Table 10.9 Photovoltaic Cell and Module Shipments by Sector and End Use, 1989-2010

(Peak Kilowatts 1)

-	By Sector					By End Use				
	Residential	Commercial ³	Industrial ⁴	Electric Power ⁵	Other ⁶	Grid-Connected ²		Off-Grid ²		
Year						Centralized ⁷	Distributed 8	Domestic ⁹	Non-Domestic ¹⁰	Total
				Total	Shipments of Photo	ovoltaic Cells and Mo	dules ¹¹			
989	1,439	R6,057	3,993	785	551	(12)	¹² 1,251	2,620	8,954	12,825
990	1,701	R8,062	2,817	826	432	(12)	¹² 469	3,097	10,271	13,837
991	3,624	^R 5,715	3,947	1,275	377	(12)	¹² 856	3,594	10,489	14,939
992	4,154	^R 5,122	4,279	1,553	477	(12)	¹² 1,227	4,238	10,118	15,583
993	5,237	R8,004	5,352	1,503	856	(12)	¹² 1,096	5,761	14,094	20,951
994	6,632	^R 9,717	6,855	2,364	510	(12)	¹² 2,296	9,253	14,528	26,077
995	6,272	R12,483	7,198	3,759	1,347	(12)	¹² 4,585	8,233	18,241	31,059
996	8,475	R12,297	8,300	4,753	1,639	(12)	¹² 4,844	10,884	19,736	35,464
97	10,993	R15,594	11,748	5,651	2,367	(12)	¹² 8,273	8,630	29,451	46,354
998	15,936	R14,708	13,232	3,965	2,720	(12)	¹² 14,193	8,634	27,735	50,562
999	19,817	^R 24,731	24,972	5,876	1,392	(12)	¹² 24,782	10,829	41,176	76,787
000	24,814	R23,611	28,808	6,298	4,690	(12)	¹² 21,713	14,997	51,511	88,221
001	33,262	R29,924	28,063	5,846	571	(12)	¹² 27,226	21,447	48,993	97,666
002	29,315	R42,075	32,218	7,640	841	(12)	¹² 33,983	21,693	56,414	112,090
003	23,389	^R 49,231	27,951	8,474	313	(12)	¹² 42,485	15,025	51,847	109,357
004	53,928	^R 79,146	30,493	3,233	14,316	(12)	¹² 129,265	18,371	33,480	181,116
005	75,040	R119,763	22,199	143	9,772	(12)	¹² 168,474	24,958	33,484	226,916
006	95,815	R190,998	28,618	3,981	17,857	(12)	¹² 274,197	18,003	45,068	337,268
				U.S. S	hipments of Photo	voltaic Cells and Mo	dules ¹¹			
007	68,417	R144,061	32,702	35,294		(12)	¹² 253,101	10,867	16,507	280,475
800	173,989	R262,952	51,493	35,819		(12)	¹² 500,854	15,527	7,871	524,252
.009	221,245	R282,807	43,445	53,636		(12)	¹² 585,189	8,119	7,825	601,133
_				U.S	. Shipments of Pho	otovoltaic Modules O	nly ¹¹			
010	467,165	908,224	48,208	243,947		243,947	1,408,462	10,941	4,193	1,667,543

See "Peak Kilowatt" in Glossary.

in the following end-use categories: "Communications," "Consumer Goods," "Health," "Original Equipment Manufacturers" (non-photovoltaic manufacturers that combine photovoltaic technology into existing or newly developed product lines), "Transportation," "Water Pumping," and "Other" (applications such as cooking food, desalinization, and distilling).

12 Through 2009, data for "Centralized" are included in "Distributed."

R=Revised. --= Not applicable.

Notes: • See "Photovoltaic Cell (PVC)" and "Photovoltaic Module" in Glossary. • Totals may not equal sum of components due to independent rounding.

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

Sources: • 1989-1992—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.

² See "Electric Power Grid" in Glossary.

³ Includes data that were previously shown in the "Commercial," "Government," and "Transportation" sector categories.

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 specialty purposes such as research.

⁷ Photovoltaic cells/modules that are connected to the electric power grid, and whose output is fed directly into the grid.

⁸ Photovoltaic cells/modules that are connected to the electric power grid, and whose output is consumed mainly onsite.

⁹ Photovoltaic cells/modules that are not connected to the electric power grid, and that are used to provide electric power to remote households or communities. Includes data that were previously shown in the "Remote" end-use category.

¹⁰ Photovoltaic cells/modules that are not connected to the electric power grid, and that are used to provide electric power for a variety of non-domestic applications. Includes data that were previously shown

¹¹ Through 2006, data are for domestic and export shipments of photovoltaic cells and modules, and may include imports that subsequently were shipped to domestic or foreign customers. For 2007-2009, data are for domestic shipments of photovoltaic cells and modules. For 2010, data are for domestic shipments of photovoltaic modules only.