

EAST REGIONAL LIBRARY MAKES ICE AT NIGHT FOR DAYTIME COOLING

As part of the Broward County Libraries energy performance contract, the East Regional Library (Ft. Lauderdale) recently installed a new state-of-the-art cooling system. Along with lighting upgrades, the facility received a new chiller and ice storage system that allows for the system to operate during off-peak hours. Ice is produced and stored at nighttime when electric rates are lower. During the daytime peak hours, the chillers are turned off.



Cooling is provided from circulated chilled water from the ice storage tank throughout the building.

“By moving the peak load to nighttime, we were able to take advantage of a dramatically lower rate,” says Bill Wier, Energy Engineer. “Also,” he adds, “because the ice production took place at night time, we were able to reduce the capacity of the chiller from 100 tons to 80 tons.” The chart at the bottom of the page displays actual level of savings reflected on monthly electric bills.

BROWARD COUNTY AT FOREFRONT OF GOLD COAST CLEAN CITIES COALITION

Consisting of public and private partners or “stakeholders”, the Gold Coast Clean Cities Coalition was created in 1993 by State of Florida Executive Order 93-278. Its mission is threefold. First, is to reduce our dependence on imported oil. Second, is to improve the environment by promoting the use of alternative fuel vehicles. And, third, to create a sustainable alternative fuels market in the Florida Gold Coast Region.



“Our involvement with the coalition has been a positive and mutually beneficial experience,” says James L. Flood, Office of General Services Director. “Not only have we benefited through grant funding and industry training,” Flood continues, “but through our participation, we send a strong economic development message for all of Broward County.” The county’s alternative fuel vehicle efforts were recently recognized as having the most compressed natural gas (CNG), electric (EV), and liquefied petroleum gas (LPG) vehicles and refueling stations in the entire coalition.

Actual Monthly FP&L Electric Bill Amounts for East Regional Library

| | Jan. | Feb. | Mar. | Apr. | May | June |
|------|---------|---------|---------|---------|---------|---------|
| 1997 | \$3,987 | \$4,130 | \$4,853 | \$4,551 | \$4,648 | \$5,125 |
| 1998 | \$1,324 | \$1,357 | \$1,363 | \$1,627 | \$1,565 | \$1,975 |

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