



February 27, 2014

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

Dear Chairman Stein:

The Connecticut Municipal Electric Energy Cooperative (CMEEC) herewith submits an original and twenty (20) copies to the Connecticut Siting Council of our Forecast of Electric Loads and Resources for 2014-2023 Report as required by Section 16-50R of the Connecticut General Statutes.

Should you require any additional information, please advise us.

Very truly yours,

CONNECTICUT MUNICIPAL ELECTRIC
ENERGY COOPERATIVE

Drew Rankin
Chief Executive Officer

CJC/

Enclosures

cc: Service List

FORECAST OF ELECTRIC LOADS AND RESOURCES 2014-2023

March 1, 2014

**Connecticut Municipal Electric Energy Cooperative
30 Stott Avenue
Norwich, Connecticut 06360**

Introduction and Background

The Connecticut Municipal Electric Energy Cooperative ("CMEEEC") is a not-for-profit joint-action power supply agency empowered to finance, plan, acquire, construct, operate, repair, extend, or improve electric generation and transmission facilities and sell power at wholesale to serve the needs of the Connecticut municipal electric utilities (MEUs) and other electric utility systems.

The CMEEEC Member utilities (collectively, the "Members") are (1) Norwalk's Third Taxing District Electrical Department ("East Norwalk"), (2) Groton Utilities ("Groton"), (3) Jewett City Department of Public Utilities ("Jewett City"), (4) Norwich Public Utilities ("Norwich"), and (5) South Norwalk Electric & Water ("South Norwalk"). Bozrah Power & Light Company ("Bozrah") and the Mohegan Tribal Utility Authority ("MTUA") are also full-requirements wholesale customers of CMEEEC. The loads of the CMEEEC Members, Bozrah and the MTUA are represented on an integrated, single-system basis for purposes of ISO-New England ("ISO-NE") operations.

The joint power supply established by the CMEEEC is intended to meet the diversified power supply needs of all of CMEEEC's Members and customers. CMEEEC's mission is to meet these requirements reliably and at the lowest possible cost over the long-term. Today, CMEEEC's portfolio consists of CMEEEC and member-owned generation, unit entitlement contracts, long-term contracts, intermediate and short-term system contracts, financial instruments, and ISO New England (ISO-NE) market purchases.

As of January 1, 2014, the Town of Wallingford elected to procure its power supply resources on a stand-alone basis. Therefore, Wallingford is no longer included in this Connecticut Siting Council document. The enclosed forecast for 2014-2023 shows slight load growth for CMEEEC's Members/customers. CMEEEC's projections for the 2014-2023 period reflect an average compound growth rate of 1.85% for total system energy requirements and 0.89% for annual summer coincident peak demand. Last year (2013) showed small increases in total energy purchases for all of CMEEEC's Members and customers. In the 2014-2023 load forecast the residential sector of CMEEEC's Members/customers is anticipated to grow slightly while the remaining sectors, except as noted below, reflects an overall flat forecast. Power usage from the biological science clusters has also slowed significantly. Growth attributable to the area Casinos slowed during the 2011-2013 time period given the uncertainty about the pace of development at these facilities and related regional economic impacts. However, the 2014-2023 forecast projects significant increases in two areas. The first is a planned expansion of the Mohegan Tribal Gaming Authority facilities in both peak demand and total energy purchase requirements. The second area is a new Norwalk based data center which came on-line in December 2013. The new data center with the potential for significant load growth is fed by the newly constructed Fitch Street substation in East Norwalk energized in December 2013.

Future growth is further modulated by reductions in usage rates resulting from the conservation programs planned and implemented by the municipal electric distribution utilities (MEU). These programs remain very active and are popular with all sectors of MEU end users. The long-term forecasts of electric demand and the energy of the CMEEEC Member and customer utilities are

the primary tools used to ascertain future CMEEC power needs. When the primary individual forecasts are combined, the result is a CMEEC system-wide energy, peak demand and capacity requirements forecast, which is filed with the Council herein and also used to make power supply decisions.

The MEUs maintain the State's municipal electric systems delivery capabilities during the forecast period 2014-2023 appear strong and poised for growth. The new Fitch Substation in East Norwalk is expected to meet the needs of that community for several decades and the similar SNEW South Norwalk 115 kV to 13.8 kV SONO substation scheduled to open in 2014 likewise sets the stage for meeting load growth with improved reliability over the current 27.6 kV supply system. Corresponding with this major supply route change SNEW has upgraded its distribution system to 13.8 kV, reducing losses and improving distribution level reliability. With respect to grid related issues, CMEEC participates in NEPOOL studies which include delivery capability review for MEU points of receipt. A current such study is the Southeastern Connecticut Area Study which looks out 2022.

Conservation and Load Management

The MEU'S continued delivery of cost effective Conservation and Load Management ("C&LM") programs to customers in 2013. CMEEC, on behalf of the MEUs, worked with the members of the Energy Efficiency Board ("EEB") pursuant to Conn. Gen. Stat. Section 7-233y, in implementing additional programs to reduce customer electricity usage and peak demand. The C&LM Plan measures the overall impact of electricity conservation programs on customer energy usage and peak demand.

In 2013, the MEUs provided a fully implemented portfolio of energy-efficiency initiatives, including:

- Performing comprehensive energy audits and weatherization of 900 homes;
- Distributing over 125,000 compact fluorescent lamps, bringing the total to over 1,250,000 since program inception in 2006;
- Promotion/purchase of over 50 ENERGY STAR appliances through the mail-In Appliance Rebate Program;
- Participation in the Cool Choice HVAC Rebate program by more than 1,200 residential and commercial customers; and
- Providing energy-efficiency assessments and incentives for nearly 50 commercial and industrial customer projects (e.g. custom equipment replacement, lighting retrofits).

CL&M efforts during 2013 resulted in a 2.04 MW in coincident summer peak demand reduction and more than 13.8 gWh in annual energy savings, at a cost of about \$0.024 per lifetime kWh. MEU commercial and industrial customers received over \$1,400,000 in incentives for installing energy-efficiency measures in their facilities. Residential customers received over \$2,600,000 in incentives. These efforts will continue through 2014 and beyond.

Smart Grid

CMEEC's ConnSMART Program received a 2009 U.S. Department of Energy (DOE) \$9.2M

50% matching Smart Grid Investment Grant funded by the American Recovery and Reinvestment Act. Program participants include CMEEEC, Groton Utilities, Jewett City Department of Public Utilities, Norwich Department of Public Utilities and South Norwalk Electric and Water. These participants are scheduled to complete their smart grid investments by year 2014.

A goal of CMEEEC and MEU adoption of smart grid functions is to empower customers to reduce peak demand, energy use, and overall power costs. Foundational to meeting the goal is establishment of new information, tools and reliable two way smart meters as provided for in part in the DOE grant. CMEEEC has substantially modified its CMARS Business Intelligence tool through the grant and the MEUs have installed smart meters and related software to permit introduction of a next round or real time conservation and load management programs. Further goals being realized include savings from remote service connect and disconnect smart meter functions and advanced system diagnostics to reduce outages, and in the event of an outage, better pinpoint source to speed remedy. Further benefits include the ability to better manage net metering arrangements for customer renewable energy installations.

The following material and tables are in the specific itemized requirements of Sec.16-50r of the General Statutes and provided on behalf of CMEEEC and its Members and customers. Items (1) through (8) listed below correspond to the numbers included in that section.

- (1) Provide a tabulation of estimated peak loads, resources and margins for each year (of the forecast period):

Table I shows forecasted energy and demand for the period as well as data on summer and winter peak demands. Table II reflects the forecasted annual peak demands for the 2014-2023 periods for both the 50/50 forecast as well as the 90/10 forecast.

CMEEEC is a participant in ISO New England and buys its power through the ISO New England market system. CMEEEC also maintains power and related resources delivered to the Markets. Market resources over the forecast period include NYPA and Hydro Quebec ICAP credits (20 - 30 MW), Conservation & Load Response ICAP Credits (5 MW), A.L. Pierce (75 – 95 MW), Norwich Jet (15 - 18 MW). CMEEEC maintains distributed generator resources (40-50 MW) to help attain local reliability goals.

- (2) Provide data on energy use and peak loads for the five preceding calendar years:

Historical energy use and peak loads for the five-member CMEEEC system, plus Bozrah and the Mohegan Tribal Utility Authority (MTUA), are provided in Table III.

- (3) Provide a list of existing generating facilities in service:

Generating facilities owned by CMEEEC and CMEEEC Members are listed in Table IV. The mix of existing generating facilities and system power agreements that serve the

CMEEC system are listed in Table V. Anticipated retirement dates of CMEEC's Members' generating facilities are listed in Table VI.

- (4) Provide a list of scheduled generating facilities for which property has been acquired, for which certificates have been issued, and for which certificate applications have been filed:

CMEEC has received Connecticut Siting Council approval in Petition No. 1071 for the installation of a microgrid consisting of four 2.49 MW generators at 4 Matlack Road in Norwich, Connecticut. This project is proceeding as planned to achieve a 2014 in service date.

- (5) Provide a list of planned generating units at plant locations for which property has been acquired or at plant locations not yet acquired that will be needed to provide estimated additional electric requirements:

CMEEC is planning development of a site opportunity at the Naval Submarine Base New London, in Groton, Connecticut for a 6 MW to 10 MW peaking plant. Project development schedule will be set following Department of Defense execution of a pending lease for use of the site.

- (6) Provide a list of planned transmission lines on which proposed route reviews are being undertaken or for which certificate applications have already been filed.

There are no planned transmission lines.

- (7) Provide a description of the steps taken to upgrade existing facilities and to eliminate overhead transmission and distribution lines in accordance with the regulations and standards described in Section 16-50t.

Several projects are underway in CMEEC Member service territories and Bozrah, which are summarized below.

South Norwalk: The construction of a new South Norwalk 115 kV to 13.8 kV bulk power substation and the conversion of existing circuits from 4.16 kV to 13.8 kV are underway. Construction has been approved by the Council. Local approval (City of Norwalk zoning) has been granted. Interconnection approval has been received from ISO New England and will be energized by CL&P. South Norwalk and CL&P (the owner of the PTF portion of the station) are near to having completed construction at the time of filing of this report. The new station replaces systems many of which were put in place about 70 years ago and the primary objective of this project is to improve power delivery reliability. The project also increases delivery capability and is further needed to serve anticipated load increases arising from development projects. For example the proposed Spinnaker project (formally Reed/Putnam project), will result in an increase of between 7-10 MW in demand.

East Norwalk (TTD) put in service in December 2013 a new PTF level substation (Fitch 47R) which is the subject of CSC DN 426. Some minor landscaping remains to be completed this spring in accordance with CSC and City of Norwalk approval conditions. This project addresses first reliability, replacing aged systems which posed unacceptable risks, and second, imminent load growth which taken together with current loads would cause current capability service reliability thresholds to be exceeded. The Fitch (47R) substation eliminates two underground supply cables, which were originally installed in 1946, and have undergone piecemeal replacement as faults have occurred.

Norwich Department of Public Utilities (NPU) continues to upgrade its 4.8kV distribution system to 13.8kV to increase efficiency by reducing system losses and to improve reliability through better voltage conditions and newer equipment. Over the last 10 years, NPU has upgraded about 50% of its 4.8kV system load and more than 15.0 miles of overhead lines to improve system voltage, capacity, and reliability in affected areas. Over the last two years, NPU has installed approximately 5 miles of new 13.8kV overhead lines.

All NPU substations, generating stations and several distribution switches are monitored and controlled via Supervisory Control and Data Acquisition (SCADA) system in NPU's control room 24/7. As part of a multi-year project, all stations have been moved to NPU's fiber optic network for more reliable communication and monitoring.

NPU continues to work with CMEEC and Backus Hospital on the Matlack Generating Project to install 10 MW of diesel generation with microgrid capabilities on the Backus' property off of Matlack Road in Norwich. Construction will commence in the first half of 2014 following award of the DEEP air permit. NPU and Backus are evaluating the addition of a cogeneration facility to expand this microgrid and may apply for Micro Grid Round 2 funding in 2014. Critical facilities available to be served by NPU's Microgrid include schools, emergency shelters, a fire station, a large supermarket/pharmacy chain, a public water supply, a gas station and a shopping center all located in the City of Norwich. The planned Microgrid also includes over 2,000 customers (or about 10% of NPU's system), consisting of numerous commercial healthcare and foodservice facilities and several entire residential neighborhoods.

The Greenville Dam and Occum Dam fish passages operated successfully during 2013. It was a very good season with larger numbers fish passing than previously recorded including American shad and alewives in addition to several other native species. NPU continued to work closely with DEEP on newly designed eel passages, pit tagging program and continued use of DEEP's Shad Truck to promote the migration of shad to new spawning grounds. For the first time, the further up river fish passage at Occum Dam also passed several American Shad. In March of 2013, NPU's Greenville and Occum Dams were certified by the Low Impact Hydro Institute (LIHI).

By year end 2014 NPU expects that the majority of its customers will be served by smart meters.

Jewett City Department of Public Utilities (JCDPU) is continuing the upgrading of its distribution network in an intended development of long-range system expansion and as part of this effort JCDPU is continuously gathering load data for future consideration and/or expansion. Any business expansion would involve underground cable installation. All of JCDPU customers are now served through smart meters.

Groton Utilities is continuing its long-term electric infrastructure improvement projects. A project to upgrade two of its incoming 115 kV ties to the bulk transmission grid is underway in collaboration with Northeast Utilities which owns the majority portion of these lines. This project involves replacement of poles and wires along existing right of way to avoid pole failure and cure clearance issues. GU now serves almost all its customers through smart meters and will add smart meters to Navy housing in 2014 coincident with a Navy program to add solar panels to Navy housing.

Voltage conversion is continuing throughout Groton Utilities' territory. As of January 1, 2012, 100% of the southern portion of the service territory primary distribution voltage has increased from 8.32 kV to 13.8 kV. The voltage conversion project consists of replacing aging poles, crossarms, insulators, lightning arrestors and fuse cutouts while increasing distribution line capacity. The voltage conversion project is scheduled to continue throughout the year 2014 in the areas of Navy Base Housing and Pleasant Valley Substation.

Bozrah Light and Power's Stockhouse Road Substation has recently undergone installation of a new 115 kV breaker and the installation of a new underground feeder. Of the six new permanent services installed four were built with underground electrical distribution facilities.

- (8) For each private power producer having a facility generating more than one (1) megawatt, and from whom CMEEC has purchased electricity during the preceding calendar year, provide a statement including the name, location, size, and type of generating facility, the fuel consumed by the facility, and the by-product of the consumption:

Generally, the customers in CMEEC Members service areas who have generating capacity greater than 1 MW retain the power for ongoing internal utilization and/or load management. Table VII summarizes major on-site generation capability at customer locations within the municipal service territories. CMEEC does not have formal arrangements in place to purchase power from those facilities at this time. Many of these customers, however, are asked to generate power and/or shed load during high load or emergency conditions as defined in NEPOOL's Operating Procedure #4.

TABLE I
 10-YEAR FORECAST OF RETAIL SALES BY CUSTOMER CLASS, ENERGY REQUIREMENTS AND PEAK DEMAND
 2014-2023

YEAR	Residential Service		Small General Service		Medium General Service		Large General Service		Other Service		Total Retail Sales		Mohegan Tribal Authority		Hydro Gener.		Subtrans. & Distri. Losses		Systems Energy Requirements Met by CMEEC		Historical CMEEC Summer Coincident Peak Demand		Historical CMEEC Winter Coincident Peak Demand		Load Factor %
	MWh Sales	MWh Sales	MWh Sales	MWh Sales	MWh Sales	MWh Sales	MWh Sales	MWh Sales	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	MWh	
2001	318,599	85,694	232,129	428,910	38,749	1,104,081	101,918	0	2,118	45,295	1,249,176	251.94	178.94	56.6											
2002	325,366	83,709	237,734	424,952	42,857	1,114,818	147,846	0	2,173	50,885	1,311,376	265.06	213.28	56.5											
2003	343,612	85,729	243,644	435,580	44,795	1,153,370	150,594	0	3,163	46,546	1,347,347	249.78	221.29	61.6											
2004	343,537	90,090	246,356	451,268	46,338	1,177,589	151,435	0	2,315	48,025	1,374,734	245.13	239.53	63.8											
2005	359,470	96,321	244,023	445,991	48,748	1,194,553	149,229	0	689	47,883	1,390,976	256.79	223.78	61.8											
2006	338,594	88,048	252,747	441,910	44,077	1,165,376	151,334	0	3,138	44,861	1,358,433	280.02	215.17	55.4											
2007	345,754	90,908	258,818	437,327	45,632	1,175,439	151,654	0	2,075	47,611	1,375,629	255.36	224.46	61.5											
2008	343,288	90,180	259,502	414,249	46,377	1,153,596	152,534	0	8,399	45,787	1,343,518	260.31	217.21	58.8											
2009	333,823	85,341	246,237	329,781	47,340	1,042,522	151,397	0	8,969	40,435	1,225,385	243.97	208.23	57.3											
2010	343,851	85,883	256,362	315,177	49,041	1,050,314	153,546	0	5,654	35,245	1,233,452	236.15	195.94	59.6											
2011	337,965	85,213	255,747	310,160	48,283	1,037,368	151,640	0	7,932	33,698	1,214,774	238.00	182.74	58.3											
2012	325,361	82,010	252,183	297,641	45,171	1,002,366	147,863	0	5,066	39,130	1,184,363	240.82	189.66	56.0											
2013	340,339	85,178	257,188	303,202	42,137	1,028,044	141,965	0	6,545	30,236	1,193,698	238.28	194.78	57.2											
2014	334,698	81,363	250,671	304,880	40,424	1,012,036	151,070	499	6,200	42,367	1,362,473	248.15	222.91	62.7											
2015	339,934	82,062	253,333	304,286	41,069	1,020,625	178,718	8,376	6,200	43,193	1,399,536	253.62	226.62	63.0											
2016	344,470	82,462	254,592	302,711	41,162	1,025,397	183,076	16,260	6,200	43,021	1,409,494	254.88	229.73	62.9											
2017	347,266	82,516	255,758	302,922	41,517	1,028,980	182,606	24,144	6,200	42,746	1,412,332	255.95	230.77	63.0											
2018	349,240	82,610	255,902	301,646	41,574	1,030,873	182,606	32,028	6,200	42,602	1,413,180	256.12	230.95	63.0											
2019	352,229	82,878	257,176	301,412	41,778	1,035,474	182,606	32,028	6,200	42,456	1,417,536	256.96	231.76	63.0											
2020	353,470	83,255	259,046	301,552	42,048	1,039,371	183,076	32,028	6,200	42,627	1,422,074	257.70	232.45	62.8											
2021	354,969	83,241	259,974	302,243	42,382	1,042,809	182,606	32,028	6,200	42,491	1,424,895	258.51	233.08	62.9											
2022	357,689	83,430	261,088	302,285	42,602	1,047,094	182,606	32,028	6,200	42,384	1,429,084	259.40	233.83	62.9											
2023	360,484	83,621	262,164	302,333	42,816	1,051,418	182,606	32,028	6,200	42,285	1,433,308	260.28	234.60	62.9											
Increase 2013-2023	0.56	-0.16	0.19	-0.03	0.16	0.23	2.55				1.85	0.89	1.88												

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

[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 and Bozrah noncoincident peak demands and multiplying by an average historical coincidence factor.

[3] The historical CMEEC coincident peak demands include the large interruptible customer AIRGAS (Bozrah). The forecasted CMEEC coincident peak demands were computed by summing all of the noncoincident peaks for each of CMEEC's Members/Participants

TABLE II

March 2014

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE (CMEEC)

SUMMARY OF CMEEC PEAK FORECASTS (1)

<u>Year</u>	<u>50/50 Peak Forecast</u>	<u>90/10 Peak Forecast</u>
2014	248.15	248.26
2015	253.62	255.37
2016	254.88	258.27
2017	255.95	260.99
2018	256.12	262.80
2019	256.96	263.65
2020	257.70	264.38
2021	258.51	265.19
2022	259.40	266.08
2023	260.28	266.96

(1) CMEEC developed its extreme weather forecast peak values by using the CMEEC summer peak forecast and applying an extreme weather scenario to arrive at the 90/10 forecast.

TABLE III

March 2014

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE (CMEEC)

**HISTORICAL ENERGY USE AND PEAK LOAD
2009-2013**

<u>Year</u>	<u>CMEEC Coincident Peak Load (MW) [1]</u>	<u>CMEEC Energy (MWh) [1]</u>
2009	243.97	1,225,385
2010	236.15	1,233,452
2011	238.00	1,214,774
2012	240.82	1,184,393
2013	238.28	1,193,698

[1] Reflects CMEEC Member loads inclusive of Bozrah and the Mohegan Tribal Utility Authority (MTUA) for 2009-2013.

TABLE IV

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE (CMEEC)

**EXISTING GENERATION FACILITIES OWNED BY
CMEEC AND ITS MEMBERS**

As of March 1, 2014

<u>Generating Facility</u>	<u>Winter Rating (MW)</u>	<u>Summer Rating (MW)</u>
Norwich Combustion Turbine (Oil-Fired) [1]	18.800	15.255
Pierce Generating Unit (Oil/Gas-Fired) [2]	97.000	77.500
Norwich Waste Water Treatment (Oil-Fired)	2.00	2.00
Norden 1 (Oil-Fired)	2.00	2.00
Norden 2 (Oil-Fired)	2.00	2.00
Norden 3 (Oil-Fired)	2.00	2.00
Norwich Second Street (Hydro)	[3]	[3]
Norwich Tenth Street (Hydro)	[3]	[3]
Norwich Occum (Hydro)	[3]	[3]

[1] Represents CMEEC current joint-ownership share. The full capability of the Norwich combustion turbine unit is under contract to CMEEC.

[2] Represents CMEEC current sole ownership share. The full capability of the Pierce generating unit is under contract to CMEEC.

[3] Winter and summer ratings are based on average river flow conditions. The nameplate rating for the Second Street hydro station is 0.95 MW. The nameplate rating for the Tenth Street hydro station is 1.00 MW. The nameplate rating for the Occum hydro station is 0.80 MW. These hydro units remain a resource of the Norwich Department of Public Utilities. The generations of these hydro units are used by Norwich to directly offset Norwich load.

TABLE V

As of March 1, 2014

MIX OF EXISTING GENERATION - CMEEC RESOURCES

<u>Unit Designation</u>	<u>In-Service Date</u>	<u>Net Winter Capacity (In MW) [1]</u>	<u>CMEEC Share (MW)</u>	<u>Net Summer Capacity (In MW) [2]</u>	<u>CMEEC Share (MW)</u>	<u>CMEEC Percent of Unit (%)</u>
<u>Long-Term System & Asset Contracts [3]</u>						
Base System Purchase		70.00	70.00	53.00	53.00	
Base Unit Entitlement Purchase		25.00	25.00	25.00	25.00	
On-Peak System Purchase		15.00	15.00	13.00	13.00	
Total System Contracts		110.00	110.00	91.00	91.00	
<u>Municipal Generation</u>						
Norwich Combustion Turbine	1972	18.80	18.80	15.25	15.25	100.00
Norwich Waste Water Treatment	2008	2.00	2.00	2.00	2.00	100.00
Pierce Generation Unit	2007	97.00	97.00	77.50	77.50	100.00
Norden 1	2009	2.00	2.00	2.00	2.00	100.00
Norden 2	2009	2.00	2.00	2.00	2.00	100.00
Norden 3	2009	2.00	2.00	2.00	2.00	100.00
Total Municipal Generation		123.80	123.80	100.75	100.75	
TOTAL CMEEC CAPACITY RESOURCES			233.80		191.75	
<u>Other Resources</u>						
NYPA Hydro (Firm & Peaking) [4]			13.20		13.20	NA
Short-Term Purchases [5]			Varies		Varies	NA
CMEEC's 50 in 5 Units [6]			40.00		40.00	

[1] Represents NEPOOL Winter Maximum Claimed Capability.

[2] Represents NEPOOL Summer Maximum Claimed Capability.

[3] System Purchases, Contract Purchases & Unit Entitlement Purchases from several counterparties.

[4] Represents maximum hourly contract deliveries to CMEEC. New York Power Authority (NYPA) hydro purchases began July 1, 1985. Energy contributions from NYPA are considered to be firm contracts and used to reduce electric requirements thereby reducing CMEEC Capability Responsibility in NEPOOL.

[5] The MW amounts shown for Short-Term Purchases vary from month to month from 0 MW to 25 MW through December 2014.

[6] Represents the CMEEC MicroGen Units which are currently commercially operating. Seven (7) 2.50 MW units are located in Groton, two (2) 2.50 MW units are located in Norwich, one (1) 2.50 MW unit is located in Jewett City, two (2) 2.50 MW units are located in Lebanon, CT and four (4) 2.50 MW units are located at the Mohegan Tribal Utility Authority. Additional 2.5 MW units are in the planning stages will be forthcoming and will be added to CMEEC's

overall resource mix. These resources will be used for demand reduction purposes and are not anticipated to be enrolled in the ISO New England markets.

TABLE VI

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE

March 2014

Anticipated Unit Retirement Dates

	<u>Retirement Date</u>
<u>Conventional Hydro</u>	
Norwich Tenth Street Hydro	Not Scheduled
Norwich Second Street Hydro	Not Scheduled
Norwich Occum Hydro	Not Scheduled
<u>Peaking</u>	
Norwich Combustion Turbine	Not Scheduled
Pierce Generating Unit	Not Scheduled
Norwich Waste Water Treatment	Not Scheduled
Norden 1	Not Scheduled
Norden 2	Not Scheduled
Norden 3	Not Scheduled

Table VII

Connecticut Municipal Electric Energy Cooperative (CMEEC)

**COGENERATION & SMALL POWER PRODUCTION FACILITIES
GREATER THAN 1 MW IN TOTAL SIZE [1]**

March 2014

<u>Facility Name</u>	<u>Facility Type</u>	<u>Facility Location</u>	<u>No. Of Units</u>	<u>Prime Mover</u>	<u>Type Fuel</u>	<u>Summer & Winter Capacity</u>	<u>Years Installed</u>
Pfizer, Inc.	Cogeneration	Groton CT	5	Steam Turbine	Turbine Fuel	39,700 kW	1948, 1950 1993, 2001 & 2009
U.S. Naval Sub Base	Cogeneration	Groton CT	1	Steam Turbine	Duel Fuel	5,000 kW	1996
			1	Diesel Engine	#2 oil	1,500 [2]	1960 (est.)

[1] The customer retains power from each of these facilities.

[2] This diesel generator is used to provide black start capability.