ALTERNATE ENERGY - SOLAR ENERGY
SOLAR PORCH

	140,000	BTU PER GALLON OF OIL GROSS	
	112,000	BTU PER GALLON OF OIL NET	80% EFFICENCY
	12,544,000,000	TOTAL NET BTU PER YR PROVIDED BY OIL HEAT	
	112000	GALLONS YR	
$	4.00	PER GALLON	
$	448,000	YR OIL COST	

300	BTU / HR PER SF ADJ FOR SUN ANGLES	
944	SF PORCH GLAZING	
283,200	SUB TOT BTU / HR	
6	AVG HRS IN HEATING SEASON	
1,699,200	SUB TOT BTU / DAY	
137	EFFECTIVE DAYS PER YR IN HEATING SEASONS	
232,578,000	MAX YRLY BTU	
116,289,000	ADJ FOR LOSSES FR PORCH TO OUTDOOR	
58,144,500	ADJ FOR STORAGE LOSSES IN EARTH UNDER HOUSE, HOUSE MASS	
58,144,500	MAX YRLY BTU	
519	EQUIVALENT GALLONS OF OIL SAVED	
	Which would essentially mean, no oil heat req, which is way too optomistic	
	a lot of heat will be when it's not needed, so I'll toss in another 50% loss factor	
260	EQUIVALENT GALLONS OF OIL SAVED	
$ 4.00	PER GALLON	
$ 1,038	YR OIL COST SAVED	
$ 1,622	**FINAL YR OIL COST**	
$ 3,776	SYSTEM COST - DIY	
3.64	YR PAYBACK	
7.27	YR PAYBACK FOR FULLY GC'D SYSTEM	
	Well, this would work	