

A QUARTERLY NEWSLETTER

Pavilions update :

The Pavilions project in Houston is underway. A piping contractor has been selected and will begin construction early September.

St Joseph Church:

St. Joseph Church in New Orleans began receiving chilled water in July, approximately 3 months after the church completed their design work. The church had its first conditioned service since Hurricane Katrina hit two years ago.

Growth of IDEA space:

If you are interested in the District Energy growth in the US and internationally go to the International District Energy Association web site at : www.districtenergy.org

HR Interests:

According to Charlotte Roberts executive consultant of Blue Fire Partners, author of *The Fifth Discipline Field Book* and who lectured at the recent IDEA conference in Scottsdale AZ ; the Top Hardest Positions to fill in the next 5 years will be:

1. Sales Reps
2. Teachers
3. Mechanics
4. Technicians
5. Management Executives

Interesting insight, this might be something to be preparing for in your organization .

Entergy's Cool Solutions

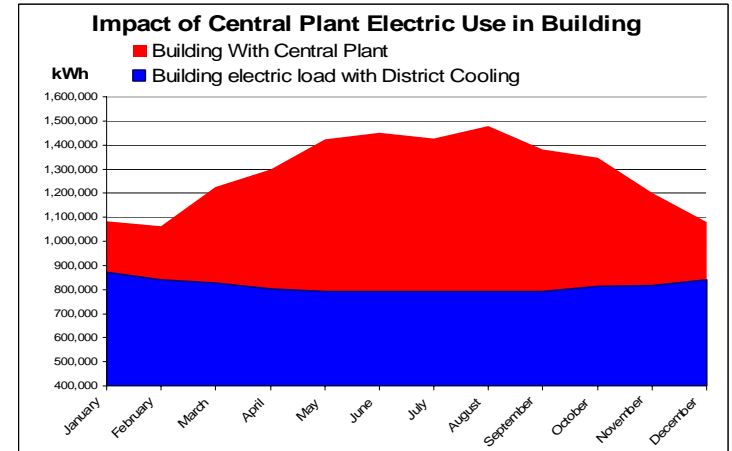
environmental conditioning with care

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Load Factor Savings

Load Factor Savings:

In addition to the electrical savings you realize from not operating a plant, you get a significant benefit because of the "shape" of the remaining building electrical load. With a central plant, your building hits its electrical peak in the summer when power is at a premium. You pay the equivalent of a penalty each month of the year because you needed your peak power when power was most valuable and the grid was most congested. These charges commonly referred to as "TDSP" charges in Texas, are from the local utility and ac-



count for a significant percentage of your bill. As shown in the chart, the load for a typical commercial office building with a central plant has a greater peak demand than with a building connected to a district system. This load factor improvement means that all of the power you purchase for the base load of your building will be at a lower cost.

Are Your Utility Bills Rising Because Of Inadequate Preventive Maintenance?

Your building HVAC system, when not properly maintained, can affect utility costs. The problem most often found are dirty air filters. When the filters are clogged the air flow is restricted to a point where the time to reach the desired area set point could be doubled.

Another problem found in chilled water systems is improperly balanced water flow through air handler coils. The coils are designed for a specific amount of water-usually in gallons per minute. When the water moves too fast through the coil the heat transfer is reduced. Again it takes a longer amount of time to reach the desired set point in the room. This can also occur if the building circulation pumps are not balanced to their designed gallons per minute of flow. Air flow through the coil moving at a higher speed than it is designed for will have the same affect.

Recently the District Cooling Plant in Houston did a spot check of the chilled water sys-

tems on each customer's building. Some were found to have an inadequate amount of chemical treatment in their chilled water. If the chemicals are not maintained at an optimum level, scaling or biological growth can occur on the walls of the piping, coils and heat exchangers. As the fouling layer becomes thicker, the heat transfer is reduced, and the building is required to use more ton/hours of cooling than needed to reach the desired system temperature.

Replace air filters when dirty. Check the chilled water chemical concentration monthly or after any major loss of water in the system. Check the flow settings of pumps and air handlers annually. Preventive Maintenance will save on your utility bills and will help keep repair costs low.

What are the possibilities for your building ?



Above are two similar Condo Towers built in Dhabi, one with District Cooling and one without. The building with District Cooling allowed the developer to be creative on the roof top with recreational amenities. The other building had cooling towers. So where would you want to stay?



Entergy Cool Solutions

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425 West Capitol Avenue
Little Rock, AR 72203

Phone: 501-377-5445

Fax: 501-377-3549

E-mail: smarti4@entergy.com

Environmental Conditioning with Care

History of District Energy Technology



Birdsill Holly

District heating traces its roots as far back as the popular hot water-heated baths and greenhouses of ancient Rome. District systems gained prominence in Europe during the Middle Ages and Renaissance, with one system in France in continuous operation since the 14th century. Across the Atlantic, the U.S. Naval Academy in Annapolis began steam district heating service in 1853.

Although these and numerous other systems have operated over the centuries, the first commercially successful district heating system was launched in Lockport, N.Y., in 1877 by American hydraulic engineer Birdsill Holly, considered the founder of district heating.

In his day, Holly was widely known as an inventor and entrepreneur. He held 150 patents during his lifetime, second in number only to his friend Thomas Edison. Most of Holly's creations involved water, pumps and power. They included the fire

hydrant and first municipal system of firefighting, the water-pressure gauge, the water tap, the expansion joint and, of course, commercial central steam heating.

With the 1877 installation of the Lockport district heating system, the Holly Steam Combination Co. was born. Over the next five years, the company implemented nearly 50 systems, including one that still serves downtown Denver today.

In 1882, the business was acquired by American District Steam Co., whose investors had earlier purchased the rights for the Holly system in New York. They went on to sell hundreds more district heating systems throughout the world over the next 80 years. (American District Steam was one of the first members of the National District Heating Association, represented at the 1909 convention by W.J. Kline and C.R. Bishop.)

Holly's memory is kept alive today not only through his many inventions, but also at a National Mechanical Engineering Heritage Site in Lockport.

Near the Canal Museum in the Lockport Locks complex, there is a historical marker noting the location of the old Holly Manufacturing Co., which built products using his many inventions. Limited ruins of the firm, which once employed 500 people, remain along the north side of the canal.

VA New Orleans has a new heat exchanger connected

Recently the Veterans Administration Hospital installed a new 2500 ton heat exchanger in Entergy New Orleans Thermal Plant. The HX will support the entire VA campus

Congratulations



Congratulation to Mr. Robert Forrest of the Houston Astros for winning the \$100 gift card to Best Buy. Bobby is one of our customers who was picked randomly from a drawing for his submission of the ESDC customer questionnaire. THANKS Bobby