

# DRAM

DEMAND RESPONSE *and* ADVANCED METERING Coalition

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**Supplemental Comments  
Of  
Demand Response and Advanced Metering Coalition  
To  
Illinois Commerce Commission  
On  
Implementation of a Sustainable Energy Plan**

**May 25, 2005**

## **Introduction**

The Demand Response and Advanced Metering Coalition (DRAM) has previously provided comments to the Commission in this proceeding. DRAM continues to look to the proceeding as an important, precedent-setting policy effort, and continues to applaud and support the Commission for its foresight in including demand response along with renewables and efficiency in the portfolio of options that it seeks to be deployed to implement the Sustainable Energy Plan.

As the Commission continues to move forward in this proceeding and as it explores ways to establish a renewable energy credit (REC) tradable market, DRAM wishes to supplement its earlier comments with this informational filing. With demand response being a relatively new discipline and issue area (notwithstanding past load control and load management programs and activities across the U.S.), information about demand response technologies, how they can be deployed and what their benefits are is not as widely available as is the case with other areas like energy efficiency and renewables. DRAM, an organization of demand response technology and service companies, is focused on education and information dissemination on demand response and its enabling technologies. In line with this objective, DRAM submits this supplemental filing to provide the Commission with an additional resource in this area.

## **Demand Response Resources**

No comprehensive online resource on demand response exists at present. Yet there are several acknowledged resources that have conducted work in this area and which provide access to reports, studies, case studies and other information. One of the best sources of up-to-date information is also the online resources of companies providing demand response products and services, such as those companies that are members of the DRAM Coalition.

*Sources of Online Information about Demand Response*

### *Lawrence Berkeley National Laboratory (LBL)*

LBL is recognized as the leader among the various government laboratories in demand response research. It has undertaken numerous studies and has issued many reports, most recently on the issue of large customers and real time pricing. The demand response section of the LBL web site can be found at <http://eetd.lbl.gov/EA/EMP/drlm.html>.

### *Demand Response Research Center (DRRC)*

The DRRC, as it is known, is a new entity that is devoted to research on demand response technologies and how they are deployed in programs and markets. More on the DRRC can be found at <http://drcc.lbl.gov/>.

### *California Energy Commission (CEC)*

California, both from a state perspective and in terms of its individual utilities, is acknowledged to have undertaken both a wide variety and a large volume of demand response activities. Most notable as of late is the Statewide Pricing Pilot – a highly structured research program conducted over the course of 2003 and 2004 that involved Critical Peak Pricing and Automated Demand Response technologies. The following location at the California Energy Commission (CEC) is a starting point for reviewing California demand response efforts <http://www.energy.ca.gov/demandresponse/index.html>

### *New York State Energy Research and Development Authority (NYSERDA)*

NYSERDA has been a leader in the country in developing and implementing both research and implementation programs with a demand response focus. NYSERDA is the administrator of system benefit funds in New York and has included demand response technologies and deployments in the activities funded by such. Information on NYSERDA's demand response efforts can be found at <http://www.nyserda.org/programs/demandresponse.asp>

### *New England Demand Response Initiative (NEDRI)*

While no longer active, NEDRI was an intensive effort over the course of 2002 and 2003 to bring together stakeholders from the six New England States to engage in a dialogue to identify barriers to demand response, solutions to overcome them, and policy modifications that might be made to support such. A number of reports and studies were done as part of the NEDRI effort, and all is available at <http://nedri.raabassociates.org/>

### *Mid-Atlantic Distributed Resource Initiative (MADRI)*

MADRI is an effort currently underway that involved regulators and stakeholders from PA, DC, DE, MD, NJ and DC. Whereas NEDRI had a comprehensive, global focus that touched upon all demand response issues, the MADRI effort has, at least initially, chosen to focus on certain areas such as interconnection of distributed generation and deployment of advanced metering and communications. Information that has been provided to or developed by the MADRI effort can be viewed at <http://www.energetics.com/MADRI/>

### *General Accounting Office (GAO)*

The General Accounting Office is the investigative arm of the U.S. Congress and works to conduct research on timely issues that are begin faced by policy makers. At the request of the U.S. Senate, the GAO recently produced a report on demand response. It can be accessed at <http://www.gao.gov/new.items/d04844.pdf>

### *Energy Foundation*

The Energy Foundation funds work by governmental and non-profit organizations on energy efficiency and renewable energy among other areas. In 2003, it funded a report entitled “Dynamic Pricing, Advanced Metering and Demand Response in Electricity Markets. The report contains a good overview of past research done in this area and covers some of the recent programmatic efforts in this area. The report can be found at <http://www.ef.org/documents/DynamicPricing.pdf>

### *Demand Response Companies*

The DRAM Coalition includes companies which manufacture technologies that enable demand response products and programs to be offered, such as advanced metering and communications technologies and “smart” automated control technologies. Some DRAM members also provide demand response services whereby they work directly with electricity end use customers to achieve load reductions and modifications so as to deliver such in the aggregate to load serving entities and system operators. The web sites of each of the companies provides information about their technologies and how they are deployed in demand response applications

### **Electric City Corporation**

[www.elccorp.com](http://www.elccorp.com)

### **eMeter**

[www.emeter.com](http://www.emeter.com)

### **DCSI**

[www.twacs.com](http://www.twacs.com)

### **Invensys GoodWatts**

[www.goodwatts.com](http://www.goodwatts.com)

### **Comverge**

[www.comverge.com](http://www.comverge.com)

### **Echelon**

[www.echelon.com](http://www.echelon.com)

### **Landis + Gyr**

[www.landisgyr.com](http://www.landisgyr.com)

**MeterSmart/EMON**

[www.metersmart.com](http://www.metersmart.com)

**Elster Electricity**

[www.elsterelectricity.com](http://www.elsterelectricity.com)

**SmartSynch**

[www.smartsynch.com](http://www.smartsynch.com)

**Hunt Technologies**

[www.turtletech.com](http://www.turtletech.com)

**Silver Spring Networks**

[www.silverspringnetworks.com](http://www.silverspringnetworks.com)

**Demand Response and Advanced Metering Coalition (DRAM)**

DRAM thanks the Commission for this opportunity to provide additional information to it as part of this proceeding. We stand ready to provide more information as it continues. Any questions regarding this submittal may be directed to:

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