Chapter H1: Background

INTRODUCTION

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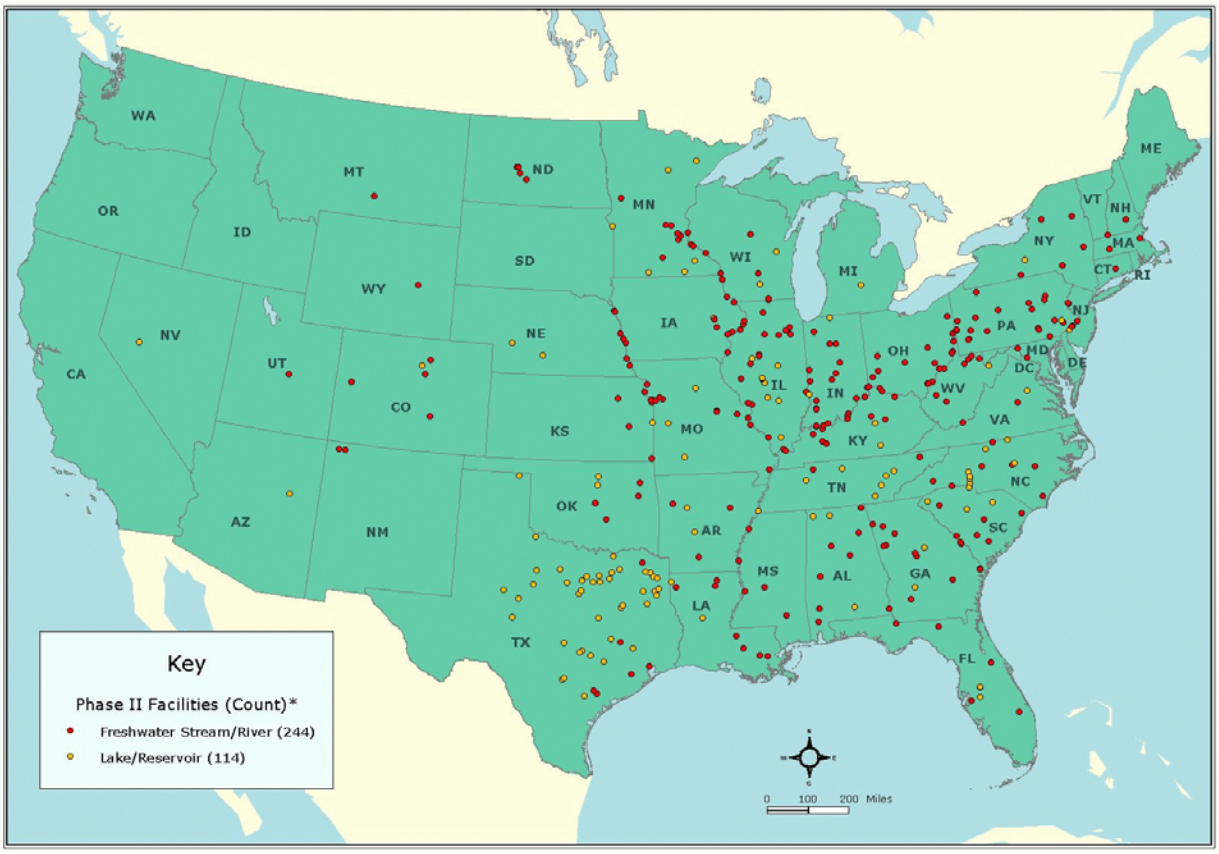
This chapter presents an overview of the Phase II facilities in the Inland study region and summarizes their key operating, economic, technical, and compliance characteristics. For further discussion of operating and economic characteristics of Phase II facilities, refer to Chapter A3 of the *Economic and Benefits Analysis for the Final Section 316(b) Phase II Existing Facilities Rule*; for further discussion of the technical and compliance characteristics of Phase II facilities, refer to the *Technical Development Document for the Final Section 316(b) Phase II Existing Facilities Rule* (U.S. EPA, 2004a,b).

H1-1 OVERVIEW

The Inland Study includes 358 facilities that are in scope for the final Phase II regulation. Two-hundred and forty-four of the 358 facilities withdraw cooling water from an freshwater stream or river while 114 withdraw water from a lake or reservoir. Figure H1-1 presents a map of the 358 in-scope Phase II facilities located in the Inland study region.

Figure H1-1: In-Scope Phase II Facilities in the Inland Study[a]



[a] The Inland Study includes one facility in Alaska.

Source: U.S. EPA analysis for this report.

H1-2 Operating and Economic Characteristics

Most of the 358 Inland Study facilities (234) are coal steam facilities; 81 are oil/gas facilities; 34 are nuclear facilities; and nine are combined-cycle facilities. In 2001, these 358 facilities accounted for 320 gigawatts of generating capacity, 1,604,000 gigawatt hours of generation, and $63.2 billion in revenues.

The operating and economic characteristics of the Inland Study facilities are summarized in Table H1-1. Section H1-4 provides further information on each facility [including facility state, North American Electric Reliability Council (NERC) region, plant type, capacity, 2001 generation, and whether impingement and entrainment estimates were developed for the facility].

Table H1-1: Operating and Economic Characteristics of Phase II Facilities

Waterbody Type	Number of Facilities by Plant Type[a]					Total Capacity (MW)[b]	Total Generation (MWh)[b]	Electric Revenue (millions)
	Coal Steam	Combined Cycle	Nuclear	Oil/Gas Steam	Total			
Freshwater Stream / River								
AK	1	-	-	-	1	28	194,288	$6
AL	7	-	1	-	8	11,825	64,190,937	$2,057
AR	-	-	-	4	4	1,238	1,051,249	$63
CO	1	1	-	2	4	928	4,388,422	$153
CT	-	-	-	1	1	825	1,569,547	$63
FL	1	1	-	3	5	6,315	24,045,701	$995
GA	10	-	2	1	13	18,238	100,051,997	$4,082
IA	12	-	-	-	12	4,272	23,511,689	$560
IL	11	-	5	1	17	21,618	118,833,806	$3,038
IN	17	-	-	-	17	14,759	76,372,350	$2,291
KS	5	-	1	-	6	4,335	27,622,485	$872
KY	12	-	-	-	12	11,056	57,694,077	$1,838
LA	1	-	1	7	9	10,474	35,034,518	$1,955
MA	1	-	-	1	2	243	1,242,703	$41
MD	2	-	-	-	2	1,040	3,403,597	$253
MN	4	-	2	3	9	3,615	20,230,460	$322
MO	11	-	1	-	12	10,851	57,626,594	$1,752
MS	-	-	-	4	4	2,526	7,145,965	$358
MT	1	-	-	-	1	163	1,029,287	$45
NC	7	-	-	-	7	4,394	14,568,148	$665
ND	4	-	-	-	4	1,695	10,960,362	$316
NE	2	-	2	-	4	2,634	16,642,632	$417
NH	1	-	-	-	1	496	2,934,532	$128
NJ	-	1	-	-	1	745	610,527	$26
NM	1	1	-	-	2	2,320	15,268,344	$722
NY	2	1	-	2	5	1,053	2,073,423	$86
OH	17	-	-	-	17	20,173	105,492,132	$3,455
OK	2	-	-	2	4	5,476	21,010,609	$680
PA	15	-	4	4	23	21,161	105,844,277	$6,336
SC	7	-	-	-	7	2,744	12,372,518	$455
TN	2	-	-	-	2	3,400	23,127,870	$1,076
TX	2	-	-	4	6	7,394	26,591,650	$1,210
UT	-	-	-	-	-	-	-	$0
VA	2	-	-	-	2	592	2,744,946	$114
VT	-	-	1	-	1	563	4,171,120	$119
WI	7	-	-	1	8	3,045	16,639,604	$527
WV	10	-	-	-	10	9,280	48,580,305	$1,589
WY	1	-	-	-	1	817	5,633,726	$256

Table H1-1: Operating and Economic Characteristics of Phase II Facilities

Waterbody Type	Number of Facilities by Plant Type[a]					Total Capacity (MW)[b]	Total Generation (MWh)[b]	Electric Revenue (millions)
	Coal Steam	Combined Cycle	Nuclear	Oil/Gas Steam	Total			
Subtotal	*179*	*5*	*20*	*40*	*244*	*212,327*	*1,060,506,397*	*$38,923*
Lake / Reservoir								
AL	1	1	1	-	3	5,467	25,182,468	$1,161
AR	1	-	1	1	3	3,155	19,933,553	$705
AZ	1	-	-	-	1	1,105	7,151,659	$326
CO	1	-	-	-	1	211	1,479,194	$62
FL	1	2	-	-	3	1,613	5,592,919	$269
GA	1	-	-	1	2	1,764	7,868,990	$328
IA	1	-	-	-	1	85	169,060	$6
IL	7	-	1	-	8	5,725	25,677,911	$701
IN	2	-	-	-	2	1,103	6,716,108	$230
KS	1	-	-	-	1	1,578	7,598,121	$173
KY	2	-	-	-	2	2,049	6,053,233	$167
LA	1	-	-	1	2	1,282	4,087,861	$197
MI	1	-	-	-	1	375	1,547,747	$43
MN	4	-	-	2	6	1,594	8,796,532	$285
MO	3	-	-	-	3	2,150	13,011,259	$360
NC	5	-	2	-	7	11,878	73,296,119	$3,583
NE	1	-	-	1	2	1,471	9,449,338	$264
NV	-	-	-	1	1	210	1,328,149	$73
NY	1	-	-	-	1	306	2,221,901	$63
OK	1	-	-	1	2	1,161	7,307,304	$228
PA	-	-	1	1	2	3,845	22,407,400	$1,565
SC	-	-	4	-	4	7,022	50,787,029	$2,383
SD	1	-	-	-	1	457	3,462,038	$104
TN	5	-	2	-	7	12,801	64,002,660	$2,860
TX	9	1	1	32	43	34,287	137,555,681	$6,551
UT	1	-	-	-	1	1,472	8,300,173	$407
VA	-	-	1	-	1	1,960	13,099,598	$700
WI	2	-	-	-	2	210	452,911	$11
WV	1	-	-	-	1	1,681	8,930,790	$519
Subtotal	*55*	*4*	*14*	*41*	*114*	*108,017*	*543,467,706*	*$24,326*
TOTAL	**234**	**9**	**34**	**81**	**358**	**320,334**	**1,603,974,103**	**$63,250**

[a] Based on largest steam-electric capacity at facilities.
[b] MW is an abbreviation for megawatt; MWh is an abbreviation for megawatt hour.

Sources: Plant type (IPM Analysis, U.S. EPA, 2002; Form EIA-860, U.S. DOE, 2001a); capacity (Form EIA-860, U.S. DOE, 2001a); generation (Form EIA-906, U.S. DOE, 2001c); revenue (Form EIA-861, U.S. DOE, 2001b; Form EIA-906, U.S. DOE, 2001c).

H1-3 Technical and Compliance Characteristics

The 358 Inland Study facilities have a combined design intake flow of 209,950 million gallons per day (MGD). Two-hundred and forty-six of the facilities employ a once-through cooling system in the baseline; 68 facilities employ a recirculating cooling system; 37 facilities currently employ a combination cooling system; and 7 facilities employ other types of cooling systems. The 358 facilities incur a combined pre-tax compliance cost of $170 million. Table H1-2 summarizes the flow, compliance responses, and compliance costs for these 358 facilities.

Table H1-2: Technical and Compliance Characteristics of Phase II Facilities

	Cooling Water System (CWS) Type[a]				
	Once-Through	**Recirculating**	**Combination**	**Other**	**All**
Design Flow (MGD)	**150,713**	**35,046**	**21,626**	**2,566**	**209,950**
Number of Facilities by Compliance Response					
Fish H&R	70	-	7	2	79
Fine Mesh Traveling Screens w/Fish H&R	24	-	4	3	31
New Larger Intake Structure with Fine Mesh and Fish H&R	7	-	-	-	7
Passive Fine Mesh Screens	36	-	6	-	42
Fish Barrier Net/Gunderboom	27	-	3	-	30
Relocate Intake to Submerged Offshore with Passive Screen	6	-	2	1	9
Velocity Cap	5	-	-	-	5
Double-Entry, Single-Exit with Fine Mesh and Fish H&R	4	-	2	-	6
Multiple	7	-	1	-	8
None	60	68	12	1	141
Total	246	68	37	7	358
Compliance Cost (2002$; millions)	**$139.1**	**$5.4**	**$22.3**	**$3.4**	**$170.1**

[a] Combination and "other" CWSs are costed as if they were once-through CWSs.

Source: U.S. EPA analysis for this report.

H1-4 Phase II Facilities in the Inland Regional Study

Table H1-3 presents economic and operating characteristics of the Inland Study facilities.

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
Freshwater Stream / River							
6288	Healy	AK	ASCC	Coal Steam	28	194,288	N
3	Barry	AL	SERC	Coal Steam	2,665	15,798,765	N
7	Gadsden	AL	SERC	Coal Steam	138	479,276	N
8	Gorgas	AL	SERC	Coal Steam	1,417	7,245,827	N
10	Greene County	AL	SERC	Coal Steam	1,288	4,105,758	N
26	E C Gaston	AL	SERC	Coal Steam	2,034	12,528,720	N
50	Widows Creek	AL	SERC	Coal Steam	1,969	8,398,426	N
56	Charles R Lowman	AL	SERC	Coal Steam	538	3,473,849	N
6001	Joseph M Farley	AL	SERC	Nuclear	1,776	12,160,316	N
173	Robert E Ritchie	AR	SERC	O/G Steam	923	134,262	N
201	Fitzhugh	AR	SPP	O/G Steam	59	69,069	N
202	Bailey	AR	SPP	O/G Steam	120	531,910	N
203	McClellan	AR	SPP	O/G Steam	136	316,008	N
460	Pueblo	CO	WSCC	O/G Steam	25	67,763	N
468	Cameo	CO	WSCC	Coal Steam	66	552,874	N
478	Zuni	CO	WSCC	O/G Steam	101	71,953	N
6112	Fort St Vrain	CO	WSCC	Combined Cycle	736	3,695,832	N
562	Middletown	CT	NPCC	O/G Steam	825	1,569,547	N
620	Sanford	FL	FRCC	O/G Steam	1,028	3,084,728	N
638	Suwannee River	FL	FRCC	O/G Steam	331	499,240	N
642	Scholz	FL	FRCC	Coal Steam	98	250,396	N
6042	Manatee	FL	FRCC	O/G Steam	1,727	6,436,819	N
6043	Martin	FL	FRCC	Combined Cycle	3,132	13,774,518	N
649	Vogtle	GA	SERC	Nuclear	2,320	19,601,061	N
699	Arkwright	GA	SERC	Coal Steam	214	214,138	N
700	Atkinson	GA	SERC	O/G Steam	282	(1,453)	N
703	Bowen	GA	SERC	Coal Steam	3,540	19,977,350	N
708	Hammond	GA	SERC	Coal Steam	953	4,178,505	N
710	Jack McDonough	GA	SERC	Coal Steam	682	2,997,675	N
727	Mitchell	GA	SERC	Coal Steam	344	487,361	N
728	Yates	GA	SERC	Coal Steam	1,487	5,738,019	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
733	Kraft	GA	SERC	Coal Steam	356	1,263,575	N
6051	Edwin I Hatch	GA	SERC	Nuclear	1,722	14,080,708	N
6052	Wansley	GA	SERC	Coal Steam	1,957	11,360,588	N
6124	McIntosh	GA	SERC	Coal Steam	818	1,030,791	N
6257	Scherer	GA	SERC	Coal Steam	3,564	19,123,679	N
1046	Dubuque	IA	MAPP	Coal Steam	85	344,061	N
1047	Lansing	IA	MAPP	Coal Steam	341	1,336,958	N
1048	M L Kapp	IA	MAPP	Coal Steam	237	1,120,959	N
1073	Prairie Creek	IA	MAPP	Coal Steam	245	992,590	N
1081	Riverside	IA	MAPP	Coal Steam	141	516,676	N
1082	Council Bluffs	IA	MAPP	Coal Steam	856	5,910,861	N
1091	Neal North	IA	MAPP	Coal Steam	1,046	6,037,783	N
1104	Burlington	IA	MAPP	Coal Steam	302	1,107,161	N
1167	Muscatine Plant #1	IA	MAPP	Coal Steam	294	1,328,758	N
1218	Fair Station	IA	MAPP	Coal Steam	63	337,977	N
7343	Neal South	IA	MAPP	Coal Steam	640	4,388,441	N
54775	University of Iowa Main Power Plant	IA	MAIN	Coal Steam	23	89,464	N
384	Joliet 29	IL	MAIN	Coal Steam	1,320	4,999,560	N
856	E D Edwards	IL	MAIN	Coal Steam	780	3,801,058	N
862	Grand Tower	IL	MAIN	Coal Steam	447	397,059	N
863	Hutsonville	IL	MAIN	Coal Steam	153	559,753	N
864	Meredosia	IL	MAIN	Coal Steam	564	1,150,125	N
869	Dresden	IL	MAIN	Nuclear	1,740	11,954,052	N
874	Joliet 9	IL	MAIN	Coal Steam	508	1,195,223	N
879	Powerton	IL	MAIN	Coal Steam	1,786	7,961,158	N
880	Quad Cities	IL	MAIN	Nuclear	1,656	12,497,792	N
887	Joppa Steam	IL	MAIN	Coal Steam	1,100	8,154,550	N
891	Havana	IL	MAIN	Coal Steam	718	1,698,526	N
892	Hennepin	IL	MAIN	Coal Steam	306	1,734,044	N
898	Wood River	IL	MAIN	Coal Steam	650	2,491,380	N
6022	Braidwood	IL	MAIN	Nuclear	2,450	20,241,464	N
6023	Byron	IL	MAIN	Nuclear	2,450	19,443,098	N
6025	Collins	IL	MAIN	O/G Steam	2,650	1,970,582	N
6026	LaSalle	IL	MAIN	Nuclear	2,340	18,584,382	N
983	Clifty Creek	IN	ECAR	Coal Steam	1,303	8,025,400	Y
988	Tanners Creek	IN	ECAR	Coal Steam	1,100	5,118,265	Y
990	Elmer W Stout	IN	ECAR	Coal Steam	1,000	3,970,009	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
991	H T Pritchard	IN	ECAR	Coal Steam	396	1,356,810	N
994	Petersburg	IN	ECAR	Coal Steam	1,881	11,421,002	N
1001	Cayuga	IN	ECAR	Coal Steam	1,193	6,584,218	N
1004	Edwardsport	IN	ECAR	Coal Steam	144	460,733	N
1007	Noblesville	IN	ECAR	Coal Steam	100	283,763	N
1008	R Gallagher	IN	ECAR	Coal Steam	600	2,970,182	N
1010	Wabash River	IN	ECAR	Coal Steam	1,173	4,478,954	N
1012	F B Culley	IN	ECAR	Coal Steam	415	2,454,827	N
1032	Logansport	IN	ECAR	Coal Steam	61	176,173	N
1037	Peru	IN	ECAR	Coal Steam	35	12,589	N
1043	Frank E Ratts	IN	ECAR	Coal Steam	233	1,696,146	N
6085	R M Schahfer	IN	ECAR	Coal Steam	2,201	8,922,013	N
6166	Rockport	IN	ECAR	Coal Steam	2,600	17,570,417	N
6705	Warrick	IN	ECAR	Coal Steam	323	870,849	N
210	Wolf Creek	KS	SPP	Nuclear	1,236	10,346,651	N
1239	Riverton	KS	SPP	Coal Steam	133	493,104	N
1294	Kaw	KS	SPP	Coal Steam	161	23,768	N
1295	Quindaro	KS	SPP	Coal Steam	385	827,995	N
6064	Nearman Creek	KS	SPP	Coal Steam	261	1,599,155	N
6068	Jeffrey EC	KS	SPP	Coal Steam	2,160	14,331,812	N
1356	Ghent	KY	ECAR	Coal Steam	2,226	12,654,217	N
1357	Green River	KY	ECAR	Coal Steam	264	954,123	N
1361	Tyrone	KY	ECAR	Coal Steam	137	267,097	N
1363	Cane Run	KY	ECAR	Coal Steam	661	3,301,952	N
1364	Mill Creek	KY	ECAR	Coal Steam	1,717	8,882,437	N
1374	Elmer Smith	KY	ECAR	Coal Steam	445	2,756,272	N
1378	Paradise	KY	SERC	Coal Steam	2,558	14,430,648	N
1379	Shawnee	KY	SERC	Coal Steam	1,750	8,455,618	N
1381	K C Coleman	KY	ECAR	Coal Steam	521	3,041,994	N
1382	HMP&L Station 2	KY	ECAR	Coal Steam	405	1,423,424	N
1383	R A Reid	KY	ECAR	Coal Steam	195	345,386	N
1385	Dale	KY	ECAR	Coal Steam	176	1,180,909	N
1394	Willow Glen	LA	SERC	O/G Steam	2,178	3,917,915	N
1402	Little Gypsy	LA	SERC	O/G Steam	1,251	2,968,709	N
1403	Ninemile Point	LA	SERC	O/G Steam	2,142	4,383,337	N
1404	Sterlington	LA	SERC	O/G Steam	648	1,141,083	N
1416	Arsenal Hill	LA	SPP	O/G Steam	125	137,581	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
1448	Monroe	LA	SERC	O/G Steam	138	39,685	N
4270	Waterford 3	LA	SERC	Nuclear	1,200	9,535,930	N
6055	Big Cajun 2	LA	SERC	Coal Steam	1,903	11,026,893	N
8056	Waterford 1 & 2	LA	SERC	O/G Steam	891	1,883,385	N
1595	Kendall Square	MA	NPCC	O/G Steam	107	144,971	N
1606	Mount Tom	MA	NPCC	Coal Steam	136	1,097,732	N
1570	R P Smith	MD	ECAR	Coal Steam	110	529,748	N
1572	Dickerson	MD	MAAC	Coal Steam	930	2,873,849	Y
1904	Black Dog	MN	MAPP	Coal Steam	512	1,051,380	N
1912	High Bridge	MN	MAPP	Coal Steam	277	1,413,134	N
1915	King	MN	MAPP	Coal Steam	598	3,227,806	N
1922	Monticello	MN	MAPP	Nuclear	600	3,876,322	N
1925	Prairie Island	MN	MAPP	Nuclear	1,137	7,912,705	N
1926	Red Wing	MN	MAPP	O/G Steam	23	112,231	N
1927	Riverside	MN	MAPP	Coal Steam	404	2,356,239	N
1934	Wilmarth	MN	MAPP	O/G Steam	25	120,916	N
2039	Elk River	MN	MAPP	O/G Steam	39	159,727	N
2079	Hawthorn	MO	SPP	Coal Steam	1,071	2,513,097	N
2094	Sibley	MO	SPP	Coal Steam	524	2,897,223	N
2098	Lake Road	MO	MAPP	Coal Steam	273	603,435	N
2103	Labadie	MO	MAIN	Coal Steam	2,389	15,800,442	N
2104	Meramec	MO	MAIN	Coal Steam	985	3,560,293	N
2107	Sioux	MO	MAIN	Coal Steam	1,099	5,645,812	N
2167	New Madrid	MO	SERC	Coal Steam	1,200	7,154,141	N
2169	Chamois	MO	MAIN	Coal Steam	59	35,425	N
2171	Missouri City	MO	SPP	Coal Steam	46	63,718	N
6065	Iatan	MO	SPP	Coal Steam	726	4,396,469	N
6153	Callaway	MO	MAIN	Nuclear	1,236	8,384,240	N
6155	Rush Island	MO	MAIN	Coal Steam	1,242	6,572,299	N
2046	Eaton	MS	SERC	O/G Steam	68	4,172	N
2050	Baxter Wilson	MS	SERC	O/G Steam	1,328	4,287,962	N
2053	Rex Brown	MS	SERC	O/G Steam	349	473,389	N
8054	Gerald Andrus	MS	SERC	O/G Steam	781	2,380,442	N
2187	Corette	MT	WSCC	Coal Steam	163	1,029,287	N
2706	Asheville	NC	SERC	Coal Steam	1,049	2,562,213	N
2708	Cape Fear	NC	SERC	Coal Steam	431	1,654,667	N
2709	Lee	NC	SERC	Coal Steam	508	1,860,938	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
2713	L V Sutton	NC	SERC	Coal Steam	763	2,500,852	N
2720	Buck	NC	SERC	Coal Steam	474	1,522,193	N
2721	Cliffside	NC	SERC	Coal Steam	781	3,729,416	N
2723	Dan River	NC	SERC	Coal Steam	388	737,869	N
2790	Heskett	ND	MAPP	Coal Steam	115	584,212	N
2817	Leland Olds	ND	MAPP	Coal Steam	656	4,378,283	N
2823	Milton R Young	ND	MAPP	Coal Steam	734	4,637,171	N
2824	Stanton	ND	MAPP	Coal Steam	190	1,360,696	N
2289	Fort Calhoun	NE	MAPP	Nuclear	502	3,519,572	N
2291	North Omaha	NE	MAPP	Coal Steam	645	3,233,261	N
6096	Nebraska City	NE	MAPP	Coal Steam	652	4,683,258	N
8036	Cooper	NE	MAPP	Nuclear	836	5,206,541	N
2364	Merrimack	NH	NPCC	Coal Steam	496	2,934,532	N
2399	Burlington	NJ	MAAC	Combined Cycle	745	610,527	N
2442	Four Corners	NM	WSCC	Coal Steam	2,270	15,061,359	N
2465	Animas	NM	WSCC	Combined Cycle	50	206,985	N
2493	East River	NY	NPCC	O/G Steam	356	732,011	N
2526	Goudey	NY	NPCC	Coal Steam	119	872,056	N
2529	Hickling	NY	NPCC	Coal Steam	70	0	N
2539	Albany	NY	NPCC	O/G Steam	400	340,356	Y
10617	CH Resources Inc Beaver Falls	NY	NPCC	Combined Cycle	108	129,000	N
2828	Cardinal	OH	ECAR	Coal Steam	1,880	9,708,439	Y
2830	Walter C Beckjord	OH	ECAR	Coal Steam	1,433	6,029,354	Y
2832	Miami Fort	OH	ECAR	Coal Steam	1,444	6,799,924	Y
2840	Conesville	OH	ECAR	Coal Steam	2,175	8,693,451	N
2843	Picway	OH	ECAR	Coal Steam	106	341,544	N
2848	O H Hutchings	OH	ECAR	Coal Steam	447	848,564	N
2850	J M Stuart	OH	ECAR	Coal Steam	2,452	13,703,893	N
2861	Niles	OH	ECAR	Coal Steam	285	1,296,019	N
2864	R E Burger	OH	ECAR	Coal Steam	423	1,826,754	N
2866	W H Sammis	OH	ECAR	Coal Steam	2,468	12,866,668	Y
2872	Muskingum River	OH	ECAR	Coal Steam	1,529	7,793,071	N
2876	Kyger Creek	OH	ECAR	Coal Steam	1,086	7,409,696	Y
2917	Hamilton	OH	ECAR	Coal Steam	138	301,965	N
2937	Piqua	OH	ECAR	Coal Steam	81	1,194	N
6019	W H Zimmer	OH	ECAR	Coal Steam	1,426	9,632,328	N
7286	Richard Gorsuch	OH	ECAR	Coal Steam	200	1,295,182	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
8102	Gen J M Gavin	OH	ECAR	Coal Steam	2,600	16,944,086	N
165	GRDA	OK	SPP	Coal Steam	1,010	6,517,676	N
2951	Horseshoe Lake	OK	SPP	O/G Steam	853	1,072,349	N
2952	Muskogee	OK	SPP	Coal Steam	1,889	9,639,171	N
2956	Seminole	OK	SPP	O/G Steam	1,724	3,781,413	N
3098	Elrama	PA	ECAR	Coal Steam	510	2,390,034	N
3113	Portland	PA	MAAC	Coal Steam	621	1,201,263	N
3115	Titus	PA	MAAC	Coal Steam	261	828,684	N
3130	Seward	PA	MAAC	Coal Steam	218	922,411	N
3131	Shawville	PA	MAAC	Coal Steam	632	2,934,127	N
3132	Warren	PA	MAAC	Coal Steam	137	142,761	N
3138	New Castle	PA	ECAR	Coal Steam	431	1,824,502	N
3140	Brunner Island	PA	MAAC	Coal Steam	1,567	6,412,187	N
3148	Martins Creek	PA	MAAC	O/G Steam	2,113	2,960,586	N
3149	Montour	PA	MAAC	Coal Steam	1,642	9,381,471	N
3152	Sunbury	PA	MAAC	Coal Steam	492	1,934,539	N
3159	Cromby	PA	MAAC	O/G Steam	420	1,143,140	N
3160	Delaware	PA	MAAC	O/G Steam	392	95,361	N
3166	Peach Bottom	PA	MAAC	Nuclear	2,304	17,048,886	N
3169	Schuylkill	PA	MAAC	O/G Steam	233	36,918	N
3176	Hunlock Power Sta	PA	MAAC	Coal Steam	94	170,089	N
3178	Armstrong	PA	ECAR	Coal Steam	319	1,906,213	N
3181	Mitchell	PA	ECAR	Coal Steam	449	1,591,948	N
6040	Beaver Valley	PA	ECAR	Nuclear	1,847	13,179,236	N
6094	Bruce Mansfield	PA	ECAR	Coal Steam	2,741	13,884,249	N
6103	Susquehanna	PA	MAAC	Nuclear	2,336	16,866,720	N
8011	Three Mile Island	PA	MAAC	Nuclear	837	5,416,763	N
8226	Cheswick	PA	ECAR	Coal Steam	565	3,572,189	N
3264	W S Lee	SC	SERC	Coal Steam	460	1,074,238	N
3280	Canadys Steam	SC	SERC	Coal Steam	490	2,283,447	N
3295	Urquhart	SC	SERC	Coal Steam	372	1,242,199	N
3297	Wateree	SC	SERC	Coal Steam	772	4,213,629	N
3317	Dolphus M Grainger	SC	SERC	Coal Steam	163	915,146	N
7210	Cope	SC	SERC	Coal Steam	417	2,502,965	N
7652	USDOE SRS (D-Area)	SC	SERC	Coal Steam	70	140,894	N
3399	Cumberland	TN	SERC	Coal Steam	2,600	17,978,931	N
3405	John Sevier	TN	SERC	Coal Steam	800	5,148,939	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
3443	Victoria	TX	ERCOT	O/G Steam	516	819,513	N
3460	Cedar Bayou	TX	ERCOT	O/G Steam	2,295	5,306,310	N
3470	W A Parish	TX	ERCOT	Coal Steam	3,969	17,078,016	N
3503	River Crest	TX	ERCOT	O/G Steam	113	8,358	N
3631	Sam Rayburn	TX	ERCOT	O/G Steam	48	27,353	N
6136	Gibbons Creek	TX	ERCOT	Coal Steam	454	3,352,100	N
3776	Glen Lyn	VA	ECAR	Coal Steam	338	1,458,170	N
3796	Bremo Bluff	VA	SERC	Coal Steam	254	1,286,776	N
3751	Vermont Yankee	VT	NPCC	Nuclear	563	4,171,120	N
4048	Blackhawk	WI	MAIN	O/G Steam	50	13,821	N
4054	Nelson Dewey	WI	MAIN	Coal Steam	200	1,072,048	N
4057	Rock River	WI	MAIN	Coal Steam	294	171,566	N
4078	Weston	WI	MAIN	Coal Steam	565	3,169,258	N
4140	Alma	WI	MAPP	Coal Steam	181	592,357	N
4143	Genoa	WI	MAPP	Coal Steam	346	1,997,218	N
4271	John P Madgett	WI	MAPP	Coal Steam	387	2,310,619	N
8023	Columbia	WI	MAIN	Coal Steam	1,023	7,312,717	N
3935	John E Amos	WV	ECAR	Coal Steam	2,933	13,003,896	N
3936	Kanawha River	WV	ECAR	Coal Steam	439	2,574,883	N
3938	Phil Sporn	WV	ECAR	Coal Steam	1,106	5,482,588	Y
3942	Albright	WV	ECAR	Coal Steam	278	1,363,785	N
3944	Harrison	WV	ECAR	Coal Steam	2,052	12,681,820	N
3945	Rivesville	WV	ECAR	Coal Steam	110	444,510	N
3946	Willow Island	WV	ECAR	Coal Steam	213	1,126,533	N
3947	Kammer	WV	ECAR	Coal Steam	713	3,799,801	Y
6004	Pleasants	WV	ECAR	Coal Steam	1,368	7,795,978	N
10743	Morgantown Energy Facility	WV	ECAR	Coal Steam	69	306,511	N
4158	Dave Johnston	WY	WSCC	Coal Steam	817	5,633,726	N
Lake / Reservoir							
46	Browns Ferry	AL	SERC	Nuclear	3,494	18,196,747	N
47	Colbert	AL	SERC	Coal Steam	1,826	6,690,214	N
533	McWilliams	AL	SERC	Combined Cycle	147	295,507	N
170	Lake Catherine	AR	SERC	O/G Steam	752	1,454,399	N
6138	Flint Creek	AR	SPP	Coal Steam	558	3,698,365	N
8055	Arkansas Nuclear One	AR	SERC	Nuclear	1,845	14,780,789	N
113	Cholla	AZ	WSCC	Coal Steam	1,105	7,151,659	N
477	Valmont	CO	WSCC	Coal Steam	211	1,479,194	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
675	Larsen Memorial	FL	FRCC	Combined Cycle	218	440,657	N
676	C D McIntosh Jr	FL	FRCC	Coal Steam	874	3,449,742	N
7242	Polk	FL	FRCC	Combined Cycle	521	1,702,520	N
709	Harllee Branch	GA	SERC	Coal Steam	1,746	7,867,069	N
753	Plant Crisp	GA	SERC	O/G Steam	18	1,921	N
1058	Sixth Street	IA	MAPP	Coal Steam	85	169,060	N
204	Clinton	IL	MAIN	Nuclear	990	7,878,964	N
861	Coffeen	IL	MAIN	Coal Steam	1,005	3,659,838	N
876	Kincaid	IL	MAIN	Coal Steam	1,319	2,394,722	N
963	Dallman	IL	MAIN	Coal Steam	388	1,868,481	N
964	Lakeside	IL	MAIN	Coal Steam	75	255,168	N
976	Marion	IL	MAIN	Coal Steam	272	1,364,295	N
6016	Duck Creek	IL	MAIN	Coal Steam	441	2,159,389	N
6017	Newton	IL	MAIN	Coal Steam	1,235	6,097,054	N
6213	Merom	IN	ECAR	Coal Steam	1,080	6,716,108	N
50366	University of Notre Dame Power Plant	IN	ECAR	Coal Steam	23	0	N
1241	Lacygne	KS	SPP	Coal Steam	1,578	7,598,121	N
1355	E W Brown	KY	ECAR	Coal Steam	1,728	3,915,986	N
1384	Cooper	KY	ECAR	Coal Steam	321	2,137,247	N
1417	Lieberman	LA	SPP	O/G Steam	278	280,382	N
6190	Rodemacher	LA	SPP	Coal Steam	1,004	3,807,479	N
1831	Eckert Station	MI	ECAR	Coal Steam	375	1,547,747	N
1888	Fox Lake	MN	MAPP	O/G Steam	134	75,853	N
1891	Syl Laskin	MN	MAPP	Coal Steam	116	659,429	N
1893	Clay Boswell	MN	MAPP	Coal Steam	1,073	6,947,707	N
1943	Hoot Lake	MN	MAPP	Coal Steam	138	824,445	N
1960	Austin DT	MN	MAPP	O/G Steam	34	3,474	N
2008	Silver Lake	MN	MAPP	Coal Steam	99	285,624	N
2080	Montrose	MO	SPP	Coal Steam	564	2,749,293	N
2161	James River Power St	MO	SPP	Coal Steam	451	1,593,458	N
2168	Thomas Hill	MO	SERC	Coal Steam	1,135	8,668,508	N
2712	Roxboro	NC	SERC	Coal Steam	2,575	14,636,011	N
2718	G G Allen	NC	SERC	Coal Steam	1,155	5,426,420	N
2727	Marshall	NC	SERC	Coal Steam	1,996	13,061,663	N
2732	Riverbend	NC	SERC	Coal Steam	601	2,111,347	N
6015	Harris	NC	SERC	Nuclear	951	5,368,496	N
6038	McGuire	NC	SERC	Nuclear	2,441	18,562,982	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
8042	Belews Creek	NC	SERC	Coal Steam	2,160	14,129,200	N
2226	Canaday	NE	MAPP	O/G Steam	109	112,156	N
6077	Gentleman	NE	MAPP	Coal Steam	1,363	9,337,182	N
2330	Fort Churchill	NV	WSCC	O/G Steam	210	1,328,149	N
2535	Milliken	NY	NPCC	Coal Steam	306	2,221,901	N
3000	Boomer Lake Station	OK	SPP	O/G Steam	23	1,310	N
6095	Sooner	OK	SPP	Coal Steam	1,138	7,305,994	N
3161	Eddystone	PA	MAAC	O/G Steam	1,569	3,916,008	N
6105	Limerick	PA	MAAC	Nuclear	2,276	18,491,392	N
3251	H B Robinson	SC	SERC	Nuclear	992	6,432,070	N
3265	Oconee	SC	SERC	Nuclear	2,666	19,040,496	N
6036	Catawba	SC	SERC	Nuclear	2,410	18,551,115	N
6127	Summer	SC	SERC	Nuclear	954	6,763,348	N
6098	Big Stone	SD	MAPP	Coal Steam	457	3,462,038	N
3393	Allen	TN	SERC	Coal Steam	1,611	4,712,127	N
3396	Bull Run	TN	SERC	Coal Steam	950	6,715,632	N
3403	Gallatin	TN	SERC	Coal Steam	1,918	7,198,942	N
3406	Johnsonville	TN	SERC	Coal Steam	2,911	7,704,576	N
3407	Kingston	TN	SERC	Coal Steam	1,700	9,094,952	N
6152	Sequoyah	TN	SERC	Nuclear	2,441	18,949,856	N
7722	Watts Bar Nuclear	TN	SERC	Nuclear	1,270	9,626,575	N
3452	Lake Hubbard	TX	ERCOT	O/G Steam	928	2,047,729	N
3453	Mountain Creek	TX	ERCOT	O/G Steam	958	1,680,430	N
3454	North Lake	TX	ERCOT	O/G Steam	709	1,409,304	N
3457	Lewis Creek	TX	SERC	O/G Steam	543	2,525,762	N
3476	Knox Lee	TX	SPP	O/G Steam	501	1,021,105	N
3477	Lone Star	TX	SPP	O/G Steam	40	15,073	N
3478	Wilkes	TX	SPP	O/G Steam	882	2,012,978	N
3489	Eagle Mountain	TX	ERCOT	O/G Steam	706	589,943	N
3490	Graham	TX	ERCOT	O/G Steam	635	1,307,984	N
3491	Handley	TX	ERCOT	O/G Steam	1,433	1,945,836	N
3492	Morgan Creek	TX	ERCOT	O/G Steam	1,364	2,457,028	N
3497	Big Brown	TX	ERCOT	Coal Steam	1,187	7,272,835	N
3502	Lake Creek	TX	ERCOT	O/G Steam	322	537,413	N
3504	Stryker Creek	TX	ERCOT	O/G Steam	713	1,729,686	N
3506	Tradinghouse	TX	ERCOT	O/G Steam	1,380	5,089,680	N
3507	Trinidad	TX	ERCOT	O/G Steam	243	415,958	N

Table H1-3: Phase II Facilities in the Inland Study

EIA Code	Plant Name	Plant State	NERC Region	Steam Plant Type	2001 Capacity (MW)	2001 Net Generation (MWh)	I&E Data?
3508	Valley	TX	ERCOT	O/G Steam	1,175	2,362,792	N
3521	Lake Pauline	TX	ERCOT	O/G Steam	40	7,468	N
3523	Oak Creek	TX	ERCOT	O/G Steam	75	346,654	N
3524	Paint Creek	TX	ERCOT	O/G Steam	242	348,762	N
3527	San Angelo	TX	ERCOT	Combined Cycle	126	660,569	N
3548	Decker Creek	TX	ERCOT	O/G Steam	932	1,944,510	N
3549	Holly Street	TX	ERCOT	O/G Steam	558	777,190	N
3576	Ray Olinger	TX	ERCOT	O/G Steam	428	863,316	N
3601	Sim Gideon	TX	ERCOT	O/G Steam	639	1,475,704	N
3611	O W Sommers	TX	ERCOT	O/G Steam	892	1,206,473	N
3612	V H Braunig	TX	ERCOT	O/G Steam	894	972,703	N
3627	North Texas	TX	ERCOT	O/G Steam	71	3,959	N
3628	R W Miller	TX	ERCOT	O/G Steam	604	1,242,148	N
4195	Powerlane Plant	TX	ERCOT	O/G Steam	85	0	N
4937	Thomas C Ferguson	TX	ERCOT	O/G Steam	446	929,060	N
4938	Fort Phantom	TX	ERCOT	O/G Steam	363	1,482,191	N
6139	Welsh	TX	SPP	Coal Steam	1,674	10,852,977	N
6145	Comanche Peak	TX	ERCOT	Nuclear	2,430	18,322,265	N
6146	Martin Lake	TX	ERCOT	Coal Steam	2,380	15,224,026	N
6147	Monticello	TX	ERCOT	Coal Steam	1,980	12,880,627	N
6178	Coleto Creek	TX	ERCOT	Coal Steam	600	4,380,429	N
6179	Fayette Power Prj	TX	ERCOT	Coal Steam	1,690	11,675,030	N
6181	J T Deely	TX	ERCOT	Coal Steam	892	5,764,924	N
6243	Dansby	TX	ERCOT	O/G Steam	105	180,191	N
7097	J K Spruce	TX	ERCOT	Coal Steam	546	4,470,735	N
7902	Pirkey	TX	SPP	Coal Steam	721	3,681,203	N
8063	DeCordova	TX	ERCOT	O/G Steam	1,157	3,441,031	N
6165	Hunter	UT	WSCC	Coal Steam	1,472	8,300,173	N
6168	North Anna	VA	SERC	Nuclear	1,960	13,099,598	N
3992	Blount Street	WI	MAIN	Coal Steam	188	443,626	N
4127	Menasha	WI	MAIN	Coal Steam	22	9,285	N
3954	Mt Storm	WV	ECAR	Coal Steam	1,681	8,930,790	N

Source: U.S. EPA analysis for this report.