



2024 Monthly Solar Photovoltaic Module Shipments Report

December 2024

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Table 1. U.S. photovoltaic industry status, 2024
Not published monthly

Table 2. Value and average value of photovoltaic module shipments, 2024
See Table 3.

Table 3. Monthly photovoltaic module shipments, 2006–2024

Year and month	Total shipments (peak kilowatts)	Value (thousand dollars)	Average value (dollars per peak watt)
2006	320,208	\$1,120,728	\$3.50
2007	494,148	\$1,665,279	\$3.37
2008	920,693	\$3,213,219	\$3.49
2009	1,188,879	\$3,316,972	\$2.79
2010	2,644,498	\$5,192,670	\$1.96
2011	3,772,075	\$5,990,348	\$1.59
2012	4,655,005	\$5,341,383	\$1.15
2013	4,984,881	\$3,754,813	\$0.75
2014	6,237,524	\$5,425,418	\$0.87
2015	9,942,978	\$7,014,257	\$0.71
2016	13,451,187	\$9,701,365	\$0.72
2017	10,864,545	\$5,238,043	\$0.48
2018	7,971,622	\$3,563,669	\$0.45
2019	16,372,314	\$6,707,456	\$0.41
2020	21,770,903	\$9,814,022	\$0.45
2021	26,339,920	\$8,886,278	\$0.34
2022			
January	1,517,757	\$517,457	\$0.34
February	1,303,063	\$468,724	\$0.36
March	2,239,901	\$891,226	\$0.40
April	1,549,900	\$598,395	\$0.39
May	1,752,018	\$678,064	\$0.39
June	2,946,753	\$1,002,037	\$0.34
July	1,711,151	\$697,418	\$0.41
August	1,936,813	\$819,017	\$0.42
September	2,370,313	\$1,064,117	\$0.45
October	2,216,687	\$907,834	\$0.41
November	2,352,138	\$924,291	\$0.39
December	3,018,474	\$1,213,923	\$0.40
2023			
January	2,100,231	\$729,234	\$0.35
February	2,033,291	\$744,318	\$0.37
March	2,863,845	\$1,069,950	\$0.37
April	1,859,761	\$696,244	\$0.37
May	2,359,006	\$870,099	\$0.37
June	2,729,960	\$988,011	\$0.36
July	3,106,012	\$968,596	\$0.31
August	2,675,659	\$924,543	\$0.35
September	2,868,944	\$984,954	\$0.34
October	3,323,952	\$1,072,482	\$0.32
November	3,323,776	\$1,016,112	\$0.31
December	3,931,790	\$1,237,120	\$0.31
2024			
January	2,110,713	\$705,469	\$0.33
February	2,518,795	\$814,986	\$0.32
March	3,330,842	\$1,119,243	\$0.34
April	2,520,071	\$800,558	\$0.32
May	3,380,267	\$1,075,658	\$0.32
June	4,813,125	\$1,472,805	\$0.31
July	2,991,340	\$858,053	\$0.29
August	2,508,169	\$762,348	\$0.30
September	3,739,792	\$1,067,422	\$0.29

Data source: U.S. Energy Information Administration, Form EIA-63B, *Monthly Photovoltaic Module Shipments Report*

Note: Includes both domestic shipments and exports. Monthly data for 2021–2024 are based on a subset of the largest manufacturers representing about 90% of the previous year's total shipments.

Table 4. Average value of photovoltaic modules, 2024
See Table 3.

Table 5. Source and disposition of photovoltaic cell shipments, 2024

No longer published as of 2016

**Table 6. Source and disposition of photovoltaic module shipments, 2022–2024
peak kilowatts**

Year	Month	Source		Disposition	
		Imported during reporting month	U.S. shipments and sales to U.S. OEM for resale	Export shipments	Total shipments
2022	January	1,343,542	1,433,104	84,654	1,517,757
	February	1,463,157	1,229,785	73,278	1,303,063
	March	1,757,779	2,146,994	92,907	2,239,901
	April	1,191,438	1,512,040	37,860	1,549,900
	May	1,862,885	1,714,376	37,642	1,752,018
	June	2,081,319	2,912,453	34,301	2,946,753
	July	1,905,921	1,692,832	18,319	1,711,151
	August	2,326,973	1,902,779	34,035	1,936,813
	September	2,500,672	2,320,178	50,135	2,370,313
	October	2,429,593	2,187,878	28,810	2,216,687
	November	2,127,001	2,319,938	32,200	2,352,138
	December	2,460,515	2,929,599	88,875	3,018,474
2023	January	2,260,310	W	W	2,100,231
	February	1,831,588	W	W	2,033,291
	March	1,660,881	W	W	2,863,845
	April	1,886,677	W	W	1,859,761
	May	2,078,647	W	W	2,359,006
	June	2,043,603	W	W	2,729,960
	July	2,559,441	W	W	3,106,012
	August	2,320,364	W	W	2,675,659
	September	2,151,582	W	W	2,868,944
	October	2,125,995	W	W	3,323,952
	November	2,241,285	W	W	3,323,776
	December	3,125,242	W	W	3,931,790
2024	January	2,719,249	W	W	2,110,713
	February	2,345,986	2,395,520	123,275	2,518,795
	March	2,713,334	W	W	3,330,842
	April	2,722,438	W	W	2,520,071
	May	2,796,730	3,235,782	144,484	3,380,267
	June	2,401,908	4,719,217	93,909	4,813,125
	July	1,806,359	W	W	2,991,340
	August	2,317,962	2,448,410	59,759	2,508,169
	September	1,697,396	3,703,486	36,306	3,739,792

Data source: U.S. Energy Information Administration, Form EIA-63B, *Monthly Photovoltaic Module Shipments Report*

Note: Monthly data are based on a subset of the largest manufacturers representing about 90% of the previous year's total shipments.

W=withheld to protect sensitive data; OEM=original equipment manufacturer

Table 7. Photovoltaic module import shipments by country, 2024

Imports at the national level are published in Table 6. Country of origin is not published to protect individual company data.

Table 8. Destination of photovoltaic module export shipments, 2024

Exports at the national level are published in Table 6. Destination country is not published to protect individual company data.

Table 9. U.S. photovoltaic module shipments by state or territory, 2024
peak kilowatts

State, territory, or district	January		February		March		April		May		June		July		August		September	
	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total
Alabama	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Alaska	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Arizona	106,150	W	88,252	W	106,947	W	113,510	W	105,752	W	130,906	W	225,001	W	200,723	W	621,922	W
Arkansas	W	W	W	W	W	W	W	W	9,480	W	W	W	2,790	W	W	W	W	W
California	228,590	W	92,747	W	255,149	W	274,511	W	466,674	W	363,946	W	338,458	W	353,542	W	451,041	W
Colorado	3,737	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	35,983	W
Connecticut	W	W	W	W	23,111	W	51,093	W	34,760	W	W	W	22,178	W	11,985	W	W	W
Delaware	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
District of Columbia	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Florida	27,790	W	47,630	W	W	W	86,897	W	W	W	W	W	186,243	W	129,826	W	34,103	W
Georgia	107,400	W	W	W	W	W	90,884	W	W	W	W	W	3,306	W	14,171	W	W	W
Guam	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Hawaii	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Idaho	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Illinois	50,638	W	170,267	W	253,394	W	57,189	W	281,965	W	438,698	W	181,874	W	207,040	W	255,293	W
Indiana	34,095	W	107,922	W	W	W	35,808	W	13,057	W	W	W	11,146	W	5,660	W	W	W
Iowa	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Kansas	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Kentucky	W	W	87,213	W	93,297	W	125,890	W	118,036	W	94,416	W	W	W	W	W	41,319	W
Louisiana	W	W	75,211	W	W	W	W	W	10,898	W	W	W	5,989	W	W	W	W	W
Maine	639	W	W	W	W	W	W	W	W	W	W	W	W	W	4,668	W	W	W
Maryland	W	W	W	W	W	W	W	W	W	W	W	W	6,855	W	10,969	W	W	W
Massachuset ts	8,991	W	W	W	W	W	W	W	46,759	W	29,848	W	15,723	W	10,326	W	W	W
Michigan	W	W	W	W	50,410	W	42,517	W	W	W	69,592	W	W	W	W	W	W	W
Minnesota	W	W	W	W	W	W	W	W	W	W	6,217	W	W	W	W	W	W	W
Mississippi	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Missouri	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Montana	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Nebraska	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Nevada	12,811	W	W	W	W	W	W	W	W	W	3,366	W	6,322	W	W	W	6,134	W
New Hampshire	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
New Jersey	95,659	W	41,318	W	171,771	W	38,696	W	30,806	W	508,648	W	88,871	W	21,968	W	W	W
New Mexico	15,028	W	W	W	W	W	W	W	1,942	W	W	W	W	W	W	W	W	W
New York	7,134	W	W	W	W	W	W	W	W	W	65,534	W	W	W	51,570	W	48,741	W

State, territory, or district	January		February		March		April		May		June		July		August		September	
	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total	Total	Perce ntage of U.S. total
North Carolina	W	W	W	W	W	W	W	W	W	W	60,631	W	W	W	121,726	W	28,590	W
North Dakota	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Ohio	96,702	W	134,013	W	292,016	W	216,685	W	302,868	W	293,757	W	170,037	W	W	W	312,289	W
Oklahoma	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Oregon	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	3,591	W
Pennsylvania	47,811	W	W	W	W	W	W	W	W	W	W	W	82,833	W	W	W	200,388	W
Puerto Rico	W	W	W	W	7,441	W	W	W	5,150	W	15,036	W	W	W	W	W	W	W
Rhode Island	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
South Carolina	13,927	W	3,103	W	2,757	W	W	W	6,803	W	234,670	W	46,982	W	W	W	W	W
South Dakota	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Tennessee	W	W	W	W	W	W	W	W	W	W	W	W	7,456	W	W	W	W	W
Texas	551,782	W	765,813	W	994,275	W	603,637	W	725,861	W	528,756	W	558,125	W	132,541	W	439,826	W
U.S. Minor Outlying Islands	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Utah	W	W	W	W	W	W	W	W	W	W	W	W	128,833	W	W	W	W	W
Vermont	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	1,219	W
Virgin Islands	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Virginia	3,159	W	W	W	W	W	W	W	38,102	W	W	W	140,591	W	W	W	57,040	W
Washington	W	W	W	W	W	W	W	W	W	W	W	W	W	W	2,346	W	806	W
West Virginia	W	W	W	W	W	W	W	W	7,741	W	W	W	W	W	W	W	W	W
Wisconsin	W	W	51,617	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
Wyoming	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W
U.S. total	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W	W

Data source: U.S. Energy Information Administration, Form EIA-63B, *Annual Photovoltaic Module Shipments Report*
Note: Monthly data for 2024 are based on a subset of the largest manufacturers representing about 90% of the previous year's total shipments. Totals include both shipments to the United States by state and sales to U.S. original equipment manufacturers for resale.
W=withheld to protect sensitive data