

Join Concord Light's **Concordians Addressing the Peak** (CAP) Google Group to help reduce the Town's summer electrical peak and cost of electricity to the town. With the Subject and Body blank, simply send an email to:

Cmlp-cap+subscribe@googlegroups.com

Google Groups will automatically send a reply requesting a verification of the request. This is a one-way email system so members can only receive emails from this site.

September 2011

Greetings CAP Google Group Members,

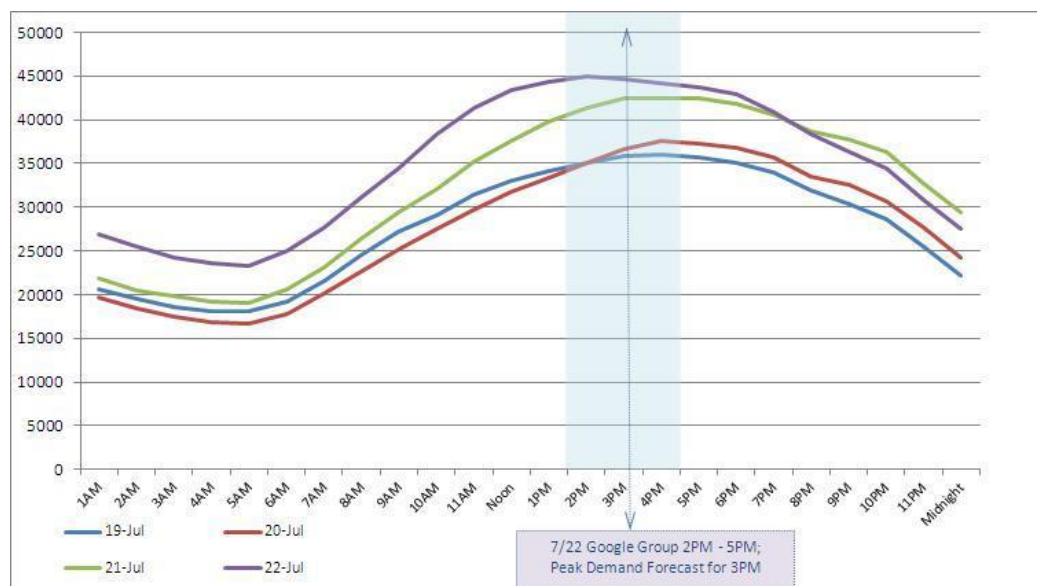
Now that fall is on our doorstep, we will not likely see the hot and humid weather needed for us to exceed the peak demand Concord reached on July 22nd. We are happy to report that with your help we reduced our peak demand hour by approximately 2,286 kilowatts for the summer of 2011 — equal to about 4,115 small room air conditioners.

In terms of our Forward Capacity payment to the ISO for 2012, the annual savings to the town will be over \$80,000! (Note: We anticipate that the current rate charged by the ISO – Independent System Operator of the electrical grid- will increase significantly over the next few years greatly enhancing savings)

We only sent out 3 notices this summer asking Concord residents to reduce electrical use; June 9, July 12, and July 21 (for both July 21 and July 22). New England's hourly peak occurred on July 22 between 2PM - 3PM with a peak of 27,727,000 kilowatts; and Concord's peak that same hour was 44,579 kilowatts. Last summer, New England's peak was 27,066,000 kilowatts and Concord's was 44,233 kilowatts.

Our Google Group membership increased from 262 members last summer to 372 members not including the links from our group to other groups, so our actual membership is likely much larger.

There is no easy way to quantify the results of the Google Group's efforts because no two days are the same — neither weather wise, nor in terms of electrical loads —



but the graph below depicts the demand curves for four days during the week the peak occurred.

Notice there is little or no reduction in the slope of each line within the shaded block [which represents your curtailment efforts between the hours 2PM – 5PM] except on the 22nd.

In fact, demand steadily decreased during that time as we hit the peak demand hour. Our demand would have been considerably higher without your participation in this program. The chart below compares Concord’s demand readings for July 19, 20, and 22 along with other data.

2011 Peak Demand Hour

	7/19/2011 Demand (kW)	% Change by Hour	7/20/2011 Demand (kW)	% Change by Hour	7/22/2011 Demand (kW)	% Change by Hour
1PM	34051		33330		44378	
2PM	35002	2.8%	35132	5.4%	45019	1.4%
3PM	35859	2.4%	36674	4.4%	44579	-1.0%
4PM	35989	0.4%	37539	2.4%	44179	-0.9%
5PM	35715	-0.8%	37258	-0.7%	43743	-1.0%
6PM	35096	-1.7%	36782	-1.3%	42843	-2.1%

Thank you again for participating in our 2011 CAP Google program aimed at reducing electrical use during the annual peak demand hour, and we hope for your continued support next summer.

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http://www.concordma.gov/pages/ConcordMA_LightPlant/Summer%202011%20Final%20Peak%20Demand_09192011.pdf

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7/19/2011 Demand (kW) % Change by Hour

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7/22/2011 Demand (kW) % Change by Hour

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2PM	45019	1.4%
3PM	44579	-1.0%
4PM	44179	-0.9%
5PM	43743	-1.0%
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