

FIRST SOLAR, INC.  
Form 10-Q  
August 04, 2016  
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UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

Form 10-Q

(Mark one)

QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the quarterly period ended June 30, 2016

or

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_ to \_\_\_\_\_

Commission file number: 001-33156

First Solar, Inc.

(Exact name of registrant as specified in its charter)

Delaware

20-4623678

(State or other jurisdiction of incorporation or organization) (I.R.S. Employer Identification No.)

350 West Washington Street, Suite 600

Tempe, Arizona 85281

(Address of principal executive offices, including zip code)

(602) 414-9300

(Registrant's telephone number, including area code)

Indicate by check mark whether the registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes  No

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes  No

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer  Accelerated filer  Non-accelerated filer  Smaller reporting company

(Do not check if a smaller reporting company)

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Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act). Yes [ ] No [x]

As of July 29, 2016, 102,359,553 shares of the registrant's common stock, \$0.001 par value per share, were outstanding.

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FIRST SOLAR, INC. AND SUBSIDIARIES

FORM 10-Q FOR THE QUARTERLY PERIOD ENDED JUNE 30, 2016

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## PART I. FINANCIAL INFORMATION

## Item 1. Condensed Consolidated Financial Statements (Unaudited)

## FIRST SOLAR, INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED STATEMENTS OF OPERATIONS

(In thousands, except per share amounts)

(Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Net sales	\$934,381	\$896,217	\$1,782,865	\$1,365,426
Cost of sales	743,216	731,734	1,328,755	1,161,962
Gross profit	191,165	164,483	454,110	203,464
Operating expenses:				
Research and development	32,931	29,479	63,118	64,235
Selling, general and administrative	63,776	70,901	131,279	138,589
Production start-up	55	6,970	55	13,620
Restructuring and asset impairments	85,532	—	85,532	—
Total operating expenses	182,294	107,350	279,984	216,444
Operating income (loss)	8,871	57,133	174,126	(12,980 )
Foreign currency loss, net	(2,723 )	(2,957 )	(5,963 )	(3,178 )
Interest income	6,529	6,058	12,935	11,122
Interest expense, net	(7,151 )	(826 )	(11,793 )	(1,020 )
Other income (expense), net	6,753	(792 )	42,306	(2,051 )
Income (loss) before taxes and equity in earnings of unconsolidated affiliates	12,279	58,616	211,611	(8,107 )
Income tax (expense) benefit	(9,047 )	33,340	(42,811 )	39,320
Equity in earnings of unconsolidated affiliates, net of tax	10,176	1,929	15,173	1,755
Net income	\$13,408	\$93,885	\$183,973	\$32,968
Net income per share:				
Basic	\$0.13	\$0.93	\$1.80	\$0.33
Diluted	\$0.13	\$0.92	\$1.78	\$0.33
Weighted-average number of shares used in per share calculations:				
Basic	102,287	100,852	102,070	100,615
Diluted	103,875	101,607	103,281	101,631

See accompanying notes to these condensed consolidated financial statements.

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## FIRST SOLAR, INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(In thousands)

(Unaudited)

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Net income	\$13,408	\$93,885	\$183,973	\$32,968
Other comprehensive income (loss), net of tax:				
Foreign currency translation adjustments	(2,325 )	2,495	3,217	(12,898 )
Unrealized gain (loss) on marketable securities and restricted investments	29,630	(60,640 )	35,596	(22,353 )
Unrealized gain (loss) on derivative instruments	2,240	(341 )	2,346	(1,901 )
Other comprehensive income (loss), net of tax	29,545	(58,486 )	41,159	(37,152 )
Comprehensive income (loss)	\$42,953	\$35,399	\$225,132	\$(4,184 )

See accompanying notes to these condensed consolidated financial statements.

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## FIRST SOLAR, INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands, except share data)

(Unaudited)

	June 30, 2016	December 31, 2015
<b>ASSETS</b>		
Current assets:		
Cash and cash equivalents	\$916,660	\$ 1,126,826
Marketable securities	750,779	703,454
Accounts receivable trade, net	369,135	500,629
Accounts receivable, unbilled and retainage	172,892	59,171
Inventories	384,504	380,424
Balance of systems parts	92,796	136,889
Deferred project costs	112,512	187,940
Notes receivable, affiliate	372	1,276
Prepaid expenses and other current assets	276,971	248,977
Total current assets	3,076,621	3,345,586
Property, plant and equipment, net	1,268,267	1,284,136
PV solar power systems, net	410,759	93,741
Project assets and deferred project costs	1,247,114	1,111,137
Deferred tax assets, net	351,714	357,693
Restricted cash and investments	414,019	333,878
Investments in unconsolidated affiliates and joint ventures	427,243	399,805
Goodwill	78,888	84,985
Other intangibles, net	68,218	110,002
Inventories	103,885	107,759
Notes receivable, affiliates	22,254	17,887
Other assets	75,038	69,722
Total assets	\$7,544,020	\$ 7,316,331
<b>LIABILITIES AND STOCKHOLDERS' EQUITY</b>		
Current liabilities:		
Accounts payable	\$263,062	\$ 337,668
Income taxes payable	1,518	1,330
Accrued expenses	354,525	409,452
Current portion of long-term debt	71,591	38,090
Billings in excess of costs and estimated earnings	110,514	87,942
Payments and billings for deferred project costs	94,316	28,580
Other current liabilities	56,503	57,738
Total current liabilities	952,029	960,800
Accrued solar module collection and recycling liability	167,740	163,407
Long-term debt	161,839	251,325
Other liabilities	457,767	392,312
Total liabilities	1,739,375	1,767,844
Commitments and contingencies		
Stockholders' equity:		
Common stock, \$0.001 par value per share; 500,000,000 shares authorized; 102,349,660 and 101,766,797 shares issued and outstanding at June 30, 2016 and December 31, 2015,	102	102

respectively

Additional paid-in capital	2,773,821	2,742,795
Accumulated earnings	2,974,083	2,790,110
Accumulated other comprehensive income	56,639	15,480
Total stockholders' equity	5,804,645	5,548,487
Total liabilities and stockholders' equity	\$7,544,020	\$ 7,316,331

See accompanying notes to these condensed consolidated financial statements.

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## FIRST SOLAR, INC. AND SUBSIDIARIES

## CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

(Unaudited)

	Six Months Ended June	
	30,	
	2016	2015
Cash flows from operating activities:		
Net income	\$ 183,973	\$ 32,968
Adjustments to reconcile net income to cash used in operating activities:		
Depreciation, amortization and accretion	115,079	129,157
Impairment of long-lived assets, intangible assets and goodwill	82,536	6,924
Share-based compensation	18,571	20,933
Equity in earnings of unconsolidated affiliates, net of tax	(15,173 )	(1,755 )
Remeasurement of monetary assets and liabilities	(4,062 )	6,283
Deferred income taxes	(3,182 )	(24,822 )
Excess tax benefits from share-based compensation arrangements	(28,108 )	(16,352 )
Gain on sales of marketable securities and restricted investments	(37,804 )	—
Other, net	875	492
Changes in operating assets and liabilities:		
Accounts receivable, trade, unbilled and retainage	8,333	(135,053 )
Prepaid expenses and other current assets	(51,921 )	(7,116 )
Inventories and balance of systems parts	42,867	56,390
Project assets and deferred project costs	(344,385 )	(421,836 )
Other assets	(9,093 )	(13,208 )
Accounts payable	(74,569 )	70,936
Income taxes payable	27,723	(54,149 )
Accrued expenses and other liabilities	59,644	(82,740 )
Accrued solar module collection and recycling liability	3,915	(2,070 )
Net cash used in operating activities	(24,781 )	(435,018 )
Cash flows from investing activities:		
Purchases of property, plant and equipment	(130,139 )	(94,111 )
Purchases of marketable securities and restricted investments	(299,719 )	(394,313 )
Proceeds from sales and maturities of marketable securities and restricted investments	253,420	199,459
Distributions received from equity method investments	1,502	238,980
Investments in notes receivable, affiliates	(4,600 )	(45,288 )
Payments received on notes receivable, affiliate	52	16,277
Change in restricted cash	35,264	(13,551 )
Other investing activities	(4,928 )	(10,231 )
Net cash used in investing activities	(149,148 )	(102,778 )
Cash flows from financing activities:		
Repayment of long-term debt	(85,830 )	(25,575 )
Proceeds from borrowings under long-term debt, net of discounts and issuance costs	19,829	122,942
Repayment of sale-leaseback financing	(3,502 )	(1,904 )
Proceeds from sale-leaseback financing	—	44,718
Excess tax benefits from share-based compensation arrangements	28,108	16,352
Contingent consideration payments and other financing activities	(111 )	(12,960 )
Net cash (used in) provided by financing activities	(41,506 )	143,573



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Effect of exchange rate changes on cash and cash equivalents	5,269	(12,687 )
Net decrease in cash and cash equivalents	(210,166 )	(406,910 )
Cash and cash equivalents, beginning of the period	1,126,826	1,482,054
Cash and cash equivalents, end of the period	\$916,660	\$1,075,144
Supplemental disclosure of noncash investing and financing activities:		
Equity interests retained from the partial sale of project assets	\$(7,549 )	\$126,079
Property, plant and equipment acquisitions funded by liabilities	\$20,797	\$34,022
Acquisitions currently or previously funded by liabilities and contingent consideration	\$23,803	\$27,398

See accompanying notes to these condensed consolidated financial statements.

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## FIRST SOLAR, INC. AND SUBSIDIARIES

## NOTES TO CONDENSED CONSOLIDATED FINANCIAL STATEMENTS

(Unaudited)

## 1. Basis of Presentation

The accompanying unaudited condensed consolidated financial statements of First Solar, Inc. and its subsidiaries have been prepared in accordance with accounting principles generally accepted in the United States of America (“U.S. GAAP”) for interim financial information and pursuant to the instructions to Form 10-Q and Article 10 of Regulation S-X of the Securities and Exchange Commission (the “SEC”). Accordingly, these interim financial statements do not include all of the information and footnotes required by U.S. GAAP for annual financial statements. In the opinion of First Solar management, all adjustments (consisting only of normal recurring adjustments) considered necessary for a fair statement have been included. Operating results for the three and six months ended June 30, 2016 are not necessarily indicative of the results that may be expected for the year ending December 31, 2016 or for any other period. The condensed consolidated balance sheet at December 31, 2015 has been derived from the audited consolidated financial statements at that date, but does not include all of the information and footnotes required by U.S. GAAP for complete financial statements. These interim financial statements and notes should be read in conjunction with the audited financial statements and notes thereto for the year ended December 31, 2015 included in our Annual Report on Form 10-K, which has been filed with the SEC.

Unless expressly stated or the context otherwise requires, the terms “the Company,” “we,” “our,” “us,” and “First Solar” refer to First Solar, Inc. and its subsidiaries.

## Revision of Previously Issued Financial Statements

During the three months ended September 30, 2015, we revised our previously issued financial statements, including periods presented in this Quarterly Report on Form 10-Q, to properly record a liability associated with an uncertain tax position, including penalties, related to income of a foreign subsidiary along with corresponding adjustments in each successive period for the effect of changes in foreign currency exchange rates associated with the liability.

We evaluated the aggregate effects of the errors to our previously issued financial statements in accordance with SEC Staff Accounting Bulletins No. 99 and No. 108 and, based upon quantitative and qualitative factors, determined that the errors were not material to our previously issued financial statements. As part of this evaluation, we considered a number of qualitative factors, including, among others, that the errors did not change a net loss into net income or vice versa, did not have an impact on our long-term debt covenant compliance, and did not mask a change in earnings or other trends when considering the overall competitive and economic environment within the industry during the periods. However, the cumulative effect of the errors, including the uncertain tax position matter identified during the three months ended September 30, 2015, was significant to our financial results for the year ended December 31, 2015. Accordingly, all financial information presented in the accompanying notes to these condensed consolidated financial statements was revised to reflect the correction of these errors.

The following tables present the effect of the aforementioned revisions on our condensed consolidated statements of operations for the three and six months ended June 30, 2015 (in thousands, except per share amounts):

	Three Months Ended June 30, 2015		
	As Reported	Adjustment	As Revised
Foreign currency loss, net	\$ (2,352)	\$ (605 )	\$ (2,957)

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Income before taxes and equity in earnings of unconsolidated affiliates	59,221	(605	)	58,616
Net income	94,490	(605	)	93,885
Comprehensive income	36,004	(605	)	35,399
Basic net income per share	\$0.94	\$ (0.01	)	\$0.93
Diluted net income per share	\$0.93	\$ (0.01	)	\$0.92

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	Six Months Ended June 30, 2015		
	As Reported	Adjustment	As Revised
Foreign currency loss, net	\$(3,948)	\$ 770	\$(3,178)
Loss before taxes and equity in earnings of unconsolidated affiliates	(8,877 )	770	(8,107 )
Net income	32,198	770	32,968
Comprehensive loss	(4,954 )	770	(4,184 )
Basic net income per share	\$0.32	\$ 0.01	\$0.33
Diluted net income per share	\$0.32	\$ 0.01	\$0.33

The following table presents the effect of the aforementioned revisions on our condensed consolidated statement of cash flows for the six months ended June 30, 2015 (in thousands):

	Six Months Ended June 30, 2015		
	As Reported	Adjustment	As Revised
Net income	\$32,198	\$ 770	\$32,968
Adjustments to reconcile net income to cash used in operating activities:			
Remeasurement of monetary assets and liabilities	7,053	(770 )	6,283
Net cash used in operating activities	(435,018)	—	(435,018)

## 2. Summary of Significant Accounting Policies

**Use of Estimates.** The preparation of condensed consolidated financial statements in conformity with U.S. GAAP requires us to make estimates and assumptions that affect the amounts reported in our condensed consolidated financial statements and the accompanying notes. On an ongoing basis, we evaluate our estimates, including those related to percentage-of-completion revenue recognition, inventory valuation, recoverability of project assets and photovoltaic (“PV”) solar power systems, estimates of future cash flows from and the economic useful lives of long-lived assets, asset retirement obligations, certain accrued liabilities, income taxes and tax valuation allowances, reportable segment allocations, product warranties and manufacturing excursions, solar module collection and recycling liabilities, and applying the acquisition method of accounting for business combinations and goodwill. Despite our intention to establish accurate estimates and reasonable assumptions, actual results could differ materially from these estimates and assumptions.

**Revenue Recognition – Systems Business.** We recognize revenue for arrangements entered into by our systems business generally using two revenue recognition models, following the guidance in either Accounting Standards Codification (“ASC”) 605-35, Construction-Type and Production-Type Contracts, or ASC 360-20, Real Estate Sales, for arrangements which include land or land rights.

Systems business sales arrangements in which we construct a PV solar power system for a specific customer on land that is controlled by the customer, and has not been previously controlled by First Solar, are accounted for under ASC 605-35. For such sales arrangements, we use the percentage-of-completion method, as described further below, using actual costs incurred over total estimated costs to develop and construct the system (including module costs) as our standard accounting policy.

Systems business sales arrangements in which we convey control of land or land rights as part of the transaction are accounted for under ASC 360-20. Accordingly, we use one of the following revenue recognition methods, based upon

an evaluation of the substance and form of the terms and conditions of such real estate sales:

We apply the percentage-of-completion method, as further described below, to certain real estate sales arrangements in which we convey control of land or land rights, when a sale has been consummated, we have transferred the usual risks and rewards of ownership to the buyer, the initial and continuing investment criteria have been met, we have the ability to estimate our costs and progress toward completion, and all other revenue recognition criteria have been met. When evaluating whether the usual risks and rewards of ownership have (i) transferred to the buyer, we consider whether we have or may be contingently required to have any prohibited forms of continuing involvement with the project pursuant to ASC 360-20. The initial and continuing investment requirements, which demonstrate a buyer's commitment to honor its obligations for the sales arrangement, can typically be met through the receipt of cash or an irrevocable letter of credit from a highly creditworthy lending institution.

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Depending on whether the initial and continuing investment requirements have been met and whether collectability from the buyer is reasonably assured, we may align our revenue recognition and release of project assets or deferred project costs to cost of sales with the receipt of payment from the buyer if the sale has been consummated and we have transferred the usual risks and rewards of ownership to the buyer.

(ii) For any systems business sales arrangements containing multiple deliverables (including our solar modules) not required to be accounted for under ASC 605-35 (long-term construction contracts) or ASC 360-20 (real estate sales), we analyze each activity within the sales arrangement to adhere to the separation guidelines of ASC 605-25 for multiple-element arrangements. We allocate revenue for any transactions involving multiple elements to each unit of accounting based on its relative selling price and recognize revenue for each unit of accounting when all revenue recognition criteria for a unit of accounting have been met.

**Revenue Recognition – Percentage-of-Completion.** In applying the percentage-of-completion method, we use the actual costs incurred relative to the total estimated costs (including module costs) in order to determine the progress towards completion and calculate the corresponding amount of revenue and profit to recognize. Costs incurred include direct materials, solar modules, labor, subcontractor costs, and those indirect costs related to contract performance, such as indirect labor and supplies. We recognize direct material and solar module costs as incurred when the direct materials and solar modules have been installed in the project. When contracts specify that title to direct materials and solar modules transfers to the customer before installation has been performed, we will not recognize revenue or the associated costs until those materials are installed and have met all other revenue recognition requirements. We consider direct materials and solar modules to be installed when they are permanently placed or affixed to a PV solar power system as required by engineering designs. Solar modules manufactured and owned by us that will be used in our systems remain within inventory until such modules are installed in a system.

The percentage-of-completion method of revenue recognition requires us to make estimates of net contract revenues and costs to complete our projects. In making such estimates, management judgments are required to evaluate significant assumptions including the amount of net contract revenues, the cost of materials and labor, expected labor productivity, the impact of potential variances in schedule completion, and the impact of any penalties, claims, change orders, or performance incentives.

If estimated total costs on any contract are greater than the net contract revenues, we recognize the entire estimated loss in the period the loss becomes known. The cumulative effect of the revisions to estimates related to net contract revenues and costs to complete contracts, including penalties, claims, change orders, performance incentives, anticipated losses, and others are recorded in the period in which the revisions to estimates are identified and the amounts can be reasonably estimated. The effect of the changes on future periods are recognized as if the revised estimates had been used since revenue was initially recognized under the contract. Such revisions could occur in any reporting period, and the effects may be material depending on the size of the contracts or the changes in estimates.

**Revenue Recognition – Operations and Maintenance.** Our operations and maintenance (“O&M”) revenue is billed and recognized as services are performed. Costs of these revenues are expensed in the period in which they are incurred.

**Revenue Recognition – Components Business.** Our components business sells solar modules directly to third-party solar power system integrators and operators. We recognize revenue for module sales when persuasive evidence of an arrangement exists, delivery of the modules has occurred and title and risk of loss have passed to the customer, the sales price is fixed or determinable, and the collectability of the resulting receivable is reasonably assured. Under this policy, we record a trade receivable for the selling price of our module and reduce inventory for the cost of goods sold when delivery occurs in accordance with the terms of the sales contract. Our customers typically do not have extended payment terms or rights of return for our products.

Ventures and Variable Interest Entities. In the normal course of business we establish wholly owned project companies which may be considered variable interest entities (“VIEs”). We consolidate wholly owned variable interest entities when we are considered the primary beneficiary of such entities. Additionally, we have, and may in the future form, joint venture type arrangements, including partnerships and partially owned limited liability companies or similar legal structures, with one or more third parties primarily to develop, construct, own, and/or sell solar power projects. These types of ventures are core to our business and long-term strategy related to providing PV solar generation solutions using our modules to key geographic markets. We analyze all of our ventures and classify them into two groups: (i) ventures that must be consolidated because they are either not VIEs and we hold a majority voting interest, or because they are VIEs and we are the primary beneficiary and (ii) ventures that do not need to be consolidated and are accounted for under either the cost or equity method of accounting because they are either not VIEs and we hold a minority voting interest, or because they are VIEs and we are not the primary beneficiary.

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Ventures are considered VIEs if (i) the total equity investment at risk is not sufficient to permit the entity to finance its activities without additional subordinated financial support; (ii) as a group, the holders of the equity investment at risk lack the ability to make certain decisions, the obligation to absorb expected losses, or the right to receive expected residual returns; or (iii) an equity investor has voting rights that are disproportionate to its economic interest and substantially all of the entity's activities are conducted on behalf of that investor. Our venture agreements typically require us to fund some form of capital for the development and construction of a project, depending upon the opportunity and the market in which our ventures are located.

We are considered the primary beneficiary of and are required to consolidate a VIE if we have the power to direct the activities that most significantly impact the VIE's economic performance and the obligation to absorb losses or the right to receive benefits of the VIE that could potentially be significant to the entity. If we determine that we do not have the power to direct the activities that most significantly impact the entity, then we are not the primary beneficiary of the VIE.

**Cost and Equity Method Investments.** We account for our unconsolidated ventures using either the cost or equity method of accounting depending upon whether we have the ability to exercise significant influence over the venture. As part of this evaluation, we consider our participating and protective rights in the venture as well as its legal form. We record our cost method investments at their historical cost and subsequently record any dividends received from the net accumulated earnings of the investee as income. Dividends received in excess of earnings are considered a return of investment and are recorded as reductions in the cost of the investment. We use the equity method of accounting for our investments when we have the ability to significantly influence the operations or financial activities of the investee. We record our equity method investments at cost and subsequently adjust their carrying amount each period for our share of the earnings or losses of the investee and other adjustments required by the equity method of accounting. Dividends received from our equity method investments are recorded as reductions in the carrying value of such investments.

We monitor our investments, which are included in "Investments in unconsolidated affiliates and joint ventures" in the accompanying condensed consolidated balance sheets, for impairment and record reductions in their carrying values if the carrying amount of the investment exceeds its fair value. An impairment charge is recorded when such impairment is deemed to be other-than-temporary. To determine whether an impairment is other-than-temporary, we consider our ability and intent to hold the investment until the carrying amount is fully recovered. Circumstances that indicate an other-than-temporary impairment may have occurred include factors such as decreases in quoted market prices or declines in the operations of the investee. The evaluation of an investment for potential impairment requires us to exercise significant judgment and to make certain assumptions. The use of different judgments and assumptions could result in different conclusions. We recorded no impairment losses related to our cost and equity method investments during the three and six months ended June 30, 2016 and 2015.

See Note 2. "Summary of Significant Accounting Policies" to our consolidated financial statements included in our Annual Report on Form 10-K for the year ended December 31, 2015 for a more complete summary of our significant accounting policies.

### 3. Recent Accounting Pronouncements

In May 2014, the FASB issued ASU 2014-09, Revenue from Contracts with Customers (Topic 606), to clarify the principles of recognizing revenue and create common revenue recognition guidance between U.S. GAAP and International Financial Reporting Standards. An entity has the option to apply the provisions of ASU 2014-09 either retrospectively to each prior reporting period presented or retrospectively with the cumulative effect of initially applying this standard recognized at the date of initial application. ASU 2014-09 is effective for fiscal years and interim periods within those years beginning after December 15, 2017, and early adoption is permitted for periods



beginning after December 15, 2016. We are currently evaluating our method and timing of adoption and the impact ASU 2014-09 will have on our consolidated financial statements and associated disclosures.

In February 2015, the FASB issued ASU 2015-02, Consolidation (Topic 810) – Amendments to the Consolidation Analysis. ASU 2015-02 modifies existing consolidation guidance related to (i) limited partnerships and similar legal entities, (ii) the evaluation of variable interests for fees paid to decision makers or service providers, (iii) the effect of fee arrangements and related parties on the primary beneficiary determination, and (iv) certain investment funds. These changes are expected to limit the number of consolidation models and place more emphasis on risk of loss when determining a controlling financial interest. The adoption of ASU 2015-02 in the first quarter of 2016 did not have a significant impact on our consolidated financial statements and associated disclosures.

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In January 2016, the FASB issued ASU 2016-01, Financial Instruments – Overall (Subtopic 825-10) – Recognition and Measurement of Financial Assets and Financial Liabilities. ASU 2016-01 changes how entities measure certain equity investments and present changes in the fair value of financial liabilities measured under the fair value option that are attributable to their own credit. The guidance also changes certain disclosure requirements and other aspects of current U.S. GAAP. ASU 2016-01 is effective for fiscal years and interim periods within those years beginning after December 15, 2017, and early adoption is permitted for certain provisions of the guidance. We are currently evaluating the impact ASU 2016-01 will have on our consolidated financial statements and associated disclosures.

In February 2016, the FASB issued ASU 2016-02, Leases (Topic 842), to increase transparency and comparability among organizations by recognizing a right-of-use asset and a lease liability on the balance sheet for all leases with terms longer than 12 months. Leases will be classified as either operating or financing, with such classification affecting the pattern of expense recognition in the income statement. ASU 2016-02 is effective for fiscal years and interim periods within those years beginning after December 15, 2018, and early adoption is permitted. We are currently evaluating the impact ASU 2016-02 will have on our consolidated financial statements and associated disclosures.

In March 2016, the FASB issued ASU 2016-09, Compensation – Stock Compensation (Topic 718) – Improvements to Employee Share-Based Payment Accounting. ASU 2016-09 simplifies several aspects of the accounting for share-based payment transactions, including income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. ASU 2016-09 is effective for fiscal years and interim periods within those years beginning after December 15, 2016, and early adoption is permitted. We are currently evaluating the impact ASU 2016-09 will have on our consolidated financial statements and associated disclosures.

In June 2016, the FASB issued ASU 2016-13, Financial Instruments – Credit Losses (Topic 326), to provide financial statement users with more useful information about expected credit losses. ASU 2016-13 also changes how entities measure credit losses on financial instruments and the timing of when such losses are recorded. ASU 2016-13 is effective for fiscal years and interim periods within those years beginning after December 15, 2019, and early adoption is permitted for periods beginning after December 15, 2018. We are currently evaluating the impact ASU 2016-13 will have on our consolidated financial statements and associated disclosures.

## 4. Restructuring and Asset Impairments

In June 2016, our executive management elected to reallocate our crystalline silicon module production capacity to support a new assembly line dedicated to our recently announced Series 5 cadmium telluride (“CdTe”) module offering. As a result, we are ending production of our crystalline silicon modules to focus on our core CdTe module technology and utility-scale PV solar power systems. The majority of our crystalline silicon module manufacturing associates are expected to be redeployed to the new Series 5 assembly line, which is expected to be operational in early 2017.

In connection with these restructuring activities, we incurred charges of \$84.6 million during the three months ended June 30, 2016, which included (i) \$35.5 million of impairment charges related to certain crystalline silicon module manufacturing equipment considered abandoned for accounting purposes; (ii) \$35.8 million of impairment charges for developed technology intangible assets associated with our crystalline silicon module technology; (iii) \$6.1 million of goodwill impairment charges from the disposal of our crystalline silicon components reporting unit; and (iv) \$7.2 million of miscellaneous charges related to certain contract manufacturing agreements and the write-off of operating supplies. All amounts associated with these charges related to our components segment and were classified as “Restructuring and asset impairments” on our condensed consolidated statements of operations. We expect to incur up to \$10.0 million of additional charges as we complete these restructuring activities during the remainder of 2016.

During the three months ended June 30, 2016, we also incurred charges of \$0.9 million for severance benefits to terminated employees associated with restructuring activities unrelated to the end of our crystalline silicon module production.

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## 5. Cash, Cash Equivalents, and Marketable Securities

Cash, cash equivalents, and marketable securities consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Cash and cash equivalents:		
Cash	\$916,486	\$ 1,126,496
Cash equivalents:		
Money market funds	174	330
Total cash and cash equivalents	916,660	1,126,826
Marketable securities:		
Foreign debt	710,779	663,454
Time deposits	40,000	40,000
Total marketable securities	750,779	703,454
Total cash, cash equivalents, and marketable securities	\$1,667,439	\$ 1,830,280

We classify our marketable securities as available-for-sale. Accordingly, we record them at fair value and account for the net unrealized gains and losses as part of “Accumulated other comprehensive income” until realized. We record realized gains and losses on the sale of our marketable securities in “Other income (expense), net” computed using the specific identification method. During the three and six months ended June 30, 2016 and 2015, we realized no gains or losses on the sale of our marketable securities. See Note 9. “Fair Value Measurements” to our condensed consolidated financial statements for information about the fair value of our marketable securities.

As of June 30, 2016 and December 31, 2015, we identified two investments totaling \$45.1 million and \$31.5 million, respectively, that had been in a loss position for a period of time greater than 12 months with unrealized losses of less than \$0.1 million. The unrealized losses were primarily due to increases in interest rates relative to rates at the time of purchase. Based on the underlying credit quality of the investments, we do not intend to sell these securities prior to the recovery of our cost basis. Therefore, we did not consider these securities to be other-than-temporarily impaired. All of our available-for-sale marketable securities are subject to a periodic impairment review. We did not identify any of our marketable securities as other-than-temporarily impaired as of June 30, 2016 and December 31, 2015.

The following tables summarize the unrealized gains and losses related to our available-for-sale marketable securities, by major security type, as of June 30, 2016 and December 31, 2015 (in thousands):

As of June 30, 2016				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Foreign debt	\$708,916	\$ 2,128	\$ 265	\$710,779
Time deposits	40,000	—	—	40,000
Total	\$748,916	\$ 2,128	\$ 265	\$750,779
As of December 31, 2015				
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Foreign debt	\$665,900	\$ 9	\$ 2,455	\$663,454
Time deposits	40,000	—	—	40,000
Total	\$705,900	\$ 9	\$ 2,455	\$703,454



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The contractual maturities of our marketable securities as of June 30, 2016 and December 31, 2015 were as follows (in thousands):

	As of June 30, 2016			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
One year or less	\$280,542	\$ 62	\$ 124	\$280,480
One year to two years	239,539	525	82	239,982
Two years to three years	228,835	1,541	59	230,317
Total	\$748,916	\$ 2,128	\$ 265	\$750,779
	As of December 31, 2015			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
One year or less	\$290,377	\$ 9	\$ 406	\$289,980
One year to two years	228,492	—	1,183	227,309
Two years to three years	187,031	—	866	186,165
Total	\$705,900	\$ 9	\$ 2,455	\$703,454

The net unrealized gains of \$1.9 million and the net unrealized losses of \$2.4 million on our marketable securities as of June 30, 2016 and December 31, 2015, respectively, were primarily the result of changes in interest rates relative to rates at the time of purchase. Our investment policy requires marketable securities to be highly rated and limits the security types, issuer concentration, and duration to maturity of our marketable securities portfolio.

The following tables show gross unrealized losses and estimated fair values for those marketable securities that were in an unrealized loss position as of June 30, 2016 and December 31, 2015, aggregated by major security type and the length of time the marketable securities have been in a continuous loss position (in thousands):

	As of June 30, 2016					
	In Loss Position for Less Than 12 Months		In Loss Position for 12 Months or Greater		Total	
	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses
Foreign debt	\$175,111	\$ 234	\$45,131	\$ 31	\$220,242	\$ 265
Total	\$175,111	\$ 234	\$45,131	\$ 31	\$220,242	\$ 265
	As of December 31, 2015					
	In Loss Position for Less Than 12 Months		In Loss Position for 12 Months or Greater		Total	
	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses	Estimated Fair Value	Gross Unrealized Losses
Foreign debt	\$629,033	\$ 2,386	\$31,491	\$ 69	\$660,524	\$ 2,455
Total	\$629,033	\$ 2,386	\$31,491	\$ 69	\$660,524	\$ 2,455

## 6. Restricted Cash and Investments

Restricted cash and investments consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

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	June 30,	December 31,
	2016	2015
Restricted cash	\$4,830	\$ 7,764
Restricted investments	409,189	326,114
Total restricted cash and investments (1)	\$414,019	\$ 333,878

(1) There was an additional \$40.5 million and \$72.5 million of restricted cash included within prepaid expenses and other current assets at June 30, 2016 and December 31, 2015, respectively.

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At June 30, 2016, our restricted cash consisted of deposits held by various banks to secure certain of our letters of credit and deposits designated for the construction of systems projects and payment of amounts related to project construction credit facilities. Restricted cash for our letters of credit is classified as current or noncurrent based on the maturity date of the corresponding letter of credit. See Note 13. “Commitments and Contingencies” to our condensed consolidated financial statements for further discussion relating to letters of credit. Restricted cash for project construction and financing is classified as current or noncurrent based on the projected use of the restricted funds.

At June 30, 2016 and December 31, 2015, our restricted investments consisted of long-term marketable securities that were held in custodial accounts to fund the estimated future costs of collecting and recycling modules covered under our solar module collection and recycling program. We classify our restricted investments as available-for-sale. Accordingly, we record them at fair value and account for the net unrealized gains and losses as a part of “Accumulated other comprehensive income” until realized. We record realized gains and losses on the sale of our restricted investments in “Other income (expense), net” computed using the specific identification method. During the three months ended June 30, 2016, we realized no gains on the sale of our restricted investments. During the six months ended June 30, 2016, we realized gains of \$37.8 million on the sale of certain restricted investments as part of an effort to align the currencies of the investments with those of the corresponding collection and recycling liabilities. Restricted investments are classified as noncurrent as the underlying accrued solar module collection and recycling liabilities are also noncurrent in nature. See Note 9. “Fair Value Measurements” to our condensed consolidated financial statements for information about the fair value of our restricted investments.

As necessary, we fund any incremental amounts for our estimated collection and recycling obligations within 90 days of the end of each year. We determine the funding requirement, if any, based on estimated costs of collecting and recycling covered modules, estimated rates of return on our restricted investments, and an estimated solar module life of 25 years less amounts already funded in prior years. No incremental funding was required in 2016 for covered module sales in 2015. To ensure that these funds will be available in the future regardless of any potential adverse changes in our financial condition (even in the case of our own insolvency), we have established a trust under which estimated funds are put into custodial accounts with an established and reputable bank, for which First Solar, Inc. (“FSI”), First Solar Malaysia Sdn. Bhd. (“FS Malaysia”), and First Solar Manufacturing GmbH are grantors. Only the trustee can distribute funds from the custodial accounts, and these funds cannot be accessed for any purpose other than to cover qualified costs of module collection and recycling, either by us or a third party performing the required collection and recycling services. Investments in these custodial accounts must meet certain investment quality criteria comparable to highly rated government or agency bonds. We closely monitor our exposure to European markets and maintain holdings primarily consisting of German and French sovereign debt securities that are not currently at risk of default.

The following tables summarize the unrealized gains and losses related to our restricted investments, by major security type, as of June 30, 2016 and December 31, 2015 (in thousands):

	As of June 30, 2016			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Foreign government obligations	\$116,826	\$90,112	\$	—\$206,938
U.S. government obligations	169,847	32,404	—	202,251
Total	\$286,673	\$122,516	\$	—\$409,189
	As of December 31, 2015			
	Amortized Cost	Gross Unrealized Gains	Gross Unrealized Losses	Estimated Fair Value
Foreign government obligations	\$177,507	\$75,670	\$	—\$253,177



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U.S. government obligations	61,228	11,709	—	72,937
Total	\$238,735	\$ 87,379	\$	—\$326,114

As of June 30, 2016 and December 31, 2015, the contractual maturities of our restricted investments were between 12 years and 21 years.

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## 7. Consolidated Balance Sheet Details

## Accounts receivable trade, net

Accounts receivable trade, net consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Accounts receivable trade, gross	\$369,135	\$ 500,631
Allowance for doubtful accounts	—	(2 )
Accounts receivable trade, net	\$369,135	\$ 500,629

At June 30, 2016 and December 31, 2015, \$35.1 million and \$21.5 million, respectively, of our accounts receivable trade, net were secured by letters of credit, bank guarantees, or other forms of financial security issued by creditworthy financial institutions.

## Accounts receivable, unbilled and retainage

Accounts receivable, unbilled and retainage consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Accounts receivable, unbilled	\$153,864	\$ 40,205
Retainage	19,028	18,966
Accounts receivable, unbilled and retainage	\$172,892	\$ 59,171

Accounts receivable, unbilled represents revenue that has been recognized in advance of billing the customer, which is common for long-term construction contracts. For example, we recognize revenue from contracts for the construction and sale of PV solar power systems, which include the sale of such assets over the construction period using applicable accounting methods. One such method is the percentage-of-completion method, which recognizes revenue and gross profit as work is performed based on the relationship between actual costs incurred compared to the total estimated costs for the contract. Under this accounting method, revenue could be recognized under applicable revenue recognition criteria in advance of billing the customer, resulting in an amount recorded to “Accounts receivable, unbilled and retainage.” Once we meet the billing criteria under a construction contract, we bill our customer accordingly and reclassify the “Accounts receivable, unbilled and retainage” to “Accounts receivable trade, net.” Billing requirements vary by contract but are generally structured around completion of certain construction milestones. Retainage refers to the portion of the contract price earned by us for work performed, but held for payment by our customer as a form of security until we reach certain construction milestones. Retainage included within “Accounts receivable, unbilled and retainage” is expected to be billed and collected within the next 12 months.

## Inventories

Inventories consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Raw materials	\$165,046	\$ 159,078
Work in process	14,630	19,736
Finished goods	308,713	309,369
Inventories	\$488,389	\$ 488,183
Inventories – current	\$384,504	\$ 380,424

Inventories – noncurrent (1) \$ 103,885 \$ 107,759

As needed, we may purchase a critical raw material that is used in our core production process in quantities that (1) exceed anticipated consumption within our normal operating cycle (which is 12 months). We classify such raw materials that we do not expect to consume within our normal operating cycle as noncurrent.

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## Balance of systems parts

Balance of systems parts were \$92.8 million and \$136.9 million as of June 30, 2016 and December 31, 2015, respectively, and represented mounting, electrical, and other construction parts purchased for PV solar power systems to be constructed or currently under construction, which we held title to and were not yet installed in a system. Such construction parts included items such as posts, tilt brackets, tables, harnesses, combiner boxes, inverters, cables, tracker equipment, and other parts we may purchase or assemble for the systems we construct. We carry these parts at the lower of cost or net realizable value, with such value being based primarily on recoverability through installation in a system or recoverability through a sales agreement. Balance of systems parts do not include any solar modules that we manufacture.

## Prepaid expenses and other current assets

Prepaid expenses and other current assets consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Value added tax receivables	\$69,082	\$ 51,473
Prepaid expenses	62,894	74,990
Derivative instruments	4,433	2,691
Restricted cash	40,510	72,526
Other current assets	100,052	47,297
Prepaid expenses and other current assets	\$276,971	\$ 248,977

## Property, plant and equipment, net

Property, plant and equipment, net consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Land	\$8,729	\$ 12,063
Buildings and improvements	411,490	410,898
Machinery and equipment	1,809,714	1,824,717
Office equipment and furniture	151,163	144,773
Leasehold improvements	55,515	50,546
Construction in progress	126,749	37,734
Stored assets (1)	138,727	138,954
Property, plant and equipment, gross	2,702,087	2,619,685
Less: accumulated depreciation	(1,433,820 )	(1,335,549 )
Property, plant and equipment, net	\$1,268,267	\$ 1,284,136

(1) Consists of machinery and equipment (“stored assets”) that were originally purchased for installation in our previously planned manufacturing capacity expansions. We intend to install and place the stored assets into service when such assets are required or beneficial to our existing installed manufacturing capacity or when market demand supports additional or market-specific manufacturing capacity. During the six months ended June 30, 2016, we transferred \$0.2 million of stored assets to our manufacturing facility in Perrysburg, Ohio for use in the production of solar modules. As the remaining stored assets are neither in the condition nor location to produce modules as intended, we will not begin depreciation until such assets are placed into service. The stored assets are evaluated for impairment under a held and used impairment model whenever events or changes in business circumstances arise, including consideration of technological obsolescence, that may indicate that the carrying

amount of our long-lived assets may not be recoverable. We ceased the capitalization of interest on our stored assets once they were physically received from the related machinery and equipment vendors.

Depreciation of property, plant and equipment was \$52.5 million and \$107.0 million for the three and six months ended June 30, 2016, respectively, and \$62.5 million and \$124.0 million for the three and six months ended June 30, 2015, respectively.

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## PV solar power systems, net

PV solar power systems, net consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
PV solar power systems, gross	\$417,486	\$ 97,991
Accumulated depreciation	(6,727 )	(4,250 )
PV solar power systems, net	\$410,759	\$ 93,741

During the six months ended June 30, 2016, we placed \$318.5 million of projects into service, including certain projects in Chile and India. Depreciation of PV solar power systems was \$1.3 million and \$2.5 million for the three and six months ended June 30, 2016, respectively, and \$0.6 million and \$1.2 million for the three and six months ended June 30, 2015, respectively.

## Capitalized interest

The cost of constructing facilities, equipment, and project assets includes interest costs incurred during the assets' construction period. The components of interest expense and capitalized interest were as follows during the three and six months ended June 30, 2016 and 2015 (in thousands):

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Interest cost incurred	\$(8,473)	\$(4,749)	\$(14,368)	\$(8,226)
Interest cost capitalized – property, plant and equipment	831	295	1,067	862
Interest cost capitalized – project assets	491	3,628	1,508	6,344
Interest expense, net	\$(7,151)	\$(826 )	\$(11,793)	\$(1,020)

## Project assets and deferred project costs

Project assets primarily consist of costs related to solar power projects in various stages of development that are capitalized prior to entering into a definitive sales agreement for the projects, including projects that may have begun commercial operation under power purchase agreements (“PPAs”) and are actively marketed and intended to be sold. These project related costs include costs for land, development, and construction of a PV solar power system. Development costs may include legal, consulting, permitting, interconnection, and other similar costs. Once we enter into a definitive sales agreement, we reclassify project assets to deferred project costs on our condensed consolidated balance sheets until the sale is completed and we have met all of the criteria to recognize the sale as revenue, which is typically subject to real estate revenue recognition requirements. We expense project assets and deferred project costs to cost of sales after each respective project is sold to a customer and all revenue recognition criteria have been met (matching the expensing of costs to the underlying revenue recognition method). In addition, we present all expenditures related to the development and construction of project assets or deferred project costs, whether fully or partially owned, as a component of cash flows from operating activities. We classify project assets as noncurrent due to the nature of solar power projects (long-lived assets) and the time required to complete all activities to develop, construct, and sell projects, which is typically longer than 12 months.

Deferred project costs represent (i) costs that we capitalize as project assets for arrangements that we account for as real estate transactions after we have entered into a definitive sales arrangement, but before the sale is completed or before we have met all criteria to recognize the sale as revenue, (ii) recoverable pre-contract costs that we capitalize for arrangements accounted for as long-term construction contracts prior to entering into a definitive sales agreement, or (iii) costs that we capitalize for arrangements accounted for as long-term construction contracts after we have

signed a definitive sales agreement, but before all revenue recognition criteria have been met. We classify deferred project costs as current if completion of the sale and the meeting of all revenue recognition criteria are expected within the next 12 months.

If a project is completed and begins commercial operation prior to entering into or the closing of a sales arrangement, the completed project will remain in project assets or deferred project costs until the earliest of the closing of the sale of such project, our decision to temporarily hold such project, or one year from the project's commercial operations date. Any income generated by a project while it remains within project assets or deferred project costs is accounted for as a reduction to our basis in the project, which at the time of sale and meeting all revenue recognition criteria will be recorded within cost of sales.

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Project assets and deferred project costs consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Project assets – development costs, including project acquisition and land costs	\$379,977	\$436,375
Project assets – construction costs	828,337	674,762
Project assets	1,208,314	1,111,137
Deferred project costs – current	112,512	187,940
Deferred project costs – noncurrent	38,800	—
Deferred project costs	151,312	187,940
Total project assets and deferred project costs	\$1,359,626	\$1,299,077

## Other assets

Other assets consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Notes receivable (1)	\$7,782	\$12,648
Income taxes receivable	4,204	4,071
Deferred rent	33,050	23,317
Other	30,002	29,686
Other assets	\$75,038	\$69,722

In April 2009, we entered into a credit facility agreement with a solar power project entity of one of our customers for an available amount of €17.5 million to provide financing for a PV solar power system. The credit facility replaced a bridge loan that we had made to this entity. The credit facility bears interest at 8.0% per annum payable quarterly with the full amount due in December 2026. As of June 30, 2016 and December 31, 2015, the balance on the credit facility was €7.0 million (\$7.8 million and \$7.6 million, respectively, at the balance sheet dates). In February 2014, we entered into a convertible loan agreement with a strategic entity for an available amount of up to \$5.0 million. As of December 31, 2015, the balance outstanding on the convertible loan was \$5.0 million, which we converted into an equity interest in the entity in January 2016.

## Goodwill

Goodwill, summarized by relevant reporting unit, consisted of the following as of June 30, 2016 and December 31, 2015 (in thousands):

	December 31, 2015	Acquisitions (Impairments)	June 30, 2016
CdTe components	\$403,420	\$—	\$403,420
Crystalline silicon components	6,097	—	6,097
Systems	68,833	—	68,833
Accumulated impairment losses	(393,365)	(6,097)	(399,462)
Total	\$84,985	\$ (6,097)	\$78,888

Goodwill represents the excess of the purchase price of acquired businesses over the estimated fair value assigned to the individual assets acquired and liabilities assumed. We do not amortize goodwill, but instead are required to test goodwill for impairment at least annually. If necessary, we would record any impairment in accordance with ASC 350, Intangibles – Goodwill and Other. We perform impairment tests between scheduled annual tests in the fourth quarter if facts and circumstances indicate that it is more likely than not that the fair value of a reporting unit that has



goodwill is less than its carrying value. During the three months ended June 30, 2016, we impaired \$6.1 million of goodwill associated with our crystalline silicon components reporting unit as a result of the decision to end the related manufacturing operations. See Note 4. "Restructuring and Asset Impairments" to our condensed consolidated financial statements for further discussion relating to these restructuring activities.

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## Other intangibles, net

Other intangibles, net consisted of intangible assets acquired as part of our General Electric and TetraSun acquisitions and our internally-generated intangible assets, substantially all of which were patents on technologies related to our products and production processes. We record an asset for patents, after the patent has been issued, based on the legal, filing, and other costs incurred to secure them. We amortize intangible assets on a straight-line basis over their estimated useful lives once the intangible assets meet the criteria to be amortized.

The following tables summarize our intangible assets at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016			
	Gross Amount	Accumulated Amortization	Accumulated Impairments	Accumulated Net Amount
Patents	\$6,070	\$ (2,219 )	\$ —	\$ 3,851
Developed technology	114,596	(14,387 )	(35,842 )	64,367
Total	\$120,666	\$ (16,606 )	\$ (35,842 )	\$ 68,218
	December 31, 2015			
	Gross Amount	Accumulated Amortization	Accumulated Impairments	Accumulated Net Amount
Patents	6,070	\$ (1,824 )	\$ —	\$4,246
Developed technology	114,565	(8,809 )	—	105,756
Total	\$120,635	\$ (10,633 )	\$ —	\$110,002

During the three months ended June 30, 2016, we impaired \$35.8 million of developed technology intangible assets acquired in our TetraSun acquisition as a result of the decision to end the related crystalline silicon manufacturing operations. See Note 4. “Restructuring and Asset Impairments” to our condensed consolidated financial statements for further discussion relating to these restructuring activities. Amortization expense for our intangible assets was \$3.0 million and \$6.0 million for the three and six months ended June 30, 2016, respectively, and \$2.2 million and \$3.2 million for the three and six months ended June 30, 2015, respectively.

## Accrued expenses

Accrued expenses consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Accrued compensation and benefits	\$37,041	\$ 63,699
Accrued property, plant and equipment	10,410	7,808
Accrued inventory and balance of systems parts	33,628	53,542
Accrued project assets and deferred project costs	152,333	145,695
Product warranty liability (1)	37,926	38,468
Accrued expenses in excess of normal product warranty liability and related expenses (1)	4,599	5,040
Other	78,588	95,200
Accrued expenses	\$354,525	\$ 409,452

See Note 13. “Commitments and Contingencies” to our condensed consolidated financial statements for further (1) discussion of “Product warranty liability” and “Accrued expenses in excess of normal product warranty liability and related expenses.”

## Billings in excess of costs and estimated earnings

Billings in excess of costs and estimated earnings was \$110.5 million and \$87.9 million at June 30, 2016 and December 31, 2015, respectively, and represented billings made or payments received in excess of revenue recognized on contracts accounted for under the percentage-of-completion method. Typically, billings are made based on the completion of certain construction milestones as provided for in the sales arrangement, and the timing of revenue recognition may be different from when we can bill or collect from a customer.

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## Payments and billings for deferred project costs

Payments and billings for deferred project costs was \$94.3 million and \$28.6 million at June 30, 2016 and December 31, 2015, respectively, and represented customer payments received or customer billings made under the terms of solar power project related sales contracts for which all revenue recognition criteria for real estate transactions have not yet been met. The associated solar power project costs are included within deferred project costs. We classify such amounts as current if all revenue recognition criteria are expected to be met within the next 12 months, consistent with the classification of the associated deferred project costs.

## Other current liabilities

Other current liabilities consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30, December 31,	
	2016	2015
Deferred revenue	\$22,568	\$ 17,957
Derivative instruments	8,408	16,450
Contingent consideration (1)	8,930	9,233
Financing liability (2)	5,260	5,277
Other	11,337	8,821
Other current liabilities	\$56,503	\$ 57,738

(1) See Note 13. "Commitments and Contingencies" to our condensed consolidated financial statements for further discussion.

(2) See Note 10. "Investments in Unconsolidated Affiliates and Joint Ventures" to our condensed consolidated financial statements for further discussion of the financing liabilities associated with our leaseback of the Maryland Solar project.

## Other liabilities

Other liabilities consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

	June 30,	December 31,
	2016	2015
Product warranty liability (1)	\$212,445	\$ 193,283
Other taxes payable	66,681	66,549
Contingent consideration (1)	14,873	8,756
Liability in excess of normal product warranty liability and related expenses (1)	15,040	19,565
Financing liability (2)	34,159	36,706
Other	114,569	67,453
Other liabilities	\$457,767	\$ 392,312

(1) See Note 13. "Commitments and Contingencies" to our condensed consolidated financial statements for further discussion on "Product warranty liability," "Contingent consideration," and "Liability in excess of normal product warranty liability and related expenses."

(2) See Note 10. "Investments in Unconsolidated Affiliates and Joint Ventures" to our condensed consolidated financial statements for further discussion of the financing liabilities associated with our leaseback of the Maryland Solar project.



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## 8. Derivative Financial Instruments

As a global company, we are exposed in the normal course of business to interest rate and foreign currency risks that could affect our financial position, results of operations, and cash flows. We use derivative instruments to hedge against these risks and only hold such instruments for hedging purposes, not for speculative or trading purposes.

Depending on the terms of the specific derivative instruments and market conditions, some of our derivative instruments may be assets and others liabilities at any particular balance sheet date. We report all of our derivative instruments at fair value and account for changes in the fair value of derivative instruments within “Accumulated other comprehensive income” if the derivative instruments qualify for hedge accounting. For those derivative instruments that do not qualify for hedge accounting (“economic hedges”), we record the changes in fair value directly to earnings. See Note 9. “Fair Value Measurements” to our condensed consolidated financial statements for information about the techniques we use to measure the fair value of our derivative instruments.

The following tables present the fair values of derivative instruments included in our condensed consolidated balance sheets as of June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016		
	Prepaid		
	Expenses	Other	Other
	and	Current	Liabilities
	Other	Liabilities	
	Current		
	Assets		
Derivatives designated as hedging instruments:			
Foreign exchange forward contracts	\$—	\$ 181	\$ 319
Total derivatives designated as hedging instruments	\$—	\$ 181	\$ 319
Derivatives not designated as hedging instruments:			
Foreign exchange forward contracts	\$4,433	\$ 8,227	\$ —
Total derivatives not designated as hedging instruments	\$4,433	\$ 8,227	\$ —
Total derivative instruments	\$4,433	\$ 8,408	\$ 319
	December 31, 2015		
	Prepaid		
	Expenses	Other	Other
	and	Current	Liabilities
	Other	Liabilities	
	Current		
	Assets		
Derivatives designated as hedging instruments:			
Foreign exchange forward contracts	\$—	\$ 132	\$ 285
Cross-currency swap contract	—	6,909	13,835
Interest rate swap contract	—	16	—
Total derivatives designated as hedging instruments	\$—	\$ 7,057	\$ 14,120
Derivatives not designated as hedging instruments:			
Foreign exchange forward contracts	\$2,691	\$ 9,393	\$ —
Total derivatives not designated as hedging instruments	\$2,691	\$ 9,393	\$ —
Total derivative instruments	\$2,691	\$ 16,450	\$ 14,120

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The impact of offsetting balances associated with derivative instruments designated as hedging instruments is shown below (in thousands):

	June 30, 2016		Gross Amounts Not Offset in Consolidated Balance Sheet			
	Gross Asset (Liability)	Gross Offset in Consolidated Balance Sheet	Net Amount Recognized in Financial Statements	Financial Instruments	Cash Collateral Pledged	Net Amount
Foreign exchange forward contracts	\$(500)	—	(500 )	—	—	\$ (500 )

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December 31, 2015

	Gross Asset (Liability)	Gross Offset in Consolidated Balance Sheet	Net Amount Recognized in Financial Statements	Financial Instruments	Cash Collateral Pledged	Net Amount
Foreign exchange forward contracts	\$(417 )	—	(417 )	—	—	\$(417 )
Cross-currency swap contract	\$(20,744)	—	(20,744 )	—	—	\$(20,744)
Interest rate swap contract	\$(16 )	—	(16 )	—	—	\$(16 )

The following tables present the effective amounts related to derivative instruments designated as cash flow hedges affecting accumulated other comprehensive income (loss) and our condensed consolidated statements of operations for the six months ended June 30, 2016 and 2015 (in thousands):

	Foreign Exchange Forward Contracts	Interest Rate Swap Contract	Cross Currency Swap Contract	Total
Balance in accumulated other comprehensive income (loss) at December 31, 2015	\$ 162	\$ (16 )	\$(2,017 )	\$(1,871)
Amounts recognized in other comprehensive income (loss)	371	(2 )	5,108	5,477
Amounts reclassified to earnings impacting:				
Foreign currency loss, net	—	—	(4,896 )	(4,896 )
Interest expense, net	—	18	1,805	1,823
Balance in accumulated other comprehensive income (loss) at June 30, 2016	\$ 533	\$ —	\$ —	\$ 533
Balance in accumulated other comprehensive income (loss) at December 31, 2014	\$ 6,621	\$ (210 )	\$(3,399 )	\$ 3,012
Amounts recognized in other comprehensive income (loss)	973	23	(4,268 )	(3,272 )
Amounts reclassified to earnings impacting:				
Net sales	(352 )	—	—	(352 )
Cost of sales	(4,599 )	—	—	(4,599 )
Foreign currency loss, net	—	—	4,766	4,766
Interest expense, net	—	109	134	243
Balance in accumulated other comprehensive income (loss) at June 30, 2015	\$ 2,643	\$ (78 )	\$(2,767 )	\$(202 )

We recorded no amounts related to ineffective portions of our derivative instruments designated as cash flow hedges during the three and six months ended June 30, 2016 and 2015. We recognized unrealized losses of \$0.2 million and \$0.4 million related to amounts excluded from effectiveness testing for our foreign exchange forward contracts designated as cash flow hedges within "Other income (expense), net" during the three and six months ended June 30, 2016, respectively. We recognized unrealized gains of \$0.2 million and \$0.5 million related to amounts excluded from effectiveness testing for our foreign exchange forward contracts designated as cash flow hedges within "Other income (expense), net" during the three and six months ended June 30, 2015, respectively.



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The following table presents amounts related to derivative instruments not designated as hedges affecting our condensed consolidated statements of operations for the three and six months ended June 30, 2016 and 2015 (in thousands):

Derivatives Not Designated as Hedging Instruments	Location of Gain (Loss) Recognized in Income	Amount of Gain (Loss) Recognized in Income			
		Three Months Ended June 30,		Six Months Ended June 30,	
		2016	2015	2016	2015
Foreign exchange forward contracts	Foreign currency loss, net	\$(5,596)	\$333	\$(22,977)	\$(7,984)
Foreign exchange forward contracts	Cost of sales	\$—	\$(4,553)	\$—	\$9,963

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## Interest Rate Risk

We use cross-currency swap and interest rate swap contracts to mitigate our exposure to interest rate fluctuations associated with certain of our debt instruments. We do not use such swap contracts for speculative or trading purposes.

On September 30, 2011, we entered into a cross-currency swap contract to hedge the floating rate foreign currency denominated loan under our Malaysian Ringgit Facility Agreement. This swap had an initial notional value of Malaysian ringgit (“MYR”) MYR 465.0 million and entitled us to receive a three-month floating Kuala Lumpur Interbank Offered Rate (“KLIBOR”) interest rate while requiring us to pay a U.S. dollar fixed rate of 3.495%. Additionally, this swap hedged the foreign currency risk of the Malaysian ringgit denominated principal and interest payments as we made swap payments in U.S. dollars and received swap payments in Malaysian ringgits at a fixed exchange rate of 3.19 MYR to USD. This swap qualified for accounting as a cash flow hedge in accordance with ASC 815, and we designated it as such. The notional amount of the swap declined in line with our scheduled principal payments on the underlying hedged debt. In June 2016, we paid the remaining principal on the Malaysian Ringgit Facility Agreement and closed the corresponding cross-currency swap contract. As of December 31, 2015, the notional value of this cross-currency swap contract was MYR 232.6 million (\$54.2 million).

On May 29, 2009, we entered into an interest rate swap contract to hedge a portion of the floating rate loans under our Malaysian Credit Facility, which became effective on September 30, 2009 with an initial notional value of €57.3 million and pursuant to which we were entitled to receive a six-month floating Euro Interbank Offered Rate (“EURIBOR”) interest rate while being required to pay a fixed rate of 2.80%. The derivative instrument qualified for accounting as a cash flow hedge in accordance with ASC 815, and we designated it as such. The notional amount of the interest rate swap contract declined in line with our scheduled principal payments on the underlying hedged debt. In March 2016, we paid the remaining principal on the Malaysian Credit Facility and closed the corresponding interest rate swap contract. As of December 31, 2015, the notional value of the interest rate swap contract was €2.2 million (\$2.4 million).

## Foreign Currency Exchange Risk

## Cash Flow Exposure

We expect certain of our subsidiaries to have future cash flows that will be denominated in currencies other than the subsidiaries’ functional currencies. Changes in the exchange rates between the functional currencies of our subsidiaries and the other currencies in which they transact will cause fluctuations in the cash flows we expect to receive or pay when these cash flows are realized or settled. Accordingly, we enter into foreign exchange forward contracts to hedge a portion of these forecasted cash flows. As of June 30, 2016 and December 31, 2015, these foreign exchange forward contracts hedged our forecasted cash flows for 27 months and 33 months, respectively. These foreign exchange forward contracts qualify for accounting as cash flow hedges in accordance with ASC 815, and we designated them as such. We initially report the effective portion of a derivative’s unrealized gain or loss in “Accumulated other comprehensive income” and subsequently reclassify amounts into earnings when the hedged transaction occurs and impacts earnings. We determined that these derivative financial instruments were highly effective as cash flow hedges as of June 30, 2016 and December 31, 2015. As of June 30, 2016 and December 31, 2015, the notional values associated with our foreign exchange forward contracts qualifying as cash flow hedges were as follows (notional amounts and U.S. dollar equivalents in millions):

	June 30, 2016	
Currency	Notional Amount	USD Equivalent
Indian rupee	INR 1,290.0	\$19.1
	December 31, 2015	

Currency	Notional Amount	USD Equivalent
Indian rupee	INR 1,290.0	\$19.4

As of June 30, 2016 and December 31, 2015, the unrealized gains on these contracts were \$0.5 million and \$0.2 million, respectively.

In the following 12 months, we expect to reclassify to earnings \$0.2 million of net unrealized gains related to these forward contracts that are included in “Accumulated other comprehensive income” at June 30, 2016 as we realize the earnings effect of the related forecasted transactions. The amount we ultimately record to earnings will depend on the actual exchange rates when we realize the related forecasted transactions.

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## Transaction Exposure and Economic Hedging

Many of our subsidiaries have assets and liabilities (primarily cash, receivables, marketable securities, payables, debt, and solar module collection and recycling liabilities) that are denominated in currencies other than the subsidiaries' functional currencies. Changes in the exchange rates between the functional currencies of our subsidiaries and the other currencies in which these assets and liabilities are denominated will create fluctuations in our reported condensed consolidated statements of operations and cash flows. We may enter into foreign exchange forward contracts or other financial instruments to economically hedge assets and liabilities against the effects of currency exchange rate fluctuations. The gains and losses on such foreign exchange forward contracts will economically offset all or part of the transaction gains and losses that we recognize in earnings on the related foreign currency denominated assets and liabilities.

We enter into foreign exchange forward contracts to economically hedge balance sheet and other exposures related to transactions between certain of our subsidiaries and transactions with third parties. Such contracts are considered economic hedges and do not qualify for hedge accounting. We recognize gains or losses from the fluctuation in foreign exchange rates and the fair value of these derivative contracts in "Foreign currency loss, net" on our condensed consolidated statements of operations. As of June 30, 2016 and December 31, 2015, the total net unrealized loss on our economic hedge foreign exchange forward contracts was \$3.8 million and \$6.7 million, respectively. As these amounts do not qualify for hedge accounting, changes in the fair value of such derivative instruments are recorded directly to earnings. These contracts mature at various dates within the next 1.5 years.

As of June 30, 2016 and December 31, 2015, the notional values of our foreign exchange forward contracts that do not qualify for hedge accounting were as follows (notional amounts and U.S. dollar equivalents in millions):

June 30, 2016			
Transaction	Currency	Notional Amount	USD Equivalent
Purchase	Euro	€63.7	\$70.8
Sell	Euro	€117.3	\$130.4
Sell	Australian dollar	AUD 16.4	\$12.2
Purchase	Malaysian ringgit	MYR 36.4	\$9.0
Sell	Malaysian ringgit	MYR 83.1	\$20.6
Sell	Canadian dollar	CAD 19.1	\$14.7
Sell	Chilean Peso	CLP 16,233.6	\$24.6
Sell	Japanese yen	JPY 9,356.2	\$91.1
Sell	British pound	GBP 1.9	\$2.6
Purchase	Singapore dollar	SGD 48.2	\$35.8
Sell	Indian rupee	INR 13,500.9	\$199.5
Purchase	South African rand	ZAR 41.4	\$2.8
Sell	South African rand	ZAR 100.2	\$6.7
December 31, 2015			
Transaction	Currency	Notional Amount	USD Equivalent
Purchase	Euro	€42.0	\$45.9
Sell	Euro	€150.1	\$164.0
Purchase	Australian dollar	AUD 41.1	\$29.9
Sell	Australian dollar	AUD 89.0	\$64.8
Purchase	Malaysian ringgit	MYR 61.4	\$14.3
Sell	Malaysian ringgit	MYR 80.7	\$18.8
Sell	Canadian dollar	CAD 4.5	\$3.2
Sell	Japanese yen	JPY 8,448.7	\$70.1
Purchase	British pound	GBP 11.1	\$16.5

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Sell	British pound	GBP 16.0	\$23.7
Sell	Indian rupee	INR 8,939.0	\$134.6
Purchase	South African rand	ZAR 41.1	\$2.7
Sell	South African rand	ZAR 81.5	\$5.3

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## 9. Fair Value Measurements

The following is a description of the valuation techniques that we use to measure the fair value of assets and liabilities that we measure and report at fair value on a recurring basis:

**Cash equivalents.** At June 30, 2016 and December 31, 2015, our cash equivalents consisted of money market funds. We value our money market cash equivalents using observable inputs that reflect quoted prices for securities with identical characteristics, and accordingly, we classify the valuation techniques that use these inputs as Level 1.

**Marketable securities and restricted investments.** At June 30, 2016 and December 31, 2015, our marketable securities consisted of foreign debt and time deposits, and our restricted investments consisted of foreign and U.S. government obligations. We value our marketable securities and restricted investments using observable inputs that reflect quoted prices for securities with identical characteristics or quoted prices for securities with similar characteristics and other observable inputs (such as interest rates that are observable at commonly quoted intervals). Accordingly, we classify the valuation techniques that use these inputs as either Level 1 or Level 2 depending on the inputs used. We also consider the effect of our counterparties' credit standings in these fair value measurements.

**Derivative assets and liabilities.** At June 30, 2016 and December 31, 2015, our derivative assets and liabilities consisted of foreign exchange forward contracts involving major currencies. At December 31, 2015, our derivative assets and liabilities also consisted of a cross-currency swap contract involving certain currencies and interest rates and an interest rate swap. Since our derivative assets and liabilities are not traded on an exchange, we value them using standard industry valuation models. Where applicable, these models project future cash flows and discount the amounts to a present value using market-based observable inputs including interest rate curves, credit risk, foreign exchange rates, and forward and spot prices for currencies. These inputs are observable in active markets over the contract term of the derivative instruments we hold, and accordingly, we classify the valuation techniques as Level 2. In evaluating credit risk, we consider the effect of our counterparties' and our own credit standing in the fair value measurements of our derivative assets and liabilities, respectively.

At June 30, 2016 and December 31, 2015, the fair value measurements of our assets and liabilities that we measure on a recurring basis were as follows (in thousands):

	June 30, 2016			
	Total Fair Value and Carrying Value on Our Balance Sheet	Fair Value Measurements at Reporting Date Using Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Assets:				
Cash equivalents:				
Money market funds	\$174	\$174	\$—	\$ —
Marketable securities:				
Foreign debt	710,779	—	710,779	—

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Time deposits	40,000	40,000	—	—
Restricted investments	409,189	—	409,189	—
Derivative assets	4,433	—	4,433	—
Total assets	\$1,164,575	\$40,174	\$1,124,401	\$ —
Liabilities:				
Derivative liabilities	\$8,727	\$—	\$8,727	\$ —

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December 31, 2015

Fair Value Measurements at Reporting Date Using Quoted Prices in Active Markets for Identical Assets (Level 1)

Significant Other Observable Inputs (Level 2)

Significant Unobservable Inputs (Level 3)

Total Fair Value and Carrying Value on Our Balance Sheet

Assets:					
Cash equivalents:					
Money market funds	\$330	\$330	\$—	\$	—
Marketable securities:					
Foreign debt	663,454	—	663,454	—	
Time deposits	40,000	40,000	—	—	
Restricted investments	326,114	—	326,114	—	
Derivative assets	2,691	—	2,691	—	
Total assets	\$1,032,589	\$40,330	\$992,259	\$	—
Liabilities:					
Derivative liabilities	\$30,570	\$—	\$30,570	\$	—

## Fair Value of Financial Instruments

The carrying values and fair values of our financial and derivative instruments at June 30, 2016 and December 31, 2015 were as follows (in thousands):

	June 30, 2016		December 31, 2015	
	Carrying Value	Fair Value	Carrying Value	Fair Value
Assets:				
Marketable securities	\$750,779	\$750,779	\$703,454	\$703,454
Foreign exchange forward contract assets	4,433	4,433	2,691	2,691
Restricted investments	409,189	409,189	326,114	326,114
Notes receivable – noncurrent	7,782	7,921	12,648	18,382
Notes receivable, affiliates – noncurrent	22,254	25,162	17,887	19,932
Liabilities:				
Long-term debt, including current maturities	\$232,614	\$238,867	\$288,350	\$294,449
Interest rate swap contract liabilities	—	—	16	16
Cross-currency swap contract liabilities	—	—	20,744	20,744
Foreign exchange forward contract liabilities	8,727	8,727	9,810	9,810

The carrying values on our condensed consolidated balance sheets of our cash and cash equivalents, trade accounts receivable, unbilled accounts receivable and retainage, current affiliate notes receivable, restricted cash, accounts payable, income taxes payable, and accrued expenses approximated their fair values due to their nature and relatively short maturities; therefore, we excluded them from the foregoing table.



We estimated the fair value of our notes receivable and long-term debt using a discounted cash flow approach (an income approach) or a market approach based on observable market inputs. We incorporated the credit risk of our counterparty for all asset fair value measurements and our own credit risk for all liability fair value measurements. Such fair value measurements are considered Level 2 under the fair value hierarchy.

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## Credit Risk

We have certain financial and derivative instruments that subject us to credit risk. These consist primarily of cash, cash equivalents, marketable securities, trade accounts receivable, restricted cash and investments, notes receivable, and foreign exchange forward contracts. We are exposed to credit losses in the event of nonperformance by the counterparties to our financial and derivative instruments. We place cash, cash equivalents, marketable securities, restricted cash and investments, and foreign exchange forward contracts with various high-quality financial institutions and limit the amount of credit risk from any one counterparty. We continuously evaluate the credit standing of our counterparty financial institutions. Our net sales are primarily concentrated among a limited number of customers. We monitor the financial condition of our customers and perform credit evaluations whenever considered necessary. Depending upon the sales arrangement, we may require some form of payment security from our customers, including bank guarantees or commercial letters of credit.

## 10. Investments in Unconsolidated Affiliates and Joint Ventures

We have joint ventures or other strategic arrangements with partners in several markets, which are generally used to expedite our penetration of those markets and establish relationships with potential customers. We also enter into joint ventures or strategic arrangements with customers or other entities to maximize the value of particular projects. Some of these arrangements involve and are expected in the future to involve significant investments or other allocations of capital. Investments in unconsolidated entities for which we have significant influence, but not control, over the entities' operating and financial activities are accounted for under the equity method of accounting. Investments in entities for which we do not have the ability to exert such significant influence are accounted for under the cost method of accounting. The following table summarizes our equity and cost method investments as of June 30, 2016 and December 31, 2015 (in thousands):

	June 30, 2016	December 31, 2015
Equity method investments	\$402,629	\$ 375,355
Cost method investments	24,614	24,450
Investments in unconsolidated affiliates and joint ventures	\$427,243	\$ 399,805

## 8point3 Energy Partners LP

In June 2015, 8point3 Energy Partners LP (the "Partnership"), a limited partnership formed by First Solar and SunPower Corporation (the "Sponsors"), completed its initial public offering (the "IPO") pursuant to a Registration Statement on Form S-1, as amended. As part of the IPO, the Sponsors contributed various projects to 8point3 Operating Company, LLC ("OpCo") in exchange for voting and economic interests in the entity, and the Partnership acquired an economic interest in OpCo using proceeds from the IPO. The Partnership owns and operates a portfolio of solar energy generation projects and is expected to acquire additional projects from the Sponsors.

As of June 30, 2016, we owned an aggregate of 22,116,925 Class B shares representing a 31% voting interest in the Partnership, and an aggregate of 6,721,810 common units and 15,395,115 subordinated units in OpCo together representing a 31% economic and voting interest in the entity. Future quarterly distributions from OpCo are subject to a subordination period in which holders of the subordinated units are not entitled to receive any distributions until the common units have received their minimum quarterly distribution plus any arrearages in the payment of minimum distributions from prior quarters. The subordination period will end after OpCo has earned and paid minimum quarterly distributions for three years ending on or after August 31, 2018 and there are no outstanding arrearages on common units. Notwithstanding the foregoing, the subordination period could end after OpCo has earned and paid 150% of minimum quarterly distributions, plus the related distributions to incentive distribution right holders, for one year ending on or after August 31, 2016 and there are no outstanding arrearages on common units. At the end of the

subordination period, all subordinated units will convert to common units on a one-for-one basis. We also hold certain incentive distribution rights in OpCo, which represent a right to incremental distributions after certain distribution thresholds are met.

The Partnership is managed and controlled by its general partner, 8point3 General Partner, LLC (“General Partner”), and we account for our interest in OpCo, a subsidiary of the Partnership, under the equity method of accounting as we are able to exercise significant influence over the Partnership due to our representation on the board of directors of its General Partner. Under the equity method of accounting, we recognize equity in earnings for our proportionate share of OpCo’s net income or loss, including adjustments for the amortization of a \$45.5 million basis difference resulting from the cost of our investment differing from our proportionate share of OpCo’s equity. We recognized equity in earnings, net of tax, from our investment in OpCo of \$11.2 million and \$17.3 million for the three and six months ended June 30, 2016, respectively. As of June 30, 2016 and December 31, 2015, the carrying value of our investment in OpCo was \$182.7 million and \$152.5 million, respectively.

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In connection with the IPO, we also entered into an agreement with a subsidiary of the Partnership to lease back one of our originally contributed projects, Maryland Solar, until December 31, 2019. Under the terms of the agreement, we make fixed rent payments to the Partnership's subsidiary and are entitled to all of the energy generated by the project. Due to our continuing involvement with the project, we account for the leaseback agreement as a financing transaction. As of June 30, 2016 and December 31, 2015, our financing obligation associated with the leaseback was \$39.4 million and \$42.0 million, respectively.

In May 2016, we completed the sale of our two 20 MW Kingbird projects ("Kingbird") located in Kern County, California to OpCo and a third-party investor for net revenue of \$57.4 million and accounted for the transaction as a partial sale of real estate pursuant to ASC 360-20. Due to certain continuing involvement associated with tax related indemnifications to the third-party investor, we did not recognize any profit on the sale as our maximum exposure to loss exceeded the profit on the transaction. All of the cash proceeds from the sale of the Kingbird project were classified as cash flows from operating activities on our condensed consolidated statements of cash flows.

We provide O&M services to certain of the Partnership's partially owned project entities, including SG2 Holdings, LLC; Lost Hills Blackwell Holdings, LLC; NS Solar Holdings, LLC; Kingbird Solar A, LLC; and Kingbird Solar B, LLC. During the three and six months ended June 30, 2016, we recognized revenue of \$1.5 million and \$2.8 million, respectively, for such O&M services.

In June 2015, OpCo entered into a \$525.0 million senior secured credit facility, consisting of a \$300.0 million term loan facility, a \$25.0 million delayed draw term loan facility, and a \$200.0 million revolving credit facility (the "OpCo Credit Facility"). The OpCo Credit Facility is secured by a pledge of the Sponsors' equity interests in OpCo.

### Desert Stateline Holdings, LLC

In August 2015, we sold 51% of our partially constructed 300 MW Desert Stateline project ("Desert Stateline") to a subsidiary of Southern Power Company. In March 2016, we amended the original sale agreement with Southern Power Company to include an additional 15% of the partially constructed project. Electricity generated by the system is contracted to serve a 20-year PPA with a local utility company. Our remaining 34% membership interest in the project holding company, Desert Stateline Holdings, LLC, is accounted for under the equity method of accounting as we are able to exercise significant influence over the project due to our representation on its management committee. Under the terms of the project LLC agreement, each member is entitled to receive cash distributions based on their respective membership interests, and Southern Power Company is entitled to substantially all of the project's federal tax benefits. During the three and six months ended June 30, 2016, we recognized no equity in earnings from our investment in Desert Stateline Holdings, LLC. As of June 30, 2016 and December 31, 2015, the carrying value of our investment was \$191.3 million and \$196.9 million, respectively.

### Clean Energy Collective, LLC

In November 2014, we entered into various agreements to purchase a minority ownership interest in Clean Energy Collective, LLC ("CEC"). This investment provided us with additional access to the distributed generation market and a partner to develop and market community solar offerings to North American residential customers and businesses directly on behalf of client utility companies. As part of the investment, we also received a warrant, valued at \$1.8 million, to purchase additional ownership interests at prices at or above our initial investment price per unit.

In addition to our equity investment in CEC, we also entered into a loan agreement to provide CEC with term loan advances up to \$15.0 million. All term loans are due in November 2017 on the third anniversary of the initial loan agreement. Interest is payable semiannually at rates ranging from 7% to 16% depending on CEC's current capital structure. As of June 30, 2016 and December 31, 2015, the balance outstanding on the term loans was \$15.0 million.

In February 2016, we entered into a convertible loan agreement with CEC for \$4.6 million, which was funded in April 2016. The convertible loan bears interest at 10% per annum, and the outstanding principal and interest are due in February 2018 on the second anniversary of the initial loan agreement unless converted earlier pursuant to a qualified equity financing by CEC.

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CEC is considered a variable interest entity, and our 27% ownership interest in and loans to the company are considered variable interests. We account for our investment in CEC under the equity method of accounting as we concluded we are not the primary beneficiary of the company given that we do not have the power to make decisions over the activities that most significantly impact the company's economic performance. Under the equity method of accounting, we recognize equity in earnings for our proportionate share of CEC's net income or loss including adjustments for the amortization of a basis difference resulting from the cost of our investment differing from our proportionate share of CEC's equity. During the three and six months ended June 30, 2016 we recognized losses, net of tax, of \$1.0 million and \$2.3 million, respectively, from our investment in CEC. During the three and six months ended June 30, 2015, we recognized losses, net of tax, of \$0.2 million and \$1.0 million, respectively, from our investment in CEC. As of June 30, 2016 and December 31, 2015, the carrying value of our investment was \$12.7 million and \$16.1 million, respectively.

## 11. Percentage-of-Completion Changes in Estimates

We recognize revenue for certain systems business sales arrangements under the percentage-of-completion method. The percentage-of-completion method of revenue recognition requires us to make estimates of net contract revenues and costs to complete our projects. In making such estimates, management judgments are required to evaluate significant assumptions including the amount of net contract revenues, the cost of materials and labor, expected labor productivity, the impact of potential variances in schedule completion, and the impact of any penalties, claims, or performance incentives. If estimated total costs on any contract are greater than the net contract revenues, we recognize the entire estimated loss in the period the loss becomes known. The cumulative effect of the revisions to estimates related to net contract revenues and costs to complete contracts are recorded in the period in which the revisions to estimates are identified and the amounts can be reasonably estimated.

Changes in estimates for systems business sales arrangements accounted for under the percentage-of-completion method occur for a variety of reasons, including but not limited to (i) construction plan accelerations or delays, (ii) module cost forecast changes, and (iii) changes in other information used to estimate costs. Changes in estimates could have a material effect on our condensed consolidated statements of operations. The table below outlines the impact on gross profit of the aggregate net change in systems business contract estimates (both increases and decreases) for the three and six months ended June 30, 2016 and 2015 as well as the number of projects that comprise such aggregate net change. For purposes of the following table, we only include projects with changes in estimates that have a net impact on gross profit of at least \$1.0 million during the periods presented. Also included in the table is the net change in estimate as a percentage of the aggregate gross profit for such projects.

	Three Months Ended		Six Months Ended		
	June 30, 2016	2015	June 30, 2016	2015	
Number of projects	8	7	9	6	
Increase in gross profit resulting from net change in estimate (in thousands)	\$22,777	\$20,209	\$53,575	\$37,603	
Net change in estimate as a percentage of aggregate gross profit for associated projects	1.5	% 1.6	% 6.0	% 4.1	%

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## 12. Debt

Our long-term debt consisted of the following at June 30, 2016 and December 31, 2015 (in thousands):

Loan Agreement	Maturity	Loan Denomination	Balance (USD)	
			June 30, 2016	December 31, 2015
Revolving credit facility	July 2018	USD	\$—	\$—
Project construction credit facilities	Various	Various	241,912	218,183
Malaysian ringgit facility agreement	September 2018	MYR	—	54,175
Malaysian euro facility agreement	April 2018	EUR	—	21,869
Malaysian facility agreement	March 2016	EUR	—	5,100
Capital lease obligations	Various	Various	816	1,065
Long-term debt principal			242,728	300,392
Less: unamortized discount and issuance costs			(9,298 )	(10,977 )
Total long-term debt			233,430	289,415
Less: current portion			(71,591 )	(38,090 )
Noncurrent portion			\$ 161,839	\$ 251,325

## Revolving Credit Facility

Our amended and restated credit agreement with several financial institutions as lenders and JPMorgan Chase Bank, N.A. as administrative agent provides us with a senior secured credit facility (the “Revolving Credit Facility”) with an aggregate available amount of \$700.0 million, with the right to request an increase up to \$900.0 million, subject to certain conditions. Borrowings under the Revolving Credit Facility bear interest at (i) LIBOR (adjusted for Eurocurrency reserve requirements) plus a margin of 2.25% or (ii) a base rate as defined in the credit agreement plus a margin of 1.25%, depending on the type of borrowing requested. These margins are subject to adjustment depending on our consolidated leverage ratio. We had no borrowings under our Revolving Credit Facility as of June 30, 2016 and December 31, 2015. We had issued \$222.8 million and \$191.6 million of letters of credit using availability under our Revolving Credit Facility, leaving \$477.2 million and \$508.4 million of availability at June 30, 2016 and December 31, 2015, respectively. Loans and letters of credit issued under the Revolving Credit Facility are jointly and severally guaranteed by First Solar, Inc.; First Solar Electric, LLC; First Solar Electric (California), Inc.; and First Solar Development, LLC and are secured by interests in substantially all of the guarantors’ tangible and intangible assets other than certain excluded assets.

The credit agreement contains financial covenants including: a leverage ratio covenant, a minimum EBITDA covenant, and a minimum liquidity covenant. Additionally, the credit agreement contains customary non-financial covenants and certain restrictions on our ability to pay dividends. We were in compliance with all covenants of the facility as of June 30, 2016.

In addition to paying interest on outstanding principal under the Revolving Credit Facility, we are required to pay a commitment fee at a rate of 0.375% per annum, based on the average daily unused commitments under the facility. The commitment fee may also be adjusted due to changes in our consolidated leverage ratio. We also pay a letter of credit fee based on the applicable margin for Eurocurrency revolving loans on the face amount of each letter of credit and a fronting fee of 0.125%.

## Project Construction Credit Facilities

## Chile

In August 2014, Parque Solar Fotovoltaico Luz del Norte SpA (“Luz del Norte”), our indirect wholly-owned subsidiary, entered into credit facilities with the Overseas Private Investment Corporation (“OPIC”) and the International Finance Corporation (“IFC”) to provide limited-recourse senior secured debt financing in an aggregate principal amount of up to \$290.0 million for the design, development, financing, construction, testing, commissioning, operation, and maintenance of a 141 MW PV solar power plant located near Copiapó, Chile. In September 2015, Luz del Norte reduced the borrowing capacity on the credit facilities to \$238.0 million.



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Up to \$178.0 million of the aggregate principal amount of the loans will be funded by OPIC. The OPIC commitment is comprised of fixed rate loans in an aggregate principal amount of up to \$133.3 million and variable rate loans in an aggregate principal amount of up to \$44.7 million. The fixed rate loans mature in September 2029, and the variable rate loans mature in September 2032. As of June 30, 2016 and December 31, 2015, the balance outstanding on the OPIC loans was \$125.1 million.

Up to \$60.0 million of the aggregate principal amount of the loans will be funded by IFC. The IFC commitment is comprised of fixed rate loans in an aggregate principal amount of up to \$44.9 million and variable rate loans in an aggregate principal amount of up to \$15.1 million. The fixed rate loans mature in September 2029, and the variable rate loans mature in September 2032. As of June 30, 2016 and December 31, 2015, the balance outstanding on the IFC loans was \$42.2 million.

In August 2014, Luz del Norte also entered into a Chilean peso facility (“VAT facility” and together with the OPIC and IFC loans, the “Luz del Norte Credit Facilities”) equivalent to \$65.0 million with Banco de Crédito e Inversiones to fund Chilean value added tax associated with the construction of the Luz del Norte project described above. In connection with the VAT facility, which matures in February 2017, FSI provided a guaranty of substantially all payment obligations of Luz del Norte thereunder. As of June 30, 2016 and December 31, 2015, the balance outstanding on the VAT facility was \$58.5 million and \$40.4 million, respectively.

The OPIC and IFC loans are secured by liens over all of Luz del Norte’s assets, which had an aggregate book value of \$403.4 million, including intercompany charges, as of June 30, 2016 and by a pledge of all of the equity interests in the entity. The Luz del Norte Credit Facilities contain customary representations and warranties, covenants, and events of default for comparable credit facilities. We were in compliance with all covenants related to the Luz del Norte Credit Facilities as of June 30, 2016.

## Japan

In September 2015, First Solar Japan GK, our wholly-owned subsidiary, entered into a construction loan facility with Mizuho Bank Ltd. for borrowings up to ¥4.0 billion (\$38.9 million) for the development and construction of utility-scale PV solar power plants in Japan (the “Japan Credit Facility”). The facility matures in September 2016 and is renewable for an additional one-year period at the option of First Solar Japan GK, subject to certain conditions including timely payment of interest and compliance with all covenants. The facility is guaranteed by FSI and secured by pledges of certain projects’ cash accounts and other rights in the projects. As of June 30, 2016 and December 31, 2015, the balance outstanding on the facility was \$11.6 million and \$5.3 million, respectively. The facility contains customary representations and warranties, covenants, and events of default for comparable construction loan facilities in Japan. We were in compliance with all covenants related to the Japan Credit Facility as of June 30, 2016.

## India

In March 2015, Marikal Solar Parks Private Limited and Mahabubnagar Solar Parks Private Limited, our indirect wholly-owned subsidiaries, entered into term loan facilities with Axis Bank, as administrative agent, for combined aggregate borrowings up to 1.1 billion (\$16.3 million) for the development and construction of two 10 MW PV solar power plants located in Telangana, India. The term loan facilities have a combined letter of credit sub-limit of 0.8 billion (\$11.8 million), which may also be used to support construction activities. As of June 30, 2016, we had issued 0.7 billion (\$11.2 million) of letters of credit under the facilities. The term loan facilities mature in December 2028 and are secured by certain assets of the borrowers, which had an aggregate book value of \$89.3 million as of June 30, 2016, including intercompany charges, and a pledge of a portion of the equity interests in the borrowers. As of June 30, 2016 and December 31, 2015, the balance outstanding on the term loan facilities was \$4.6 million and \$5.2 million, respectively. The credit facilities contain various financial covenants including a leverage ratio covenant, a

debt service ratio covenant, and a fixed asset coverage ratio covenant. We were in compliance with all covenants related to the credit facilities as of June 30, 2016.

In March 2016, Polepally Solar Parks Private Limited, our indirect wholly-owned subsidiary, entered into a term loan facility (together with the Marikal and Mahabubnagar term loans, the “India Credit Facilities”) with Axis Bank, as administrative agent, for borrowings up to 1.3 billion (\$19.2 million) for costs related to a 25 MW PV solar power plant located in Telangana, India. The term loan facility has a letter of credit sub-limit of 1.1 billion (\$16.3 million), which may also be used for project related costs. The term loan facility matures in September 2029 and is secured by certain assets of the borrower, which had an aggregate book value of \$31.0 million as of June 30, 2016, including intercompany charges, and a pledge of a portion of the equity interests in the borrower. The term loan facility contains various covenants including a leverage ratio covenant, a debt service ratio covenant, and a fixed asset ratio covenant.

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## Malaysian Ringgit Facility Agreement

FS Malaysia, our indirect wholly-owned subsidiary, entered into a credit facility agreement (“Malaysian Ringgit Facility Agreement”), among FSI as guarantor, CIMB Investment Bank Berhad, Maybank Investment Bank Berhad, and RHB Investment Bank Berhad as arrangers with CIMB Investment Bank Berhad also acting as facility agent and security agent, and the original lenders party thereto. The loans made to FS Malaysia were secured by, among other things, FS Malaysia’s leases for the lots on which our fifth and sixth manufacturing plants in Kulim, Malaysia (“Plants 5 and 6”) are located and all plant, machinery, and equipment purchased by FS Malaysia with the proceeds of the facility or otherwise installed in or utilized in Plants 5 and 6, to the extent not financed, or subject to a negative pledge under a separate financing facility related to Plants 5 and 6. In June 2016, we repaid the remaining \$47.3 million principal balance on the Malaysian Ringgit Facility Agreement. There were no prepayment penalties associated with this early repayment.

## Malaysian Euro Facility Agreement

FS Malaysia entered into a credit facility agreement (“Malaysian Euro Facility Agreement”) with Commerzbank Aktiengesellschaft and Natixis Zweigniederlassung Deutschland as arrangers and original lenders, and Commerzbank Aktiengesellschaft, Luxembourg Branch as facility agent and security agent. In connection with the Malaysian Euro Facility Agreement, FSI concurrently entered into a first demand guarantee agreement in favor of the lenders. Under this agreement, FS Malaysia’s obligations related to the credit facility were guaranteed, on an unsecured basis, by FSI. At the same time, FS Malaysia and FSI also entered into a subordination agreement, pursuant to which any payment claims of FSI against FS Malaysia were subordinated to the claims of the lenders. In April 2016, we repaid the remaining \$22.7 million principal balance on the Malaysian Euro Facility Agreement. There were no prepayment penalties associated with this early repayment.

## Variable Interest Rate Risk

Certain of our long-term debt agreements bear interest at prime, London Interbank Offered Rate (“LIBOR”), Tokyo Interbank Offered Rate (“TIBOR”), or equivalent variable rates. A disruption of the credit environment, as previously experienced, could negatively impact interbank lending and, therefore, negatively impact these floating rates. An increase in prime, LIBOR, TIBOR, or equivalent variable rates would increase the cost of borrowing under our Revolving Credit Facility and various project construction credit facilities.

Our long-term debt borrowing rates as of June 30, 2016 were as follows:

Loan Agreement	Borrowing Rate at June 30, 2016
Revolving Credit Facility	2.90%
	Fixed rate loans at bank rate plus 3.50%
Luz del Norte Credit Facilities	Variable rate loans at 91-Day U.S. Treasury Bill Yield or LIBOR plus 3.50%
	VAT loans at bank rate plus 1.30%
Japan Credit Facility	TIBOR plus 0.5%
India Credit Facilities	Bank rate plus 2.35%
Capital lease obligations	Various

## Future Principal Payments

At June 30, 2016, the future principal payments on our long-term debt, excluding payments related to capital leases, were due as follows (in thousands):

Total  
Debt

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Remainder of 2016	\$12,065
2017	61,066
2018	4,801
2019	5,777
2020	11,922
Thereafter	146,281
Total long-term debt future principal payments	\$241,912

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## 13. Commitments and Contingencies

## Commercial Commitments

During the normal course of business, we enter into commercial commitments in the form of letters of credit, bank guarantees, and surety bonds to provide financial and performance assurance to third parties. Our Revolving Credit Facility provides us with a sub-limit of \$500.0 million to issue letters of credit subject to certain additional limits depending on the currencies of the letters of credit, at a fee based on the applicable margin for Eurocurrency revolving loans and a fronting fee. As of June 30, 2016, we had \$222.8 million in letters of credit issued under our Revolving Credit Facility, leaving \$277.2 million of availability for the issuance of letters of credit. The majority of these letters of credit were supporting our systems business projects. As of June 30, 2016, we also had \$7.1 million in bank guarantees and letters of credit under separate agreements that were posted by certain of our foreign subsidiaries, \$105.8 million of letters of credit issued under three bilateral facilities, of which \$33.1 million was secured with cash, and \$208.0 million in surety bonds outstanding primarily for our systems business projects. The available bonding capacity under our surety lines was \$612.3 million as of June 30, 2016.

## Product Warranties

When we recognize revenue for module or systems sales, we accrue liabilities for the estimated future costs of meeting our limited warranty obligations for both modules and the balance of the systems. We make and revise these estimates based primarily on the number of our solar modules under warranty installed at customer locations, our historical experience with warranty claims, our monitoring of field installation sites, our internal testing of and the expected future performance of our solar modules and balance of systems (“BoS”) components, and our estimated replacement costs.

From time to time, we have taken remediation actions with respect to affected modules beyond our limited warranties, and we may elect to do so in the future, in which case we would incur additional expenses. Such potential voluntary future remediation actions beyond our limited warranty obligations could be material to our condensed consolidated statements of operations if we commit to any such remediation actions.

Product warranty activities during the three and six months ended June 30, 2016 and 2015 were as follows (in thousands):

	Three Months Ended		Six Months Ended	
	June 30,		June 30,	
	2016	2015	2016	2015
Product warranty liability, beginning of period	\$242,136	\$220,404	\$231,751	\$223,057
Accruals for new warranties issued	12,794	11,268	20,696	18,008
Settlements	(4,050 )	(2,346 )	(6,432 )	(5,095 )
Changes in estimate of product warranty liability	(509 )	(7,022 )	4,356	(13,666 )
Product warranty liability, end of period	\$250,371	\$222,304	\$250,371	\$222,304
Current portion of warranty liability	\$37,926	\$50,973	\$37,926	\$50,973
Noncurrent portion of warranty liability	\$212,445	\$171,331	\$212,445	\$171,331

We have historically estimated our limited product warranty liability for power output and defects in materials and workmanship under normal use and service conditions to have a warranty return rate of approximately 3% of modules covered under warranty. As of June 30, 2016, a 1% change in the estimated warranty return rate would change our module warranty liability by \$74.0 million, and a 1% change in the estimated warranty return rate for BoS components would not have a material impact on the associated warranty liability.

Accrued Expenses in Excess of Product Warranty

We may also accrue expenses for the cost of any voluntary remediation programs beyond our normal product warranty. As of June 30, 2016 and December 31, 2015, accrued expenses in excess of our product warranty were \$19.6 million and \$24.6 million, respectively, of which \$4.6 million and \$5.0 million, respectively, were classified as current and included in “Accrued expenses” on our condensed consolidated balance sheets and \$15.0 million and \$19.6 million, respectively, were classified as noncurrent and included in “Other liabilities” on our condensed consolidated balance sheets. Our estimates for such remediation programs are based on an evaluation of available information including the estimated number of potentially affected solar modules, historical experience related to our remediation efforts, customer-provided data related to potentially affected systems, estimated costs for performing removal, replacement, and logistical services, and any post-sale expenses covered under the voluntary remediation program. If any of our estimates prove incorrect, we may be required to accrue additional expenses.

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### Performance Guarantees

As part of our systems business, we conduct performance testing of a system prior to substantial completion to confirm the system meets its operational and capacity expectations noted in the engineering, procurement, and construction (“EPC”) agreement. In addition, we may provide an energy performance test during the first year of a system’s operation to demonstrate that the actual energy generation for the first year meets or exceeds the modeled energy expectation, after certain adjustments. If there is an underperformance event with regards to these tests, we may incur liquidated damages as a percentage of the EPC contract price. In certain instances, a bonus payment may be received at the end of the first year if the system performs above a specified level. As of June 30, 2016 and December 31, 2015, we accrued \$0.3 million of estimated obligations under such arrangements, which were classified as “Other current liabilities” in the condensed consolidated balance sheets.

As part of our O&M service offerings, we typically offer an effective availability guarantee, which stipulates that a system will be available to generate a certain percentage of total possible energy during a specific period after adjusting for factors outside of our control as the service provider, such as weather, curtailment, outages, force majeure, and other conditions that may affect system availability. Effective availability guarantees are only offered as part of our O&M services and terminate at the end of an O&M arrangement. If we fail to meet the contractual threshold for these guarantees, we may incur liquidated damages for certain lost energy under the PPA. Our O&M agreements typically contain provisions limiting our total potential losses under an agreement, including amounts paid for liquidated damages, to a percentage of O&M fees. Many of our O&M agreements also contain provisions whereby we may receive a bonus payment if system availability exceeds a separate threshold. As of June 30, 2016 and December 31, 2015, we did not accrue any estimated obligations under our effective availability guarantees.

### Repurchase of Systems Projects

From time to time under sales agreements for a limited number of our solar power projects, we may be required to repurchase the projects if certain events occur, such as not achieving commercial operation of the project within a certain timeframe. For any sales agreements that have such conditional repurchase clauses, we will not recognize revenue on such sales agreements until the conditional repurchase clauses are of no further force or effect and all other necessary revenue recognition criteria have been met.

### Indemnifications

In certain limited circumstances, we have provided indemnifications to customers or project tax equity investors under which we are contractually obligated to compensate such parties for losses they may suffer as a result of reductions in tax benefits received, including investment tax credits. Project related tax benefits are, in part, based on guidance provided by the Internal Revenue Service and U.S. Treasury Department, which includes assumptions regarding the fair value of qualifying PV solar power systems. For any sales agreements that have such indemnification provisions, we reduce the profit recognized, if any, by the maximum exposure to loss until the indemnification provisions are of no further force or effect and all other necessary revenue recognition criteria have been met.

### Contingent Consideration

In connection with our previous TetraSun acquisition, we agreed to pay additional amounts to the sellers contingent upon achievement by the acquired business of certain negotiated goals, such as targeted module shipment volumes. In June 2016, we reversed the outstanding contingent consideration associated with our TetraSun acquisition of \$7.4 million as a result of our executive management’s decision to end production of our crystalline silicon modules, which adversely affected the likelihood of achieving certain module shipment volume milestones. Such reversal resulted in a corresponding gain recorded within “Other income (expense), net” on our condensed consolidated statements of

operations for the for the three and six months ended June 30, 2016. See Note 4. “Restructuring and Asset Impairments” to our condensed consolidated financial statements for further discussion related to these restructuring activities. As of December 31, 2015, we had recorded \$2.5 million of current liabilities and \$4.9 million of long-term liabilities for such contingent obligations based on their estimated fair values.



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We continually seek to make additions to our advanced-stage project pipeline and are also actively developing our early to mid-stage project pipeline in order to secure PPAs and are also pursuing opportunities to acquire advanced-stage projects, which already have PPAs in place. In connection with such project acquisitions, we may agree to pay additional amounts to project sellers upon achievement of certain project-related milestones, such as obtaining a PPA, obtaining financing, and selling to a new owner. We recognize an estimated project acquisition contingent liability when we determine that such liability is both probable and reasonably estimable, and the carrying amount of the related project asset is correspondingly increased. As of June 30, 2016 and December 31, 2015, we had recorded \$8.9 million and \$6.7 million of current liabilities, respectively, and \$14.9 million and \$3.9 million of long-term liabilities, respectively, for such contingent obligations. Any future differences between the acquisition-date contingent obligation estimate and the ultimate settlement of the obligations will be recognized primarily as an adjustment to project assets, as contingent payments are considered direct and incremental to the underlying value of the related projects.

### Solar Module Collection and Recycling Liability

We voluntarily established a module collection and recycling program to collect and recycle modules sold and covered under such program once the modules reach the end of their useful lives. For customer sales contracts that include modules covered under this program, we agree to pay the costs for the collection and recycling of qualifying solar modules, and the end-users agree to notify us, disassemble their solar power systems, package the solar modules for shipment, and revert ownership rights over the modules back to us at the end of the modules' service lives. Accordingly, we record our collection and recycling obligations within "Cost of sales" at the time of sale based on the estimated cost to collect and recycle the covered solar modules. During the three and six months ended June 30, 2016 and 2015, substantially all of our modules sold were not subject to our collection and recycling program.

We estimate the cost of our collection and recycling obligations based on the present value of the expected probability weighted future cost of collecting and recycling the solar modules, which includes estimates for the cost of packaging materials, the cost of freight from the solar module installation sites to a recycling center, the material, labor, capital costs, and scale of recycling centers, and an estimated third-party profit margin and return on risk for collection and recycling services. We base these estimates on (i) our experience collecting and recycling our solar modules, (ii) the expected timing of when our solar modules will be returned for recycling, and (iii) expected economic conditions at the time the solar modules will be collected and recycled. In the periods between the time of sale and the related settlement of the collection and recycling obligation, we accrete the carrying amount of the associated liability by applying the discount rate used for its initial measurement. We classify accretion as an operating expense within "Selling, general and administrative" expense on our condensed consolidated statement of operations. We periodically review our estimates of expected future recycling costs and may adjust our liability accordingly.

Our module collection and recycling liability was \$167.7 million and \$163.4 million as of June 30, 2016 and December 31, 2015, respectively. As of June 30, 2016, a 1% increase in the annualized inflation rate used in our estimated future collection and recycling cost per module would increase our liability by \$37.9 million, and a 1% decrease in that rate would decrease our liability by \$31.1 million.

See Note 6. "Restricted Cash and Investments" to our condensed consolidated financial statements for more information about our arrangements for funding this liability.

### Legal Proceedings

We are party to legal matters and claims that are normal in the course of our operations. While we believe that the ultimate outcome of these matters will not have a material adverse effect on our financial position, results of operations, or cash flows, the outcome of these matters is not determinable with certainty, and negative outcomes may

adversely affect us.

#### Class Action

On March 15, 2012, a purported class action lawsuit titled Smilovits v. First Solar, Inc., et al., Case No. 2:12-cv-00555-DGC, was filed in the United States District Court for the District of Arizona (hereafter “Arizona District Court”) against the Company and certain of our current and former directors and officers. The complaint was filed on behalf of persons who purchased or otherwise acquired the Company’s publicly traded securities between April 30, 2008 and February 28, 2012 (the “Class Action”). The complaint generally alleges that the defendants violated Sections 10(b) and 20(a) of the Securities Exchange Act of 1934 by making false and misleading statements regarding the Company’s financial performance and prospects. The action includes claims for damages, including interest, and an award of reasonable costs and attorneys’ fees to the putative class. The Company believes it has meritorious defenses and will vigorously defend this action.

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On July 23, 2012, the Arizona District Court issued an order appointing as lead plaintiffs in the Class Action the Mineworkers' Pension Scheme and British Coal Staff Superannuation Scheme (collectively "Pension Schemes"). The Pension Schemes filed an amended complaint on August 17, 2012, which contains similar allegations and seeks similar relief as the original complaint. Defendants filed a motion to dismiss on September 14, 2012. On December 17, 2012, the court denied defendants' motion to dismiss. On October 8, 2013, the Arizona District Court granted the Pension Schemes' motion for class certification, and certified a class comprised of all persons who purchased or otherwise acquired publicly traded securities of the Company between April 30, 2008 and February 28, 2012 and were damaged thereby, excluding defendants and certain related parties. Merits discovery closed on February 27, 2015.

Defendants filed a motion for summary judgment on March 27, 2015. On August 11, 2015, the Arizona District Court granted defendants' motion in part and denied it in part, and certified an issue for immediate appeal to the Ninth Circuit Court of Appeals (the "Ninth Circuit"). First Solar filed a petition for interlocutory appeal with the Ninth Circuit, and that petition was granted on November 18, 2015. On May 20, 2016, the Pension Schemes moved to vacate the order granting the petition, dismiss the appeal, and stay the merits briefing schedule. Briefing on the Pension Schemes' motion is now complete. The Arizona District Court has entered a stay of the proceedings in district court until the appeal is decided.

Given the pending appeal, the need for further expert discovery, and the uncertainties of trial, we are not in a position to assess whether any loss or adverse effect on our financial condition is probable or remote or to estimate the range of potential loss, if any.

### Opt-Out Action

On June 23, 2015, a suit titled *Maverick Fund, L.D.C. v. First Solar, Inc., et al.*, Case No. 2:15-cv-01156-ROS, was filed in Arizona District Court by putative stockholders that opted out of the Class Action. The complaint names the Company and certain of our current and former directors and officers as defendants, and alleges that the defendants violated Sections 10(b) and 20(a) of the Securities Exchange Act of 1934, and violated state law, by making false and misleading statements regarding the Company's financial performance and prospects. The action includes claims for recessionary and actual damages, interest, punitive damages, and an award of reasonable attorneys' fees, expert fees, and costs. The Company believes it has meritorious defenses and will vigorously defend this action.

The Arizona District Court has extended the deadline for responding to the complaint until after the Ninth Circuit resolves the appeal in the Smilovits matter described above. Accordingly, we are not in a position to assess whether any loss or adverse effect on our financial condition is probable or remote or to estimate the range of potential loss, if any.

### Derivative Actions

On April 3, 2012, a derivative action titled *Tsevegmid v. Ahearn, et al.*, Case No. 1:12-cv-00417-CJB, was filed by a putative stockholder on behalf of the Company in the United States District Court for the District of Delaware (hereafter "Delaware District Court") against certain current and former directors and officers of the Company, alleging breach of fiduciary duties and unjust enrichment. The complaint generally alleges that from June 1, 2008, to March 7, 2012, the defendants caused or allowed false and misleading statements to be made concerning the Company's financial performance and prospects. The action includes claims for, among other things, damages in favor of the Company, certain corporate actions to purportedly improve the Company's corporate governance, and an award of costs and expenses to the putative plaintiff stockholder, including attorneys' fees. On April 10, 2012, a second derivative complaint was filed in the Delaware District Court. The complaint, titled *Brownlee v. Ahearn, et al.*, Case No. 1:12-cv-00456-CJB, contains similar allegations and seeks similar relief to the Tsevegmid action. By court order on April 30, 2012, pursuant to the parties' stipulation, the Tsevegmid action and the Brownlee action were

consolidated into a single action in the Delaware District Court. On May 15, 2012, defendants filed a motion to challenge Delaware as the appropriate venue for the consolidated action. On March 4, 2013, the magistrate judge issued a Report and Recommendation recommending to the court that defendants' motion be granted and that the case be transferred to the District of Arizona. On July 12, 2013, the court adopted the magistrate judge's Report and Recommendation and ordered the case transferred to the District of Arizona. The transfer was completed on July 15, 2013.

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On April 12, 2012, a derivative complaint was filed in the Arizona District Court, titled Tindall v. Ahearn, et al., Case No. 2:12-cv-00769-ROS. In addition to alleging claims and seeking relief similar to the claims and relief asserted in the Tsevegmid and Brownlee actions, the Tindall complaint alleges violations of Sections 14(a) and 20(b) of the Securities Exchange Act of 1934. On April 19, 2012, a second derivative complaint was filed in the Arizona District Court, titled Nederhood v. Ahearn, et al., Case No. 2:12-cv-00819-JWS. The Nederhood complaint contains similar allegations and seeks similar relief to the Tsevegmid and Brownlee actions. On May 17, 2012 and May 30, 2012, respectively, two additional derivative complaints, containing similar allegations and seeking similar relief as the Nederhood complaint, were filed in Arizona District Court: Morris v. Ahearn, et al., Case No. 2:12-cv-01031-JAT and Tan v. Ahearn, et al., 2:12-cv-01144-NVW.

On July 17, 2012, the Arizona District Court issued an order granting First Solar's motion to transfer the derivative actions to Judge David Campbell, the judge to whom the Smilovits class action is assigned. On August 8, 2012, the court consolidated the four derivative actions pending in Arizona District Court, and on August 31, 2012, plaintiffs filed an amended complaint. Defendants filed a motion to stay the action on September 14, 2012. On December 17, 2012, the Arizona District Court granted defendants' motion to stay pending resolution of the Smilovits class action. On August 13, 2013, Judge Campbell consolidated the two derivative actions transferred from the Delaware District Court with the stayed Arizona derivative actions. On February 19, 2016, the Arizona District Court issued an order lifting the stay in part. Pursuant to the February 19, 2016 order, the plaintiffs filed an amended complaint on March 11, 2016, and defendants filed a motion to dismiss the amended complaint on April 1, 2016. On June 30, 2016, the Arizona District Court granted defendants' motion to dismiss the insider trading and unjust enrichment claims with prejudice, and further granted defendants' motion to dismiss the claims for alleged breaches of fiduciary duties, with leave to amend by September 16, 2016. On July 15, 2016, plaintiffs filed a motion to reconsider certain aspects of the order granting defendants' motion to dismiss. The motion to reconsider remains pending.

On July 16, 2013, a derivative complaint was filed in the Superior Court of Arizona, Maricopa County, titled Bargar, et al. v. Ahearn, et al., Case No. CV2013-009938, by a putative stockholder against certain current and former directors and officers of the Company. The complaint contains similar allegations to the Delaware and Arizona derivative cases, and includes claims for, among other things, breach of fiduciary duties, insider trading, unjust enrichment, and waste of corporate assets. By court order on October 3, 2013, the Superior Court of Arizona, Maricopa County granted the parties' stipulation to defer defendants' response to the complaint pending resolution of the Smilovits class action or expiration of the stay issued in the consolidated derivative actions in the Arizona District Court. On November 5, 2013, the matter was placed on the court's inactive calendar. The parties have jointly sought and obtained multiple requests to continue the action on the inactive calendar. Most recently, on June 30, 2016, the court entered an order continuing the action on the inactive calendar until November 30, 2016.

The Company believes that plaintiffs in the derivative actions lack standing to pursue litigation on behalf of First Solar. The derivative actions are still in the initial stages and there has been no discovery. Accordingly, we are not in a position to assess whether any loss or adverse effect on our financial condition is probable or remote or to estimate the range of potential loss, if any.

Department of Labor Proceeding

In March 2015, the Wage and Hour Division of the U.S. Department of Labor (the "DOL") notified our wholly-owned subsidiary First Solar Electric, LLC ("FSE") of the DOL's findings following a labor standards compliance review under the Davis Bacon and Related Acts at the Agua Caliente project in southwestern Arizona. FSE served as the general contractor for the project. The DOL alleges that certain workers at the project were misclassified and, as a result of that misclassification, were not paid the required prevailing wage. We disagree with certain of the DOL's investigative findings and are currently reviewing those issues of disagreement with the DOL. Possible adverse outcomes include the payment of back wages and debarment of FSE and its affiliates from doing certain business with the U.S. federal

government. We cannot predict the ultimate outcome of the DOL proceeding.

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## 14. Share-Based Compensation

We measure share-based compensation cost at the grant date based on the fair value of the award and recognize this cost as share-based compensation expense over the required or estimated service period for awards expected to vest. The share-based compensation expense that we recognized in our condensed consolidated statements of operations for the three and six months ended June 30, 2016 and 2015 was as follows (in thousands):

	Three Months		Six Months	
	Ended June 30,		Ended June 30,	
	2016	2015	2016	2015
Cost of sales	\$2,288	\$2,087	\$4,643	\$5,491
Research and development	805	933	1,855	2,102
Selling, general and administrative	4,000	5,825	12,073	13,319
Production start-up	—	9	—	21
Total share-based compensation expense	\$7,093	\$8,854	\$18,571	\$20,933

The following table presents our share-based compensation expense by type of award for the three and six months ended June 30, 2016 and 2015 (in thousands):

	Three Months		Six Months	
	Ended June 30,		Ended June 30,	
	2016	2015	2016	2015
Restricted and performance stock units	\$5,814	\$7,819	\$17,030	\$18,771
Unrestricted stock	419	332	838	663
Stock purchase plan	348	354	694	669
	6,581	8,505	18,562	20,103
Net amount released from inventory	512	349	9	830
Total share-based compensation expense	\$7,093	\$8,854	\$18,571	\$20,933

Share-based compensation expense capitalized in inventory was \$3.4 million at June 30, 2016 and December 31, 2015, respectively. As of June 30, 2016, we had \$38.5 million of unrecognized share-based compensation expense related to unvested restricted stock units and rights under our stock purchase plan, which we expect to recognize as expense over a weighted-average period of approximately 1.5 years.

The estimated forfeiture rate used to record compensation expense is based primarily on historical forfeitures and is adjusted periodically based on actual results. At June 30, 2016 and December 31, 2015, our forfeiture rate was 9.5%.

## 15. Income Taxes

Our effective tax rate was 20.2% and 485.0% for the six months ended June 30, 2016 and 2015, respectively. The change in our effective tax rate was primarily driven by a \$41.7 million discrete tax benefit recorded during the six months ended June 30, 2015 as a result of a private letter ruling in a foreign jurisdiction related to the timing of the deduction for certain of our obligations and the relative size of our pretax loss in the period. In accordance with the private letter ruling, we will begin treating these obligations as deductible when we actually make payments on the obligations, which are expected to occur subsequent to the expiration of our tax holiday. The provision for income taxes differed from the amount computed by applying the statutory U.S. federal income tax rate of 35.0% primarily due to the benefit associated with foreign income taxed at lower rates, including the beneficial impact of our Malaysian tax holiday, partially offset by additional tax expense attributable to losses in jurisdictions for which no tax benefits could be recorded.

Our Malaysian subsidiary has been granted a long-term tax holiday that expires in 2027. The tax holiday, which generally provides for a full exemption from Malaysian income tax, is conditional upon our continued compliance with meeting certain employment and investment thresholds, which we are currently in compliance with and expect to continue to comply with through the expiration of the tax holiday in 2027.

In July 2016, we received a letter from a foreign tax authority confirming our residency status in that jurisdiction. In accordance with the letter, we will reverse a liability associated with an uncertain tax position related to the income of a foreign subsidiary. Accordingly, we expect to record a benefit of approximately \$35 million through the tax provision from the reversal of such liability during the three months ended September 30, 2016.



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We account for uncertain tax positions pursuant to the recognition and measurement criteria under ASC 740. It is reasonably possible that \$47.8 million of uncertain tax positions, including the matter discussed above, will be recognized within the next 12 months.

We use the deferral method of accounting for investment tax credits under which the credits are recognized as reductions in the carrying value of the related assets. The use of the deferral method also results in a basis difference from the recognition of a deferred tax asset and an immediate income tax benefit for the future tax depreciation of the related assets. Such basis differences are accounted for pursuant to the income statement method.

We are subject to audit by U.S. federal, state, local, and foreign tax authorities. During the six months ended June 30, 2015, we settled a tax audit in Spain, which resulted in a discrete tax expense of \$3.0 million. We are currently under examination in Chile and Germany. We believe that adequate provisions have been made for any adjustments that may result from tax examinations. However, the outcome of tax audits cannot be predicted with certainty. If any issues addressed by our tax audits are not resolved in a manner consistent with our expectations, we could be required to adjust our provision for income taxes in the period such resolution occurs.

## 16. Net Income per Share

Basic net income per share is computed by dividing net income by the weighted-average number of common shares outstanding for the period. Diluted net income per share is computed giving effect to all potentially dilutive common shares, including restricted and performance stock units and stock purchase plan shares, unless there is a net loss for the period. In computing diluted net income per share, we utilize the treasury stock method.

The calculation of basic and diluted net income per share for the three and six months ended June 30, 2016 and 2015 was as follows (in thousands, except per share amounts):

	Three Months Ended June 30,		Six Months Ended June 30,	
	2016	2015	2016	2015
Basic net income per share				
Numerator:				
Net income	\$13,408	\$93,885	\$183,973	\$32,968
Denominator:				
Weighted-average common shares outstanding	102,287	100,852	102,070	100,615
Diluted net income per share				
Denominator:				
Weighted-average common shares outstanding	102,287	100,852	102,070	100,615
Effect of restricted and performance stock units and stock purchase plan shares	1,588	755	1,211	1,016
Weighted-average shares used in computing diluted net income per share	103,875	101,607	103,281	101,631
Net income per share:				
Basic	\$0.13	\$0.93	\$1.80	\$0.33
Diluted	\$0.13	\$0.92	\$1.78	\$0.33

The following table summarizes the potential shares of common stock that were excluded from the computation of diluted net income per share for the three and six months ended June 30, 2016 and 2015 as they would have had an anti-dilutive effect (in thousands):

	Three Months	Six Months
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	Ended June 30, 2016	Ended June 30, 2015
Anti-dilutive shares	435 12	218 73

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## 17. Comprehensive Income (Loss) and Accumulated Other Comprehensive Income

Comprehensive income (loss), which includes foreign currency translation adjustments, unrealized gains and losses on available-for-sale securities, and unrealized gains and losses on derivative instruments designated and qualifying as cash flow hedges, the impact of which has been excluded from net income (loss) and reflected as components of stockholders' equity, was as follows for the three and six months ended June 30, 2016 and 2015 (in thousands):

	Three Months Ended June 30,	
	2016	2015
Net income	\$13,408	\$93,885
Other comprehensive income (loss), net of tax:		
Foreign currency translation adjustments	(2,325 )	2,495
Unrealized gain (loss) on marketable securities and restricted investments for the period, net of tax of \$(1,783) and \$3,842	29,631	(60,640 )
Less: reclassification for gains included in net income, net of tax of \$0	(1 )	—
Unrealized gain (loss) on marketable securities and restricted investments	29,630	(60,640 )
Unrealized (loss) gain on derivative instruments for the period, net of tax of \$(69) and \$(1,837)	(1,751 )	3,577
Less: reclassification for losses (gains) included in net income, net of tax of \$0 and \$2,343	3,991	(3,918 )
Unrealized gain (loss) on derivative instruments	2,240	(341 )
Other comprehensive income (loss), net of tax	29,545	(58,486 )
Comprehensive income	\$42,953	\$35,399
	Six Months Ended June 30,	
	2016	2015
Net income	\$183,973	\$32,968
Other comprehensive income (loss), net of tax:		
Foreign currency translation adjustments	3,217	(12,898 )
Unrealized gain (loss) on marketable securities and restricted investments for the period, net of tax of \$(4,079) and \$1,785	70,497	(22,353 )
Less: reclassification for gains included in net income, net of tax of \$2,904 and \$0	(34,901 )	—
Unrealized gain (loss) on marketable securities and restricted investments	35,596	(22,353 )
Unrealized gain (loss) on derivative instruments for the period, net of tax of \$(59) and \$(200)	5,419	(3,472 )
Less: reclassification for (gains) losses included in net income, net of tax of \$0 and \$1,513	(3,073 )	1,571
Unrealized gain (loss) on derivative instruments	2,346	(1,901 )
Other comprehensive income (loss), net of tax	41,159	(37,152 )
Comprehensive income (loss)	\$225,132	\$(4,184 )

The following tables reflect the changes in accumulated other comprehensive income, net of tax, for the six months ended June 30, 2016 and 2015 (in thousands):

	Foreign Currency Translation Adjustment	Unrealized Gain (Loss) on Marketable Securities and Restricted Investments	Unrealized Gain (Loss) on Derivative Instruments	Total
Balance as of December 31, 2015	\$ (69,769 )	\$ 86,884	\$ (1,635 )	\$ 15,480
Other comprehensive income before reclassifications	3,217	70,497	5,419	79,133

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Amounts reclassified from accumulated other comprehensive income	—	(34,901 )	(3,073 )	(37,974 )
Net other comprehensive income	3,217	35,596	2,346	41,159
Balance as of June 30, 2016	\$(66,552 )	\$ 122,480	\$ 711	\$56,639

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	Foreign Currency Translation Adjustment	Unrealized Gain (Loss) on Marketable Securities and Restricted Investments	Unrealized Gain (Loss) on Derivative Instruments	Total
Balance as of December 31, 2014	\$ (53,337 )	\$ 102,299	\$ 1,178	\$ 50,140
Other comprehensive loss before reclassifications	(12,898 )	(22,353 )	(3,472 )	(38,723 )
Amounts reclassified from accumulated other comprehensive income	—	—	1,571	1,571
Net other comprehensive loss	(12,898 )	(22,353 )	(1,901 )	(37,152 )
Balance as of June 30, 2015	\$ (66,235 )	\$ 79,946	\$ (723 )	\$ 12,988
	Amount Reclassified for the Six Months Ended		Income Statement Line Item	
Details of Accumulated Other Comprehensive Income	June 30, 2016	2015		
Gains and (losses) on marketable securities and restricted investments:				
	\$37,805	\$—	Other income (expense), net	
	(2,904 )	—	Tax expense	
	\$34,901	\$—	Total, net of tax	
Gains and (losses) on derivative contracts:				
Foreign exchange forward contracts	\$—	\$352	Net sales	
Foreign exchange forward contracts	—	4,599	Cost of sales	
Cross currency swap contract	4,896	(4,766 )	Foreign currency loss, net	
Interest rate and cross currency swap contracts	(1,823 )	(243 )	Interest expense, net	
	3,073	(58 )	Total before tax	
	—	(1,513 )	Tax expense	
	\$3,073	\$(1,571)	Total net of tax	

## 18. Segment Reporting

We operate our business in two segments. Our components segment involves the design, manufacture, and sale of CdTe solar modules, which convert sunlight into electricity. Third-party customers of our components segment include integrators and operators of PV solar power systems. Our second segment is our fully integrated systems business (“systems segment”), through which we provide complete turn-key PV solar power systems, or solar solutions, that draw upon our capabilities, which include (i) project development, (ii) EPC services, and (iii) O&M services. We may provide our full EPC services or any combination of individual products and services within our EPC capabilities depending upon the customer and market opportunity. All of our systems segment products and services are for PV solar power systems, which primarily use our solar modules, and we sell such products and services to utilities, independent power producers, commercial and industrial companies, and other system owners. Additionally within our systems segment, we may temporarily own and operate certain of our PV solar power systems for a period of time based on strategic opportunities.

In our reportable segment financial disclosures, we include an allocation of net sales value for all solar modules manufactured by our components segment and installed in projects sold or built by our systems segment in the net sales of our components segment. In the gross profit of our reportable segment disclosures, we include the corresponding cost of sales value for the solar modules installed in projects sold or built by our systems segment in the components segment. The cost of solar modules is comprised of the manufactured cost incurred by our components segment.

See Note 23. “Segment and Geographical Information” in our Annual Report on Form 10-K for the year ended December 31, 2015 for a complete discussion of our segment reporting.

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Financial information about our reportable segments during the three and six months ended June 30, 2016 and 2015 was as follows (in thousands):

	Three Months Ended June 30, 2016			Three Months Ended June 30, 2015			
	Component	Systems	Total	Component	Systems	Total	
Net sales	\$449,405	\$484,976	\$934,381	\$321,444	\$574,773	\$896,217	
Gross profit	108,146	83,019	191,165	57,836	106,647	164,483	
Depreciation and amortization expense	53,274	3,403	56,677	61,967	3,379	65,346	
Income (loss) before taxes (1)	(6,566	) 18,845	12,279	7,056	51,560	58,616	
	Six Months Ended June 30, 2016			Six Months Ended June 30, 2015			
	Component	Systems	Total	Component	Systems	Total	
Net sales	\$739,909	\$1,042,956	\$1,782,865	\$547,061	\$818,365	\$1,365,426	
Gross profit	191,127	262,983	454,110	77,225	126,239	203,464	
Depreciation and amortization expense	108,566	6,849	115,415	121,778	6,797	128,575	
Income (loss) before taxes (1)	74,614	136,997	211,611	(21,001	) 12,894	(8,107	)
	June 30, 2016			December 31, 2015			
	Component	Systems					