



*Independent Statistics & Analysis*  
U.S. Energy Information  
Administration

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# Solar Photovoltaic Cell/Module Shipments Report 2010

January 2012



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## Contacts

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## Preface

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The U.S. Energy Information Administration (EIA) report, *Solar Photovoltaic Cell/Module Shipments Report 2010*, presents an overview of the U.S. solar photovoltaic industry, employment, and business activities together with comprehensive data on shipments of cells/modules in 2010. Detailed tables provide data on cell/module shipments by state, sector, end use and type, with many presenting historical data spanning from 2001-2010.

Beginning with this report, a new data series on PV module shipments is presented. This data series results from a change in canvassed data categories, and is distinct from the historically reported aggregate category of PV cell/module shipments.

Data in this report are based on solar photovoltaic cell/module shipments information reported on Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report." Shipments as reported by respondents are for terrestrial (land-based) use only. Shipments intended for applications in space programs (satellites, military projects, etc.) are excluded.

Prior editions of this report are on the EIA website: <http://www.eia.gov/renewable/reports.cfm?t=214>.

Definitions for terms used in this report are in EIA's Energy Glossary: <http://www.eia.gov/tools/glossary/index.cfm>.

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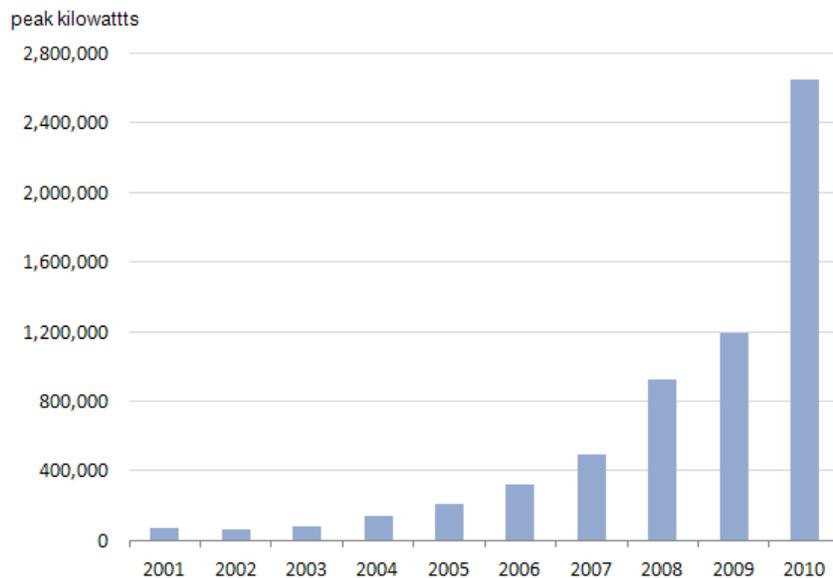
# Solar Photovoltaic Cell/Module Shipments Report 2010

## Overview

Despite a sluggish U.S. economy in 2010, the U.S. photovoltaic (PV) industry saw strong growth. Total shipments of PV modules in 2010 more than doubled compared to total module shipments in 2009, rising from nearly 1.2 peak gigawatts (GWdc<sup>1</sup> peak) to more than 2.6 peak gigawatts (Figure 1). This surge in growth was supported in part by rapid declines in the price of PV cells and modules (Figure 2), and by government incentives and policies at the Federal, state and local levels.

As a consequence of this strong growth, favorable business opportunities emerged for companies to expand or enter into the PV market. In 2010, there were 112 active PV manufacturers, importers and exporters that shipped PV cells and modules (Table 1). This marks an increase of nearly 11 percent from the 101 companies doing business in 2009.

**Figure 1. Annual photovoltaic module shipments, 2001-2010**



Source: U.S. Energy Information Administration (EIA), Form EIA-63B, Annual Photovoltaic Cell/Module Shipments Report.\*

## Industry status

The PV module market continues to be a very dynamic and competitive market. Many of the companies reporting PV shipments in 2010 also reported being involved in one or more of the following photovoltaic-related activities (Table 1):

- 57 companies were involved in module and/or cell manufacturing.
- 60 designed modules or systems.

<sup>1</sup> DC stands for direct current, the type of power output by photovoltaic cells and modules. All capacity values in this report are in DC terms.

- 38 developed prototype modules.
- 21 developed prototype systems.
- 61 were involved in wholesale distribution.
- 26 were involved in retail distribution.
- 29 installed PV systems.

In addition, several manufacturers are planning to introduce new photovoltaic-related technical products in the next calendar year (Table 1):

- 24 plan to introduce new single-crystal silicon modules.
- 14 plan to introduce new cast silicon modules.
- 13 plan to introduce new thin-film modules.
- 8 plan to introduce new concentrator photovoltaic modules.

Employment in PV-related activities increased more than 21 percent, from 14,443 full-time equivalent (FTE)<sup>2</sup> employees in 2009 to 17,487 FTE in 2010. Of the 112 companies, 83 had 90 percent or more of their companywide revenues in PV-related activities, 8 had 50 to 89 percent, 6 had 10 to 49 percent, and 15 had less than 10 percent (Table 1).

### Value, average price, and average efficiency

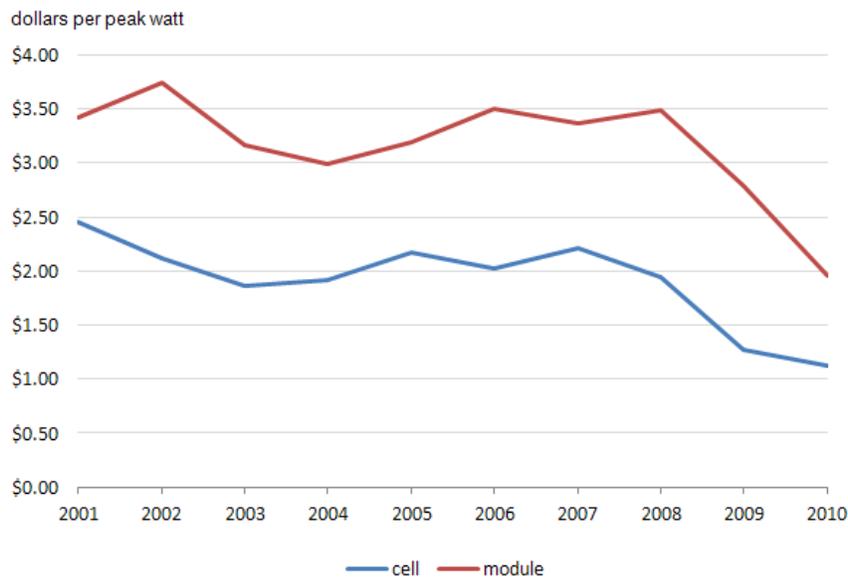
In 2010, the value of photovoltaic cell shipments totaled nearly \$1.2 billion and the value of photovoltaic module shipments reached nearly \$5.2 billion (Table 2). Value includes charges for cooperative advertising and warranties, but does not include excise taxes and the cost of freight or transportation.

Average prices of photovoltaic cells and /modules per peak watt of capacity shipped have declined steady over the past three years due, in part, to government incentives and market competition. For photovoltaic cells, the average price has decreased almost 11 percent, from \$1.27 in 2009 to \$1.13 in 2010, and the average price of photovoltaic modules fell nearly 30 percent, from \$2.79 in 2009 to \$1.96 in 2010 (Figure 2).

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<sup>2</sup> Full-time equivalent is a unit measure of the number of employees on full-time schedules plus the number of employees on part-time schedules converted to a full-time basis.

**Figure 2. Average price of photovoltaic cells and modules, 2001-2010**



Source: U.S. Energy Information Administration (EIA), Form EIA-63B, Annual Photovoltaic Cell/Module Shipments Report.\*

The performance of a photovoltaic module is typically measured in terms of its energy conversion efficiency, i.e., the percentage of incident solar energy (input) that the module converts to electricity (output) under standard rating conditions. In 2010, the average energy conversion efficiencies were as follows (Table 2):

- 16 percent for Crystalline Silicon PV module.
- 11 percent for Thin-film PV module.
- 27 percent for Concentrator PV module.

### U.S. manufactured

In 2010, 1,066,867 peak kilowatts of PV modules were manufactured in the United States. Manufacturers in California, Massachusetts, Michigan, Ohio, and Tennessee produced more than 82 percent of the domestically manufactured PV modules (Table 5). Crystalline silicon accounted for more than 59 percent of the annual domestically manufactured PV modules, followed by thin-film modules with nearly 40 percent. Together, crystalline silicon and thin-film accounted for more than 99 percent of all PV manufacturing.

### Imports

Imports of PV modules shipments totaled 1,734,149 peak kilowatts in 2010. The predominant type of import shipment was crystalline silicon modules, accounting for more than 93.5 percent (1,622,315 peak kilowatts) of total imports. China, Philippines, and the Mexico accounted for about than 88 percent of total imports (Table 6), respectively 46 percent, 31 percent, and 11 percent.

## Exports

Exports of PV module shipments totaled 976,955 peak kilowatts in 2010, accounting for about 37 percent of total shipments, or approximately 56 percent of PV module imports. The predominant type of export shipment was crystalline silicon modules, accounting for nearly 73 percent (710,007 peak kilowatts) of total exports. The export market was dominated by sales to Germany, Italy, and Canada (Table 7), respectively 34 percent, 27 percent, and 11 percent.

## U.S. shipments

### *Shipment by geography*

U.S. PV module shipments totaled 1,667,543 peak kilowatts in 2010. The shipments went to all 50 States, the District of Columbia, American Samoa, Guam, Puerto Rico, and the Virgin Islands (Table 8).

Nearly 70 percent of U.S. PV module shipments (1,163,992 peak kilowatts) went to five States (in order of decreasing volume): California, New Jersey, Arizona, Nevada, and Colorado. More than 54 percent (903,705 peak kilowatts) of domestic shipments went to California (39 percent) and New Jersey (15 percent).

### *Shipments by sector*

U.S. PV module shipments to the commercial sector in 2010 accounted for 908,224 peak kilowatts, slightly more than 54 percent of the domestic market. Of the domestic shipments to the commercial sector, approximately 94 percent was crystalline silicon, about 6.2 percent was thin-film PV, and less than 0.3 percent was concentrator PV (Table 9).

The residential sector was the second-largest domestic market in 2010, accounting for 467,165 peak kilowatts, or 28 percent of the domestic market share. About 92 percent of its shipments was crystalline silicon and more than 7 percent was thin-film.

Shipments to the electric power sector amounted to 243,947 peak kilowatts, or nearly 15 percent of the domestic market share. Crystalline silicon accounted for more than 31 percent of the electric power shipments, thin-film accounted for nearly 67 percent, and concentrator accounted for 0.2 percent.

The industrial sector, with less than 3 percent of domestic shipments, was the smallest domestic sales market, totaling 48,208 peak kilowatts. Nearly 98 percent of the shipments was crystalline silicon, about 0.1 percent was thin-film, and just over 2 percent was concentrator.

### *Shipments by grid or off-grid*

U.S. PV module shipments to grid-connected distributed PV systems in 2010 accounted for 1,408,462 peak kilowatts, or more than 84 percent of the domestic market. Of the domestic shipments to grid-connected distributed PV systems, more than 93 percent was crystalline silicon, more than 6 percent was thin-film, and less than 0.3 percent was concentrator (Table 10).

U.S. PV module shipments to grid-connected centralized PV systems were the second-largest domestic market in 2010, accounting for 243,947 peak kilowatts, or close to 15 percent of the domestic market share. More than 31 percent of shipments was crystalline silicon, nearly 67 percent was thin-film, and less than 2 percent was concentrator.

PV module shipments to off-grid PV systems such as households and communities not connected to the utility grid amounted to 10,941 peak kilowatts, or less than 1 percent of the domestic market share. About 98 percent of total domestic shipments was crystalline silicon and 2 percent was thin-film.

Other off-grid PV systems such as water pumping, remote communications, safety and protection devices, at locations without the presence of the utility grid, accounted for less than 0.3 percent of domestic shipments. This was the smallest domestic end-use market, totaling 4,193 peak kilowatts. Nearly 74 percent was crystalline silicon and about 26 percent was thin-film.

## **Inventory**

In 2010, U.S. inventories of PV module at yearend were 381,189 peak kilowatts. Ending inventories of U.S. PV modules in 2010 were almost 89 percent or 179,099 peak kilowatts higher than the year-end inventories of the previous year, which totaled 202,090 peak kilowatts (Table 4). The significant year-over-year increase in inventory level was in line with the growth in production and shipments.

**Table 1. U.S. photovoltaic industry status, 2010**

Reporting Companies, total number of:	112
Employment, full-time equivalent employees:	17,487
Involvement in Photovoltaic-related Activities, number of reporting companies:	
Module and/or Cell Manufacturing	57
Module or System Design	60
Prototype Module Development	38
Prototype Systems Development	21
Wholesale Distribution	61
Retail Distribution	26
Installation	29
Non-module System Component	9
Sales as a Percent of Total Company Revenue, number of reporting companies:	
90-100%	83
50-89%	8
10-49%	6
Less than 10%	15
Companies Expecting to Introduce New Photovoltaic-related Products in 2011, by product type and number:	
Crystalline Silicon	
Single-Crystal Silicon Modules	24
Cast Silicon Modules	14
Ribbon Silicon Modules	-
Thin-Film	
Amorphous Silicon Modules	7
Other (Thin-Film Modules)	6
Concentrators	8
Non-module Components	6

- = No data reported

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 2. Value, average price and average efficiency of photovoltaic cell and module shipments by type, 2010**

Value, total shipments (cells):	thousand dollars
Total Cells:	\$1,173,355
Crystalline Silicon	\$1,136,827
Thin-Film	\$17,548
Concentrator	\$18,980
Price, average value (cells):	dollars per watt
Total Cells:	\$1.13
Crystalline Silicon	\$1.15
Thin-Film	\$1.35
Concentrator	\$0.48
Value, total shipments (modules):	thousand dollars
Total Modules:	\$5,192,669
Crystalline Silicon	\$4,290,698
Thin-Film	\$875,127
Concentrator	\$26,844
Price, average value (modules):	dollars per watt
Total Modules:	\$1.96
Crystalline Silicon	\$2.03
Thin-Film	\$1.68
Concentrator	\$2.66
Average Energy Conversion Efficiency, modules shipped:	percent per peak kilowatt
Crystalline Silicon	16%
Thin-Film	11%
Concentrator	27%

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 3. Source and disposition of photovoltaic cell shipments by type, 2010**

peak kilowatts

Cell Shipments	Type			Total
	Crystalline Silicon	Thin-Film	Concentrator	
<b>Source</b>				
Inventory, Start-of-Year	45,852	2,065	6,040	53,957
Manufactured during Reporting Year	508,904	11,794	33,267	553,964
Imported during Reporting Year	466,228	48	2,225	468,501
Purchased from U.S. Original Equipment Manufacturer	16,092	-	7,134	23,226
Total Available For Shipment	1,037,076	13,907	48,666	1,099,649
<b>Disposition</b>				
Cells Assembled into Modules	634,975	536	6,775	642,286
Sales to U.S. Original Equipment Manufacturer for Resale	206,690	288	24,456	231,434
Export Shipments	144,455	12,179	8,385	165,019
Total Shipments	986,120	13,003	39,616	1,038,739
Inventory, End-of-Year	50,956	904	9,050	60,910

- = No data reported.

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

**Source:** U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 4. Source and disposition of photovoltaic module shipments by type, 2010**

peak kilowatts

Module Shipments	Type			Total
	Crystalline Silicon	Thin-Film	Concentrator	
<b>Source</b>				
Inventory, Start-of-Year	118,645	78,057	5,388	202,090
Manufactured during Reporting Year	633,730	426,260	6,878	1,066,867
Imported during Reporting Year	1,622,315	105,152	6,682	1,734,149
Purchased from U.S. Original Equipment Manufacturer	21,546	1,035	-	22,581
Total Available For Shipment	2,396,235	610,504	18,947	3,025,686
<b>Disposition</b>				
U.S. Shipments	1,404,873	255,165	7,505	1,667,543
Export Shipments	710,007	264,351	2,596	976,955
Total Shipments	2,114,881	519,516	10,101	2,644,498
Inventory, End-of-Year	281,354	90,988	8,846	381,189

- = No data reported.

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

**Source:** U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 5. Origin of U.S. manufactured photovoltaic module shipments by State and type, 2010**

peak kilowatts

State	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Arizona	25,321	436	-	25,757	2.41%
California	167,587	88,881	4,514	260,982	24.46%
Colorado	-	30,287	-	30,287	2.84%
Delaware	22,172	-	-	22,172	2.08%
Florida	3	-	-	3	0.00%
Illinois	1,593	-	-	1,593	0.15%
Iowa	-	1,460	-	1,460	0.14%
Massachusetts	157,088	45	-	157,133	14.73%
Michigan	-	97,639	-	97,639	9.15%
New Mexico	70,862	-	2,358	73,220	6.86%
New York	1,196	-	6	1,202	0.11%
Ohio	-	207,512	-	207,512	19.45%
Oregon	33,105	-	-	33,105	3.10%
Tennessee	152,526	-	-	152,526	14.30%
Texas	1,650	-	-	1,650	0.15%
Washington	626	-	-	626	0.06%
Total	633,730	426,260	6,878	1,066,867	100.00%

- = No data reported.

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

**Source:** U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 6. Origin of photovoltaic module import shipments by country and type, 2010**

peak kilowatts

Country	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Argentina	290	-	-	290	0.02%
Canada	143	-	-	143	0.01%
China	792,233	1,069	5,663	798,965	46.07%
France	197	-	-	197	0.01%
Germany	982	-	1,000	1,982	0.11%
Hong Kong	1,525	-	-	1,525	0.09%
India	66,010	-	-	66,010	3.81%
Japan	6,913	53,505	-	60,417	3.48%
Korea, South	1,906	-	-	1,906	0.11%
Mexico	141,341	50,579	19	191,939	11.07%
Norway	2,039	-	-	2,039	0.12%
Philippines	534,479	-	-	534,479	30.82%
Singapore	33,000	-	-	33,000	1.90%
Spain	554	-	-	554	0.03%
Sweden	11,000	-	-	11,000	0.63%
Taiwan	29,682	-	-	29,682	1.71%
Thailand	22	-	-	22	0.00%
<b>Total</b>	<b>1,622,315</b>	<b>105,152</b>	<b>6,682</b>	<b>1,734,149</b>	<b>100.00%</b>

- = No data reported.

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

**Source:** U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 7. Destination of photovoltaic module export shipments by country and type, 2010**

peak kilowatts

Country	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Argentina	179	-	-	179	0.02%
Australia	19,260	548	227	20,034	2.05%
Austria	1,161	420	-	1,581	0.16%
Belgium	7,880	8,398	-	16,278	1.67%
Bermuda	-	-	-	1	*
Brazil	1,594	34	-	1,628	0.17%
Bulgaria	-	51	-	51	0.01%
Canada	55,782	48,924	4	104,710	10.72%
Chile	265	51	-	316	0.03%
China	1,977	1,874	908	4,760	0.49%
Colombia	32	-	-	32	*
Costa Rica	260	-	-	260	0.03%
Czech Republic	19,739	1,942	-	21,681	2.22%
Denmark	176	18	-	194	0.02%
Dominican Republic	7	-	-	7	*
Finland	-	6	-	6	*
France	49,332	28,026	s	77,359	7.92%
French Polynesia	706	-	-	706	0.07%
Georgia	-	2	-	2	*
Germany	250,852	85,078	2	335,931	34.39%
Greece	5,334	2,314	1,252	8,900	0.91%
Haiti	230	-	-	230	0.02%
Honduras	-	2	-	2	*
Hong Kong	-	295	-	295	0.03%
Hungary	-	1	-	1	*
India	1,953	2,075	-	4,028	0.41%
Indonesia	-	1	-	1	*
Iraq	100	-	-	100	0.01%
Ireland	-	14	-	14	*
Israel	2,556	209	-	2,765	0.28%
Italy	194,270	66,163	-	260,433	26.66%
Jamaica	119	-	-	119	0.01%
Japan	17,237	7,921	-	25,158	2.58%
Kenya	315	-	-	315	0.03%
Korea, South	6,873	1,470	17	8,360	0.86%
Latvia	-	1	-	1	*
Lebanon	216	-	-	216	0.02%
Luxembourg	3,165	-	-	3,165	0.32%
Macedonia (Skopje)	100	-	-	100	0.01%
Malaysia	1	1	8	10	*
Malta	118	-	8	126	0.01%
Mexico	104	123	25	253	0.03%
Netherlands	1,365	755	-	2,120	0.22%
New Zealand	-	90	-	90	0.01%
Nicaragua	4	-	-	4	*

See footnotes at end of table.

**Table 7. Destination of photovoltaic module export shipments by country and type, 2010 (cont.)**

peak kilowatts

Country	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Nigeria	547	-	-	547	0.06%
Norway	-	5	-	5	*
Peru	163	9	-	172	0.02%
Philippines	125	-	-	125	0.01%
Portugal	440	229	10	679	0.07%
Russia	-	130	-	130	0.01%
Saudi Arabia	1	1,365	126	1,492	0.15%
Sierra Leone	53	-	-	53	0.01%
Singapore	11,543	2	-	11,545	1.18%
Slovenia	1,216	7	-	1,223	0.13%
South Africa	60	200	8	268	0.03%
Spain	42,318	5,257	-	47,575	4.87%
Sweden	-	3	-	3	*
Switzerland	6,353	226	-	6,579	0.67%
Taiwan	8	26	-	34	*
Tajikistan	250	-	-	250	0.03%
Thailand	187	25	-	212	0.02%
Trinidad and Tobago	1	-	-	1	*
Turkey	-	7	-	7	*
United Arab Emirates	1,465	-	-	1,465	0.15%
United Kingdom	2,013	56	-	2,069	0.21%
Venezuela	1	-	-	1	*
<b>Total</b>	<b>710,007</b>	<b>264,351</b>	<b>2,596</b>	<b>976,955</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

s = Value is less than 0.5 of the table metric; value is included in any associated total.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 8. U.S. photovoltaic module shipments by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Alabama	242	s	-	243	0.01%
Alaska	99	-	-	99	0.01%
American Samoa	677	-	-	677	0.04%
Arizona	106,855	3,474	2,312	112,641	6.75%
Arkansas	104	475	-	579	0.03%
California	598,030	56,042	3,112	657,184	39.41%
Colorado	66,315	694	1,005	68,014	4.08%
Connecticut	8,205	1,150	-	9,355	0.56%
Delaware	8,824	1,141	-	9,965	0.60%
District of Columbia	390	-	-	390	0.02%
Florida	25,217	11,979	-	37,196	2.23%
Georgia	5,349	348	-	5,697	0.34%
Guam	7	-	-	7	*
Hawaii	17,102	707	-	17,809	1.07%
Idaho	250	35	-	284	0.02%
Illinois	3,585	14	-	3,599	0.22%
Indiana	2,356	1,178	-	3,534	0.21%
Iowa	109	4	-	113	0.01%
Kansas	496	62	-	558	0.03%
Kentucky	682	141	-	823	0.05%
Louisiana	2,509	31	-	2,540	0.15%
Maine	614	4	-	618	0.04%
Maryland	26,823	5,451	-	32,274	1.94%
Massachusetts	32,696	301	-	32,997	1.98%
Michigan	6,371	1,018	-	7,389	0.44%
Minnesota	1,813	49	-	1,862	0.11%
Mississippi	1	s	-	1	*
Missouri	969	86	-	1,056	0.06%
Montana	575	10	-	585	0.04%
Montana	575	10	-	585	0.04%
Nebraska	171	41	-	212	0.01%
Nevada	16,470	63,162	-	79,632	4.78%
New Hampshire	4,450	41	-	4,491	0.27%
New Jersey	231,546	14,974	-	246,521	14.78%
New Mexico	21,818	37,790	1,000	60,608	3.63%
New York	46,118	9,320	-	55,437	3.32%
North Carolina	29,172	22	-	29,194	1.75%
North Dakota	116	-	-	116	0.01%
Ohio	6,075	17,026	-	23,101	1.39%
Oklahoma	679	60	-	739	0.04%
Oregon	7,474	92	-	7,567	0.45%
Pennsylvania	44,636	7,568	-	52,204	3.13%

See footnotes at end of table.

**Table 8. U.S. photovoltaic module shipments by State/territory and type, 2010 (cont.)**

(peak kilowatts)

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Puerto Rico	8,550	22	-	8,572	0.51%
Rhode Island	1,947	1	-	1,948	0.12%
South Carolina	451	1	-	452	0.03%
South Dakota	102	1	-	103	0.01%
Tennessee	5,372	52	-	5,424	0.33%
Texas	39,876	18,683	77	58,636	3.52%
Utah	1,505	10	-	1,515	0.09%
Vermont	10,388	8	-	10,396	0.62%
Virgin Islands of the U.S.	83	-	-	83	*
Virginia	2,541	77	-	2,618	0.16%
Washington	4,607	90	-	4,698	0.28%
West Virginia	426	2	-	428	0.03%
Wisconsin	2,145	1,722	-	3,867	0.23%
Wyoming	888	6	-	894	0.05%
<b>Total</b>	<b>1,404,873</b>	<b>255,165</b>	<b>7,505</b>	<b>1,667,543</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

s = Value is less than 0.5 of the table metric; value is included in any associated total.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 9. U.S. photovoltaic module shipments by sector, end use, and type, 2010**

peak kilowatts

Sector	End Use	Type			Total
		Crystalline Silicon	Thin-Film	Concentrator	
Residential	Grid-connected Centralized PV System	-	-	-	-
	Grid-connected Distributed PV System	427,041	35,376	-	462,417
	Off-grid Domestic PV System	4,489	221	-	4,710
	Off-grid Non-domestic PV System	31	6	-	37
<b>Total</b>		<b>431,562</b>	<b>35,603</b>	<b>-</b>	<b>467,165</b>
Commercial	Grid-connected Centralized PV System	-	-	-	-
	Grid-connected Distributed PV System	847,642	55,473	2,192	905,306
	Off-grid Domestic PV System	13	-	-	13
	Off-grid Non-domestic PV System	1,871	1,034	-	2,905
<b>Total</b>		<b>849,526</b>	<b>56,506</b>	<b>2,192</b>	<b>908,224</b>
Industrial	Grid-connected Centralized PV System	-	-	-	-
	Grid-connected Distributed PV System	39,738	-	1,001	40,739
	Off-grid Domestic PV System	6,218	-	-	6,218
	Off-grid Non-domestic PV System	1,185	66	-	1,251
<b>Total</b>		<b>47,141</b>	<b>66</b>	<b>1,001</b>	<b>48,208</b>
Electric Power	Grid-connected Centralized PV System	76,645	162,989	4,313	243,947
	Grid-connected Distributed PV System	-	-	-	-
	Off-grid Domestic PV System	-	-	-	-
	Off-grid Non-domestic PV System	-	-	-	-
<b>Total</b>		<b>76,645</b>	<b>162,989</b>	<b>4,313</b>	<b>243,947</b>
<b>Total U.S. Photovoltaic Module Shipments</b>		<b>1,404,873</b>	<b>255,165</b>	<b>7,505</b>	<b>1,667,543</b>

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 10. U.S. photovoltaic module shipments by end use, sector, and type, 2010**

peak kilowatts

End Use	Sector	Type			Total
		Crystalline Silicon	Thin-Film	Concentrator	
Grid-connected Centralized PV System	Residential	-	-	-	-
	Commercial	-	-	-	-
	Industrial	-	-	-	-
	Electric Power	76,645	162,989	4,313	243,947
<b>Total</b>		76,645	162,989	4,313	243,947
Grid-connected Distributed PV System	Residential	427,041	35,376	-	462,417
	Commercial	847,642	55,473	2,192	905,306
	Industrial	39,738	-	1,001	40,739
	Electric Power	-	-	-	-
<b>Total</b>		1,314,422	90,848	3,193	1,408,462
Off-grid Domestic PV System	Residential	4,489	221	-	4,710
	Commercial	13	-	-	13
	Industrial	6,218	-	-	6,218
	Electric Power	-	-	-	-
<b>Total</b>		10,719	221	-	10,941
Off-grid Non-domestic PV System	Residential	31	6	-	37
	Commercial	1,871	1,034	-	2,905
	Industrial	1,185	66	-	1,251
	Electric Power	-	-	-	-
<b>Total</b>		3,088	1,106	-	4,193
<b>Total U.S. Photovoltaic Module Shipments</b>		<b>1,404,873</b>	<b>255,165</b>	<b>7,505</b>	<b>1,667,543</b>

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 11. U.S. photovoltaic module shipments to residential sector by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Alabama	157	s	-	158	0.03%
Alaska	69	-	-	69	0.01%
Arizona	44,329	28	-	44,357	9.50%
Arkansas	104	s	-	104	0.02%
California	208,612	16,726	-	225,338	48.24%
Colorado	13,905	232	-	14,137	3.03%
Connecticut	2,509	5	-	2,514	0.54%
Delaware	4,373	1	-	4,374	0.94%
District of Columbia	251	-	-	251	0.05%
Florida	6,088	67	-	6,155	1.32%
Georgia	698	6	-	703	0.15%
Guam	7	-	-	7	*
Hawaii	8,395	10	-	8,405	1.80%
Idaho	141	8	-	149	0.03%
Illinois	488	10	-	498	0.11%
Indiana	264	12	-	276	0.06%
Iowa	99	-	-	99	0.02%
Kansas	204	14	-	218	0.05%
Kentucky	109	7	-	116	0.02%
Louisiana	1,679	20	-	1,699	0.36%
Maine	454	1	-	455	0.10%
Maryland	10,568	5,284	-	15,852	3.39%
Massachusetts	4,893	93	-	4,986	1.07%
Michigan	2,229	24	-	2,252	0.48%
Minnesota	439	7	-	446	0.10%
Mississippi	1	s	-	1	*
Missouri	675	1	-	675	0.14%
Montana	477	10	-	487	0.10%
Nebraska	58	17	-	75	0.02%
Nevada	6,207	2,739	-	8,946	1.91%
New Hampshire	4,178	15	-	4,193	0.90%
New Jersey	35,916	5	-	35,921	7.69%
New Mexico	9,004	17	-	9,021	1.93%
New York	21,295	8,489	-	29,784	6.38%
North Carolina	1,099	12	-	1,112	0.24%
North Dakota	4	-	-	4	*
Ohio	3,738	354	-	4,092	0.88%
Oklahoma	240	21	-	261	0.06%
Oregon	2,188	28	-	2,216	0.47%
Pennsylvania	13,791	18	-	13,809	2.96%

See footnotes at end of table.

**Table 11. U.S. photovoltaic module shipments to residential sector by State/territory and type, 2010 (cont.)**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Puerto Rico	109	-	-	109	0.02%
Rhode Island	1,186	-	-	1,186	0.25%
South Carolina	280	-	-	280	0.06%
South Dakota	57	1	-	58	0.01%
Tennessee	1,092	8	-	1,100	0.24%
Texas	10,403	1,247	-	11,650	2.49%
Utah	484	7	-	491	0.11%
Vermont	3,038	7	-	3,045	0.65%
Virgin Islands of the U.S.	4	-	-	4	*
Virginia	1,280	5	-	1,285	0.28%
Washington	2,318	35	-	2,353	0.50%
West Virginia	44	2	-	46	0.01%
Wisconsin	994	4	-	998	0.21%
Wyoming	339	6	-	345	0.07%
<b>Total</b>	<b>431,562</b>	<b>35,603</b>	<b>-</b>	<b>467,165</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

s = Value is less than 0.5 of the table metric; value is included in any associated total.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 12. U.S. photovoltaic module shipments to commercial sector by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Alabama	85	-	-	85	0.01%
Alaska	29	-	-	29	*
American Samoa	677	-	-	677	0.07%
Arizona	54,188	3,441	-	57,629	6.35%
Arkansas	-	475	-	475	0.05%
California	346,912	12,797	2,188	361,897	39.85%
Colorado	29,639	462	4	30,104	3.31%
Connecticut	5,696	1,145	-	6,841	0.75%
Delaware	4,251	1,140	-	5,391	0.59%
District of Columbia	140	-	-	140	0.02%
Florida	15,824	1,832	-	17,655	1.94%
Georgia	4,413	333	-	4,746	0.52%
Hawaii	8,707	697	-	9,404	1.04%
Idaho	109	27	-	136	0.01%
Illinois	2,941	4	-	2,945	0.32%
Indiana	2,092	1,166	-	3,258	0.36%
Iowa	10	4	-	14	*
Kansas	292	48	-	340	0.04%
Kentucky	72	134	-	206	0.02%
Louisiana	603	11	-	614	0.07%
Maine	160	3	-	163	0.02%
Maryland	15,689	166	-	15,856	1.75%
Massachusetts	23,952	208	-	24,160	2.66%
Michigan	4,143	995	-	5,137	0.57%
Minnesota	1,374	42	-	1,416	0.16%
Missouri	208	85	-	294	0.03%
Nebraska	33	24	-	57	0.01%
Nevada	10,262	796	-	11,059	1.22%
New Hampshire	272	26	-	298	0.03%
New Jersey	188,958	14,470	-	203,428	22.40%
New Mexico	10,520	62	-	10,582	1.17%
New York	24,029	831	-	24,860	2.74%
North Carolina	8,683	10	-	8,693	0.96%
North Dakota	21	-	-	21	*
Ohio	2,337	7,518	-	9,855	1.09%
Oklahoma	33	39	-	72	0.01%
Oregon	5,287	64	-	5,351	0.59%
Pennsylvania	30,845	4,512	-	35,357	3.89%

See footnotes at end of table.

**Table 12. U.S. photovoltaic module shipments to commercial sector by State/territory and type, 2010 (cont.)**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Puerto Rico	4,441	22	-	4,463	0.49%
Rhode Island	761	1	-	762	0.08%
South Carolina	171	1	-	172	0.02%
South Dakota	20	-	-	20	*
Tennessee	4,280	44	-	4,324	0.48%
Texas	24,085	1,023	-	25,109	2.76%
Utah	820	3	-	823	0.09%
Vermont	7,350	1	-	7,351	0.81%
Virgin Islands of the U.S.	79	-	-	79	0.01%
Virginia	1,151	72	-	1,223	0.13%
Washington	1,292	56	-	1,348	0.15%
West Virginia	352	-	-	352	0.04%
Wisconsin	1,151	1,718	-	2,869	0.32%
Wyoming	85	-	-	85	0.01%
<b>Total</b>	<b>849,526</b>	<b>56,506</b>	<b>2,192</b>	<b>908,224</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 13. U.S. photovoltaic module shipments to industrial sector by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Arizona	2,348	-	-	2,348	4.87%
California	30,080	-	924	31,004	64.31%
Colorado	2,713	-	-	2,713	5.63%
Delaware	200	-	-	200	0.41%
Florida	113	-	-	113	0.23%
Georgia	239	-	-	239	0.50%
Illinois	156	-	-	156	0.32%
Kentucky	501	-	-	501	1.04%
Louisiana	227	-	-	227	0.47%
Maryland	566	-	-	566	1.17%
Massachusetts	51	-	-	51	0.11%
Missouri	87	-	-	87	0.18%
Montana	98	-	-	98	0.20%
Nebraska	80	-	-	80	0.17%
New Jersey	4,538	-	-	4,538	9.41%
New Mexico	234	-	-	234	0.49%
New York	793	-	-	793	1.64%
North Dakota	90	-	-	90	0.19%
Oklahoma	406	-	-	406	0.84%
South Dakota	25	-	-	25	0.05%
Texas	1,795	66	77	1,938	4.02%
Utah	201	-	-	201	0.42%
Virginia	110	-	-	110	0.23%
Washington	997	-	-	997	2.07%
West Virginia	30	-	-	30	0.06%
Wyoming	464	-	-	464	0.96%
<b>Total</b>	<b>47,141</b>	<b>66</b>	<b>1,001</b>	<b>48,208</b>	<b>100.00%</b>

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 14. U.S. photovoltaic module shipments to electric power sector by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Arizona	5,990	4	2,312	8,306	3.40%
California	12,427	26,519	-	38,946	15.96%
Colorado	20,059	-	1,001	21,060	8.63%
Florida	3,193	10,080	-	13,273	5.44%
Georgia	-	9	-	9	0.00%
Massachusetts	3,800	-	-	3,800	1.56%
Nevada	-	59,627	-	59,627	24.44%
New Jersey	2,134	500	-	2,634	1.08%
New Mexico	2,060	37,711	1,000	40,771	16.71%
North Carolina	19,389	-	-	19,389	7.95%
Ohio	-	9,154	-	9,154	3.75%
Pennsylvania	-	3,038	-	3,038	1.25%
Puerto Rico	4,000	-	-	4,000	1.64%
Texas	3,593	16,347	-	19,940	8.17%
<b>Total</b>	<b>76,645</b>	<b>162,989</b>	<b>4,313</b>	<b>243,947</b>	<b>100.00%</b>

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 15. U.S. photovoltaic module shipments to grid-connected centralized PV system by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Arizona	5,990	4	2,312	8,306	3.40%
California	12,427	26,519	-	38,946	15.96%
Colorado	20,059	-	1,001	21,060	8.63%
Florida	3,193	10,080	-	13,273	5.44%
Georgia	-	9	-	9	0.00%
Massachusetts	3,800	-	-	3,800	1.56%
Nevada	-	59,627	-	59,627	24.44%
New Jersey	2,134	500	-	2,634	1.08%
New Mexico	2,060	37,711	1,000	40,771	16.71%
North Carolina	19,389	-	-	19,389	7.95%
Ohio	-	9,154	-	9,154	3.75%
Pennsylvania	-	3,038	-	3,038	1.25%
Puerto Rico	4,000	-	-	4,000	1.64%
Texas	3,593	16,347	-	19,940	8.17%
<b>Total</b>	<b>76,645</b>	<b>162,989</b>	<b>4,313</b>	<b>243,947</b>	<b>100.00%</b>

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 16. U.S. photovoltaic module shipments to grid-connected distributed PV system by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Alabama	242	-	-	242	0.02%
Alaska	43	-	-	43	*
American Samoa	677	-	-	677	0.05%
Arizona	99,666	3,470	-	103,135	7.32%
Arkansas	104	475	-	579	0.04%
California	583,068	29,212	3,112	615,393	43.69%
Colorado	46,026	665	4	46,695	3.32%
Connecticut	8,197	1,138	-	9,335	0.66%
Delaware	8,819	1,140	-	9,959	0.71%
District of Columbia	387	-	-	387	0.03%
Florida	21,928	1,639	-	23,567	1.67%
Georgia	5,107	315	-	5,422	0.38%
Guam	7	-	-	7	*
Hawaii	16,901	707	-	17,608	1.25%
Idaho	250	35	-	284	0.02%
Illinois	3,484	10	-	3,494	0.25%
Indiana	2,254	1,162	-	3,416	0.24%
Iowa	100	-	-	100	0.01%
Kansas	496	56	-	552	0.04%
Kentucky	618	141	-	759	0.05%
Louisiana	2,281	20	-	2,301	0.16%
Maine	510	1	-	511	0.04%
Maryland	26,117	5,421	-	31,537	2.24%
Massachusetts	28,894	294	-	29,189	2.07%
Michigan	6,370	1,006	-	7,377	0.52%
Minnesota	1,723	34	-	1,757	0.12%
Missouri	883	86	-	969	0.07%
Montana	358	10	-	368	0.03%
Nebraska	90	38	-	129	0.01%
Nevada	15,010	3,535	-	18,545	1.32%
New Hampshire	4,372	15	-	4,387	0.31%
New Jersey	229,374	14,435	-	243,810	17.31%
New Mexico	19,374	47	-	19,420	1.38%
New York	45,509	9,175	-	54,684	3.88%
North Carolina	9,781	19	-	9,800	0.70%
North Dakota	25	-	-	25	*
Ohio	6,074	7,851	-	13,925	0.99%
Oklahoma	273	43	-	316	0.02%
Oregon	7,471	92	-	7,563	0.54%
Pennsylvania	44,618	4,530	-	49,148	3.49%

See footnotes at end of table.

**Table 16. U.S. photovoltaic module shipments to grid-connected distributed PV system by State/territory and type, 2010 (cont.)**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Puerto Rico	4,550	22	-	4,572	0.32%
Rhode Island	1,947	-	-	1,947	0.14%
South Carolina	395	-	-	395	0.03%
South Dakota	77	1	-	78	0.01%
Tennessee	5,240	52	-	5,292	0.38%
Texas	34,004	2,176	77	36,257	2.57%
Utah	1,292	7	-	1,299	0.09%
Vermont	10,388	7	-	10,395	0.74%
Virgin Islands of the U.S.	82	-	-	82	0.01%
Virginia	2,540	5	-	2,545	0.18%
Washington	3,588	87	-	3,675	0.26%
West Virginia	395	-	-	395	0.03%
Wisconsin	2,018	1,675	-	3,693	0.26%
Wyoming	421	-	-	421	0.03%
<b>Total</b>	<b>1,314,422</b>	<b>90,848</b>	<b>3,193</b>	<b>1,408,462</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 17. U.S. photovoltaic module shipments to off-grid Domestic PV system by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Alabama	s	s	-	s	*
Alaska	55	-	-	55	0.51%
Arizona	1,055	-	-	1,055	9.64%
Arkansas	s	s	-	1	0.01%
California	2,032	200	-	2,232	20.40%
Colorado	230	-	-	230	2.10%
Connecticut	8	-	-	8	0.07%
Delaware	4	1	-	5	0.05%
District of Columbia	3	-	-	3	0.03%
Florida	96	-	-	96	0.88%
Georgia	242	-	-	242	2.21%
Hawaii	201	-	-	201	1.84%
Illinois	101	-	-	101	0.92%
Indiana	102	12	-	114	1.04%
Iowa	10	-	-	10	0.09%
Kentucky	64	-	-	64	0.59%
Louisiana	228	-	-	228	2.08%
Maine	104	-	-	104	0.95%
Maryland	573	-	-	573	5.24%
Massachusetts	1	-	-	1	0.01%
Michigan	1	-	-	1	0.01%
Mississippi	1	s	-	1	0.01%
Missouri	87	-	-	87	0.79%
Montana	119	-	-	119	1.09%
Nebraska	80	-	-	80	0.74%
Nevada	11	-	-	11	0.10%
New Hampshire	78	-	-	78	0.72%
New Jersey	38	-	-	38	0.34%
New Mexico	385	-	-	385	3.51%
New York	609	-	-	609	5.57%
North Carolina	2	-	-	2	0.02%
North Dakota	90	-	-	90	0.82%
Ohio	1	-	-	1	0.01%
Oklahoma	406	-	-	406	3.71%
Oregon	4	-	-	4	0.03%
Pennsylvania	18	-	-	18	0.17%

See footnotes at end of table.

**Table 17. U.S. photovoltaic module shipments to off-grid domestic PV system by State/territory and type, 2010 (cont.)**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
South Carolina	56	-	-	56	0.51%
South Dakota	25	-	-	25	0.23%
Tennessee	132	-	-	132	1.21%
Texas	1,612	-	-	1,612	14.73%
Utah	213	-	-	213	1.95%
Vermont	s	-	-	s	*
Virgin Islands of the U.S.	1	-	-	1	0.01%
Virginia	1	-	-	1	*
Washington	1,016	-	-	1,016	9.29%
West Virginia	31	2	-	33	0.30%
Wisconsin	127	-	-	127	1.16%
Wyoming	467	6	-	472	4.32%
<b>Total</b>	<b>10,719</b>	<b>221</b>	<b>-</b>	<b>10,941</b>	<b>100.00%</b>

\* = Less than 0.01 percent.

s = Value is less than 0.5 of the table metric; value is included in any associated total.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."

**Table 18. U.S. photovoltaic module shipments to off-grid non-domestic PV system by State/territory and type, 2010**

peak kilowatts

State/Territory	Type			Total	Percent of U.S. Total
	Crystalline Silicon	Thin-Film	Concentrator		
Arizona	145	-	-	145	3.46%
California	502	111	-	613	14.62%
Colorado	s	29	-	29	0.70%
Connecticut	-	12	-	12	0.29%
Florida	-	260	-	260	6.20%
Georgia	-	24	-	24	0.57%
Illinois	-	4	-	4	0.10%
Indiana	-	4	-	4	0.10%
Iowa	-	4	-	4	0.10%
Kansas	-	6	-	6	0.14%
Louisiana	-	11	-	11	0.26%
Maine	-	3	-	3	0.07%
Maryland	133	30	-	163	3.89%
Massachusetts	-	7	-	7	0.17%
Michigan	-	12	-	12	0.29%
Minnesota	90	15	-	105	2.50%
Montana	98	-	-	98	2.33%
Nebraska	-	3	-	3	0.07%
Nevada	1,449	-	-	1,449	34.56%
New Hampshire	-	26	-	26	0.62%
New Jersey	-	39	-	39	0.93%
New Mexico	-	32	-	32	0.76%
New York	-	145	-	145	3.45%
North Carolina	-	3	-	3	0.07%
Ohio	-	21	-	21	0.49%
Oklahoma	-	17	-	17	0.41%
Rhode Island	-	1	-	1	0.02%
South Carolina	-	1	-	1	0.02%
Texas	667	160	-	827	19.73%
Utah	-	3	-	3	0.07%
Vermont	-	1	-	1	0.02%
Virginia	-	72	-	72	1.72%
Washington	3	3	-	6	0.14%
Wisconsin	-	47	-	47	1.13%
<b>Total</b>	<b>3,088</b>	<b>1,106</b>	<b>-</b>	<b>4,193</b>	<b>100.00%</b>

s = Value is less than 0.5 of the table metric; value is included in any associated total.

- = No data reported.

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

Source: U.S. Energy Information Administration, Form EIA-63B, "Annual Photovoltaic Cell/Module Shipments Report."