Renewable Ready

Solar Energy Today's Clean Energy Choice

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Solar Works Inc



























Life-Cycle Analysis – An Example

Cost Item	Electric	LPG	<u>Solar</u>
Capital Cost	\$750	\$750	\$6,250*
First year fuel cost	\$850	\$860	\$250
25-yr fuel cost**	\$18,760	\$18,980	\$5,520
25-yr maintenance**	<u>\$550</u>	<u>\$550</u>	<u>\$1,500</u>
Total Life Cycle Cost	\$20,910	\$21,140	\$13,520

* includes \$750 for back-up LPG hot water heater, less state incentives

Solar Works Inc Clean energy. Clear choice.

- ** present worth based on inflation at 4%, discount rate at 7%
- ** prices based on January 2006 average cost for New England







Commercial Heating Systems



Southern VT Recreation Center, Springfield VT 130 kW thermal array saves \$15,000 a year in fuel

Pool heatingProcess heatDairy farms

•Hotels

•Laundramats

Very cost-effective due to high solar conversion efficiency and economies of scale

















Solar with Battery Backup (UPS)



Bi-modal inverters operate in both grid-connect and off-grid modes. UL listed 1741

Maintenance-free battery bank 48VDC typical with15 kWh of storage capacity.













Inverter technology and performance has improved dramatically

DC to AC conversion
modular sizes 2 - 500 kW
92-95% efficiency
UL listed for standardized interconnection



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Quiz

- >>>What state has the highest per capita number of solar installers?
- >>In what state was the first New England solar collector manufacturer located?
- >> The contractor who installed the first White House solar system in 1978 was located in what state?

Vermont is Solar Ready!

