

## Summer 2011 - Results of the Concord Light Google Group efforts

We sent the following results to all our Google customers who helped to reduce the peak demand for electricity this summer and thought you might be interested in seeing the results too:

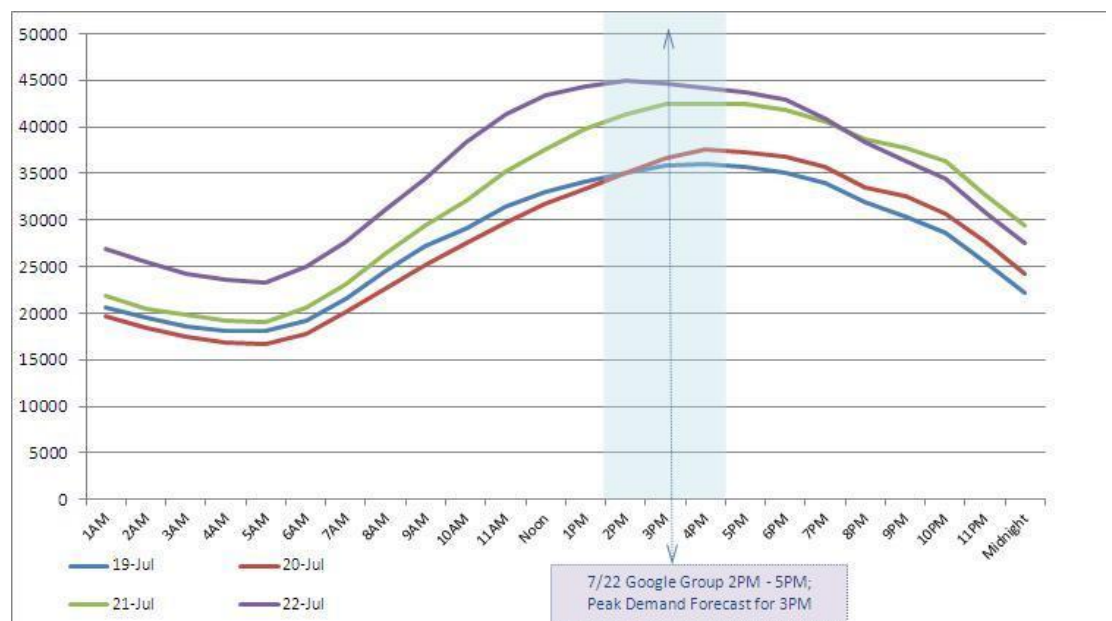
We are happy to report that with your help, we reduced our peak demand hour by approximately 2,286 kilowatts for the summer of 2011 — equal to about 4,115 small room air conditioners. In terms of our wholesale electricity costs for 2012, the annual savings to the town will be over \$80,000 as a result of our curtailment efforts! (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 9th, July 12th, and July 21st (for both July 21st and July 22nd). New England's hourly peak occurred on July 22nd 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 375 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 to the left 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 19th, 20<sup>th</sup>, and 22nd 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 those of you who participated 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.