycle CT - 450 MW	91	142	193	244	295	346	397	448	---	---	---
Kalina Cycle CC CT - 275 MW	114	167	219	271	324	376	429	481	---	---	---
Cheng Cycle CT - 140 MW	140	205	271	337	402	468	533	599	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	213	280	347	415	482	550	617	685	---	---	---
IGCC - 267 MW	237	275	313	352	390	428	466	505	543	---	---
IGCC - 534 MW	207	245	283	321	359	396	434	472	510	---	---
Fuel Cell - 0.2 MW	1394	1462	1531	1599	1668	1737	---	---	---	---	---
Peaking Microturbine - 0.03 MW	122	231	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	122	226	331	435	540	644	749	853	---	---	---
Supercritical Pulverized Coal - 500 MW	167	195	223	250	278	305	333	361	388	416	443
Supercritical Pulverized Coal, High Sulfur - 500 MW	177	203	228	254	280	305	331	356	382	408	433
Supercritical Pulverized Coal - 750 MW	150	177	204	231	258	285	312	339	366	393	420
Subcritical Pulverized Coal - 250 MW	206	234	263	292	320	349	378	406	435	464	493
Subcritical Pulverized Coal - 500 MW	163	191	219	247	275	303	331	359	387	415	443
Subcritical Pulverized Coal, High Sulfur - 500 MW	173	199	225	251	277	303	329	355	381	407	433
Supercritical Pulverized Coal, High Sulfur - 750 MW	159	184	210	235	260	285	310	336	361	386	411
Circulating Fluidized Bed - 250 MW	215	244	274	303	332	361	391	420	449	479	508
Circulating Fluidized Bed - 500 MW	164	192	221	249	278	307	335	364	392	421	450
Ohio Falls 9 and 10	144	144	144	144	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	129	150	172	193	215	236	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	258	279	301	322	344

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	165	213	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	226	286	346	406	466	526	586	647	707	767
Simple Cycle GE 7EA CT - 73 MW	114	189	264	339	414	489	564	639	715	790	865
Simple Cycle GE 7FA CT - 148 MW	86	161	236	312	387	462	538	613	688	764	839
Combined Cycle GE 7EA CT - 119 MW	155	202	249	296	343	389	436	483	530	577	624
Combined Cycle GE 7FA CT - 235 MW	123	166	208	251	294	337	379	422	465	507	550
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	143	186	228	271	313	356	398	441	483	526
W 501F CC CT - 258 MW	116	160	204	248	292	336	380	425	469	513	557
Spark Ignition Engine - 5 MW	155	235	315	394	474	554	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	182	252	321	391	460	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	306	349	392	435	477	520	563	606	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	141	179	218	257	295	334	373	---	---	---
Kalina Cycle CC CT - 275 MW	131	171	211	250	290	330	369	409	---	---	---
Cheng Cycle CT - 140 MW	160	209	259	309	358	408	457	507	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	299	350	402	453	505	556	608	---	---	---
IGCC - 267 MW	273	303	334	364	394	425	455	485	516	---	---
IGCC - 534 MW	240	270	300	330	360	390	420	450	480	---	---
Fuel Cell - 0.2 MW	1526	1579	1632	1685	1738	1791	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	231	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	228	309	391	473	555	636	718	---	---	---
Supercritical Pulverized Coal - 500 MW	181	201	222	242	262	282	302	322	342	362	382
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	212	232	252	272	292	312	332	352	372	392
Supercritical Pulverized Coal - 750 MW	182	182	202	222	241	261	281	300	320	340	359
Subcritical Pulverized Coal - 250 MW	223	244	265	286	307	328	349	370	391	412	433
Subcritical Pulverized Coal - 500 MW	176	197	217	237	258	278	299	319	339	360	380
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	207	227	248	268	288	309	329	349	370	390
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	193	213	232	252	272	291	311	331	351	370
Circulating Fluidized Bed - 250 MW	232	253	275	296	318	339	361	382	404	425	447
Circulating Fluidized Bed - 500 MW	178	199	220	241	262	283	304	325	346	367	388
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	156	172	189	205	221	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	238	254	270	286	303

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	167	217	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	232	298	364	431	497	563	629	695	762	828
Simple Cycle GE 7EA CT - 73 MW	114	196	279	361	444	526	609	691	774	856	939
Simple Cycle GE 7FA CT - 148 MW	86	168	250	332	413	495	577	659	741	823	905
Combined Cycle GE 7EA CT - 119 MW	155	206	258	309	361	412	464	515	567	618	670
Combined Cycle GE 7FA CT - 235 MW	123	170	217	264	311	358	404	451	498	545	592
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	148	194	241	288	334	381	428	475	521	568
W 501F CC CT - 258 MW	116	164	213	261	310	358	407	455	504	552	601
Spark Ignition Engine - 5 MW	155	241	326	412	497	583	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	187	261	335	409	483	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	309	354	400	446	491	537	582	628	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	144	187	230	272	315	357	400	---	---	---
Kalina Cycle CC CT - 275 MW	131	175	219	262	306	350	393	437	---	---	---
Cheng Cycle CT - 140 MW	160	215	269	324	379	433	488	543	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	304	361	417	474	530	587	644	---	---	---
IGCC - 267 MW	273	306	338	371	404	436	469	502	535	---	---
IGCC - 534 MW	240	273	305	337	369	402	434	466	498	---	---
Fuel Cell - 0.2 MW	1526	1584	1642	1700	1758	1816	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	239	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	235	324	413	501	590	679	768	---	---	---
Supercritical Pulverized Coal - 500 MW	181	205	228	251	275	298	321	344	368	391	414
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	213	233	254	275	295	316	336	357	378	398
Supercritical Pulverized Coal - 750 MW	162	185	208	231	254	277	300	323	346	369	391
Subcritical Pulverized Coal - 250 MW	223	247	271	296	320	345	369	393	418	442	467
Subcritical Pulverized Coal - 500 MW	176	200	224	247	271	295	318	342	366	389	413
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	208	228	249	270	291	312	332	353	374	395
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	194	214	234	254	275	295	315	336	356	376
Circulating Fluidized Bed - 250 MW	232	257	282	307	332	356	381	406	431	456	481
Circulating Fluidized Bed - 500 MW	178	202	226	250	275	299	323	348	372	396	421
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	157	173	190	207	224	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	241	257	274	291	308

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	170	222	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	238	310	383	455	527	600	672	744	816	889
Simple Cycle GE 7EA CT - 73 MW	114	204	293	383	473	563	653	742	832	922	1012
Simple Cycle GE 7FA CT - 148 MW	86	174	263	351	439	528	616	705	793	881	970
Combined Cycle GE 7EA CT - 119 MW	155	211	267	323	379	435	492	548	604	660	716
Combined Cycle GE 7FA CT - 235 MW	123	174	225	276	327	379	430	481	532	583	634
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	152	203	253	304	355	406	457	507	558	609
W 501F CC CT - 258 MW	116	169	221	274	327	380	433	485	538	591	644
Spark Ignition Engine - 5 MW	155	246	338	429	521	612	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	192	270	349	427	506	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	311	360	408	457	505	553	602	650	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	148	195	241	288	334	380	427	---	---	---
Kalina Cycle CC CT - 275 MW	131	179	227	274	322	370	417	465	---	---	---
Cheng Cycle CT - 140 MW	160	220	279	339	399	458	518	578	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	309	371	432	494	555	617	679	---	---	---
IGCC - 267 MW	273	308	343	378	414	449	484	519	554	---	---
IGCC - 534 MW	240	275	310	345	379	414	449	483	518	---	---
Fuel Cell - 0.2 MW	1526	1588	1651	1714	1777	1840	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	246	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	242	338	434	530	626	722	818	---	---	---
Supercritical Pulverized Coal - 500 MW	181	206	232	257	282	307	332	357	382	407	432
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	216	239	263	286	310	333	357	380	404	427
Supercritical Pulverized Coal - 750 MW	162	187	212	236	261	285	310	335	359	384	408
Subcritical Pulverized Coal - 250 MW	223	249	275	301	327	354	380	406	432	458	485
Subcritical Pulverized Coal - 500 MW	176	202	227	253	278	304	329	355	380	406	431
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	211	234	258	282	306	330	353	377	401	425
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	196	220	243	266	289	312	336	359	382	405
Circulating Fluidized Bed - 250 MW	232	259	285	312	339	365	392	419	446	472	499
Circulating Fluidized Bed - 500 MW	178	204	230	256	282	308	334	360	386	412	439
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	159	179	199	218	238	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	257	277	297	316	336

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Capital Cost- High
Heat Rate- Base
Fuel Forecast-Low

2004 Dollars (\$/kW yr)

Technology	Capacity Factors										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	166	215	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	229	292	355	418	481	544	607	670	733	796
Simple Cycle GE 7EA CT - 73 MW	114	192	271	350	429	507	586	665	743	822	901
Simple Cycle GE 7FA CT - 148 MW	86	164	243	321	400	478	557	635	714	792	871
Combined Cycle GE 7EA CT - 119 MW	155	204	253	302	351	400	450	499	548	597	646
Combined Cycle GE 7FA CT - 235 MW	123	168	213	257	302	347	392	437	481	526	571
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	145	190	234	279	323	368	412	457	501	546
W 501F CC CT - 258 MW	116	162	208	254	301	347	393	439	485	532	578
Spark Ignition Engine - 5 MW	155	238	320	403	485	568	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	185	256	328	399	471	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	307	352	396	441	485	529	574	618	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	142	183	224	264	305	345	386	---	---	---
Kalina Cycle CC CT - 275 MW	131	173	215	256	298	340	381	423	---	---	---
Cheng Cycle CT - 140 MW	160	212	264	316	368	420	472	524	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	301	355	409	463	517	571	625	---	---	---
IGCC - 267 MW	273	304	336	367	399	431	462	494	525	---	---
IGCC - 534 MW	240	272	303	334	365	396	427	458	489	---	---
Fuel Cell - 0.2 MW	1526	1581	1636	1692	1747	1803	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	235	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	231	316	401	487	572	657	742	---	---	---
Supercritical Pulverized Coal - 500 MW	181	202	224	245	266	287	308	329	350	371	392
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	213	234	255	276	297	318	339	359	380	401
Supercritical Pulverized Coal - 750 MW	162	183	204	225	245	266	287	307	328	349	369
Subcritical Pulverized Coal - 250 MW	223	245	267	289	311	333	355	377	399	421	443
Subcritical Pulverized Coal - 500 MW	176	197	219	240	261	283	304	325	347	368	389
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	208	229	250	272	293	314	335	356	378	399
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	194	214	235	256	276	297	317	338	359	379
Circulating Fluidized Bed - 250 MW	232	254	277	299	322	344	367	389	412	434	457
Circulating Fluidized Bed - 500 MW	178	200	222	244	266	288	310	332	354	376	398
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	157	174	191	208	225	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	242	259	276	293	310

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	169	221	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	235	305	374	444	513	583	652	722	791	861
Simple Cycle GE 7EA CT - 73 MW	114	200	287	373	459	546	632	719	805	891	978
Simple Cycle GE 7FA CT - 148 MW	86	171	257	342	427	513	598	684	769	854	940
Combined Cycle GE 7EA CT - 119 MW	155	209	263	317	371	425	479	533	587	641	695
Combined Cycle GE 7FA CT - 235 MW	123	172	221	271	320	369	418	467	517	566	615
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	150	199	248	297	345	394	443	492	541	590
W 501F CC CT - 258 MW	116	167	217	268	319	370	421	471	522	573	624
Spark Ignition Engine - 5 MW	155	244	332	421	509	598	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	190	266	343	419	496	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	310	357	404	452	499	546	593	640	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	146	191	236	280	325	369	414	---	---	---
Kalina Cycle CC CT - 275 MW	131	177	223	269	315	360	406	452	---	---	---
Cheng Cycle CT - 140 MW	160	217	275	332	390	447	504	562	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	307	366	425	485	544	603	663	---	---	---
IGCC - 267 MW	273	307	341	375	409	443	478	512	546	---	---
IGCC - 534 MW	240	274	308	341	375	409	442	476	510	---	---
Fuel Cell - 0.2 MW	1526	1586	1647	1707	1768	1829	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	243	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	239	331	424	517	610	702	795	---	---	---
Supercritical Pulverized Coal - 500 MW	181	206	230	255	279	304	328	353	377	402	426
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	214	235	257	278	300	321	343	364	386	407
Supercritical Pulverized Coal - 750 MW	162	187	211	235	259	283	307	331	355	379	403
Subcritical Pulverized Coal - 250 MW	223	248	274	299	325	350	376	401	427	452	478
Subcritical Pulverized Coal - 500 MW	176	201	226	251	275	300	325	350	375	399	424
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	209	230	252	274	296	318	339	361	383	405
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	194	215	237	258	279	300	321	342	363	384
Circulating Fluidized Bed - 250 MW	232	258	284	310	336	362	388	414	440	466	492
Circulating Fluidized Bed - 500 MW	178	203	229	254	280	305	331	356	382	407	433
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	157	175	193	210	228	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	245	263	281	298	316

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	171	225	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	242	318	393	469	545	621	697	773	849	925
Simple Cycle GE 7EA CT - 73 MW	114	208	302	396	491	585	679	773	867	962	1056
Simple Cycle GE 7FA CT - 148 MW	86	178	270	363	455	547	640	732	824	917	1009
Combined Cycle GE 7EA CT - 119 MW	155	214	273	331	390	449	508	567	625	684	743
Combined Cycle GE 7FA CT - 235 MW	123	177	230	284	337	391	444	498	551	605	658
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	154	207	261	314	367	420	473	527	580	633
W 501F CC CT - 258 MW	116	171	227	282	337	393	448	504	559	614	670
Spark Ignition Engine - 5 MW	155	250	345	439	534	629	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	194	276	357	439	520	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	313	363	413	463	513	563	613	663	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	151	199	248	297	345	394	443	---	---	---
Kalina Cycle CC CT - 275 MW	131	181	231	281	331	381	431	481	---	---	---
Cheng Cycle CT - 140 MW	160	223	285	348	411	473	536	599	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	312	377	441	506	570	635	700	---	---	---
IGCC - 267 MW	273	310	346	383	420	456	493	530	567	---	---
IGCC - 534 MW	240	277	313	349	385	422	458	494	530	---	---
Fuel Cell - 0.2 MW	1526	1591	1657	1723	1789	1855	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	251	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	246	346	446	547	647	747	847	---	---	---
Supercritical Pulverized Coal - 500 MW	181	208	234	261	287	313	340	366	393	419	445
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	217	241	266	291	315	340	364	389	414	438
Supercritical Pulverized Coal - 750 MW	162	188	214	240	266	292	318	344	370	396	421
Subcritical Pulverized Coal - 250 MW	223	250	277	305	332	360	387	414	442	469	497
Subcritical Pulverized Coal - 500 MW	176	203	230	256	283	310	336	363	390	416	443
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	212	237	262	287	312	337	362	387	412	437
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	197	222	246	270	294	318	343	367	391	415
Circulating Fluidized Bed - 250 MW	232	260	288	316	344	372	400	428	456	484	512
Circulating Fluidized Bed - 500 MW	178	205	232	260	287	315	342	369	397	424	452
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	160	181	201	222	242	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	263	283	304	324	345

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	167	217	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	232	298	364	430	496	562	628	694	760	826
Simple Cycle GE 7EA CT - 73 MW	114	196	278	360	443	525	607	689	771	854	936
Simple Cycle GE 7FA CT - 148 MW	86	168	249	331	413	494	576	658	739	821	903
Combined Cycle GE 7EA CT - 119 MW	155	206	258	309	361	412	463	515	566	618	669
Combined Cycle GE 7FA CT - 235 MW	123	170	217	263	310	357	404	451	497	544	591
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	147	194	240	287	333	380	426	473	519	566
W 501F CC CT - 258 MW	116	164	212	261	309	357	406	454	502	551	599
Spark Ignition Engine - 5 MW	155	240	326	411	497	582	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	187	261	335	409	483	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	309	355	400	446	492	538	583	629	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	144	187	229	272	314	356	399	---	---	---
Kalina Cycle CC CT - 275 MW	131	175	218	262	305	349	393	436	---	---	---
Cheng Cycle CT - 140 MW	160	214	269	323	378	432	486	541	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	304	360	416	473	529	585	642	---	---	---
IGCC - 267 MW	273	306	339	371	404	437	470	503	535	---	---
IGCC - 534 MW	240	273	305	338	370	402	435	467	499	---	---
Fuel Cell - 0.2 MW	1526	1583	1641	1699	1757	1815	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	239	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	235	323	412	501	590	678	767	---	---	---
Supercritical Pulverized Coal - 500 MW	181	203	225	247	269	291	313	335	357	379	401
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	214	236	257	279	301	322	344	366	388	409
Supercritical Pulverized Coal - 750 MW	162	184	206	227	249	270	292	314	335	357	378
Subcritical Pulverized Coal - 250 MW	223	245	268	291	314	337	360	383	406	429	452
Subcritical Pulverized Coal - 500 MW	176	199	221	243	266	288	311	333	355	378	400
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	209	231	253	275	297	319	341	363	385	407
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	195	216	237	259	280	302	323	344	366	387
Circulating Fluidized Bed - 250 MW	232	255	279	302	326	349	373	396	420	443	467
Circulating Fluidized Bed - 500 MW	178	201	224	247	270	293	316	339	362	385	408
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	158	175	193	211	229	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	247	284	282	300	318

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	170	223	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	239	311	384	457	530	603	675	748	821	894
Simple Cycle GE 7EA CT - 73 MW	114	204	295	385	475	566	656	747	837	927	1018
Simple Cycle GE 7FA CT - 148 MW	86	175	264	353	442	531	620	709	798	887	976
Combined Cycle GE 7EA CT - 119 MW	155	211	268	324	381	437	493	550	606	663	719
Combined Cycle GE 7FA CT - 235 MW	123	174	226	277	329	380	431	483	534	586	637
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	152	203	254	305	356	408	459	510	561	612
W 501F CC CT - 258 MW	116	169	222	275	328	381	434	488	541	594	647
Spark Ignition Engine - 5 MW	155	247	339	430	522	614	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	192	271	350	429	508	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	312	361	409	458	507	556	604	653	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	149	195	242	289	335	382	429	---	---	---
Kalina Cycle CC CT - 275 MW	131	179	227	275	323	371	419	467	---	---	---
Cheng Cycle CT - 140 MW	160	220	280	340	400	460	520	580	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	309	371	433	495	557	619	681	---	---	---
IGCC - 267 MW	273	308	344	379	415	451	486	522	557	---	---
IGCC - 534 MW	240	276	311	346	381	416	451	486	521	---	---
Fuel Cell - 0.2 MW	1526	1589	1652	1715	1778	1842	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	247	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	243	339	436	532	629	725	822	---	---	---
Supercritical Pulverized Coal - 500 MW	181	207	233	258	284	309	335	361	386	412	437
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	215	237	259	282	304	327	349	371	394	416
Supercritical Pulverized Coal - 750 MW	162	188	213	238	263	288	313	338	363	388	413
Subcritical Pulverized Coal - 250 MW	223	249	276	302	329	356	382	409	435	462	489
Subcritical Pulverized Coal - 500 MW	176	202	228	254	280	306	332	358	384	410	436
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	210	232	255	278	300	323	346	368	391	414
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	195	217	239	261	283	305	327	349	371	393
Circulating Fluidized Bed - 250 MW	232	259	287	314	341	368	396	423	450	478	505
Circulating Fluidized Bed - 500 MW	178	204	231	258	284	311	338	364	391	418	445
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	158	177	195	213	232	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	250	269	287	305	324

Levelized Dollars at Various Capacity Factors With SO2 Adders, with CO2 Adders, and with NOx Adders

Technology	2004 Dollars (\$/kW yr)										
	0%	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Pumped Hydro Energy Storage - 500 MW	232	263	---	---	---	---	---	---	---	---	---
Lead-Acid Battery Energy Storage - 5 MW	187	300	412	---	---	---	---	---	---	---	---
Compressed Air Energy Storage - 500 MW	117	173	229	---	---	---	---	---	---	---	---
Simple Cycle GE LM6000 CT - 31 MW	166	245	325	404	484	563	643	722	802	881	961
Simple Cycle GE 7EA CT - 73 MW	114	212	311	409	508	606	705	803	902	1000	1099
Simple Cycle GE 7FA CT - 148 MW	86	182	278	374	471	567	663	759	855	952	1048
Combined Cycle GE 7EA CT - 119 MW	155	216	278	339	401	462	524	585	647	708	770
Combined Cycle GE 7FA CT - 235 MW	123	179	235	291	347	403	459	515	571	627	683
Combined Cycle 2x1 GE 7FA CT - 484 MW	101	157	212	268	324	379	435	491	547	602	658
W 501F CC CT - 258 MW	116	174	232	290	347	405	463	521	579	637	695
Spark Ignition Engine - 5 MW	155	253	351	450	548	646	---	---	---	---	---
Compression Ignition Engine - 10 MW	113	197	281	366	450	534	---	---	---	---	---
Wind Energy Conversion - 50 MW	221	221	221	221	---	---	---	---	---	---	---
Solar Thermal, Parabolic Trough - 100 MW	593	622	652	681	711	---	---	---	---	---	---
Solar Thermal, Parabolic Dish - 1.2 MW	461	477	493	---	---	---	---	---	---	---	---
Solar Thermal, Central Receiver - 50 MW	790	806	822	838	855	871	887	903	---	---	---
Solar Thermal, Solar Chimney - 200 MW	527	543	559	575	592	608	624	640	---	---	---
Solar Photovoltaic - 50 kW	1144	1168	1193	---	---	---	---	---	---	---	---
Biomass (Co-Fire) - 27.5MW	370	378	387	395	404	413	421	430	439	---	---
Geothermal - 30 MW	735	735	735	735	735	735	735	735	735	---	---
Hydroelectric - New - 30 MW	440	445	450	454	459	463	---	---	---	---	---
WV Hydro	---	---	---	---	---	---	---	---	---	---	---
MSW Mass Burn - 7 MW	1158	1238	1319	1400	1480	1561	1641	1722	---	---	---
RDF Stoker-Fired - 7 MW	1666	1752	1838	1924	2010	2096	2182	2268	---	---	---
Landfill Gas IC Engine - 5 MW	263	315	367	418	470	522	574	625	677	---	---
TDF Multi-Fuel CFB (10% Co-fire) - 50 MW	400	405	410	415	420	425	430	435	440	445	451
Sewage Sludge & Anaerobic Digestion - .085 MW	402	418	434	450	467	483	499	515	531	---	---
Humid Air Turbine Cycle CT - 450 MW	102	153	204	255	306	357	408	459	---	---	---
Kalina Cycle CC CT - 275 MW	131	164	236	288	341	393	446	498	---	---	---
Cheng Cycle CT - 140 MW	160	225	291	357	422	488	553	619	---	---	---
Pressurized Fluidized Bed Combustion - 250 MW	248	315	382	450	517	585	652	720	---	---	---
IGCC - 267 MW	273	311	349	388	426	464	502	541	579	---	---
IGCC - 534 MW	240	278	316	354	392	429	467	505	543	---	---
Fuel Cell - 0.2 MW	1526	1594	1663	1731	1800	1869	---	---	---	---	---
Peaking Microturbine - 0.03 MW	146	255	---	---	---	---	---	---	---	---	---
Baseload Microturbine - 0.03 MW	146	250	355	459	564	668	773	877	---	---	---
Supercritical Pulverized Coal - 500 MW	181	209	237	264	292	319	347	375	402	430	457
Supercritical Pulverized Coal, High Sulfur - 500 MW	192	218	243	269	295	320	346	371	397	423	448
Supercritical Pulverized Coal - 750 MW	162	189	216	243	270	297	324	351	378	405	432
Subcritical Pulverized Coal - 250 MW	223	251	280	309	337	366	395	423	452	481	510
Subcritical Pulverized Coal - 500 MW	176	204	232	260	288	316	344	372	400	428	456
Subcritical Pulverized Coal, High Sulfur - 500 MW	187	213	239	265	291	317	343	369	395	421	447
Supercritical Pulverized Coal, High Sulfur - 750 MW	173	198	224	249	274	299	324	350	375	400	425
Circulating Fluidized Bed - 250 MW	232	261	291	320	349	378	408	437	466	496	525
Circulating Fluidized Bed - 500 MW	178	206	235	263	292	321	349	378	406	435	464
Ohio Falls 9 and 10	157	157	157	157	---	---	---	---	---	---	---
TC2 732 MW Supercritical Pulverized Coal	140	161	183	204	226	247	---	---	---	---	---
Minimum Levelized \$/kW	0	37	73	110	146	183	269	290	312	333	356

Least Cost Technologies Considered For Further Analysis

Base Capital, Base Heatrate, Base Fuel

