Grand apartments, great location!

SKALLY MANAGEMENT

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Solar Hot Water Heater Fact Sheet

Date Installed: 9/1/2006

Installer: Innovative Power Systems

Components:

- 8 – 4 foot by 10 foot AET thermal collectors
- 2 – 120 gallon water storage tanks
- 2 – pumps
- 1 – double walled FlatPlate heat exchanger
- 2 – temperature sensors connected to the power switch

Overview of System: The system is made up of three main components: the solar panels, a heat exchanger, and two water storage tanks. A solution of glycol mixed with water cycles through the solar panels on the roof scrubbing the heat from them, and transfers it into the water storage tanks via the heat exchanger. Glycol is used in Minnesota because it can withstand temperatures of -100 degrees. The city water goes through the solar storage tanks first where it is pre-heated then it goes to the gas hot water heater. If the sun does not pre-heat the water enough the hot water heater turns on. 144 tons of carbon air pollution will not be emitted over 30 years because of the solar energy this system harnesses. You would need 482 mature trees to remove this amount of pollution from the air.

Budget:

Initial Cost:		$(27,000)
Initial Savings:		
Tax Credit	$8,100	
Depreciation	$5,300	
Subtotal		$13,400
Total Initial Cost:		$(13,600)
Estimated Yearly Gas Use Reduction		700-1,000 therms
Estimated Yearly Savings		$700-$1,300
Expected Payback:		10-15 years

10/06/07