

Table 10.9 Photovoltaic Cell and Module Shipments by Market Sector and End Use, 1989-2007

(Peak Kilowatts ¹)

Year	By Market Sector							By End Use								Total	
	Residential	Commercial ³	Government	Industrial ⁴	Transportation	Electric Power ⁵	Other ⁶	Communications	Consumer Goods	Electricity Generation ²		Health	Original Equipment Manufacturers ⁷	Transportation	Water Pumping		Other ⁸
										Grid-Interactive	Remote						
Total Shipments ⁹																	
1989	1,439	3,850	1,077	3,993	1,130	785	551	2,590	2,788	1,251	2,620	5	1,595	1,196	711	69	12,825
1990	1,701	6,086	1,002	2,817	974	826	432	4,340	2,484	469	3,097	5	1,119	1,069	1,014	240	13,837
1991	3,624	3,345	815	3,947	1,555	1,275	377	3,538	3,312	856	3,594	61	1,315	1,523	729	13	14,939
1992	4,154	2,386	1,063	4,279	1,673	1,553	477	3,717	2,566	1,227	4,238	67	828	1,602	809	530	15,583
1993	5,237	4,115	1,325	5,352	2,564	1,503	856	3,846	946	1,096	5,761	674	2,023	4,238	2,294	74	20,951
1994	6,632	5,429	2,114	6,855	2,174	2,364	510	5,570	3,239	2,296	9,253	79	1,849	2,128	1,410	254	26,077
1995	6,272	8,100	2,000	7,198	2,383	3,759	1,347	5,154	1,025	4,585	8,233	776	3,188	4,203	2,727	1,170	31,059
1996	8,475	5,176	3,126	8,300	3,995	4,753	1,639	6,041	1,063	4,844	10,884	977	2,410	5,196	3,261	789	35,464
1997	10,993	8,111	3,909	11,748	3,574	5,651	2,367	7,383	347	8,273	8,630	1,303	5,245	6,705	3,783	4,684	46,354
1998	15,936	8,460	2,808	13,232	3,440	3,965	2,720	8,280	1,198	14,193	8,634	1,061	5,044	6,356	4,306	1,491	50,562
1999	19,817	17,283	3,107	24,972	4,341	5,876	1,392	12,147	2,292	24,782	10,829	1,466	12,400	8,486	4,063	322	76,787
2000	24,814	13,692	4,417	28,808	5,502	6,298	4,690	12,269	2,870	21,713	14,997	2,742	12,153	12,804	5,644	3,028	88,221
2001	33,262	15,710	5,728	28,063	8,486	5,846	571	14,743	4,059	27,226	21,447	3,203	6,268	12,636	7,444	641	97,666
2002	29,315	20,578	8,565	32,218	12,932	7,640	841	17,290	3,400	33,983	21,693	4,202	7,869	16,028	7,532	93	112,090
2003	23,389	32,604	5,538	27,951	11,089	8,474	313	14,185	2,995	42,485	15,025	2,924	11,334	14,143	6,073	194	109,357
2004	53,928	74,509	3,257	30,493	1,380	3,233	14,316	11,348	6,444	129,265	18,371	341	6,452	1,380	1,322	6,193	181,116
2005	75,040	89,459	28,683	22,199	1,621	143	9,772	8,666	5,787	168,474	24,958	0	11,677	2,159	1,343	3,853	226,916
2006	95,815	180,852	7,688	28,618	2,458	3,981	17,857	6,888	4,030	274,197	18,003	0	6,132	2,438	2,093	23,487	337,268
Domestic Shipments ⁹																	
2007	68,417	¹⁰ 140,434	(¹⁰)	32,702	3,627	35,294	--	2,836	589	253,101	10,867	410	4,802	4,018	3,852	--	280,475

¹ See "Peak Killowatt" in Glossary.

² Grid-interactive means connection to the electrical distribution system; remote means electricity for general use that does not interact with the electrical distribution system, such as at an isolated residential site or mobile home. The other end uses in this table also include electricity generation, but only for the specific use cited.

³ Through 2006, data are for the commercial sector, excluding government, which is included in "Government." Beginning in 2007, data are for the commercial sector, including government.

⁴ Through 2006, data are for the industrial sector and independent power producers. Beginning in 2007, data are for the industrial sector only; independent power producers are included in "Electric Power."

⁵ Through 2006, data are for electric utilities only; independent power producers are included in "Industrial." Beginning in 2007, data are for electric utilities and independent power producers.

⁶ Through 2006, data are for shipments for specialty purposes such as research.

⁷ "Original Equipment Manufacturers" are non-photovoltaic manufacturers that combine photovoltaic

technology into existing or newly developed product lines.

⁸ Through 2006, includes applications such as cooking food, desalinization, and distilling.

⁹ Through 2006, data are for domestic and export shipments, and may include imports that subsequently were shipped to domestic or foreign customers. Beginning in 2007, data are for domestic shipments only.

¹⁰ Beginning in 2007, the government sector is included in "Commercial."

-- = Not applicable.

Note: Totals may not equal sum of components due to independent rounding.

Web Page: For related information, see <http://www.eia.doe.gov/fuelrenewable.html>.

Sources: • 1989-1992—Energy Information Administration (EIA), *Solar Collector Manufacturing Activity*, annual reports. • 1993-2002—EIA, *Renewable Energy Annual*, annual reports. • 2003-2006—EIA, *Solar Thermal and Photovoltaic Collector Manufacturing Activities*, annual reports. • 2007—EIA, *Solar Photovoltaic Cell/Module Manufacturing Activities 2007* (December 2008), Table 3.7.