

## Missouri Public Service Commission

### Data Request

<b>Data Request No.</b>	0068
<b>Company Name</b>	Trigen-Kansas City Energy Corporation-(Steam/Heat)
<b>Case/Tracking No.</b>	HM-2004-0618
<b>Date Requested</b>	10/05/04
<b>Issue</b>	Mergers - Other Merger Issues
<b>Requested From</b>	Paul S. DeFord
<b>Requested By</b>	Phil Williams
<b>Brief Description</b>	Please provide brochures and pamphlets describing chilled water services provided by Trigen Missouri.
<b>Description</b>	Please provide brochures and pamphlets provided by Trigen Missouri to prospective or potential customers and visitors to Trigen's facilities.
<b>Due Date</b>	10/25/04

The attached information provided to Missouri Public Service Commission Staff in response to the above data information request is accurate and complete, and contains no material misrepresentations or omissions, based upon present facts of which the undersigned has knowledge, information or belief. The undersigned agrees to immediately inform the Missouri Public Service Commission Staff if, during the pendency of Case No. HM-2004-0618 before the Commission, any matters are discovered which would materially affect the accuracy or completeness of the attached information.

If these data are voluminous, please (1) identify the relevant documents and their location (2) make arrangements with requestor to have documents available for inspection in the Trigen-Kansas City Energy Corporation-(Steam/Heat) office, or other location mutually agreeable. Where identification of a document is requested, briefly describe the document (*e.g.*, book, letter, memorandum, report) and state the following information as applicable for the particular document: name, title number, author, date of publication and publisher, addresses, date written, and the name and address of the person(s) having possession of the document. As used in this data request the term "document(s)" includes publication of any format, workpapers, letters, memoranda, notes, reports, analyses, computer analyses, test results, studies or data, recordings, transcriptions and printed, typed or written materials of every kind in your possession, custody or control or within your knowledge. The pronoun "you" or "your" refers to Trigen-Kansas City Energy Corporation-(Steam/Heat) and its employees, contractors, agents or others employed by or acting in its behalf.

<b>Security</b>	Public
<b>Rationale</b>	NA

**With Proprietary and Highly Confidential Data Requests a Protective Order must be on file.**

**MPSC Data Request No. 68**

**Response to MPSC Data Request No. 68:**

The two page document attached hereto as Appendix A constitutes the only material requested.

# **Attachment A**

# DISTRICT COOLING

## 10 KEY QUESTIONS ABOUT COMMUNITY ENERGY

### What is District Cooling?

For most of the past century, "community energy" — the process of producing energy in a central facility and then distributing it to multiple buildings — has been used to describe District Heating. More recently, this concept has been expanded to include "air conditioning" as well; a large amount of water is cooled by large, industrial chillers and then piped to buildings on the system.

### Is District Cooling as comfortable?

Most building tenants wouldn't know the difference . . . until they notice that air conditioning is immediately available "on demand." While individually owned chillers typically require a cool-down period for some time after start-up, Trigen cooling customers have immediate access to chilled water 24 hours a day, 365 days a year. This makes District Cooling an ideal solution for our unpredictable springs and falls . . . and those unseasonably warm winter days that are so frustrating to most building managers!

### Is it more expensive?

No, it often provides significant savings. By hooking up to Trigen's District Cooling System, a building owner can eliminate many of the costs needed to maintain and operate on-site chillers and cooling towers — especially high-cost peak-demand electricity and labor intensive chiller maintenance, as well as costs for refrigerant and insurance.

For new buildings, the savings are indisputable. The owner can avoid the capital costs for the chiller and cooling tower as well as the associated interest payments, property taxes and insurance costs. In addition, with the absence of chilling equipment and cooling towers, the architect saves the central plant space and has considerably more leeway in design.

### Why compare to "peak-demand" electricity?

In the Midwest, the highest electrical usage (peak load) occurs on the hottest summer days, as cooling equipment works to keep buildings comfortable. This is typically when electricity is most

expensive to purchase and produce. District Cooling offers direct savings on the cost of electricity to those facilities on the system. In addition, by helping "level" the load in the community, District Energy can help the local utility avoid the costs of expanded capacity (whether through expensive, spot market purchases or new power plant construction).


### But doesn't Trigen add to the electricity demand, too?

No. This is especially true for the three 2,000-ton chillers at our Grand Avenue Station. These machines, powered by low-cost, coal-fired steam, help flatten the plant's load profile in the summer months.

It's also important to remember that individual building chillers are usually sized to meet the maximum cooling needs. For that reason, most generally operate at less efficient, partial-load levels. By sharing this capacity among multiple facilities, Trigen can help make more efficient use of this electricity, too.

### Trigen Mission Statement

Our mission is to provide heating, cooling and electricity with half the fossil fuel and half the pollution of conventional generation.



### Will my cooling costs continue to swing as widely as they do?

Your costs will be based on a contract rate that is determined by your facility and estimated cooling load. Most of the contracts are from 10 to 20 years in length. Usage is monitored monthly.

### How have you dealt with CFC phase-outs?

We've avoided CFCs since our system was launched. More importantly, we've helped the owners and managers of buildings on our system avoid grappling with alternative refrigerants, too — along with the associated licensing, ventilation, monitoring and handling concerns they bring.

### How does your reliability compare with that of an on-site system?

Few on-site systems could match the level of redundancy or support that Trigen has

committed to its system. As already noted, we have multiple chillers available and a switch to a back-up unit would not even be sensed at an individual building. Operators are on duty 24 hours a day to monitor the chillers and piping system. We have also invested heavily in ensuring system reliability and continue to take a proactive approach to system maintenance.

### Is your production facility a threat to Downtown air quality?

No. In fact, just the opposite is true. For one thing, one large plant produces less air pollution than a number of smaller chillers and cooling towers operating at lower efficiencies. For another, we have maintained state-of-the-art emission monitoring

equipment that far exceeds our permit requirements . . . a commitment we intend to continue well into the future!

### How does your system compare in terms of fuel efficiency?

Conserving energy is at the core of the Trigen mission, and we take particular pride in our accomplishments in this area. Our company has developed numerous technical innovations in both generation and distribution, several of which are patented. Many of these involve the combined production of heat and power (CHP plants) which can double — or even triple — fuel efficiency as compared to conventional generation.

**TRIGEN**

Missouri  
Energy Corporation

