



An Investment with Real Returns

CASE STUDY - Broome County YMCA Binghamton, NY 2008

PROJECT SUMMARY

- Domestic hot water for showers
- 10 ThermoPower-VHP30 evacuated tube solar collectors (300 tubes total)
- 1500 gallon storage tank
- Daily BTU production: 550,000 BTUs
- System payback: 4.2 years

SunMaxx Solar, in conjunction with Eastern Energy Solutions, installed ten Sunmaxx ThermoPower-VHP30 evacuated tube collectors as part of a solar thermal system designed to supplement the domestic hot water heating costs of the Broome County YMCA's facilities, allowing additional budget money to be used for service and facility upgrades.

The system is large enough to provide 140 million BTUs of heat energy annually - enough to heat 218,000 gallons of water each year. The solar hot water heating system will offset enough natural gas to provide more than 29,000 showers each year (83 a day). Executive Director Rick Peterson says, "It is a great way not only to save money, but also help the environment by reducing our carbon footprint."

The SunMaxx solar hot water system will have a dramatic impact on reducing the natural gas usage of the YMCA facility, and is only a part of more than \$1,000,000 that the YMCA has invested in energy efficiency upgrades, including efficient lighting and heating/cooling system upgrades.

