Embedded Energy/Cost Buy Back

Hypothetical Solar Panel Buy Back		Our system is: 2 100W p	panels, with 2.05	hrs/day of full sun, 0.8 efficienc	y, and an estimat	ed \$0.16/kWh
				# of Panels	2	
Daily Energy:	0.328	kwh/day		Panel Size	100	Watts
Yearly Energy:	119.72	kwh/year		Price/Watt	1.5	\$/W
Yearly Electricity Price:	19.155	\$/year		Electric Rate	0.16	\$/kWh
Yearly Electricity Price/4:	4.79	\$/yr for each component		Full Sun Hours Yearly Averag	2.05	hrs/day
Panel Cost	300	\$		Efficiency of System	0.8	
Buy Back	15.66	years		Days in a Year	365	
				W-KW	0.001	
Solar Panel Embedded Energy				Energy Embedded in Panel	5500	kwh/kw
Embedded Energy	1100	kwh				
Pay Back	9.19	years				
Buy Back From Other System Components	Cost:		Buy back time:			
Battery	80	\$	16.71	yrs	Rachael	
Charge controller (estimate)	12	\$	2.51	yrs	John	
Inverter	65	\$	13.57	yrs	Annette	
USB Split chords	25	\$	5.22	yrs	Kevin	
			Total buyback:			
Total system cost:	400	\$	20.88	yrs		