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Table 4.A. Summer net internal demand, capacity resources, and capacity margins by North American Electric Reliability Corporation Region 1999 through 2014 actual, 2015-2016 projected

megawatts and percent

Interconnection	NERC Regional Assessment Area	Net Internal Demand (MW)[1] -- Summer																										
		Actual																							Projected			
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015E	2016E
	FRCC	27,162	27,773	28,898	29,435	30,537	31,649	31,868	32,874	34,562	34,832	35,666	38,932	37,951	40,387	42,243	45,950	45,345	46,434	44,660	46,263	45,522	44,798	44,338	44,653	46,025	46,452	47,304
	NPCC	46,016	45,952	46,007	46,380	47,465	48,290	48,950	50,240	51,760	53,450	54,270	55,888	55,164	53,936	51,580	57,402	60,879	58,221	59,896	55,730	56,232	62,313	58,319	61,335	54,225	60,133	60,471
	Balance of Eastern Region	332,679	337,297	341,869	349,984	357,284	365,319	374,256	383,043	389,869	401,701	420,443	417,613	430,396	422,253	419,349	455,594	469,639	465,229	447,629	424,714	453,436	466,360	468,092	453,202	429,615	466,177	472,931
	ECAR	79370	79948	80536	83530	84967	85643	88573	91103	92359	94072	98651	100235	101251	98487	95300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAAC	43341	43794	44348	44198	44571	45224	45628	46548	47626	49325	51358	54015	54296	53566	52049	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAIN	40466	41083	41304	42001	42611	43229	44470	45194	45570	47165	51845	53032	53267	53617	50499	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4,493	4,641	5,051	5,112	4,488	4,965	5,154
	MISO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100,963	98,290	96,769	121,124	113,507	126,257	128,087
	MRO	24,055	26,168	26,050	25,901	26,855	27,487	27,298	28,221	29,766	30,606	28,006	27,125	28,825	28,775	29,094	38,266	40,661	40,249	38,857	35,849	NA	NA	NA	NA	NA	NA	NA
	PJM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	135,142	146,443	154,339	157,509	141,678	155,544	157,912
	RFC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	190,200	190,800	177,200	169,155	161,241	NA	NA	NA	NA	NA	NA	NA
	SERC	93,893	94,767	97,448	99,287	101,885	105,785	109,270	134,968	138,146	142,726	151,527	144,399	154,459	148,380	153,024	186,049	196,196	205,321	196,711	186,507	160,896	161,995	161,687	121,810	123,866	131,395	133,231
Eastern Interconnection	SPP	51,554	51,537	52,183	55,067	56,395	57,951	59,017	37,009	36,402	37,807	39,056	38,807	38,298	39,428	39,383	41,079	41,982	42,459	42,906	41,117	51,942	54,991	50,246	47,647	46,076	48,016	48,547
ERCOT	TRE	41,915	43,516	43,093	42,629	43,630	44,990	45,636	47,746	50,254	51,697	53,649	55,106	55,833	59,282	58,531	59,060	61,214	61,063	61,049	63,518	64,378	68,416	66,548	67,245	66,454	69,057	70,014
Western Interconnection	WECC	91,052	93,408	94,595	96,613	99,724	99,612	101,728	104,486	111,641	112,177	116,913	107,294	117,032	120,894	121,205	128,464	139,402	135,839	130,916	122,881	126,944	117,755	130,465	132,875	127,092	133,182	134,082
All Interconnections	Contiguous U.S.	538,824	547,946	554,462	565,041	578,640	589,860	602,438	618,389	638,086	653,857	680,941	674,833	696,376	696,752	692,908	746,470	776,479	766,786	744,151	713,106	746,513	759,642	767,762	759,310	723,411	775,001	784,802

Interconnection	NERC Regional Assessment Area	Capacity Resources (MW)[2] -- Summer																										
		Actual																							Projected			
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015E	2016E
	FRCC	33,549	33,669	34,565	36,225	37,577	38,282	38,237	39,613	39,708	40,645	43,083	42,290	43,342	46,806	48,579	50,200	50,909	53,027	51,541	49,239	53,370	54,340	53,588	54,073	54,204	55,663	53,209
	NPCC	60,878	59,972	61,960	62,049	61,906	62,368	58,592	60,729	60,439	63,077	63,376	63,760	66,208	70,902	71,532	72,258	73,095	73,771	75,894	78,639	67,569	72,277	76,525	72,817	70,122	71,741	72,103
	Balance of Eastern Region	411,472	416,948	419,921	424,832	430,348	441,577	443,268	446,055	449,465	460,325	490,333	487,950	504,357	513,382	526,454	532,917	534,270	543,608	539,936	559,823	570,396	549,067	581,034	576,118	556,772	548,947	547,096
	ECAR	97588	98993	100027	101910	101605	103003	104953	105106	105545	107451	115379	113136	119736	123755	127919	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAAC	54132	55347	55272	55328	56271	56881	56774	56155	55511	57831	60679	59533	63619	65897	66167	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAIN	48244	48471	49104	50333	50963	52112	52880	52160	52722	55984	64170	65950	67025	67410	65677	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MAPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7,210	5,244	6,065	6,549	6,243	6,702	6,895
	MISO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	131,691	110,611	112,085	143,725	143,725	144,760	141,649
	MRO	32,063	31,975	32,411	31,964	32,267	32,665	33,121	34,027	34,773	35,373	34,236	32,271	34,259	33,287	35,830	46,792	50,116	47,259	48,180	47,529	NA	NA	NA	NA	NA	NA	NA
	PJM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	167,647	170,066	187,305	188,684	181,680	177,078	181,168
	RFC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	220,000	214,693	213,544	215,477	215,700	NA	NA	NA	NA	NA	NA	NA
	SERC	112,112	114,690	115,635	117,375	120,044	127,562	126,196	155,016	158,360	160,575	169,760	171,530	172,485	177,231	182,861	219,749	223,630	234,232	228,169	247,400	200,511	201,103	201,786	165,171	159,822	159,279	157,109
Eastern Interconnection	SPP	67,333	67,472	67,472	67,922	69,198	69,354	69,344	43,591	42,554	43,111	46,109	45,530	47,233	45,802	48,000	46,376	45,831	48,573	48,110	49,194	63,337	62,044	73,793	71,989	65,302	61,128	60,275
ERCOT	TRE	53,549	53,954	54,994	54,323	54,219	55,074	55,230	55,771	59,788	65,423	69,622	70,797	76,849	74,764	73,850	66,724	70,664	75,912	74,274	76,280	73,857	69,595	73,219	74,396	73,950	76,798	76,439
Western Interconnection	WECC	127,478	127,794	125,992	127,931	127,533	130,180	135,049	135,687	135,270	136,274	141,640	124,193	142,624	150,277	155,455	160,026	162,288	168,080	167,860	152,467	158,407	147,147	147,527	167,111	162,119	169,252	167,717
All Interconnections	Contiguous U.S.	686,926	692,337	697,432	705,360	711,583	727,481	730,376	737,855	744,670	765,744	808,054	788,990	833,380	856,131	875,870	882,125	891,226	914,397	909,504	916,449	923,599	892,426	931,893	944,515	917,167	922,401	916,564

Table 4.A. Summer net internal demand, capacity resources, and capacity margins by North American Electric Reliability Corporation Region 1999 through 2014 Actual, 2015-2016 Projected (cont.)

megawatts and percent

Interconnection	NERC Regional Assessment Area	Capacity Margin (percent)[3] -- Summer																											
		Actual																							Projected				
		1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015E	2016E	
	FRCC	20.0	17.5	16.4	18.7	18.7	17.3	16.7	17.0	13.0	14.3	17.2	7.9	12.4	13.7	13.0	8.5	10.9	12.4	13.4	6.0	14.7	17.6	17.3	17.4	15.1	16.5	11.1	
	NPCC	24.4	23.4	25.7	25.3	23.3	22.6	16.5	17.3	14.4	15.3	14.4	12.3	16.7	23.9	27.9	20.6	16.7	21.1	21.1	29.1	16.8	13.8	23.8	15.8	22.7	16.2	16.1	
	Balance of Eastern Region	19.1	19.1	18.6	17.6	17.0	17.3	15.6	14.1	13.3	12.7	14.3	14.4	14.7	17.8	20.3	14.5	12.1	14.4	17.1	24.1	20.5	15.1	19.4	21.3	22.8	15.1	13.6	
	ECAR	18.7	19.2	19.5	18.0	16.4	16.9	15.6	13.3	12.5	12.5	14.5	11.4	15.4	20.4	25.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	MAAC	19.9	20.9	19.8	20.1	20.8	20.5	19.6	17.1	14.2	14.7	15.4	9.3	14.7	18.7	21.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	MAIN	16.1	15.2	15.9	16.6	16.4	17.0	15.9	13.4	13.6	15.8	19.2	19.6	20.5	23.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
	MAPP	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	37.7	11.5	16.7	21.9	28.1	25.9	25.3
	MISO	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	23.3	11.1	13.7	15.7	21.0	12.8	9.6
	MRO	25.0	18.2	19.6	19.0	16.8	15.9	17.6	17.1	14.4	13.5	18.2	15.9	15.9	13.6	18.8	18.2	18.9	14.8	19.3	24.6	NA	NA	NA	NA	NA	NA	NA	
	PJM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.4	13.9	17.6	16.5	22.0	12.2	12.8	
	RFC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.5	11.1	17.0	21.5	25.2	NA	NA	NA	NA	NA	NA	NA	NA	
	SERC	16.3	17.4	15.7	15.4	15.1	17.1	13.4	12.9	12.8	11.1	10.7	15.8	10.5	16.3	16.3	15.3	12.3	12.3	13.8	24.6	19.8	19.4	19.9	26.3	22.5	17.5	15.2	
Eastern Interconnection	SPP	23.4	23.6	22.7	18.9	18.5	16.4	14.9	15.1	14.5	12.3	15.3	14.8	18.9	13.9	18.0	11.4	8.4	12.6	10.8	16.4	18.0	11.4	31.9	33.8	29.4	21.5	19.5	
ERCOT	TRE	21.7	19.3	21.6	21.5	19.5	18.3	17.4	14.4	15.9	21.0	22.9	22.2	27.3	20.7	20.7	11.5	13.4	19.6	17.8	16.7	12.8	1.7	9.1	9.6	10.1	10.1	8.4	
Western Interconnection	WECC	28.6	26.9	24.9	24.5	21.8	23.5	24.7	23.0	17.5	17.7	17.5	13.6	17.9	19.6	22.0	19.7	14.1	19.2	22.0	19.4	19.9	20.0	11.6	20.5	21.6	21.3	20.1	
All Interconnections	Contiguous U.S.	21.6	20.9	20.5	19.9	18.7	18.9	17.5	16.2	14.3	14.6	15.7	14.5	16.4	18.6	20.9	15.4	12.9	16.1	18.2	22.2	19.2	14.9	17.6	19.6	21.1	16.0	14.4	

[1] Net Internal Demand represent the system demand that is planned for by the electric power industry's reliability authority and is equal to Internal Demand less Direct Control Load Management and Interruptible Demand.

[2] Capacity Resources: Utility and nonutility-owned generating capacity that is existing or in various stages of planning or construction, less inoperable capacity, plus planned capacity purchases from other resources, less planned capacity sales.

[3] Capacity Margin is the amount of unused available capability of an electric power system at peak load as a percentage of capacity resources. Margins may be less straightforward than in previous decades due to increases in demand-side resource availability and renewable capacity.

Notes: • NERC region and reliability assessment area maps are provided on EIA's Electricity Reliability web page: <http://www.eia.gov/electricity/data/eia411/>

• Projected data are updated annually.

• Peak load represents an hour of a day during the associated peak period.

• The Summer peak period begins on June 1 and extends through September 30. • The Winter peak period begins October 1 and extends through May 31.

• Historically the MRO, RFC, SERC, and SPP regional boundaries were altered as utilities changed reliability organizations. The historical data series for these regions have not been adjusted. Instead, the Balance of Eastern Region category was introduced to provide a consistent trend of the Eastern interconnection.

• ECAR, MAAC, and MAIN dissolved at the end-of-2005. Many of the former utility members joined RFC. ReliabilityFirst Corporation (RFC) came into existence on January 1, 2006. RFC submitted a consolidated filing covering the historical NERC regions of ECAR, MAAC, and MAIN.

• E - Estimate; NA - Not Available

Source: U.S. Energy Information Administration, Form EIA-411, "Coordinated Bulk Power Supply and Demand Program Report."