

## CASE STUDY: Commercial Solar Pool Heating System

The 1996 Summer Olympic Games took place at the Aquatic Center on the Georgia Tech campus in Atlanta, Georgia. The covered, 50-meter outdoor pool holds 1 million gallons of water.

Heliocol manufactures and distributes the industry's highest-performing solar products for commercial and residential applications. Founded in 1977, Heliocol maintains its position as the world's largest manufacturer of solar pool heating systems.

**Industry: Major Sporting Event/University**

**Project Type: Solar Pool Heating**

### Challenge:

To develop a solar pool heating system that could provide extremely accurate temperatures in accordance with strict Olympic regulation temperatures throughout the competition. The system would be required to heat the pool during the daytime and cool the water at night, if necessary. The installation was additionally challenging due to the wave-like roof which could not accommodate roof penetrations.



### QUICK VIEW

Pool Size	1 Million Gallons
Installed System Size	13,700 Sq Ft of Heliocol Solar Panels

### Direct Outcomes

#### After Heliocol Panel Installation

Annual Savings:	\$12,000
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### Solution:

Heliocol designed a system using 13,700 square feet of Heliocol solar pool collectors. The system was designed to heat and maintain the pool water within the margin of 77°F to 79°F during competition by utilizing solar energy during daylight hours and releasing excess heat into the air during night hours. A special roof clip was used on the majority of the collectors for flush mounting, while 72 of the collectors were mounted onto special aluminum racks.

### Results:

The Heliocol solar pool heating system successfully maintained the required water temperatures throughout the Olympic competition while demonstrating how an environmentally-friendly system can be accurate and financially rewarding.

The system continues to save thousands of dollars each month for the pool's new owners, the Georgia Institute of Technology.