

## Solar Power System - San Jose School District 2/05/09



Solar Panel Details	Solar Cost
Size of Solar Power System	5.5 MW
# of Schools/Locations	14
Finance Term	25 Years
Cost of System	\$ 50,000,000
Incentives/Rebates	\$ (11,000,000)
Adjusted Price	\$ 39,000,000
<b>District Savings / 25-Year Term</b>	
Total Cost / 25-Year Term (Solar System)	\$ 39,000,000
Total \$ Savings / 25-Year Term	\$ 25,000,000
Gain/Loss of Savings over Cost	\$ (14,000,000)
Total kWh Savings / 25-Year Term (\$.13/kWh)	199,250,000
<b>District Savings / Year (14 Schools)</b>	
Total Cost / Year (Solar System)	\$ 1,560,000
Total \$ Savings / Year (\$.13/kWh)	\$ 1,000,000
Gain/Loss of Savings over Cost	\$ (560,000)
Total kWh Savings / Year	7,970,000
<b>Per School Savings / Year</b>	
Total Cost / Year (Solar System)	\$ 111,429
Total \$ Savings / Year (\$.13/kWh)	\$ 71,429
Gain/Loss of Savings over Cost	\$ (40,000)
Total kWh Savings / Year	569,286

\* See Note Below

**SOLAR PANEL ROI: 39 Years**

Cost Per-Watt after Rebate	\$ 7.09
Cost Per-kWh after Rebate over 25-Year Term	\$ 0.1975
Cost Per-kWh after Rebate over ROI (39 Years)	\$ 0.1254

### Summary:

- 1.) For every \$1 spent on Solar (after Rebate), it only costs \$.066 on the Articmaster system to save the same amount of power.
- 2.) For every \$1 in rebates given by Utility, it only takes \$.04 in rebates for the Articmaster System to save the same amount of power.
- 3.) The Articmaster is American designed and Manufactured.

### Notes:

Commercial Solar Panel Information is based upon a San Jose, CA High School

\* Please note that the Solar & Articmaster Equipment cost / school reflects the total system cost divided by 14 schools, less incentives and rebates.

## Articmaster HVAC/Refrigeration Optimization System



Articmaster Details	Articmaster Cost	Articmaster /25-Yr
Size of System	N/A	N/A
# of Schools/Locations	14	14
Finance Term	6 Years	25 Years
Cost of System (Equipment)	\$ 2,100,000	\$ 2,100,000
Incentives/Rebates (Assume 20%)	\$ (420,000)	\$ (420,000)
Adjusted Price	\$ 1,680,000	\$ 1,680,000
<b>District Savings / 6-Year Term</b>		<b>Articmaster Savings</b>
Total Cost / 6-Year Term (Equipment)	\$ 1,680,000	\$ 1,680,000
Total \$ Savings / 6-Year Term	\$ 4,057,555	\$ 16,906,481
Gain/Loss of Savings over Cost	\$ 2,377,555	\$ 15,226,481
Total kWh Savings / 6-Year Term (\$.13/kWh)	31,211,964	130,049,850
<b>District Savings / Year (14 Schools)</b>		<b>Articmaster Savings</b>
Total Cost / Year (Equipment)	\$ 280,000.00	\$ (5,320,000)
Total \$ Savings / Year (\$.13/kWh)	\$ 676,259	\$ 676,259
Gain/Loss of Savings over Cost	\$ 396,259	\$ 5,996,259
Total kWh Savings / Year	5,201,994	5,201,994
<b>Per School Savings / Year</b>		<b>Articmaster Savings</b>
Total Cost / Year (Equipment)	\$ 20,000	\$ (380,000)
Total \$ Savings / Year (\$.13/kWh)	\$ 48,304	\$ 48,304
Gain/Loss of Savings over Cost	\$ 28,304	\$ 428,304
Total kWh Savings / Year	371,571	371,571

**ARTICMASTER ROI: 2.48 Years**

Cost Per-Watt after Rebate	\$ 0.46
Cost/kWh over 39-Year Term	\$ 0.008
Cost Per-kWh after Rebate over ROI (2.48 Years)	\$ 0.1291