



SOLAR HOT WATER CASE STUDY

Edith Ball Adaptive Recreation Center



TECHNICAL SPECIFICATIONS:

- 72 HC - 40 Heliocol solar pool heating panels covering a total of about 3,350 square feet.
- Annual estimated avoided natural gas usage of 14,000 therms.
- The system has a 12-year parts and labor warranty.
- Monthly solar production of 24,941 kWh



PROJECT DESCRIPTION:

- Installed November 2004
- A leisure pool equipped with the solar water heating system.
- Therapy pool heated with gas boiler because of high temperature requirement.
- 33 daylighting systems installed on the Adaptive Recreation Center's main building.



FINANCIAL DETAILS:

- Total costs of hot water system - \$59,000 with a simple 4-year payback period.
- Annual avoided natural gas costs estimated at \$12,000.
- The installed cost of the daylighting systems - \$15,000.
- Over the 20-year project life, the combined systems have a net present value of nearly \$200,000.