

CONNECTICUT
MUNICIPAL ELECTRIC
ENERGY COOPERATIVE



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June 25, 2009

Ms. Gretchen Deans
c/o CERC
805 Brook Street, Building 4
Rocky Hill, CT 06067-3405

Dear Ms. Deans:

The Connecticut Municipal Electric Energy Cooperative (CMEEC) herewith submits responses to Interrogatories 1 through 5 and 29 through 34 from the CEAB in conjunction with Docket No. F-2009 – *Connecticut Siting Council Review of Connecticut Electric Loads and Resources*.

Twenty (20) copies of CMEEC's responses are also being submitted directly to the Connecticut Siting Council.

Very truly yours,

A handwritten signature in black ink that reads 'Julie Cammarata'. The signature is fluid and cursive, written over the printed name.

Julie Cammarata, Director
Government and Regulatory Affairs
Connecticut Municipal Electric Energy Cooperative

Enclosures

Serving Public Power in Connecticut

Groton
Utilities

Jewett City
Dept. of Public Utilities

Norwich Public
Utilities

Norwalk Third Taxing
District Electrical
Department

South Norwalk
Electric and Water

Town of Wallingford
Department of Public
Utilities

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-1-CMEEC Please provide a detailed description of the methodology by which the energy and peak demand forecasts contained in your initial filing in this proceeding were prepared.

A-CEAB-1-CMEEC The forecast presented in Table I contains each of CMEEC's member and participant systems' requirements and a summed total summer and winter coincident peak demand for CMEEC.

CMEEC first develops a five-year forecast of total system energy requirements and peak demands for each of its member and participant systems based upon a regression and time series analysis of historical energy and peak demand. The results are then extrapolated to customer groupings utilizing historical relationships between the residential, small, medium and large general service categories energy usage and total system requirements.

The forecasted CMEEC system energy requirements are computed by summing the individual member and participant systems' component forecasts. The forecasted monthly CMEEC summer and winter coincident peak demands are then computed by summing the individual member and participant systems' non-coincident peak demands and multiplied by an average monthly historical coincidence factor. To the extent an impact or trend is reflected in past data it is captured in the current forecasting approach with adequate accuracy. Going forward however, the growing impact of CMEEC and its member and participant systems' conservation programs and soon-to-be-implemented sharp changes in ISO New England's (ISO-NE) non-generation market programs will require a return to a multi-factor forecasting methodology to meet our accuracy needs. These changes in forecast methodology are expected to be in place next year and will more explicitly capture the impacts of weather, appliance saturation, conservation programs, and economic change.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-2-CMEEC Please provide the number of MW and customers in your service territory that are currently enrolled in ISO-NE Demand Response Programs.

A-CEAB-2-CMEEC As of June 1, 2009, there were 13 customers with a total of 39.80 MW enrolled in the 30-Minute Real-Time Demand Response Program (without generation – i.e. load reducers), 14 customers with a total of 13.59 MW enrolled in the 30-Minute Real-Time Demand Response Program (emergency generation – i.e. generators), and 2 customers with a total of 2.8 MW enrolled in the Price Response Program.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

- Q-CEAB-3-CMEEC Please provided the number of MW and customers in your service territory that (a) cleared in FCA2 as a real-time demand response or profiled response customer, or (b) cleared in FCA2 as an "other demand resource" (ODR).
- A-CEAB-3-CMEEC As a result of the Forward Capacity Auction #2 (FCA2), one real-time demand response customer within CMEEC's member and participant systems' territories cleared with a total of 0.459 MW. No customers cleared as profiled response customers in FCA2. One efficiency project consisting of 8.681 MW cleared as an ODR, which was spread over thousands of customers within CMEEC's member and participant systems' service territories.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

- Q-CEAB-4-CMEEC Please describe and show the calculations underlying the load factor forecasts found in CL&P's Table 2-1, UI's Exhibit I and CMEEC's Table I.
- A-CEAB-4-CMEEC CMEEC develops individual peak demand forecasts and total system energy forecasts for each of CMEEC's member and participant systems. The energy forecasts are added together to arrive at the total CMEEC system energy requirements. The system peak demand forecasts are likewise added together (non coincident) and are adjusted by a historical average coincidence factor to arrive at the CMEEC coincident peak demand forecast. The load factor calculations shown in CMEEC's Table I are computed by dividing the total projected annual system energy requirements by the product of the forecasted annual system coincident peak demand (either summer or winter) and the number of hours in the year.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-5-CMEEC

Please provide a copy of your ten-year plan for infrastructure improvements in Connecticut.

A-CEAB-5-CMEEC

The following is a brief synopsis of infrastructure improvements planned over the next 10 years:

There are plans to install a ring bus for the Buddington Substation in Groton. Timing is contingent on Northeast Utilities' plans for upgrading the 400 line from Montville station to Groton from its current rating of 69kV to 115 kV, which are currently on hold along with other related upgrades to CL&P's sub transmission lines in Southeastern Connecticut. These improvements are needed in part to better support key defense and industrial installations in Southeastern Connecticut.

SNEW and TTD currently receive power via sub transmission lines at 27.6 kV out of the CL&P Norwalk 9S substation. While this facility was recently rebuilt as part of the 345 program, the ties from this facility that serve the CMEEC member and participant systems are not adequate to meet the long-term needs of these utilities. Options under consideration for future service include construction of a new SNEW- and/or TTD-owned 115kV substation that will tie directly to the area 115kV grid. In the interim, CL&P is positioning a transformer at another substation to serve SNEW's growing needs and, through displacement, permit CL&P to better meet its other local obligations. SNEW, TTD and CL&P are working cooperatively to identify least-cost alternatives to meeting load growth and addressing aging equipment replacement in the Norwalk area, as well as plans for the development of a new renewable resource generating unit in South Norwalk.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

- Q-CEAB-29-CMEEC Please indicate whether the forecasts in Table 1 in the CMEEC Forecast of Electric Loads & Resources 2009-2018, March 2009 ("CMEEC filing) correspond to normal ("50/50") weather and economic activity conditions, or extreme ("90/10") weather and economic activity conditions.
- A-CEAB-29-CMEEC The reference forecast as presented in Table I in the CMEEC filing of March 2009 corresponds to normal ("50/50") weather and normal economic conditions. CMEEC's extreme (90/10) forecast as shown in CMEEC's response to CSC question #1 dated May 14, 2009, reflects extreme weather and economic activity.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-30-CMEEC Please indicate whether the forecast in Table 1 assumes power production from the facilities shown in Table VII.

A-CEAB-30-CMEEC Yes. The CMEEC forecast reflected in Table I assumes that power production from these facilities is available throughout the forecast period at current levels. However, CMEEC is aware that there are plans to replace and retire some of these facilities. As these plans mature, forecasts will be adjusted accordingly.

Connecticut Municipal Electric Energy Cooperative
CEAB Docket No. F-2009

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Dated June 11, 2009
CEAB-31 Page 1 of 1

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

- | | |
|-----------------|---|
| Q-CEAB-31-CMEEC | Please provide a detailed description of the methodology by which the energy and peak load forecast contained in Table I of the CMEEC filing were prepared. |
| A-CEAB-31-CMEEC | Please refer to CMEEC's response to CEAB-1. |

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-32-CMEEC Please provide a table showing customer emergency generation and load reduction, referred to in the CMEEC filing under Item 8, identifying the individual customers and their load reduction responsibility.

A-CEAB-32-CMEEC The following table summarizes customer emergency generation and load reduction. CMEEC has not been authorized by these customers to release their names and corresponding load reduction responsibilities.

| Resource Type | No. Customers | MW |
|----------------------|---------------|---------------|
| Emergency Generation | 14 | 13.591 |
| Load Reduction | 13 | 39.796 |
| Total | 27 | 53.387 |

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-33-CMEEC Please provide the annual forecast of the impacts from the C&LM programs referred to on page 2 of the Introduction in the CMEEC filing and whether it is included in or excluded from the forecast in Table 1. Please provide the data annually in the following form (a) total system energy requirements, (b) summer peak, (c) for total C&LM, (d) conservation impacts only, and (e) load management impacts only, and (e) the effective load factor of C&LM programs.

A-CEAB-33-CMEEC The Table presented in CMEEC's response to CSC Data request "CSC-5_CMEEC," which is reproduced below¹, shows a breakdown of projected annual peak load reductions from conservation, load response, load management, and distributed generators. The "Conservations Reductions" shown in the third column of the Table are included in the CMEEC filed CSC forecast. The values for load response, load management and distributed generation shown in columns 4 and 5 of the table are excluded from the forecast.

| Year | Annual Peak (MW) | Conservation Reductions (MW) [1] | Load Response Load Management Reductions (MW) [2] | Distributed Generation Reductions (MW) [3] | Total Load Reductions (MW) |
|------|------------------|----------------------------------|---|--|----------------------------|
| 2009 | 371 | 5 | 48 | 0 | 53 |
| 2010 | 372 | 7 | 11 | 32 | 50 |
| 2011 | 383 | 9 | 11 | 50 | 71 |
| 2012 | 387 | 11 | 3 | 50 | 64 |
| 2013 | 394 | 13 | 3 | 50 | 66 |
| 2014 | 403 | 15 | 3 | 50 | 67 |
| 2015 | 405 | 17 | 3 | 50 | 70 |
| 2016 | 407 | 19 | 3 | 50 | 72 |
| 2017 | 410 | 21 | 3 | 50 | 74 |
| 2018 | 413 | 23 | 3 | 50 | 76 |

¹ In CMEEC's response to CSC's May 14, 2009 interrogatories (CSC-5 CMEEC), the Total Load Reductions (MW) column included the wrong values for years 2009 and 2010. A corrected table has since been submitted by CMEEC to the CSC. The reproduced table included here contains the corrected information.

Table Notes

[1] Reflects impacts from budgeted conservation and load management activities for 2009. Conservation and load management budgets are expected to increase by roughly 5% per year in 2010 and 2011 and remain constant thereafter.

[2] For 2009, customers participating in the ISO-NE Real-Time Demand Response program and CMEEC administered program total 48 MW. For 2010 and beyond, customers totaling only 3 MW have agreed to participate in the ISO's Forward Capacity Market as Demand Resources. Customers totaling 9 MW have agreed to participate in the CMEEC administered load response program for 2010 and 2011. The extent to which customers that formerly participated in the ISO-NE Real-Time Demand response program will want to participate in the CMEEC-administered programs in 2010 and beyond remains to be determined and has not been included in this response.

[3] CMEEC has committed to seek installation of up to 50 MW of small (less than 2 MW) distributed generation resources at municipal and customer sites within the municipal systems' service territories over the next 5 years. These resources would be used to reduce the municipal system peaks during hours coincident with the regional monthly and annual peaks. Permits for 32 MW have been received or are pending from the council and the DEP. CMEEC expects full implementation of these resources by summer of 2011.

Witness Responsible: Gabe Stern

RESPONSE TO CEAB DATA REQUEST Dated June 11, 2009

Q-CEAB-34-CMEEC Please explain how the C&LM programs referenced in the above question relate to the statement on page 7, under Item 8 "At the present time, CMEEC has enrolled approximately 71 MW of customer emergency generation and load reductions."

A-CEAB-34-CMEEC The 71 MW listed under Item #8 in CMEEC's March 1, 2009 filing includes both customer enrollment in ISO-NE Load Response programs and additional load reductions CMEEC has arranged. The lower values shown in response to CEAB Question #32 represent only ISO-NE-enrolled MW.

Note that two more customers have signed up for the ISO-NE Load Response programs since CMEEC's March 1, 2009 filing in this docket. The customers' MW values are reflected in CMEEC's response to CEAB Question #32, but not included in the 71 MW listed under Item #8.