

Table 10.8 Photovoltaic Cell and Module Shipments by Type, Trade, and Prices, 1982-2010

Year	U.S. Companies Reporting Shipments Number	Shipments						Trade				Prices ¹	
		Crystalline Silicon		Thin-Film		Total ²		Imports		Exports		Cells	Modules
		Cells and Modules	Modules Only	Cells and Modules	Modules Only	Cells and Modules	Modules Only	Cells and Modules	Modules Only	Cells and Modules	Modules Only		
Peak Kilowatts ³											Dollars ⁴ per Peak Watt ³		
1982	19	NA	NA	NA	NA	6,897	NA	NA	NA	NA	NA	NA	NA
1983	18	NA	NA	NA	NA	12,620	NA	NA	NA	1,903	NA	NA	NA
1984	23	NA	NA	NA	NA	9,912	NA	NA	NA	2,153	NA	NA	NA
1985	15	5,461	NA	303	NA	5,769	NA	285	NA	1,670	NA	NA	NA
1986	17	5,806	NA	516	NA	6,333	NA	678	NA	3,109	NA	NA	NA
1987	17	5,613	NA	1,230	NA	6,850	NA	921	NA	3,821	NA	NA	NA
1988	14	7,364	NA	1,895	NA	9,676	NA	1,453	NA	5,358	NA	NA	NA
1989	17	10,747	NA	1,628	NA	12,825	NA	826	NA	7,363	NA	3.08	5.14
1990	⁵ 19	12,492	NA	1,321	NA	⁵ 13,837	NA	1,398	NA	7,544	NA	3.84	5.69
1991	23	14,205	NA	723	NA	14,939	NA	2,059	NA	8,905	NA	4.08	6.12
1992	21	14,457	NA	1,075	NA	15,583	NA	1,602	NA	9,823	NA	3.21	6.11
1993	19	20,146	NA	782	NA	20,951	NA	1,767	NA	14,814	NA	5.23	5.24
1994	22	24,785	NA	1,061	NA	26,077	19,064	1,960	NA	17,714	NA	2.97	4.46
1995	24	29,740	NA	1,266	NA	31,059	19,627	1,337	NA	19,871	NA	2.53	4.56
1996	25	33,996	NA	1,445	NA	35,464	24,534	1,864	NA	22,448	14,128	2.80	4.09
1997	21	44,314	NA	1,886	NA	46,354	33,645	1,853	NA	33,793	22,956	2.78	4.16
1998	21	47,186	NA	3,318	NA	50,562	32,313	1,931	NA	35,493	19,015	3.15	3.94
1999	19	73,461	NA	3,269	NA	76,787	43,073	4,784	4,630	55,585	24,545	2.32	3.62
2000	21	85,155	NA	2,736	NA	88,221	55,007	8,821	5,016	68,382	36,277	2.40	3.46
2001	19	84,651	NA	12,541	NA	97,666	67,033	10,204	7,029	61,356	34,282	2.46	3.42
2002	19	104,123	NA	7,396	NA	112,090	64,413	7,297	6,378	66,778	32,559	2.12	3.74
2003	20	97,940	NA	10,966	NA	109,357	80,062	9,731	9,289	60,693	30,229	1.86	3.17
2004	19	159,138	NA	21,978	NA	181,116	143,274	47,703	14,096	102,770	66,278	1.92	2.99
2005	29	172,965	NA	53,826	NA	226,916	204,996	90,981	44,443	92,451	72,017	2.17	3.19
2006	41	233,518	NA	101,766	NA	337,268	320,208	173,977	99,687	130,757	116,561	2.03	3.50
2007	46	310,330	NA	202,519	NA	517,684	494,148	238,018	173,165	237,209	215,364	2.22	3.37
2008	66	665,795	NA	293,182	NA	986,504	920,693	586,558	449,813	462,252	409,261	1.94	3.49
2009	101	984,161	NA	266,547	NA	1,282,560	1,188,879	743,414	625,182	681,427	615,094	1.27	2.79
2010	112	(⁶)	2,114,881	(⁶)	519,516	(⁶)	2,644,498	(⁶)	1,734,149	(⁶)	976,955	1.13	1.96

¹ Prices equal shipment value divided by quantity shipped. Value includes charges for advertising and warranties. Excluded are excise taxes and the cost of freight or transportation for the shipments.

² Includes all types of photovoltaic cells and modules (single-crystal silicon, cast silicon, ribbon silicon, thin-film silicon, and concentrator silicon). Excludes cells and modules for space and satellite applications.

³ See "Peak Kilowatt" and "Peak Watt" in Glossary.

⁴ Prices are not adjusted for inflation. See "Nominal Dollars" in Glossary.

⁵ Data were imputed for one nonrespondent who exited the industry during 1990.

⁶ Beginning in 2010, because of changes to survey methodology, survey data for cells and modules cannot be summed.

NA=Not available.

Note: Shipments data are for domestic and export shipments, and may include imports that subsequently were shipped to domestic or foreign customers.

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

Sources: • 1982-1992—U.S. Energy Information Administration (EIA), *Solar Collector Manufacturing Activity*, annual reports. • 1993-2002—EIA, *Renewable Energy Annual*, annual reports. • 2003 forward—EIA, *Solar Photovoltaic Cell/Module Shipments Report* (and predecessor reports), annual reports.