



Independent Statistics & Analysis
U.S. Energy Information
Administration

2020 Annual Solar Photovoltaic Module Shipments Report

July 2021



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Table 1. U.S. photovoltaic industry status, 2020
NOT PUBLISHED FOR 2020

Table 2. Value and average value of photovoltaic module shipments, 2020

Module value, total shipments (thousand dollars)	
Total modules	\$8,228,467
Module average value (dollars per peak watt)	
Total modules	\$0.38

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

Note: Dollars are not adjusted for inflation.

Table 3. Annual photovoltaic module shipments, 2006–20 (peak kilowatts)

Year	Modules
2006	320,208
2007	494,148
2008	920,693
2009	1,188,879
2010	2,644,498
2011	3,772,075
2012	4,655,005
2013	4,984,881
2014	6,237,524
2015	9,942,978
2016	13,451,187
2017	10,864,545
2018	7,971,622
2019	16,372,314
2020	21,770,903

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

Note: Includes both U.S. shipments and exports.

Table 4. Average value of photovoltaic modules, 2006–20 (dollars per peak watt)

Year	Modules
2006	\$3.50
2007	\$3.37
2008	\$3.49
2009	\$2.79
2010	\$1.96
2011	\$1.59
2012	\$1.15
2013	\$0.75
2014	\$0.87
2015	\$0.71
2016	\$0.72
2017	\$0.48
2018	\$0.45
2019	\$0.41
2020	\$0.38

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

Note: Dollars are not adjusted for inflation.

Table 5. Source and disposition of photovoltaic cell shipments, 2020
NOT PUBLISHED FOR 2020

Table 6. Source and disposition of photovoltaic module shipments, 2020
(peak kilowatts)

Module shipments	Total
Source	
Inventory, start-of-year	Q
Manufactured during reporting year	2,379,209
Imported during reporting year	19,286,540
Purchased from U.S. OEM	82,240
Total available for shipment	24,028,175
Disposition	
U.S. shipments and sales to U.S. OEM* for resale	21,394,420
Export shipments	376,483
Total shipments	21,770,903
Inventory, End-of-Year	Q

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

Note: OEM is Original Equipment Manufacturer. Q = poor data quality.

Table 7. Photovoltaic module import shipments by country, 2020**(peak kilowatts)**

Country	Total
China, Hong Kong, Singapore & Taiwan	947,968
Malaysia	3,229,724
North America	1,729,403
South Korea and Thailand	4,445,418
Vietnam	8,149,741
Other	784,286
Total	19,286,540

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

Note: Country-specific data are from monthly respondents only.

Table 8. Destination of photovoltaic module export shipments, 2020
NOT PUBLISHED FOR 2020

Table 9. U.S. photovoltaic module shipments by state/territory, 2020 (peak kilowatts)

State	Total
Alabama	W
Alaska	W
Arkansas	37,939
Arizona	442,378
California	2,695,420
Colorado	128,553
Connecticut	109,228
District of Columbia	W
Delaware	W
Florida	1,535,081
Georgia	695,739
Guam	W
Hawaii	55,744
Iowa	18,941
Idaho	4,193
Illinois	113,031
Indiana	W
Kansas	W
Kentucky	W
Louisiana	W
Massachusetts	393,055
Maryland	75,447
Maine	2,185
Michigan	6,736
Minnesota	66,660
Missouri	12,265
Mississippi	W
Montana	W
Nebraska	W
New Hampshire	W
New Jersey	588,992
New Mexico	46,095
New York	274,928
Nevada	307,731
North Carolina	W
North Dakota	W
Ohio	50,843
Oklahoma	W
Oregon	W
Pennsylvania	76,961
Puerto Rico	3,124
Rhode Island	47,914
South Carolina	W
South Dakota	W
Tennessee	645,390
Texas	1,559,448
Utah	192,778
Vermont	28,626
Virginia	494,620
Washington	35,480
Wisconsin	5,179
West Virginia	W
Wyoming	W

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

Note: State data collected from monthly respondents only. W = Withheld to protect sensitive data.