



May 10, 2012

RECEIVED
MAY 14 2012

CONNECTICUT
SITING COUNCIL

Mr. Robert Stein
Chairman
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RE: F-2012/2013 Response to CSC Pre Hearing Interrogatories – Set 1

Dear Mr. Stein:

The Connecticut Municipal Electric Energy Cooperative (CMEEC) herewith submits an original and twenty (20) copies to the Connecticut Siting Council in response to Interrogatories 1 through 7 dated April 10, 2012 from the Connecticut Siting Council in conjunction with Docket No. F-2012/2013 Connecticut Siting Council Review of Connecticut Electric Loads and Resources.

Should you require any additional information, please advise us.

Very truly yours,

CONNECTICUT MUNICIPAL ELECTRIC
ENERGY COOPERATIVE

A handwritten signature in black ink, appearing to read "DRR", is written over the typed name of Drew Rankin.

Drew Rankin
Chief Executive Officer

CJC/

Enclosures

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

- Q-CSC-1-CMEEC Provide the predicted (not actual) 50/50 forecast loads for 2002 through 2011 from The Connecticut Municipal Electric Energy Cooperative's (CMEEC) 2002 forecast report.
- A-CSC-1-CMEEC Please find attached Table 1 which contains CMEEC's projected load forecast which was submitted to the Connecticut Siting Council on March 1, 2002.

TABLE I

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE
20-YEAR FORECAST OF RETAIL SALES BY CUSTOMER CLASS, ENERGY REQUIREMENTS AND PEAK DEMAND
2002-2021

YEAR	Residential Service MWh Sales	Small General Service MWh Sales	Medium General Service MWh Sales	Large General Service MWh Sales	Other Service MWh	Total Retail Sales MWh	Mohegan Tribal Authority MWh	Hydro Gener. MWh	Subtrans. & Distri. Losses MWh	Systems Energy Requirement Met by CMEEC MWh	CMEEC		Load Factor %
											Summer Coincident Peak Demand MW	Winter Peak Demand MW	
1992	424,463	118,862	250,533	714,329	47,619	1,555,806	0	11,292	68,988	1,606,260	267.49	266.51	68.4
1993	441,802	115,140	250,426	734,799	47,119	1,589,216	0	11,372	72,747	1,627,239	286.08	263.33	64.9
1994	450,933	114,205	256,064	720,052	48,728	1,589,982	0	6,524	83,816	1,644,374	296.86	281.06	63.2
1995	448,638	114,746	247,902	736,106	51,182	1,598,574	0	3,845	85,114	1,654,613	311.63	296.47	60.6
1996	477,285	114,580	231,441	813,350	52,647	1,709,303	15,497	3,774	74,266	1,786,861	290.17	279.85	69.3
1997	468,998	113,766	245,795	780,571	53,356	1,662,086	45,138	3,216	78,368	1,751,390	319.54	264.34	62.6
1998	472,381	115,427	249,085	774,389	53,839	1,665,121	48,027	3,524	63,026	1,745,827	309.16	263.73	64.5
1999	492,997	116,139	267,677	712,728	57,565	1,667,106	48,036	2,111	75,486	1,758,116	322.39	286.24	62.3
2000	504,537	119,702	335,867	672,090	59,936	1,692,152	61,694	2,825	67,965	1,787,298	310.46	285.36	65.5
2001	514,722	122,207	337,878	666,954	61,560	1,703,321	101,918	2,118	65,813	1,844,206	331.12	277.51	60.0
2002	519,960	124,441	340,178	676,007	60,674	1,721,260	152,268	2,300	65,925	1,911,652	344.11	292.47	63.4
2003	525,564	125,483	343,707	692,313	61,276	1,748,343	154,686	2,300	67,521	1,942,751	350.83	299.17	63.2
2004	531,318	126,445	346,243	710,265	61,711	1,775,982	157,526	2,300	69,784	1,975,492	357.85	307.45	62.8
2005	534,465	127,875	348,603	712,425	62,126	1,785,194	159,641	2,300	70,140	1,987,175	360.35	310.05	63.0
2006	537,623	128,818	351,007	714,214	62,541	1,794,203	162,179	2,300	70,465	1,999,047	362.76	312.35	62.9
2007	540,842	128,777	353,432	716,345	62,966	1,803,362	164,757	2,300	70,797	2,011,116	365.39	314.80	62.8
2008	544,051	130,731	355,863	718,071	63,392	1,812,108	167,782	2,300	71,118	2,023,208	368.08	317.02	62.6
2009	547,292	131,499	357,661	719,834	63,753	1,820,039	170,039	2,300	71,426	2,033,703	370.61	319.35	62.6
2010	550,441	132,257	359,474	721,526	64,105	1,827,802	172,743	2,300	71,723	2,044,469	373.27	321.44	62.5
2011	553,512	133,027	361,321	723,364	64,465	1,835,690	175,492	2,300	72,029	2,055,411	375.73	323.66	62.4
2012	556,583	133,795	363,138	725,197	64,829	1,843,542	178,714	2,300	72,335	2,066,791	378.38	325.78	62.2
2013	559,727	134,570	364,996	727,131	65,192	1,851,616	181,122	2,300	72,651	2,077,589	380.88	328.05	62.3
2014	562,965	135,346	366,873	729,048	65,559	1,859,790	184,006	2,300	72,971	2,088,967	383.68	330.28	62.2
2015	566,254	136,127	368,729	731,048	65,930	1,868,087	186,936	2,300	73,297	2,100,520	386.33	332.60	62.1
2016	569,660	136,908	370,615	733,022	66,300	1,876,504	190,369	2,300	73,626	2,112,700	389.21	334.97	61.8
2017	573,172	137,703	372,530	735,093	66,678	1,885,176	192,938	2,300	73,967	2,124,280	391.99	337.41	61.9
2018	576,797	138,508	374,465	737,143	67,059	1,893,972	196,012	2,300	74,313	2,136,498	395.04	339.92	61.7
2019	580,529	139,312	376,387	739,257	67,441	1,902,937	199,136	2,300	74,665	2,148,937	398.00	342.48	61.6
2020	582,060	139,041	374,288	727,255	67,038	1,912,069	202,794	2,300	75,024	2,162,087	401.15	345.10	61.4
2021	585,895	139,858	376,248	729,460	67,426	1,921,399	206,026	2,300	75,393	2,175,019	404.24	347.75	61.3
% INCREASE 2001-2011	0.73	0.85	0.67	0.82	0.46	0.75	5.58		1.09	0.68	1.55		
% INCREASE 2001-2021	0.48	0.68	0.54	0.45	0.46	0.60	3.56		0.83	0.71	1.13		

[1] Totals are the sum of kilowatthours rounded to the nearest megawatthour (MWh) less CT Steele Interruptible.

[2] The forecasted CMEEC coincident peak demands were computed by summing the Groton, Norwich (inclusive of the contribution of Norwich's Second Street and Tenth Street hydro units), Jewett City, East Norwich, South Norwich, Wallingford and Bozrah noncoincident peak demands and multiplying by an average historical coincidence factor.

[3] The historical 1994 CMEEC winter and summer peak demand numbers reflect both Wallingford and Bozrah as if they were part of CMEEC at that time. The historical 1995 CMEEC winter and summer peak demand numbers reflect Bozrah as if they were part of CMEEC at that time.

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

Q-CSC-2-CMEEC

Provide CMEEC's weather-normalized historical peak loads for 2002 through 2011.

A-CSC-2-CMEEC

Please refer to the table below which lists both the actual and weather-normalized historical peak loads for CMEEC from 2002 through 2011.

	Actual Peak Demand	Weather Normalized Peak Demand
2002	368	383
2003	350	380
2004	345	387
2005	372	377
2006	398	387
2007	367	384
2008	374	378
2009	348	360
2010	346	356
2011	359	344

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

- Q-CSC-3-CMEEC Explain the methodology of how the historical actual peak load data are converted to weather normalized historical peak load data.
- A-CSC-3-CMEEC CMEEC has developed a time-series based regression model that includes variables that measure the relationship between monthly peak loads and actual weather conditions on the peak day. To develop the weather-normalized historical peak loads, CMEEC replaces the actual peak day weather conditions with “normal” peak day weather conditions. Normal peak day weather is based on an analysis of weather data from the last 10 years.

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

- Q-CSC-4-CMEEC Provide CMEEC's predicted load factors for years 2012 through 2021 using the normal weather forecast.
- A-CSC-4-CMEEC Please find attached a revised Table 1 containing the predicted loads factors for the years 2012 through 2021 using the normal weather forecast. Please be aware that this revised Table 1 supersedes the Table 1 which was filed with the Connecticut Siting Council on March 1, 2012.

TABLE I
 10-YEAR FORECAST OF RETAIL SALES BY CUSTOMER CLASS, ENERGY REQUIREMENTS AND PEAK DEMAND
 2012-2021

YEAR	Residential MW Sales	Small General Service MW Sales	Medium General Service MW Sales	Large General Service MW Sales	Other Service MW	Total Retail Sales MWh	Mohegan Tribal Authority MWh	Hydro Gener. MWh	Subtrans. & Distrl. Losses MWh	Systems Energy Requirements Met by CMEEEC Mwh [1]	CMEEEC Summer Coincident Peak Demand MW [2] [3] [4]	CMEEEC Winter Coincident Peak Demand MW [2] [3] [4]	Load Factor %
1992	424,463	118,862	250,533	707,087	47,619	1,548,564	0	11,292	68,988	1,606,260	266.51	266.51	68.4
1993	441,802	115,140	250,426	711,377	47,119	1,565,864	0	11,372	72,747	1,627,239	286.08	286.08	64.9
1994	450,933	114,205	255,064	697,132	48,728	1,567,282	0	6,524	83,816	1,644,374	296.86	281.06	63.2
1995	448,638	114,746	247,902	710,876	51,182	1,573,344	0	3,845	85,114	1,654,613	311.63	296.47	60.6
1996	477,288	114,590	251,441	784,919	52,647	1,680,872	15,491	3,774	74,266	1,766,855	290.17	279.85	69.3
1997	468,598	113,766	245,795	749,385	53,356	1,630,300	45,138	3,216	78,568	1,751,390	319.54	284.34	62.6
1998	472,381	115,427	249,085	747,566	53,839	1,638,298	48,027	3,524	63,026	1,745,827	309.16	263.73	64.5
1998	492,897	116,139	287,677	682,328	57,565	1,636,706	48,036	2,111	75,553	1,758,184	322.39	286.24	62.3
2000	504,537	119,702	335,887	641,300	59,936	1,661,362	61,694	2,825	67,067	1,787,298	310.46	285.36	65.5
2001	514,722	122,207	337,878	642,227	61,560	1,678,594	101,918	2,118	65,810	1,844,204	351.12	277.51	60.0
2002	527,056	119,644	344,415	640,657	66,848	1,698,615	147,846	2,173	74,769	1,919,057	367.87	299.49	58.6
2003	556,621	122,552	357,194	639,020	68,528	1,743,915	150,594	3,163	64,839	1,856,185	349.93	302.38	63.8
2004	589,744	127,258	362,651	667,561	70,485	1,787,699	151,435	2,315	67,716	2,004,535	345.27	332.36	66.1
2005	585,344	135,123	362,835	666,702	73,674	1,823,678	149,229	689	67,879	2,040,087	372.12	311.67	62.6
2006	556,078	125,012	373,229	653,640	69,568	1,777,527	151,334	3,138	59,321	1,985,044	398.32	291.28	56.9
2007	565,983	129,472	382,165	647,856	71,558	1,797,034	151,654	2,075	69,600	2,010,213	366.89	306.67	62.5
2008	554,797	127,301	380,596	611,202	71,677	1,745,373	152,534	8,399	68,214	1,958,322	374.36	303.05	58.6
2009	543,950	124,527	366,845	505,438	72,865	1,610,625	151,397	8,969	54,973	1,808,026	347.59	287.5	59.4
2010	549,791	120,919	379,244	496,858	73,829	1,620,641	153,546	5,654	67,585	1,836,118	346.16	273.06	60.6
2011	549,934	120,381	372,980	506,389	73,173	1,622,857	151,640	7,932	53,348	1,819,913	359.05	277.52	57.9
2012	559,282	123,456	373,559	507,593	67,951	1,631,842	151,715	8,000	54,699	1,830,255	391.42	314.68	53.2
2013	557,469	124,410	392,927	523,098	68,570	1,666,474	151,337	8,000	55,655	1,865,466	397.89	319.20	53.5
2014	560,839	125,659	397,498	533,702	69,213	1,686,912	151,337	8,000	55,229	1,885,479	401.33	322.27	53.6
2015	564,516	126,644	417,060	538,799	69,812	1,711,831	151,337	8,000	54,638	1,909,807	405.22	325.65	53.8
2016	570,769	127,964	453,360	535,902	70,275	1,756,269	151,715	8,000	53,722	1,953,706	410.86	331.30	54.1
2017	571,873	128,574	455,842	534,009	70,620	1,760,918	151,337	8,000	53,007	1,957,262	412.54	332.23	54.2
2018	575,601	129,508	459,320	534,122	70,954	1,769,505	151,337	8,000	52,934	1,965,176	414.25	333.51	54.2
2019	579,556	130,377	462,566	534,239	71,299	1,778,032	151,337	8,000	51,503	1,972,872	416.00	334.79	54.1
2020	584,115	131,420	466,378	534,362	71,610	1,787,884	151,715	8,000	51,077	1,982,676	417.40	335.99	54.1
2021	581,065	130,883	463,141	522,107	71,114	1,748,309	151,337	8,000	47,430	1,938,077	418.77	336.64	52.9
% Increase 2011-2021	0.20	0.84	2.19	0.31	-0.29	0.75	-0.02	-1.17	0.64	1.55	1.95		

[1] Totals are the sum of kilowatthours rounded to the nearest megawatthour (MWh) less CT Steels Interruptible.
 [2] The forecasted CMEEEC coincident peak demands were computed by summing the Groton, Norwich (inclusive of the contribution of Norwich's Second Street and Tenth Street hydro units), Jewett City, East Norwalk, South Norwalk, Wallingford and Bozrah noncoincident peak demands and multiplying by an average historical coincidence factor.
 [3] The historical 1994 CMEEEC winter and summer peak demand numbers reflect both Wallingford and Bozrah as if they were part of CMEEEC at that time. The historical 1995 CMEEEC winter and summer peak demand numbers reflect Bozrah as if they were part of CMEEEC at that time.
 [4] The historical CMEEEC coincident peak demands are net of the two large interruptible customers AIRGAS (Bozrah) and NUCOR Steel (Wallingford). The forecasted CMEEEC coincident peak demands were computed by summing all of the noncoincident peaks for each of CMEEEC's Members/Participants including the two interruptible customers and multiplying by an average historical coincidence factor.

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

Q-CSC-5-CMEEC Provide a break-down of the projected number of megawatts (MW) of load reduction for CMEEC's territory due to conservation, load response/load management and distributed generation (if applicable) for each year from 2012 through 2021. If possible, also include a similar estimated break-down by megawatt hours or gigawatt-hours.

A-CSC-5-CMEEC The annual demand peaks listed in the table immediately following reflects the CMEEC system peak, which is not necessarily coincident with the ISO-NE regional peak.

All conservation reductions are cumulative capabilities, meaning, for the specific year, CMEEC projects the ability to realize those reductions levels in total. This is the second year that these tables are being provided to the Council in this format. In previous years, CMEEC filed cumulative results in Demand in Megawatts, but only incremental additions in any specific year for Energy megawatt hours. As was the case in Docket No. F-2011, CMEEC believes this revision to the format is the intent of the filing and clearly quantifies our active and projected capability based on strategies deployed and planned to be deployed.

Witness Responsible: Charles J. Carpinella

Demand and Capability, measured In Megawatts				
	Annual Peak Demand	Conservation Demand Reductions	Load Response/Management Demand Reductions	Distributed Generation Capability
2012	391	9	2.5	40
2013	398	11	0	40
2014	401	13	0	40
2015	405	15	0	40
2016	411	17	0	40
2017	413	19	0	40
2018	414	21	0	40
2019	416	23	0	40
2020	417	25	0	40
2021	419	27	0	40

Witness Responsible: Charles J. Carpinella

Energy, measured In Megawatt hours				
	Annual Projected Energy – net of conservation reductions	Conservation Energy Reductions*	Load Response/Management Energy Reductions	Distributed Generation Energy Reductions
2012	1,830,255	104,037*	Minimal annual energy reductions anticipated	Minimal annual energy reductions anticipated
2013	1,865,466	121,567		
2014	1,885,479	139,097		
2015	1,909,807	156,627		
2016	1,953,706	174,157		
2017	1,957,262	191,687		
2018	1,965,176	209,217		
2019	1,972,872	226,747		
2020	1,982,676	244,277		
2021	1,939,077	261,807		

*Starting in 2012, the statutory mill charge for Conservation and Load Management is 2.5 mills (Please refer to Connecticut General Statute Sec 7-233y (a)(6)) and is expected to remain static. CMEEC expects that programs funded through these changes will achieve a projected incremental annual reduction of 17,530 MWH (2 MW in peak demand annual reduction).

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

Q-CSC-6-CMEEC

Provide the basic underlying assumptions associated with the distributed generation DG included in the 2012 CMEEC Forecast, including but not limited to the DG projects approved, number of megawatts of each DG project, the number of units expected to go into service or the assumed probability that they go into service, etc.

A-CSC-6-CMEEC

Please refer to CMEEC's response to Interrogatory CSC-5. The projected distributed generation DG for the 2012-2021 forecast periods is reflected in the Demand Table. The 2012 value of 40 MW represents the total distributed generation (i.e. CMEEC's 50 in 5 Units) currently located and in service in CMEEC's Members/Participants service territories. CMEEC procured a total of 50 MW of distributed generation resources, of which 40 MW are in service. The remaining 10 MW is under evaluation for future deployment, deferment, or other actions in light of the current economic conditions and market environment.

Witness Responsible: Charles J. Carpinella

RESPONSE TO CSC DATA REQUEST Dated April 10, 2012

- Q-CSC-7-CMEEC Does CMEEC's 2012 Forecast include any additions due to possible loads and/or electrical energy requirements from electric vehicles? If yes, provide any assumptions made regarding electric vehicles.
- A-CSC-7-CMEEC No, CMEEC's 2012 Forecast does not include any additions due to possible loads and/or electrical energy requirements from electric vehicles. CMEEC is currently beginning the process of identifying and collecting information in our Members/Participants service territories of new customers who would be identified as electric vehicle customers. The identification of these new customers in conjunction with the results of time-varying rate pilots would form the basis by which CMEEC would be able to produce a discrete electric vehicle forecast for our Members/Participants.