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Performance Comparison of Harvard University's Three PV Systems

as of April 24, 2008

Building	Science Center BIPV			Shad PV*			Harvard Forest		
System Type	Building Integrated PV			Flat Roof Mounted PV			Tiled Ground Mounted PV		
Contractor/Installer	Roofing Contractor based in Chelsea, Massachusetts			A U.S.-based International Solar Contractor			Moss Hollow, LLC Lunenburg, Massachusetts		
Manufacturer	Solar Integrated			Sanyo 190 watt panels			Evergreen ES-170		
	Date	kwh	Days	Date	kwh	Days	Date	kwh	Days
	1/1/08	176.5484	31	1/1/06	949	31	1/1/08	706	31
	2/1/08	409.52	29	2/1/06	2,092	28	2/1/08	714	29
	3/1/08	964.21	30	3/1/06	3,708	30	3/1/08	1199	30
	4/1/08	1101.95	23	4/1/06	3,535	31	4/1/08	1115	23
avg kwh/day	23			86			33		
avg kwh/day/kw	2.17			2.35			3.24		
kwh/kw	246			266			366		

Projects	% Efficiency
Shad vs. Science Center	8%
Harvard Forest vs. Shad	38%
Harvard Forest vs. Science Center	49%

**Panels used on Shad building installation are flat, not tilted toward the sun as in the other two projects.*