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## **Florida Gulf Coast University Cools Down with Energy Storage for Annual Energy Cost Savings of up to \$300,000**

*With the installation of additional IceBank tanks, FGCU ranks as one of the largest CALMAC installations at a college in the United States*

**Fair Lawn, N.J. – June 9, 2010 –** [CALMAC](#) today announced that Florida Gulf Coast University ([FGCU](#)) will save approximately \$300,000 annually in energy cost savings with its purchase of additional [IceBank®](#) energy storage tanks. This purchase makes FGCU's energy storage plant one of the largest CALMAC installations at a college in the U.S. and brings the total ton-hours at FGCU to 23,000.

“FGCU is one of the fastest growing universities in the nation, and the ice storage plant was designed with this in mind. The University can add chillers and energy storage tanks as needed to fit its cooling load needs,” said John Camden, PE, LEED AP at ATP Engineering South. “Prior to investing in energy storage, energy costs at the university were approximately \$6-\$7 per square foot. Current energy costs are much lower, among the lowest in the state. With the additional tanks FGCU has purchased, it will continue to save money on energy costs across the growing campus.”

The University opened in 1997, and FGCU planned to implement [energy storage](#) from the beginning. Located just outside Ft. Myers, Florida, where temperatures easily reach 95 degrees Fahrenheit throughout the year, the 760-acre campus was designed with green initiatives in mind, including a 430-acre green space for environmental preservation. CALMAC's IceBank energy storage tanks work directly with chillers to produce and store ice at the energy storage plant. At night, a water/glycol solution circulates through the chiller and the heat exchanger in the energy storage tank to produce ice. The following day, the ice is melted and the glycol is pumped through a plate frame heat exchanger. Chilled water on the other side of the heat exchanger is circulated through underground pipes to cool the campus. Cooling from the main chiller plant is shared by campus academic classrooms, computer rooms, laboratories, child-care facilities, astronomical observation buildings, administration offices, sports facilities, research facilities and public television and radio buildings.

The energy storage accounts for 3MW of power generation and cuts FGCU's cooling costs by more than half. After a successful installation a few years ago, the energy storage plant saved FGCU nearly \$700,000 in energy costs within the first three years.

With the additional 11,000 ton-hours installed on-site last year, the University's energy costs are among the lowest in the state per square foot.

“As the cost of on-peak energy continues to rise while off-peak energy stays the same or decreases, universities and colleges across America are partnering with energy storage as a way to manage energy costs,” said Mark MacCracken, CEO of CALMAC. “With our hybrid cooling solution installed, FGCU has been able to conserve energy during on-peak periods and will save millions over the life of the system.”

### **About CALMAC**

[CALMAC](#) Corporation is widely recognized for promoting peak energy conservation and energy cost savings. A member of Demand Response Smart Grid ([DRSG](#)) Coalition and a [USGBC](#) member, CALMAC is a leading manufacturer of IceBank® Energy Storage equipment with over 3,600 Ice Storage installations worldwide. IceBank systems are a valuable component of the smart grid, enabling energy, including renewable wind energy that mainly blows at night, to be efficiently stored for use during periods of high demand.

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