

FIRST SOLAR, INC.
Form 10-Q
October 26, 2018

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 September 30, 2018

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 every Interactive Data File required to be submitted 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 such files). Yes No

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

Large accelerated filer Accelerated filer Non-accelerated filer

Smaller reporting company Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the

Exchange Act.

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

As of October 19, 2018, 104,814,977 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 SEPTEMBER 30, 2018

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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 | | Nine Months Ended | |
|---|--------------------|-------------|-------------------|-------------|
| | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 |
| Net sales | \$676,220 | \$1,087,026 | \$1,552,803 | \$2,602,143 |
| Cost of sales | 547,093 | 795,226 | 1,258,936 | 2,115,266 |
| Gross profit | 129,127 | 291,800 | 293,867 | 486,877 |
| Operating expenses: | | | | |
| Selling, general and administrative | 33,539 | 50,546 | 125,519 | 147,702 |
| Research and development | 22,390 | 20,850 | 63,084 | 64,990 |
| Production start-up | 14,723 | 12,624 | 76,159 | 22,155 |
| Restructuring and asset impairments | — | 791 | — | 39,108 |
| Total operating expenses | 70,652 | 84,811 | 264,762 | 273,955 |
| Operating income | 58,475 | 206,989 | 29,105 | 212,922 |
| Foreign currency loss, net | (2,383) | (3,968) | (2,478) | (6,166) |
| Interest income | 16,456 | 8,392 | 45,145 | 22,364 |
| Interest expense, net | (3,198) | (4,149) | (14,445) | (19,692) |
| Other (loss) income, net | (5,971) | 2,018 | 7,635 | 25,180 |
| Income before taxes and equity in earnings | 63,379 | 209,282 | 64,962 | 234,608 |
| Income tax (expense) benefit | (2,396) | (7,580) | (7,857) | 26,769 |
| Equity in earnings, net of tax | (3,233) | 4,045 | 35,105 | 5,462 |
| Net income | \$57,750 | \$205,747 | \$92,210 | \$266,839 |
| Net income per share: | | | | |
| Basic | \$0.55 | \$1.97 | \$0.88 | \$2.56 |
| Diluted | \$0.54 | \$1.95 | \$0.87 | \$2.54 |
| Weighted-average number of shares used in per share calculations: | | | | |
| Basic | 104,804 | 104,432 | 104,711 | 104,287 |
| Diluted | 106,163 | 105,660 | 106,211 | 104,889 |

See accompanying notes to these condensed consolidated financial statements.

Table of ContentsFIRST SOLAR, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF COMPREHENSIVE INCOME

(In thousands)

(Unaudited)

| | Three Months Ended | | Nine Months Ended | |
|--|--------------------|-----------|-------------------|-----------|
| | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 |
| Net income | \$57,750 | \$205,747 | \$92,210 | \$266,839 |
| Other comprehensive (loss) income: | | | | |
| Foreign currency translation adjustments | 1,793 | 4,717 | (7,252) | 5,320 |
| Unrealized (loss) gain on marketable securities and restricted investments, net of tax of \$273, \$(23), \$3,424, and \$(373) | (6,688) | 1,511 | (32,106) | 1,244 |
| Unrealized (loss) gain on derivative instruments, net of tax of \$(22), \$291, \$(1,000), and \$1,291 | (39) | (61) | 1,928 | (2,513) |
| Other comprehensive (loss) income | (4,934) | 6,167 | (37,430) | 4,051 |
| Comprehensive income | \$52,816 | \$211,914 | \$54,780 | \$270,890 |

See accompanying notes to these condensed consolidated financial statements.

Table of ContentsFIRST SOLAR, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED BALANCE SHEETS

(In thousands, except share data)

(Unaudited)

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| ASSETS | | |
| Current assets: | | |
| Cash and cash equivalents | \$ 1,434,883 | \$ 2,268,534 |
| Marketable securities | 1,295,049 | 720,379 |
| Accounts receivable trade, net | 141,699 | 211,797 |
| Accounts receivable, unbilled and retainage | 421,134 | 174,608 |
| Inventories | 296,038 | 172,370 |
| Balance of systems parts | 51,448 | 28,840 |
| Project assets | 28,978 | 77,931 |
| Notes receivable, affiliate | 21,308 | 20,411 |
| Prepaid expenses and other current assets | 195,552 | 157,902 |
| Total current assets | 3,886,089 | 3,832,772 |
| Property, plant and equipment, net | 1,671,129 | 1,154,537 |
| PV solar power systems, net | 310,493 | 417,108 |
| Project assets | 463,624 | 424,786 |
| Deferred tax assets, net | 108,636 | 51,417 |
| Restricted cash and investments | 341,125 | 424,783 |
| Equity method investments | 3,192 | 217,230 |
| Goodwill | 14,462 | 14,462 |
| Intangibles assets, net | 74,585 | 80,227 |
| Inventories | 124,266 | 113,277 |
| Note receivable, affiliate | — | 48,370 |
| Other assets | 96,954 | 85,532 |
| Total assets | \$ 7,094,555 | \$ 6,864,501 |
| LIABILITIES AND STOCKHOLDERS' EQUITY | | |
| Current liabilities: | | |
| Accounts payable | \$ 154,602 | \$ 120,220 |
| Income taxes payable | 49,941 | 19,581 |
| Accrued expenses | 433,117 | 366,827 |
| Current portion of long-term debt | 2,618 | 13,075 |
| Deferred revenue | 215,900 | 81,816 |
| Other current liabilities | 12,006 | 48,757 |
| Total current liabilities | 868,184 | 650,276 |
| Accrued solar module collection and recycling liability | 133,965 | 166,609 |
| Long-term debt | 463,485 | 380,465 |
| Other liabilities | 457,964 | 568,454 |
| Total liabilities | 1,923,598 | 1,765,804 |
| Commitments and contingencies | | |
| Stockholders' equity: | | |
| Common stock, \$0.001 par value per share; 500,000,000 shares authorized; 104,814,322 and 104,468,460 shares issued and outstanding at September 30, 2018 and December 31, 2017, respectively | 105 | 104 |
| Additional paid-in capital | 2,816,585 | 2,799,107 |

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| | | |
|---|--------------|--------------|
| Accumulated earnings | 2,389,438 | 2,297,227 |
| Accumulated other comprehensive (loss) income | (35,171 |) 2,259 |
| Total stockholders' equity | 5,170,957 | 5,098,697 |
| Total liabilities and stockholders' equity | \$ 7,094,555 | \$ 6,864,501 |

See accompanying notes to these condensed consolidated financial statements.

Table of ContentsFIRST SOLAR, INC. AND SUBSIDIARIES
CONDENSED CONSOLIDATED STATEMENTS OF CASH FLOWS

(In thousands)

(Unaudited)

| | Nine Months Ended September 30, | |
|--|------------------------------------|-----------|
| | 2018 | 2017 |
| Cash flows from operating activities: | | |
| Net income | \$92,210 | \$266,839 |
| Adjustments to reconcile net income to cash provided by operating activities: | | |
| Depreciation, amortization and accretion | 89,192 | 89,552 |
| Impairments and net losses on disposal of long-lived assets | 5,379 | 33,171 |
| Share-based compensation | 26,787 | 25,527 |
| Equity in earnings, net of tax | (35,105) | (5,462) |
| Distributions received from equity method investments | 12,394 | 17,024 |
| Remeasurement of monetary assets and liabilities | 6,837 | (12,464) |
| Deferred income taxes | (55,732) | (38,499) |
| Gains on sales of marketable securities and restricted investments | (19,472) | (49) |
| Liabilities assumed by customers for the sale of systems | (116,456) | — |
| Other, net | 1,891 | 2,572 |
| Changes in operating assets and liabilities: | | |
| Accounts receivable, trade, unbilled and retainage | (178,723) | (328,556) |
| Prepaid expenses and other current assets | (34,321) | 35,818 |
| Inventories and balance of systems parts | (158,311) | 178,562 |
| Project assets and PV solar power systems | 50,294 | 969,264 |
| Other assets | (12,694) | (16,453) |
| Income tax receivable and payable | 6,302 | 6,416 |
| Accounts payable | 28,591 | (21,198) |
| Accrued expenses and other liabilities | 181,328 | (289,919) |
| Accrued solar module collection and recycling liability | (31,701) | (5,426) |
| Net cash (used in) provided by operating activities | (141,310) | 906,719 |
| Cash flows from investing activities: | | |
| Purchases of property, plant and equipment | (610,620) | (315,129) |
| Purchases of marketable securities and restricted investments | (1,102,440) | (478,324) |
| Proceeds from sales and maturities of marketable securities and restricted investments | 627,106 | 386,309 |
| Proceeds from sales of equity method investments | 247,595 | — |
| Payments received on notes receivable, affiliates | 48,459 | 478 |
| Other investing activities | (5,823) | 2,707 |
| Net cash used in investing activities | (795,723) | (403,959) |
| Cash flows from financing activities: | | |
| Repayment of long-term debt | (18,937) | (23,683) |
| Proceeds from borrowings under long-term debt, net of discounts and issuance costs | 174,594 | 158,739 |
| Payments of tax withholdings for restricted shares | (10,517) | (5,114) |
| Proceeds from commercial letters of credit | — | 43,025 |
| Contingent consideration payments and other financing activities | (1,957) | (21,361) |
| Net cash provided by financing activities | 143,183 | 151,606 |
| Effect of exchange rate changes on cash, cash equivalents and restricted cash | (12,454) | 9,420 |
| Net (decrease) increase in cash, cash equivalents and restricted cash | (806,304) | 663,786 |
| Cash, cash equivalents and restricted cash, beginning of the period | 2,330,476 | 1,415,690 |

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| | | |
|---|-------------|-------------|
| Cash, cash equivalents and restricted cash, end of the period | \$1,524,172 | \$2,079,476 |
| Supplemental disclosure of noncash investing and financing activities: | | |
| Property, plant and equipment acquisitions funded by liabilities | \$144,928 | \$128,450 |
| Sale of system previously accounted for as sale-leaseback financing | \$31,992 | \$— |
| Acquisitions currently or previously funded by liabilities and contingent consideration | \$8,622 | \$12,212 |
| Accrued interest capitalized to long-term debt | \$2,716 | \$16,786 |

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 in this Quarterly Report have been prepared in accordance with generally accepted accounting principles 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. Certain prior period balances have been reclassified to conform to the current period presentation.

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. Despite our intention to establish accurate estimates and reasonable assumptions, actual results could differ materially from such estimates and assumptions. Operating results for the three and nine months ended September 30, 2018 are not necessarily indicative of the results that may be expected for the year ending December 31, 2018 or for any other period. The condensed consolidated balance sheet at December 31, 2017 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, 2017 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,” “us,” “our,” and “First Solar” refer to First Solar, Inc. and its consolidated subsidiaries, and the term “condensed consolidated financial statements” refers to the accompanying unaudited condensed consolidated financial statements contained in this Quarterly Report.

2. Recent Accounting Pronouncements

In February 2018, the Financial Accounting Standard Board (“FASB”) issued ASU 2018-02, Income Statement – Reporting Comprehensive Income (Topic 220) – Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income, to allow entities to reclassify the income tax effects of tax reform legislation commonly referred to as the Tax Cuts and Jobs Act (the “Tax Act”) on items within accumulated other comprehensive income to retained earnings. ASU 2018-02 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 2018-02 will have on our consolidated financial statements and associated disclosures.

In August 2017, the FASB issued ASU 2017-12, Derivatives and Hedging (Topic 815) – Targeted Improvements to Accounting for Hedging Activities, to simplify certain aspects of hedge accounting for both non-financial and financial risks and better align the recognition and measurement of hedge results with an entity’s risk management activities. ASU 2017-12 also amends certain presentation and disclosure requirements for hedging activities and changes how an entity assesses hedge effectiveness. ASU 2017-12 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 2017-12 will have on our consolidated financial statements and associated disclosures.

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In October 2016, the FASB issued ASU 2016-16, Income Taxes (Topic 230) – Intra-Entity Transfers of Assets Other Than Inventory. ASU 2016-16 requires the recognition of income tax consequences of intra-entity transfers of assets, other than inventory, when the transfer occurs. Two common examples of assets included in the scope of ASU 2016-16 are intellectual property and long-lived assets. The adoption of ASU 2016-16 in the first quarter of 2018 did not have a significant impact 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.

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 and disclosing key information about leasing transactions. 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. In July 2018, the FASB issued ASU 2018-11, Leases (Topic 842) – Targeted Improvements, which provided an optional transition method to apply the new lease requirements through a cumulative-effect adjustment in the period of adoption.

We expect to adopt ASU 2016-02 in the first quarter of 2019 using this optional transition method. We also expect to elect certain practical expedients permitted under the transition guidance, which, among other things, allow us to not reassess prior conclusions related to contracts containing leases or lease classification. We are currently evaluating the impact ASU 2016-02 will have on our consolidated financial statements and associated disclosures and designing the related processes and internal controls. We expect the adoption to have a significant impact on our consolidated balance sheet through the recognition of right-of-use assets and lease liabilities primarily related to real estate arrangements but do not expect the adoption to have a significant impact on our results of operations or cash flows.

3. Restructuring and Asset Impairments

Cadmium Telluride Module Manufacturing and Corporate Restructuring

In November 2016, our board of directors approved a set of initiatives intended to accelerate our transition to Series 6 module manufacturing and restructure our operations to reduce costs and better align the organization with our long-term strategic plans. Accordingly, we expect to upgrade and replace our legacy manufacturing fleet over the next several years with Series 6 manufacturing equipment, thereby enabling the production of solar modules with a larger form factor, better product attributes, and a lower cost structure.

As part of these initiatives, we incurred net charges of \$39.1 million during the nine months ended September 30, 2017, which included (i) \$25.7 million of charges, primarily related to net losses on the disposition of previously impaired Series 4 and Series 5 manufacturing equipment, (ii) \$6.8 million of severance benefits to terminated employees, and (iii) \$6.6 million of net miscellaneous charges, primarily related to contract terminations, the write-off of operating supplies, and other Series 4 manufacturing exit costs. During the three months ended September 30, 2017, we incurred net charges of \$0.8 million, primarily as a result of net losses on the disposition of the aforementioned manufacturing equipment. Substantially all amounts associated with these restructuring and asset impairment charges related to our modules segment and were classified as “Restructuring and asset impairments” on our condensed consolidated statements of operations, and substantially all of the associated liabilities were paid or settled

as of December 31, 2017.

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4. Cash, Cash Equivalents, and Marketable Securities

We consider highly liquid investments with original maturities of three months or less at the time of purchase to be cash equivalents with the exception of time deposits, which are presented as marketable securities. Cash, cash equivalents, and marketable securities consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| Cash and cash equivalents: | | |
| Cash | \$ 1,234,270 | \$ 2,142,949 |
| Money market funds | 200,613 | 125,585 |
| Total cash and cash equivalents | 1,434,883 | 2,268,534 |
| Marketable securities: | | |
| Foreign debt | 314,213 | 238,858 |
| Foreign government obligations | 117,975 | 152,850 |
| U.S. debt | 25,047 | 73,671 |
| Time deposits | 837,814 | 255,000 |
| Total marketable securities | 1,295,049 | 720,379 |
| Total cash, cash equivalents, and marketable securities | \$ 2,729,932 | \$ 2,988,913 |

The following table provides a reconciliation of cash, cash equivalents, and restricted cash reported within our condensed consolidated balance sheets as of September 30, 2018 and December 31, 2017 to the total of such amounts as presented in the condensed consolidated statement of cash flows (in thousands):

| | Balance Sheet Line Item | September 30, 2018 | December 31, 2017 |
|---|---|-----------------------|----------------------|
| Cash and cash equivalents | Cash and cash equivalents | \$ 1,434,883 | \$ 2,268,534 |
| Restricted cash – current (1) | Prepaid expenses and other current assets | 6,777 | 11,120 |
| Restricted cash – noncurrent (1) | Restricted cash and investments | 82,512 | 50,822 |
| Total cash, cash equivalents, and restricted cash | | \$ 1,524,172 | \$ 2,330,476 |

(1) See Note 5. “Restricted Cash and Investments” to our condensed consolidated financial statements for discussion of our “Restricted cash” arrangements.

During the nine months ended September 30, 2018, we sold marketable securities for proceeds of \$10.8 million and realized gains of less than \$0.1 million on such sales. During the nine months ended September 30, 2017, we sold marketable securities for proceeds of \$118.3 million and realized gains of less than \$0.1 million on such sales. See Note 8. “Fair Value Measurements” to our condensed consolidated financial statements for information about the fair value of our marketable securities.

The following tables summarize the unrealized gains and losses related to our available-for-sale marketable securities, by major security type, as of September 30, 2018 and December 31, 2017 (in thousands):

| | As of September 30, 2018 | | | |
|--------------------------------|--------------------------|------------------|-------------------|------------|
| | Amortized Cost | Unrealized Gains | Unrealized Losses | Fair Value |
| Foreign debt | \$317,246 | \$ 8 | \$ 3,041 | \$314,213 |
| Foreign government obligations | 118,993 | — | 1,018 | 117,975 |
| U.S. debt | 25,054 | 2 | 9 | 25,047 |

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| | | | | |
|---------------|-------------|-------|----------|-------------|
| Time deposits | 837,814 | — | — | 837,814 |
| Total | \$1,299,107 | \$ 10 | \$ 4,068 | \$1,295,049 |

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| | As of December 31, 2017 | | | |
|--------------------------------|-------------------------|------------------|-------------------|------------|
| | Amortized Cost | Unrealized Gains | Unrealized Losses | Fair Value |
| Foreign debt | \$240,643 | \$ 3 | \$ 1,788 | \$238,858 |
| Foreign government obligations | 153,999 | — | 1,149 | 152,850 |
| U.S. debt | 73,746 | — | 75 | 73,671 |
| Time deposits | 255,000 | — | — | 255,000 |
| Total | \$723,388 | \$ 3 | \$ 3,012 | \$720,379 |

As of September 30, 2018, we identified 16 investments totaling \$224.8 million that had been in a loss position for a period of time greater than 12 months with unrealized losses of \$2.5 million. As of December 31, 2017, we identified 16 investments totaling \$210.3 million that had been in a loss position for a period of time greater than 12 months with unrealized losses of \$1.9 million. Such 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.

The following tables show unrealized losses and fair values for those marketable securities that were in an unrealized loss position as of September 30, 2018 and December 31, 2017, aggregated by major security type and the length of time the marketable securities have been in a continuous loss position (in thousands):

| | As of September 30, 2018 | | | | | |
|--------------------------------|--|-------------------|---|-------------------|------------|-------------------|
| | In Loss Position for Less Than 12 Months | | In Loss Position for 12 Months or Greater | | Total | |
| | Fair Value | Unrealized Losses | Fair Value | Unrealized Losses | Fair Value | Unrealized Losses |
| Foreign debt | \$179,522 | \$ 1,513 | \$106,871 | \$ 1,528 | \$286,393 | \$ 3,041 |
| Foreign government obligations | — | — | 117,975 | 1,018 | 117,975 | 1,018 |
| U.S. debt | 10,043 | 9 | — | — | 10,043 | 9 |
| Total | \$189,565 | \$ 1,522 | \$224,846 | \$ 2,546 | \$414,411 | \$ 4,068 |

| | As of December 31, 2017 | | | | | |
|--------------------------------|--|-------------------|---|-------------------|------------|-------------------|
| | In Loss Position for Less Than 12 Months | | In Loss Position for 12 Months or Greater | | Total | |
| | Fair Value | Unrealized Losses | Fair Value | Unrealized Losses | Fair Value | Unrealized Losses |
| Foreign debt | \$119,869 | \$ 735 | \$88,919 | \$ 1,053 | \$208,788 | \$ 1,788 |
| Foreign government obligations | 31,467 | 289 | 121,383 | 860 | 152,850 | 1,149 |
| U.S. debt | 73,671 | 75 | — | — | 73,671 | 75 |
| Total | \$225,007 | \$ 1,099 | \$210,302 | \$ 1,913 | \$435,309 | \$ 3,012 |

The contractual maturities of our marketable securities as of September 30, 2018 were as follows (in thousands):

| | Fair Value |
|--------------------------|-------------|
| One year or less | \$1,059,555 |
| One year to two years | 118,724 |
| Two years to three years | 116,770 |
| Total | \$1,295,049 |

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5. Restricted Cash and Investments

Restricted cash and investments consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|---|-----------------------|----------------------|
| Restricted cash | \$ 82,512 | \$ 50,822 |
| Restricted investments | 258,613 | 373,961 |
| Total restricted cash and investments (1) | \$ 341,125 | \$ 424,783 |

(1) There was an additional \$6.8 million and \$11.1 million of restricted cash included within “Prepaid expenses and other current assets” at September 30, 2018 and December 31, 2017, respectively.

At September 30, 2018 and December 31, 2017, our restricted cash consisted of deposits held by various banks to secure certain of our letters of credit and other deposits designated for the construction or operation of systems projects as well as the payment of amounts related to project specific debt financings. See Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for further discussion related to our letters of credit.

At September 30, 2018 and December 31, 2017, 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. 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 2018 as substantially all of our module sales in the prior year were not covered under our solar module collection and recycling program. To ensure that amounts previously funded will be available in the future regardless of 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.; First Solar Malaysia Sdn. Bhd.; and First Solar Manufacturing GmbH are grantors. Trust funds may be disbursed for qualified module collection and recycling costs (including capital and facility related recycling costs), payments to customers for assuming collection and recycling obligations, and reimbursements of any overfunded amounts. Investments in the trust must meet certain investment quality criteria comparable to highly rated government or agency bonds.

During the nine months ended September 30, 2018, we sold certain restricted investments for proceeds of \$101.6 million and realized gains of \$19.5 million on such sales, and withdrew the funds from the trust as a reimbursement of overfunded amounts. See Note 8. “Fair Value Measurements” to our condensed consolidated financial statements for information about the fair value of our restricted investments.

The following tables summarize the unrealized gains and losses related to our restricted investments, by major security type, as of September 30, 2018 and December 31, 2017 (in thousands):

| | As of September 30, 2018 | | | |
|--------------------------------|--------------------------|---------------------|----------------------|---------------|
| | Amortized Cost | Unrealized Gains | Unrealized Losses | Fair Value |
| Foreign government obligations | \$105,661 | \$ 48,950 | \$ — | \$154,611 |
| U.S. government obligations | 116,717 | 229 | 12,944 | 104,002 |
| Total | \$222,378 | \$ 49,179 | \$ 12,944 | \$258,613 |

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| | As of December 31, 2017 | | | |
|--------------------------------|-------------------------|------------------|-------------------|------------|
| | Amortized Cost | Unrealized Gains | Unrealized Losses | Fair Value |
| Foreign government obligations | \$ 127,436 | \$ 62,483 | \$ — | \$ 189,919 |
| U.S. government obligations | 174,624 | 12,944 | 3,526 | 184,042 |
| Total | \$ 302,060 | \$ 75,427 | \$ 3,526 | \$ 373,961 |

As of September 30, 2018, we identified six restricted investments totaling \$100.4 million that had been in a loss position for a period of time greater than 12 months with unrealized losses of \$12.9 million. As of December 31, 2017, we identified six restricted investments totaling \$107.7 million that had been in a loss position for a period of time greater than 12 months with unrealized losses of \$3.5 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 investments to be other-than-temporarily impaired.

As of September 30, 2018, the contractual maturities of our restricted investments were between 11 years and 18 years.

6. Consolidated Balance Sheet Details

Accounts receivable trade, net

Accounts receivable trade, net consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|----------------------------------|--------------------|-------------------|
| Accounts receivable trade, gross | \$ 142,934 | \$ 213,776 |
| Allowance for doubtful accounts | (1,235) | (1,979) |
| Accounts receivable trade, net | \$ 141,699 | \$ 211,797 |

At September 30, 2018 and December 31, 2017, \$11.0 million and \$16.8 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 September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|---|--------------------|-------------------|
| Accounts receivable, unbilled | \$ 410,513 | \$ 172,594 |
| Retainage | 10,621 | 2,014 |
| Accounts receivable, unbilled and retainage | \$ 421,134 | \$ 174,608 |

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Inventories

Inventories consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|--------------------------|----------------------------|------------|
| | 2018 | 2017 |
| Raw materials | \$ 210,219 | \$ 148,968 |
| Work in process | 27,703 | 14,085 |
| Finished goods | 182,382 | 122,594 |
| Inventories | \$ 420,304 | \$ 285,647 |
| Inventories – current | \$ 296,038 | \$ 172,370 |
| Inventories – noncurrent | \$ 124,266 | \$ 113,277 |

Prepaid expenses and other current assets

Prepaid expenses and other current assets consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|---|----------------------------|------------|
| | 2018 | 2017 |
| Prepaid expenses | \$ 72,441 | \$ 41,447 |
| Prepaid income taxes | 38,813 | 31,944 |
| Indirect tax receivables | 27,680 | 26,553 |
| Restricted cash | 6,777 | 11,120 |
| Derivative instruments | 5,494 | 4,303 |
| Other current assets | 44,347 | 42,535 |
| Prepaid expenses and other current assets | \$ 195,552 | \$ 157,902 |

Property, plant and equipment, net

Property, plant and equipment, net consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|--------------------------------------|----------------------------|--------------|
| | 2018 | 2017 |
| Land | \$ 14,431 | \$ 8,181 |
| Buildings and improvements | 481,529 | 424,266 |
| Machinery and equipment | 1,736,460 | 1,059,103 |
| Office equipment and furniture | 171,456 | 157,512 |
| Leasehold improvements | 49,102 | 48,951 |
| Construction in progress | 468,735 | 641,263 |
| Property, plant and equipment, gross | 2,921,713 | 2,339,276 |
| Accumulated depreciation | (1,250,584) | (1,184,739) |
| Property, plant and equipment, net | \$ 1,671,129 | \$ 1,154,537 |

Depreciation of property, plant and equipment was \$29.4 million and \$72.6 million for the three and nine months ended September 30, 2018, respectively, and \$22.4 million and \$71.1 million for the three and nine months ended September 30, 2017, respectively.

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PV solar power systems, net

Photovoltaic (“PV”) solar power systems, consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | | December 31, 2017 | |
|-------------------------------|--------------------|---|-------------------|---|
| PV solar power systems, gross | \$ 341,343 | | \$ 451,045 | |
| Accumulated depreciation | (30,850 |) | (33,937 |) |
| PV solar power systems, net | \$ 310,493 | | \$ 417,108 | |

Depreciation of PV solar power systems was \$3.5 million and \$11.8 million for the three and nine months ended September 30, 2018, respectively, and \$5.1 million and \$14.9 million for the three and nine months ended September 30, 2017, respectively.

Capitalized interest

The cost of constructing project assets includes interest costs incurred during the construction period. The components of interest expense and capitalized interest were as follows during the three and nine months ended September 30, 2018 and 2017 (in thousands):

| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|--|----------------------------------|-----------|---------------------------------|------------|
| | 2018 | 2017 | 2018 | 2017 |
| Interest cost incurred | \$(5,023) | \$(4,775) | \$(19,080) | \$(20,630) |
| Interest cost capitalized – project assets | 1,825 | 626 | 4,635 | 938 |
| Interest expense, net | \$(3,198) | \$(4,149) | \$(14,445) | \$(19,692) |

Project assets

Project assets consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | | December 31, 2017 | |
|--|--------------------|--|-------------------|--|
| Project assets – development costs, including project acquisition and land costs | \$ 246,147 | | \$ 250,590 | |
| Project assets – construction costs | 246,455 | | 252,127 | |
| Project assets | \$ 492,602 | | \$ 502,717 | |
| Project assets – current | \$ 28,978 | | \$ 77,931 | |
| Project assets – noncurrent | \$ 463,624 | | \$ 424,786 | |

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Other assets

Other assets consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|--------------------------|-----------------------|----------------------|
| Deferred rent | \$ 26,359 | \$ 26,760 |
| Indirect tax receivables | 26,720 | 15,253 |
| Notes receivable (1) | 9,306 | 10,495 |
| Income taxes receivable | 4,428 | 4,454 |
| Other | 30,141 | 28,570 |
| Other assets | \$ 96,954 | \$ 85,532 |

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 bears (1) interest at 8.0% per annum, payable quarterly, with the full amount due in December 2026. As of September 30, 2018 and December 31, 2017, the balance outstanding on the credit facility was €7.0 million (\$8.1 million and \$8.4 million, respectively).

Goodwill

Goodwill for the relevant reporting unit consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | December 31, 2017 | Acquisitions (Impairments) | September 30, 2018 |
|-------------------------------|----------------------|-------------------------------|-----------------------|
| Modules | \$ 407,827 | \$ — | \$ 407,827 |
| Accumulated impairment losses | (393,365) | — | (393,365) |
| Goodwill | \$ 14,462 | \$ — | \$ 14,462 |

Intangibles assets, net

Intangibles assets, net primarily include developed technologies from prior business acquisitions, certain power purchase agreements (“PPAs”) acquired after the associated PV solar power systems were placed in service, and our internally-generated intangible assets, substantially all of which are 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. During the nine months ended September 30, 2018, \$17.3 million of in-process research and development related to our prior acquisition of Enki Technology, Inc. was reclassified to developed technology and began amortizing over its useful life of 10 years.

The following tables summarize our intangible assets at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | | |
|---------------------------|--------------------|-----------------------------|---------------|
| | Gross Amount | Accumulated Amortization | Net Amount |
| Developed technology | \$95,964 | \$ (30,819) | \$ 65,145 |
| Power purchase agreements | 6,486 | (567) | 5,919 |
| Patents | 7,068 | (3,547) | 3,521 |
| Intangibles assets, net | \$ 109,518 | \$ (34,933) | \$ 74,585 |

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| | December 31, 2017 | | |
|-------------------------------------|-------------------|--------------------------|------------|
| | Gross Amount | Accumulated Amortization | Net Amount |
| Developed technology | \$76,959 | \$ (24,140) | \$52,819 |
| Power purchase agreements | 6,486 | (324) | 6,162 |
| Patents | 7,068 | (3,077) | 3,991 |
| In-process research and development | 17,255 | — | 17,255 |
| Intangibles assets, net | \$107,768 | \$ (27,541) | \$80,227 |

Amortization expense for our intangible assets was \$2.5 million and \$7.4 million for the three and nine months ended September 30, 2018, respectively, and \$2.1 million and \$6.2 million for the three and nine months ended September 30, 2017, respectively.

Accrued expenses

Accrued expenses consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|---------------------------------------|----------------------------|------------|
| | 2018 | 2017 |
| Accrued project assets | \$ 135,991 | \$ 55,834 |
| Accrued property, plant and equipment | 106,661 | 133,433 |
| Accrued inventory | 54,191 | 24,830 |
| Accrued compensation and benefits | 41,761 | 73,985 |
| Product warranty liability (1) | 33,595 | 28,767 |
| Other | 60,918 | 49,978 |
| Accrued expenses | \$ 433,117 | \$ 366,827 |

(1) See Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for discussion of our “Product warranty liability.”

Other current liabilities

Other current liabilities consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|---------------------------------|----------------------------|-----------|
| | 2018 | 2017 |
| Contingent consideration (1) | \$ 6,372 | \$ 6,162 |
| Derivative instruments | 1,602 | 27,297 |
| Financing liability (2) | — | 5,161 |
| Indemnification liabilities (1) | — | 2,876 |
| Other | 4,032 | 7,261 |
| Other current liabilities | \$ 12,006 | \$ 48,757 |

(1) See Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for discussion of our “Contingent consideration” and “Indemnification liabilities” arrangements.

(2) See Note 9. “Equity Method Investments” to our condensed consolidated financial statements for discussion of the financing liabilities associated with our leaseback of the Maryland Solar project.

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Other liabilities

Other liabilities consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, December 31, | |
|---|----------------------------|------------|
| | 2018 | 2017 |
| Product warranty liability (1) | \$ 191,809 | \$ 195,507 |
| Other taxes payable | 83,789 | 89,724 |
| Transition tax liability (2) | 82,733 | 93,233 |
| Deferred revenue | 47,677 | 63,257 |
| Derivative instruments | 5,962 | 5,932 |
| Contingent consideration (1) | 2,250 | 3,153 |
| Financing liability (3) | — | 29,822 |
| Commercial letter of credit liability (1) | — | 43,396 |
| Other | 43,744 | 44,430 |
| Other liabilities | \$ 457,964 | \$ 568,454 |

(1) See Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for discussion of our “Product warranty liability,” “Contingent consideration,” and “Commercial letter of credit liability” arrangements.

(2) See Note 14. “Income Taxes” to our condensed consolidated financial statements for discussion of the one-time transition tax on accumulated earnings of foreign subsidiaries as a result of Tax Act.

(3) See Note 9. “Equity Method Investments” to our condensed consolidated financial statements for discussion of the financing liabilities associated with our leaseback of the Maryland Solar project.

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7. 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 (loss) 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 8. “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 September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | | |
|---|--------------------|-----------------------------------|---------------------------|
| | Prepaid | Expenses and Other Current Assets | Other Current Liabilities |
| Derivatives designated as hedging instruments: | | | |
| Foreign exchange forward contracts | \$5 | \$ — | \$ — |
| Total derivatives designated as hedging instruments | \$5 | \$ — | \$ — |
| Derivatives not designated as hedging instruments: | | | |
| Foreign exchange forward contracts | \$5,489 | \$ 1,554 | \$ — |
| Interest rate swap contracts | — | 48 | 5,962 |
| Total derivatives not designated as hedging instruments | \$5,489 | \$ 1,602 | \$ 5,962 |
| Total derivative instruments | \$5,494 | \$ 1,602 | \$ 5,962 |
| | December 31, 2017 | | |
| | Prepaid | Expenses and Other Current Assets | Other Current Liabilities |
| Derivatives designated as hedging instruments: | | | |
| Foreign exchange forward contracts | \$252 | \$ 13,240 | \$ — |
| Total derivatives designated as hedging instruments | \$252 | \$ 13,240 | \$ — |
| Derivatives not designated as hedging instruments: | | | |
| Foreign exchange forward contracts | \$4,051 | \$ 14,057 | \$ — |
| Interest rate swap contracts | — | — | 5,932 |
| Total derivatives not designated as hedging instruments | \$4,051 | \$ 14,057 | \$ 5,932 |
| Total derivative instruments | \$4,303 | \$ 27,297 | \$ 5,932 |

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The following table presents the pretax amounts related to derivative instruments designated as cash flow hedges affecting accumulated other comprehensive income or loss and our condensed consolidated statements of operations for the nine months ended September 30, 2018 and 2017 (in thousands):

| | Foreign Exchange Forward Contracts |
|--|---|
| Balance in accumulated other comprehensive (loss) income at December 31, 2017 | \$(1,723) |
| Amounts recognized in other comprehensive (loss) income | (3,884) |
| Amounts reclassified to earnings impacting: | |
| Net sales | 1,698 |
| Cost of sales | 212 |
| Foreign currency loss, net | 5,448 |
| Other (loss) income, net | (546) |
| Balance in accumulated other comprehensive (loss) income at September 30, 2018 | \$ 1,205 |
| Balance in accumulated other comprehensive (loss) income at December 31, 2016 | \$ 2,556 |
| Amounts recognized in other comprehensive (loss) income | (3,993) |
| Amounts reclassified to earnings impacting: | |
| Other (loss) income, net | 189 |
| Balance in accumulated other comprehensive (loss) income at September 30, 2017 | \$(1,248) |

We recorded no amounts related to ineffective portions of our derivative instruments designated as cash flow hedges during the three and nine months ended September 30, 2018 and 2017. During the three and nine months ended September 30, 2018, we recognized unrealized gains of \$1.0 million and \$0.5 million, respectively, related to amounts excluded from effectiveness testing for our foreign exchange forward contracts designated as cash flow hedges within “Other (loss) income, net.” During the three and nine months ended September 30, 2017, we recognized unrealized gains of \$0.7 million and \$0.5 million, respectively, related to amounts excluded from effectiveness testing for our foreign exchange forward contracts designated as cash flow hedges within “Other (loss) income, net.”

The following table presents gains and losses related to derivative instruments not designated as hedges affecting our condensed consolidated statements of operations for the three and nine months ended September 30, 2018 and 2017 (in thousands):

| | | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|------------------------------------|----------------------------|--|---------|------------------------------------|------------|
| | Income Statement Line Item | 2018 | 2017 | 2018 | 2017 |
| Foreign exchange forward contracts | Foreign currency loss, net | \$7,098 | \$6,934 | \$13,477 | \$(16,724) |
| Interest rate swap contracts | Interest expense, net | 883 | 167 | (1,284) | (5,515) |

Interest Rate Risk

We use 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.

In August 2018, FS Japan Project 14 GK, our indirect wholly-owned subsidiary and project company, entered into an interest rate swap contract to hedge a portion of the floating rate senior loan facility under the project’s Mashiko Credit Agreement (as defined in Note 10. “Debt” to our condensed consolidated financial statements). Such swap had an initial notional value of ¥5.5 billion and entitled the project to receive a six-month floating Tokyo Interbank Offered Rate

("TIBOR") interest rate while requiring the project to pay a fixed rate of 0.820%. The notional amount of the interest rate swap contract is scheduled to proportionately adjust with the scheduled draws and principal payments on the

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underlying hedged debt. As of September 30, 2018, the notional value of the interest rate swap contract was ¥5.8 billion (\$51.5 million). This derivative instrument does not qualify for accounting as a cash flow hedge in accordance with Accounting Standards Codification (“ASC 815”) due to our expectation to sell the associated project before the maturity of its project specific debt financing and corresponding swap contract. Accordingly, the changes in the fair value of the swap contract are recorded directly to “Interest expense, net.”

In May 2018, FS NSW Project No 1 Finco Pty Ltd, our indirectly wholly-owned subsidiary and project financing company, entered into various interest rate swap contracts to hedge the floating rate construction loan facility and a portion of the floating rate term loan facility under the associated project’s Beryl Credit Facility (as defined in Note 10. “Debt” to our condensed consolidated financial statements). The swaps had an initial aggregate notional value of AUD 42.4 million and, depending on the loan facility being hedged, entitled the project to receive one-month or three-month floating Bank Bill Swap Bid (“BBSY”) interest rates while requiring the project to pay fixed rates of 2.0615% or 3.2020%. The notional amounts of the interest rate swap contracts are scheduled to proportionately adjust with the scheduled draws and principal payments on the underlying hedged debt. As of September 30, 2018, the aggregate notional value of the interest rate swap contracts was AUD 64.8 million (\$46.8 million). These derivative instruments do not qualify for accounting as cash flow hedges in accordance with ASC 815 due to our expectation to sell the associated project before the maturity of its project specific debt financing and corresponding swap contracts. Accordingly, the changes in the fair value of the swap contracts are recorded directly to “Interest expense, net.”

In March 2017, Manildra Finco Pty Ltd, our indirect wholly-owned subsidiary and project financing company, entered into various interest rate swap contracts to hedge a portion of the floating rate construction loan facility under the associated project’s Manildra Credit Facility (as defined in Note 10. “Debt” to our condensed consolidated financial statements). Such swaps had an initial aggregate notional value of AUD 12.8 million and entitled the project to receive a one-month or three-month floating BBSY interest rate while requiring the project to pay a fixed rate of 3.13%. The notional amounts of the interest rate swap contracts are scheduled to proportionately adjust with the scheduled draws and principal payments on the underlying hedged debt. In September 2018, we completed the sale of our Manildra project, and its interest rate swap contracts and outstanding construction loan balance were assumed by the customer. As of December 31, 2017, the aggregate notional value of the interest rate swap contracts was AUD 68.1 million (\$53.2 million). These derivative instruments did not qualify for accounting as cash flow hedges in accordance with ASC 815 due to our expectation to sell the associated project before the maturity of its project specific debt financing and corresponding swap contracts. Accordingly, the changes in the fair value of the swap contracts were recorded directly to “Interest expense, net.”

In January 2017, FS Japan Project 12 GK, our indirect wholly-owned subsidiary and project company, entered into an interest rate swap contract to hedge a portion of the floating rate senior loan facility under the project’s Ishikawa Credit Agreement (as defined in Note 10. “Debt” to our condensed consolidated financial statements). Such swap had an initial notional value of ¥5.7 billion and entitled the project to receive a six-month floating TIBOR plus 0.75% interest rate while requiring the project to pay a fixed rate of 1.482%. The notional amount of the interest rate swap contract is scheduled to proportionately adjust with the scheduled draws and principal payments on the underlying hedged debt. As of September 30, 2018 and December 31, 2017, the notional value of the interest rate swap contract was ¥16.0 billion (\$140.7 million) and ¥12.8 billion (\$113.4 million), respectively. This derivative instrument does not qualify for accounting as a cash flow hedge in accordance with ASC 815 due to our expectation to sell the associated project before the maturity of its project specific debt financing and corresponding swap contract. Accordingly, the changes in the fair value of the swap contract are recorded directly to “Interest expense, net.”

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Foreign Currency 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 September 30, 2018 and December 31, 2017, these foreign exchange forward contracts hedged our forecasted cash flows for periods up to nine months. 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 (loss) 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 September 30, 2018 and December 31, 2017. As of September 30, 2018 and December 31, 2017, 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):

| | September 30, 2018 | |
|-------------------|--------------------|----------------|
| Currency | Notional Amount | USD Equivalent |
| Australian dollar | AUD 8.8 | \$6.4 |
| | December 31, 2017 | |
| Currency | Notional Amount | USD Equivalent |
| Indian rupee | INR 4,730.0 | \$74.1 |
| Euro | €15.7 | \$18.8 |

In the following 12 months, we expect to reclassify to earnings \$1.2 million of net unrealized gains related to these forward contracts that are included in "Accumulated other comprehensive (loss) income" at September 30, 2018 as we realize the earnings effects 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.

Transaction Exposure and Economic Hedging

Many of our subsidiaries have assets and liabilities (primarily cash, receivables, marketable securities, deferred taxes, payables, accrued expenses, 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 also 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. Accordingly, we recognize gains or losses from the fluctuations in foreign exchange rates and the fair value of these derivative contracts in "Foreign currency loss, net" on our condensed consolidated statements of operations. These contracts mature at various dates within the next three months.

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As of September 30, 2018 and December 31, 2017, 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):

September 30, 2018

| Transaction | Currency | Notional Amount | USD Equivalent |
|-------------|--------------------|-----------------|----------------|
| Purchase | Australian dollar | AUD 20.5 | \$14.8 |
| Sell | Australian dollar | AUD 13.1 | \$9.5 |
| Purchase | Brazilian real | BRL 8.5 | \$2.1 |
| Sell | Brazilian real | BRL 3.5 | \$0.9 |
| Sell | Canadian dollar | CAD 2.9 | \$2.2 |
| Sell | Chilean peso | CLP 2,101.0 | \$3.2 |
| Purchase | Euro | €122.3 | \$141.6 |
| Sell | Euro | €214.3 | \$248.2 |
| Sell | Indian rupee | INR 1,111.3 | \$15.3 |
| Purchase | Japanese yen | ¥3,580.4 | \$31.5 |
| Sell | Japanese yen | ¥24,343.4 | \$214.5 |
| Purchase | Malaysian ringgit | MYR 39.6 | \$9.6 |
| Sell | Malaysian ringgit | MYR 140.9 | \$34.0 |
| Sell | Mexican peso | MXN 37.3 | \$2.0 |
| Purchase | Singapore dollar | SGD 3.8 | \$2.8 |
| Sell | South African rand | ZAR 37.8 | \$2.7 |

December 31, 2017

| Transaction | Currency | Notional Amount | USD Equivalent |
|-------------|--------------------|-----------------|----------------|
| Purchase | Australian dollar | AUD 12.7 | \$9.9 |
| Sell | Australian dollar | AUD 56.8 | \$44.4 |
| Sell | Canadian dollar | CAD 1.7 | \$1.4 |
| Sell | Chilean peso | CLP 10,180.9 | \$16.6 |
| Purchase | Chinese yuan | CNY 13.8 | \$2.1 |
| Purchase | Euro | €151.4 | \$181.6 |
| Sell | Euro | €193.2 | \$231.7 |
| Purchase | Indian rupee | INR 645.7 | \$10.1 |
| Sell | Indian rupee | INR 8,376.0 | \$131.1 |
| Sell | Japanese yen | ¥23,922.2 | \$212.6 |
| Purchase | Malaysian ringgit | MYR 31.0 | \$7.7 |
| Sell | Malaysian ringgit | MYR 336.5 | \$83.1 |
| Sell | Singapore dollar | SGD 3.1 | \$2.3 |
| Purchase | South African rand | ZAR 12.5 | \$1.0 |
| Sell | South African rand | ZAR 61.1 | \$5.0 |

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8. 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 September 30, 2018 and December 31, 2017, 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 September 30, 2018 and December 31, 2017, our marketable securities consisted of foreign debt, foreign government obligations, U.S. 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 standing in these fair value measurements.

Derivative Assets and Liabilities. At September 30, 2018 and December 31, 2017, our derivative assets and liabilities consisted of foreign exchange forward contracts involving major currencies and interest rate swap contracts involving major interest rates. Since our derivative assets and liabilities are not traded on an exchange, we value them using standard industry valuation models. As 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 September 30, 2018 and December 31, 2017, the fair value measurements of our assets and liabilities measured on a recurring basis were as follows (in thousands):

| | 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) |
|--------------------------------|--|-----------|---------|----|---|---|
| | September 30, 2018 | | | | | |
| Assets: | | | | | | |
| Cash equivalents: | | | | | | |
| Money market funds | \$ 200,613 | \$200,613 | \$ — | \$ | | — |
| Marketable securities: | | | | | | |
| Foreign debt | 314,213 | — | 314,213 | — | | |
| Foreign government obligations | 117,975 | — | 117,975 | — | | |
| U.S. debt | 25,047 | — | 25,047 | — | | |
| Time deposits | 837,814 | 837,814 | — | — | | |
| Restricted investments | 258,613 | — | 258,613 | — | | |

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| | | | | | |
|------------------------|--------------|--------------|------------|----|---|
| Derivative assets | 5,494 | — | 5,494 | — | |
| Total assets | \$ 1,759,769 | \$ 1,038,427 | \$ 721,342 | \$ | — |
| Liabilities: | | | | | |
| Derivative liabilities | \$ 7,564 | \$— | \$ 7,564 | \$ | — |

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| | December 31, 2017 | 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 mutual funds | \$ 125,585 | \$125,585 | \$ — | \$ — |
| Marketable securities: | | | | |
| Foreign debt | 238,858 | — | 238,858 | — |
| Foreign government obligations | 152,850 | — | 152,850 | — |
| U.S. debt | 73,671 | — | 73,671 | — |
| Time deposits | 255,000 | 255,000 | — | — |
| Restricted investments | 373,961 | — | 373,961 | — |
| Derivative assets | 4,303 | — | 4,303 | — |
| Total assets | \$ 1,224,228 | \$380,585 | \$ 843,643 | \$ — |
| Liabilities: | | | | |
| Derivative liabilities | \$ 33,229 | \$— | \$ 33,229 | \$ — |

Fair Value of Financial Instruments

At September 30, 2018 and December 31, 2017, the carrying values and fair values of our financial instruments not measured at fair value were as follows (in thousands):

| | September 30, 2018 | | December 31, 2017 | |
|--|--------------------|---------------|-------------------|---------------|
| | Carrying Value | Fair Value | Carrying Value | Fair Value |
| Assets: | | | | |
| Notes receivable – noncurrent | \$9,306 | \$9,264 | \$10,495 | \$10,516 |
| Notes receivable, affiliate – current | 21,308 | 23,638 | 20,411 | 23,317 |
| Note receivable, affiliate – noncurrent | — | — | 48,370 | 47,441 |
| Liabilities: | | | | |
| Long-term debt, including current maturities (1) | \$478,101 | \$491,243 | \$406,388 | \$416,486 |

(1) Excludes capital lease obligations and unamortized discounts and issuance costs.

The carrying values in our condensed consolidated balance sheets of our trade accounts receivable, unbilled accounts receivable and retainage, 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. The fair value measurements for our notes receivable and long-term debt are considered Level 2 measurements under the fair value hierarchy.

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

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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 advance payments, parent guarantees, bank guarantees, surety bonds, or commercial letters of credit.

9. Equity Method Investments

From time to time, we may enter into investments or other strategic arrangements to expedite our penetration of certain markets and establish relationships with potential customers. We may also enter into strategic arrangements with customers or other entities to maximize the value of particular projects. Some of these arrangements may 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. The following table summarizes our equity method investments as of September 30, 2018 and December 31, 2017 (in thousands):

| | September 30, 2018 | December 31, 2017 |
|--------------------------------|-----------------------|----------------------|
| 8point3 Operating Company, LLC | \$ — | \$ 199,477 |
| Clean Energy Collective, LLC | — | 6,521 |
| Other | 3,192 | 11,232 |
| Equity method investments | \$ 3,192 | \$ 217,230 |

8point3 Operating Company, LLC

In June 2015, 8point3 Energy Partners LP (the "Partnership"), a limited partnership formed by First Solar and SunPower Corporation ("SunPower," and together with First Solar, 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 interests in 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. After the formation of the Partnership, the Sponsors, from time to time, sold interests in solar projects to the Partnership, which owns and operates such portfolio of solar energy generation projects.

In February 2018, we entered into an agreement with CD Clean Energy and Infrastructure V JV, LLC, an equity fund managed by Capital Dynamics, Inc. ("Capital Dynamics") and certain other co-investors and other parties, pursuant to which such parties agreed, subject to the satisfaction of certain conditions, to acquire our interests in the Partnership and its subsidiaries. In June 2018, we completed the sale of such interests and received net proceeds of \$240.0 million after the payment of fees, expenses, and other amounts.

We accounted for our interest in OpCo, a subsidiary of the Partnership, under the equity method of accounting as we were able to exercise significant influence over the Partnership due to our representation on the board of directors of its general partner and certain of our associates serving as officers of its general partner. During the nine months ended September 30, 2018, we recognized equity in earnings, net of tax, of \$39.7 million from our investment in OpCo, including a gain of \$40.3 million, net of tax, for the sale of our interests in the Partnership and its subsidiaries. During the three and nine months ended September 30, 2017, we recognized equity in earnings, net of tax, of \$6.3 million and \$10.1 million, respectively, from our investment in OpCo. During the nine months ended September 30, 2018 and 2017, we received distributions from OpCo of \$12.4 million and \$17.0 million, respectively.

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 certain continuing involvement with the project, we accounted for the leaseback agreement as a financing transaction until the sale of our interests in the Partnership and its subsidiaries in June 2018. Following the sale of such

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interests, the Maryland Solar project qualified for sale-leaseback accounting, and we recognized net revenue of \$32.0 million from the sale of the project. As of December 31, 2017, the financing obligation associated with the leaseback was \$35.0 million.

In March 2018, FirstEnergy Solutions Corp. (“FirstEnergy”), the off-taker for the Maryland Solar PPA, filed for chapter 11 bankruptcy protection, and in April 2018, FirstEnergy filed a motion for entry of an order authorizing FirstEnergy and its affiliates to reject certain energy contracts, including the Maryland Solar PPA. In August 2018, the bankruptcy court granted the motion. As a result, we expect to sell energy generated by the Maryland Solar project on an open contract basis during the remaining lease term.

In December 2016, we completed the sale of our remaining 34% interest in the 300 MW Desert Stateline project located in San Bernardino County, California to OpCo and received a \$50.0 million promissory note as part of the consideration for the sale. In June 2018, the outstanding balance on the promissory note of \$47.8 million was repaid in conjunction with the sale of our interests in the Partnership and its subsidiaries. As of December 31, 2017, the balance outstanding on the promissory note was \$48.4 million.

We provide operations and maintenance (“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; Kingbird Solar B, LLC; and Desert Stateline LLC. During the nine months ended September 30, 2018, we recognized revenue of \$5.6 million for such O&M services prior to the sale of our interests in the Partnership and its subsidiaries. During the three and nine months ended September 30, 2017, we recognized revenue of \$2.9 million and \$8.3 million, respectively, for such O&M services.

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 to purchase additional ownership interests in CEC.

In addition to our equity investment, we also entered into a term loan agreement and a convertible loan agreement with CEC in November 2014 and February 2016, respectively. In August 2017, we amended the terms of the warrant and loan agreements to (i) fix the exercise price of the warrant at our initial investment price per unit, (ii) extend the maturity of the loans to November 2018, (iii) allow for the capitalization of certain accrued and future interest on the term loan, (iv) require mandatory prepayments on the term loan under certain conditions, and (v) fix the interest rate of the term loan at 16% per annum, payable semiannually. The interest rate of the convertible loan remained at 10% per annum, payable at maturity. As of September 30, 2018 and December 31, 2017, the balance outstanding on the term loan was \$16.4 million and \$15.8 million, respectively, and the balance outstanding on the convertible loan was \$4.6 million.

During the three months ended September 30, 2018, the board of managers of CEC evaluated restructuring proposals to address certain liquidity issues that were adversely affecting its operations. These proposals provided for the subsequent repayment of CEC’s outstanding debt, including our loan agreements, but indicated that a decrease in the value of our investment in CEC may have occurred that was other than temporary. As a result, we recorded an impairment loss of \$3.5 million, net of tax, for our remaining investment in CEC. In addition, we recorded an impairment loss of \$1.8 million in “Other (loss) income, net” for our warrant to purchase additional ownership interests in CEC.

CEC is considered a variable interest entity, and our 26% 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 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

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basis difference resulting from the cost of our investment differing from our proportionate share of CEC's equity. During the three and nine months ended September 30, 2018, we recognized losses, net of tax, of \$3.1 million and \$4.3 million, respectively, from our investment in CEC, including the impairment of our remaining investment described above. During the three and nine months ended September 30, 2017, we recognized losses, net of tax, of \$0.5 million and \$2.7 million, respectively, from our investment in CEC.

10. Debt

Our long-term debt consisted of the following at September 30, 2018 and December 31, 2017 (in thousands):

| Loan Agreement | Currency | Balance (USD) | |
|--|----------|--------------------|-------------------|
| | | September 30, 2018 | December 31, 2017 |
| Revolving Credit Facility | USD | \$— | \$— |
| Luz del Norte Credit Facilities | USD | 188,053 | 185,675 |
| Ishikawa Credit Agreement | JPY | 153,453 | 121,446 |
| Japan Credit Facility | JPY | — | 10,710 |
| Tochigi Credit Facility | JPY | 185 | — |
| Mashiko Credit Agreement | JPY | 56,522 | — |
| Marikal Credit Facility | INR | — | 7,384 |
| Hindupur Credit Facility | INR | — | 18,722 |
| Anantapur Credit Facility | INR | 15,561 | — |
| Tungabhadra Credit Facility | INR | 13,467 | — |
| Manildra Credit Facility | AUD | — | 62,451 |
| Beryl Credit Facility | AUD | 50,860 | — |
| Capital lease obligations | Various | 84 | 156 |
| Long-term debt principal | | 478,185 | 406,544 |
| Less: unamortized discounts and issuance costs | | (12,082) | (13,004) |
| Total long-term debt | | 466,103 | 393,540 |
| Less: current portion | | (2,618) | (13,075) |
| Noncurrent portion | | \$463,485 | \$ 380,465 |

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 borrowing capacity of \$500.0 million, which we may increase to \$750.0 million, subject to certain conditions. Borrowings under the credit facility bear interest at (i) London Interbank Offered Rate ("LIBOR"), adjusted for Eurocurrency reserve requirements, plus a margin of 2.00% or (ii) a base rate as defined in the credit agreement plus a margin of 1.00% depending on the type of borrowing requested. These margins are also subject to adjustment depending on our consolidated leverage ratio. We had no borrowings under our Revolving Credit Facility as of September 30, 2018 and December 31, 2017 and had issued \$63.4 million and \$57.5 million, respectively, of letters of credit using availability under the facility. 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.

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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 0.30% per annum, based on the average daily unused commitments under the facility, which 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%. Our Revolving Credit Facility matures in July 2022.

Luz del Norte Credit Facilities

In August 2014, Parque Solar Fotovoltaico Luz del Norte SpA (“Luz del Norte”), our indirect wholly-owned subsidiary and project company, 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 for the design, development, financing, construction, testing, commissioning, operation, and maintenance of a 141 MW PV solar power plant located near Copiapó, Chile. At the same time, Luz del Norte also entered into a Chilean peso facility (the “VAT facility” and together with the OPIC and IFC loans, the “Luz del Norte Credit Facilities”) with Banco de Crédito e Inversiones to fund Chilean value added tax associated with the construction of the Luz del Norte project. In March 2017, we repaid the remaining balance on the VAT facility.

In March 2017, we amended the terms of the OPIC and IFC credit facilities. Such amendments (i) allowed for the capitalization of accrued and unpaid interest through March 15, 2017, along with the capitalization of certain future interest payments as variable rate loans under the credit facilities, (ii) allowed for the conversion of certain fixed rate loans to variable rate loans upon scheduled repayment, (iii) extended the maturity of the OPIC and IFC loans until June 2037, and (iv) canceled the remaining borrowing capacity under the OPIC and IFC credit facilities with the exception of the capitalization of certain future interest payments. As of September 30, 2018 and December 31, 2017, the balance outstanding on the OPIC loans was \$140.9 million and \$139.0 million, respectively. As of September 30, 2018 and December 31, 2017, the balance outstanding on the IFC loans was \$47.2 million and \$46.6 million, respectively. The OPIC and IFC loans are secured by liens over all of Luz del Norte’s assets and by a pledge of all of the equity interests in the entity.

Ishikawa Credit Agreement

In December 2016, FS Japan Project 12 GK (“Ishikawa”), our indirect wholly-owned subsidiary and project company, entered into a credit agreement (the “Ishikawa Credit Agreement”) with Mizuho Bank, Ltd. for aggregate borrowings up to ¥27.3 billion (\$240.6 million) for the development and construction of a 59 MW PV solar power plant located in Ishikawa, Japan. The credit agreement consists of a ¥24.0 billion (\$211.5 million) senior loan facility, a ¥2.1 billion (\$18.5 million) consumption tax facility, and a ¥1.2 billion (\$10.6 million) letter of credit facility. The senior loan facility matures in October 2036, and the consumption tax facility matures in April 2020. The credit agreement is secured by pledges of Ishikawa’s assets, accounts, material project documents, and by the equity interests in the entity. As of September 30, 2018 and December 31, 2017, the balance outstanding on the credit agreement was \$153.5 million and \$121.4 million, respectively.

Japan Credit Facility

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 (\$35.2 million) for the development and construction of utility-scale PV solar power plants in Japan (the “Japan Credit Facility”). In September 2018, First Solar Japan GK renewed the facility for an additional one-year period until September 2019. The facility is guaranteed by First Solar, Inc. and secured by pledges of certain projects’ cash accounts and other rights in the projects. As of September 30, 2018 and December 31, 2017, the balance outstanding on the facility was zero and \$10.7 million, respectively.

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Tochigi Credit Facility

In June 2017, First Solar Japan GK, our wholly-owned subsidiary, entered into a term loan facility with Mizuho Bank, Ltd. for borrowings up to ¥7.0 billion (\$61.7 million) for the development of utility-scale PV solar power plants in Japan (the “Tochigi Credit Facility”). The majority of the facility is available to be drawn by or before November 2018, and the aggregate term loan facility matures in March 2021. The facility is guaranteed by First Solar, Inc. and secured by pledges of certain of First Solar Japan GK’s accounts. As of September 30, 2018 and December 31, 2017, the balance outstanding on the term loan facility was \$0.2 million and zero, respectively.

Mashiko Credit Agreement

In March 2018, FS Japan Project 14 GK (“Mashiko”), our indirect wholly-owned subsidiary and project company, entered into a credit agreement (the “Mashiko Credit Agreement”) with Mizuho Bank, Ltd. for aggregate borrowings up to ¥9.2 billion (\$81.1 million) for the development and construction of a 19 MW PV solar power plant located in Tochigi, Japan. The credit agreement consists of a ¥8.1 billion (\$71.4 million) senior loan facility, a ¥0.7 billion (\$6.2 million) consumption tax facility, and a ¥0.4 billion (\$3.5 million) letter of credit facility. The senior loan facility matures in March 2037, and the consumption tax facility matures in September 2020. The credit agreement is secured by pledges of Mashiko’s assets, accounts, material project documents, and ownership interests. As of September 30, 2018, the balance outstanding on the credit agreement was \$56.5 million.

Marikal Credit Facility

In March 2015, FS India Devco Private Limited (previously known as Marikal Solar Parks Private Limited), our indirect wholly-owned subsidiary and project company, entered into a term loan facility (the “Marikal Credit Facility”) with Axis Bank as administrative agent for aggregate borrowings up to INR 0.5 billion (\$7.5 million) for the development and construction of a 10 MW PV solar power plant located in Telangana, India. In May 2018, we repaid the remaining \$6.8 million principal balance on the term loan facility. As of December 31, 2017, the balance outstanding on the term loan facility was \$7.4 million.

Hindupur Credit Facility

In November 2016, Hindupur Solar Parks Private Limited, our indirect wholly-owned subsidiary and project company, entered into a term loan facility (the “Hindupur Credit Facility”) with Yes Bank Limited for borrowings up to INR 4.3 billion (\$59.3 million) for costs related to an 80 MW portfolio of PV solar power plants located in Andhra Pradesh, India. The term loan facility had a letter of credit sub-limit of INR 3.2 billion (\$44.1 million), which was used for project related costs. In March 2018, we completed the sale of our Hindupur projects, and the outstanding balance of the Hindupur Credit Facility of \$17.0 million was assumed by the customer. As of December 31, 2017, we had issued INR 2.9 billion (\$40.0 million) of letters of credit under the term loan facility, and the balance outstanding on the term loan facility was \$18.7 million.

Anantapur Credit Facility

In March 2018, Anantapur Solar Parks Private Limited, our indirect wholly-owned subsidiary and project company, entered into a term loan facility (the “Anantapur Credit Facility”) with J.P. Morgan Securities India Private Limited for borrowings up to INR 1.2 billion (\$16.6 million) for costs related to a 20 MW PV solar power plant located in Karnataka, India. The term loan facility matures in February 2021 and is secured by a letter of credit issued by JPMorgan Chase Bank, N.A., Singapore, in favor of the lender. Such letter of credit is secured by a cash deposit placed by First Solar FE Holdings Pte. Ltd. As of September 30, 2018, the balance outstanding on the term loan facility was \$15.6 million.

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Tungabhadra Credit Facility

In March 2018, Tungabhadra Solar Parks Private Limited, our indirect wholly-owned subsidiary and project company, entered into a term loan facility (the “Tungabhadra Credit Facility”) with J.P. Morgan Securities India Private Limited for borrowings up to INR 1.0 billion (\$13.8 million) for costs related to a 20 MW PV solar power plant located in Karnataka, India. The term loan facility matures in February 2021 and is secured by a letter of credit issued by JPMorgan Chase Bank, N.A., Singapore, in favor of the lender. Such letter of credit is secured by a cash deposit placed by First Solar FE Holdings Pte. Ltd. As of September 30, 2018, the balance outstanding on the term loan facility was \$13.5 million.

Manildra Credit Facility

In March 2017, Manildra Finco Pty Ltd, our indirect wholly-owned subsidiary and project financing company, entered into a term loan facility (the “Manildra Credit Facility”) with Société Générale S.A. and The Bank of Tokyo-Mitsubishi UFJ, Ltd. for aggregate borrowings up to AUD 81.7 million (\$59.0 million) for costs related to a 49 MW PV solar power plant located in New South Wales, Australia. The credit facility consisted of an AUD 75.7 million (\$54.7 million) construction loan facility and an additional AUD 6.0 million (\$4.3 million) goods and service tax facility (or “GST facility”) to fund certain taxes associated with the construction of the associated project. In September 2018, we completed the sale of our Manildra project, and the outstanding balance of the Manildra Credit Facility of \$56.1 million was assumed by the customer. As of December 31, 2017, the balance outstanding on the term loan facility was \$62.5 million.

Beryl Credit Facility

In May 2018, FS NSW Project No 1 Finco Pty Ltd, our wholly-owned subsidiary and project financing company, entered into a term loan facility (the “Beryl Credit Facility”) with MUFG Bank, Ltd.; Société Générale, Hong Kong Branch; and Mizuho Bank, Ltd. for aggregate borrowings up to AUD 146.4 million (\$105.7 million) for the development and construction of an 87 MW PV solar power plant located in New South Wales, Australia. The credit facility consists of an AUD 135.4 million (\$97.8 million) construction loan facility, an AUD 7.0 million (\$5.1 million) GST facility to fund certain taxes associated with the construction of the project, and an AUD 4.0 million (\$2.9 million) letter of credit facility. Upon completion of the project’s construction, the construction loan facility will convert to a term loan facility. The term loan facility matures in May 2023, and the GST facility matures in May 2020. The credit facility is secured by pledges of the borrower’s assets, accounts, material project documents, and by the equity interests in the entity. As of September 30, 2018, the balance outstanding on the term loan facility was \$50.9 million.

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Variable Interest Rate Risk

Certain of our long-term debt agreements bear interest at prime, LIBOR, TIBOR, BBSY, or equivalent variable rates. An increase in these variable rates would increase the cost of borrowing under our Revolving Credit Facility and certain project specific debt financings. Our long-term debt borrowing rates as of September 30, 2018 were as follows:

| | |
|-------------------------------------|--|
| Loan Agreement | September 30, 2018 |
| Revolving Credit Facility | 4.26% |
| Luz del Norte Credit Facilities (1) | Fixed rate loans at bank rate plus 3.50% |
| | Variable rate loans at 91-Day U.S. Treasury Bill Yield or LIBOR plus 3.50% |
| Ishikawa Credit Agreement | Senior loan facility at 6-month TIBOR plus 0.75% (2) |
| | Consumption tax facility at 3-month TIBOR plus 0.5% |
| Japan Credit Facility | 1-month TIBOR plus 0.5% |
| Tochigi Credit Facility | 3-month TIBOR plus 1.0% |
| Mashiko Credit Agreement | Senior loan facility at 6-month TIBOR plus 0.70% (2) |
| | Consumption tax facility at 3-month TIBOR plus 0.5% |
| Anantapur Credit Facility | INR overnight indexed swap rate plus 1.5% |
| Tungabhadra Credit Facility | INR overnight indexed swap rate plus 1.5% |
| Beryl Credit Facility | Construction loan facility at 1-month BBSY plus 1.55% (2) |
| | GST facility at 1-month BBSY plus 1.00% |
| Capital lease obligations | Various |

(1) Outstanding balance comprised of \$162.0 million of fixed rate loans and \$26.1 million of variable rate loans as of September 30, 2018.

(2) We have entered into interest rate swap contracts to hedge portions of these variable rates. See Note 7. “Derivative Financial Instruments” to our condensed consolidated financial statements for additional information.

Future Principal Payments

At September 30, 2018, the future principal payments on our long-term debt, excluding payments related to capital leases, were due as follows (in thousands):

| | Total Debt |
|--|---------------|
| Remainder of 2018 | \$— |
| 2019 | 6,342 |
| 2020 | 33,020 |
| 2021 | 41,462 |
| 2022 | 14,023 |
| Thereafter | 383,254 |
| Total long-term debt future principal payments | \$478,101 |

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11. 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 amended and restated Revolving Credit Facility provides us with a sub-limit of \$400.0 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 September 30, 2018, we had \$63.4 million in letters of credit issued under our Revolving Credit Facility, leaving \$336.6 million of availability for the issuance of additional letters of credit. As of September 30, 2018, we also had \$0.6 million of bank guarantees and letters of credit under separate agreements that were posted by certain of our foreign subsidiaries and \$288.4 million of letters of credit issued under three bilateral facilities, of which \$32.4 million was secured with cash. We also had \$159.5 million of surety bonds outstanding, leaving \$556.9 million of available bonding capacity under our surety lines as of September 30, 2018. The majority of these letters of credit, bank guarantees, and surety bonds supported our systems projects.

In addition to the commercial commitments noted above, we also issued certain commercial letters of credit, also known as letters of undertaking, under our Hindupur Credit Facility as discussed in Note 10. "Debt" to our condensed consolidated financial statements. Such commercial letters of credit represented conditional commitments on the part of the issuing financial institution to provide payment on amounts drawn in accordance with the terms of the individual documents. As part of the financing of the associated systems projects, we presented these commercial letters of credit to other financial institutions, whereby we received immediate funding, and these other financial institutions agreed to settle such letters at a future date. At the time of settlement, the balance of the commercial letters of credit would be included in the balance outstanding of the credit facility. In the periods between the receipt of cash and the subsequent settlement of the commercial letters of credit, we accrued interest on the balance or otherwise accreted any discounted value of the letters to their face value and recorded such amounts as "Interest expense, net" on our condensed consolidated statements of operations. In March 2018, we completed the sale of our Hindupur projects, and the outstanding letters of credit of \$43.3 million under the Hindupur Credit Facility were assumed by the customer. As of December 31, 2017, we accrued \$43.4 million for contingent obligations associated with such commercial letters of credit. These amounts were classified as "Other liabilities" on our condensed consolidated balance sheets to align with the timing in which we expected to settle such obligations as payments under the associated credit facility.

Supply Agreements

In April 2018, we entered into a supply agreement for the purchase of substrate glass for our PV solar modules. Under the terms of the agreement, we expect to pay approximately \$2.4 billion over the supply period, which ends in December 2027. The agreement includes an aggregate termination penalty up to \$350 million, of which \$250 million declines on a straight-line basis over a period of five years beginning in July 2020 and \$100 million declines on a straight-line basis over a period of eight years beginning in October 2019.

In March 2018, we entered into a 10-year supply agreement for the purchase of cover glass for our PV solar modules. Under the terms of the agreement, we expect to pay approximately \$500 million over the 10-year supply period, which is scheduled to begin by January 2020. The agreement includes a termination penalty of up to \$80 million, which declines annually on a straight-line basis over a period of six years.

Product Warranties

When we recognize revenue for module or system 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 solar modules under warranty installed at customer locations, our historical experience with warranty claims, our monitoring of field installation sites, our internal testing and the expected future performance of our solar modules and balance of systems (“BoS”) parts, and our estimated replacement costs. From time to time,

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we have taken remediation actions with respect to affected modules beyond our limited warranties and 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 may be material to our condensed consolidated statements of operations if we commit to any such remediation actions.

Product warranty activities during the three and nine months ended September 30, 2018 and 2017 were as follows (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|---|--------------------|-----------|-------------------|-----------|
| | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 |
| Product warranty liability, beginning of period | \$225,813 | \$239,701 | \$224,274 | \$252,408 |
| Accruals for new warranties issued | 2,954 | 8,048 | 8,422 | 18,334 |
| Settlements | (2,423) | (2,867) | (7,504) | (6,783) |
| Changes in estimate of product warranty liability | (940) | (1,188) | 212 | (20,265) |
| Product warranty liability, end of period | \$225,404 | \$243,694 | \$225,404 | \$243,694 |
| Current portion of warranty liability | \$33,595 | \$31,016 | \$33,595 | \$31,016 |
| Noncurrent portion of warranty liability | \$191,809 | \$212,678 | \$191,809 | \$212,678 |

We estimate our limited product warranty liability for power output and defects in materials and workmanship under normal use and service conditions based on warranty return rates of approximately 1% to 3% for modules covered under warranty, depending on the series of module technology. As of September 30, 2018, a 1% change in estimated warranty return rates would change our module warranty liability by \$75.9 million, and a 1% change in the estimated warranty return rate for BoS parts would not have a material impact on the associated warranty liability.

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 or second year of a system’s operation to demonstrate that the actual energy generation for the applicable period 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 specified in the EPC contract. In certain instances, a bonus payment may be received at the end of the applicable test period if the system performs above a specified level. As of September 30, 2018 and December 31, 2017, we accrued \$0.3 million and \$2.1 million, respectively, of estimated obligations under such arrangements, which were classified as “Other current liabilities” in our 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 September 30, 2018 and December 31, 2017, we did not accrue any estimated obligations under our effective availability guarantees.

Indemnifications

In certain limited circumstances, we have provided indemnifications to customers, including project tax equity investors, under which we are contractually obligated to compensate such parties for losses they suffer resulting from a breach

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of a representation, warranty, or covenant or a reduction 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 contracts that have such indemnification provisions, we initially recognize a liability under ASC 460, Guarantees, for the estimated premium that would be required by a guarantor to issue the same indemnity in a standalone arm's-length transaction with an unrelated party. We typically base these estimates on the cost of insurance policies that cover the underlying risks being indemnified and may purchase such policies to mitigate our exposure to potential indemnification payments. We subsequently measure such liabilities at the greater of the initially estimated premium or the contingent liability required to be recognized under ASC 450, Contingencies. We recognize any indemnification liabilities as a reduction of revenue in the related transaction.

After an indemnification liability is recorded, we derecognize such amount pursuant to ASC 460-10-35-2 depending on the nature of the indemnity, which derecognition typically occurs upon expiration or settlement of the arrangement, and any contingent aspects of the indemnity are accounted for in accordance with ASC 450. As of September 30, 2018 and December 31, 2017, we accrued \$3.0 million and \$4.9 million of noncurrent indemnification liabilities, respectively, for tax related indemnifications. As of December 31, 2017, we also accrued \$2.9 million of current indemnification liabilities for such matters. As of September 30, 2018, the maximum potential amount of future payments under our tax related indemnifications was \$122.3 million, and we held insurance policies allowing us to recover up to \$84.9 million of potential amounts paid under the indemnifications covered by the policies.

Contingent Consideration

As part of our prior acquisition of Enki Technology, Inc. ("Enki"), we agreed to pay additional consideration to the selling shareholders contingent upon the achievement of certain production and module performance milestones. As of September 30, 2018 and December 31, 2017, we accrued \$3.5 million and \$1.8 million of current liabilities, respectively, for our contingent obligations associated with the Enki acquisition based on their estimated fair values and the expected timing of payment.

We continually seek to make additions to our advanced-stage project pipeline by actively developing our early-to-mid-stage project pipeline and by pursuing opportunities to acquire projects at various stages of development. In connection with such project acquisitions, we may agree to pay additional amounts to project sellers upon the achievement of certain milestones, such as obtaining a PPA, obtaining financing, or selling the project to a new owner. We recognize a project acquisition contingent liability when we determine that such a liability is both probable and reasonably estimable, and the carrying amount of the related project asset is correspondingly increased. As of September 30, 2018 and December 31, 2017, we accrued \$2.9 million and \$4.4 million of current liabilities, respectively, and \$2.2 million and \$3.2 million of long-term liabilities, respectively, for project related contingent obligations. Any future differences between the acquisition-date contingent obligation estimate and the ultimate settlement of the obligation are recognized as an adjustment to the project asset, as contingent payments are considered direct and incremental to the underlying value of the related project.

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 any 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 nine months ended

September 30, 2018 and 2017, substantially all of our modules sold were not covered by our collection and recycling program.

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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; material, labor, and capital costs; the 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) the expected economic factors 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 statements of operations.

We periodically review our estimates of expected future recycling costs and may adjust our liability accordingly. During the three months ended September 30, 2018, we completed our annual cost study of obligations under our module collection and recycling program and reduced the associated liability by \$34.2 million primarily due to higher by-product credits for glass, lower capital costs resulting from the expanded scale of our recycling facilities, and adjustments to certain valuation assumptions driven by our increased experience with module recycling. During the three months ended September 30, 2017, we completed our annual cost study for the program and reduced our module collection and recycling liability by \$15.8 million primarily as a result of updates to several valuation assumptions, including a decrease in certain inflation rates.

Our module collection and recycling liability was \$134.0 million and \$166.6 million as of September 30, 2018 and December 31, 2017, respectively. As of September 30, 2018, a 1% increase in the annualized inflation rate used in our estimated future collection and recycling cost per module would increase our liability by \$25.6 million, and a 1% decrease in that rate would decrease our liability by \$21.6 million. See Note 5. “Restricted Cash and Investments” to our condensed consolidated financial statements for more information about our arrangements for funding this liability.

Legal Proceedings

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.

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, the “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

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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. On December 13, 2016, the Ninth Circuit denied the Pension Schemes' motion. On January 31, 2018, the Ninth Circuit issued an opinion affirming the Arizona District Court's order denying in part defendants' motion for summary judgment. On March 16, 2018, First Solar filed a petition for panel rehearing or rehearing en banc with the Ninth Circuit. On May 7, 2018, the Ninth Circuit denied defendants' petition. On August 6, 2018, defendants filed a petition for writ of certiorari to the U.S. Supreme Court. The Court has not yet ruled on that petition. Meanwhile, the case is currently pending in the Arizona District Court and expert discovery is ongoing. A trial is scheduled to begin on April 9, 2019.

This lawsuit asserts claims that, if resolved against us, could give rise to substantial damages, and an unfavorable outcome or settlement may result in a significant monetary judgment or award against us or a significant monetary payment by us, and could have a material adverse effect on our business, financial condition, and results of operations. Even if this lawsuit is not resolved against us, the costs of defending the lawsuit may be significant, as may be the cost of any settlement, and would likely exceed the coverage limits of, or may not be covered by, our insurance policies. Given the need for further expert discovery, and the uncertainties of trial, at this time we are not in a position to assess the likelihood of any potential loss or adverse effect on our financial condition 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.

First Solar and the individual defendants filed a motion to dismiss the complaint on July 16, 2018. The Court has not yet ruled on that motion. Accordingly, at this time we are not in a position to assess the likelihood of any potential loss or adverse effect on our financial condition 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 Arizona District Court. On July 12, 2013, the court adopted the magistrate judge's Report and

Recommendation and ordered the case transferred to the Arizona District Court. 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 Class Action is assigned. On August 8, 2012, the court consolidated the four derivative actions pending in the 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 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. On July 15, 2016, plaintiffs filed a motion to reconsider certain aspects of the order granting defendants' motion to dismiss. The Arizona District Court denied the plaintiffs' motion for reconsideration on August 4, 2016. On July 15, 2016, plaintiffs filed a motion to intervene, lift the stay, and unseal documents in the Class Action. On September 30, 2016, the Arizona District Court denied plaintiffs' motion. On October 17, 2016, plaintiffs filed a notice of appeal to the Ninth Circuit of the September 30, 2016 order (the "Intervention Appeal"). On October 27, 2016, plaintiffs filed a motion to extend the October 31, 2016 deadline to file an amended complaint. On November 29, 2016, the Arizona District Court denied plaintiffs' request and directed the clerk to terminate the action. On January 23, 2017, the Arizona District Court entered judgment in favor of defendants and terminated the action. On January 27, 2017, plaintiffs filed a notice of appeal to the Ninth Circuit (the "Merits Appeal"). On January 22, 2018, the Ninth Circuit ruled in favor of First Solar in the Intervention Appeal, and dismissed that appeal. On June 13, 2018, the Ninth Circuit ruled in favor of First Solar in the Merits Appeal, and dismissed that appeal.

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 ("Bargar"). 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 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 stay in this action. Most recently, on June 29, 2018, the court entered an order continuing the stay until November 30, 2018.

The Company believes that the plaintiff in the Bargar derivative action lacks standing to pursue litigation on behalf of First Solar. The Bargar derivative action is still in the initial stages and there has been no discovery. Accordingly, at this time we are not in a position to assess the likelihood of any potential loss or adverse effect on our financial condition or to estimate the range of potential loss, if any.

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Other Matters and Claims

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

12. Revenue from Contracts with Customers

The following table represents a disaggregation of revenue from contracts with customers for the three and nine months ended September 30, 2018 and 2017 along with the reportable segment for each category (in thousands):

| Category | Segment | Three Months Ended | | Nine Months Ended | |
|-----------------------|---------|--------------------|--------------------|--------------------|--------------------|
| | | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Solar modules | Modules | \$ 119,825 | \$ 300,297 | \$ 386,450 | \$ 599,827 |
| Solar power systems | Systems | 386,237 | 747,579 | 850,306 | 1,840,097 |
| EPC services | Systems | 134,369 | 272 | 203,941 | 40,706 |
| O&M services | Systems | 25,431 | 25,414 | 76,572 | 75,074 |
| Energy generation (1) | Systems | 10,358 | 13,461 | 35,534 | 43,125 |
| Module plus | Systems | — | 3 | — | 3,314 |
| Net sales | | \$ 676,220 | \$ 1,087,026 | \$ 1,552,803 | \$ 2,602,143 |

(1) During the three and nine months ended September 30, 2017, the majority of energy generated and sold by our PV solar power systems was accounted for under ASC 840 consistent with the classification of the associated PPAs.

We recognize revenue for module sales at a point in time following the transfer of control of the modules to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts. Such contracts may contain provisions that require us to make liquidated damage payments to the customer if we fail to deliver modules by scheduled dates. We recognize these liquidated damages as a reduction of revenue in the period we transfer control of the modules to the customer.

We generally recognize revenue for sales of solar power systems and/or EPC services over time using cost based input methods, in which significant judgment is required to evaluate assumptions including the amount of net contract revenues and the total estimated costs to determine our progress towards contract completion and to calculate the corresponding amount of revenue to recognize. If the 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 revisions to estimates related to net contract revenues or 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 sales of systems and EPC services occur for a variety of reasons, including but not limited to (i) construction plan accelerations or delays, (ii) module cost forecast changes, (iii) cost related change orders, or (iv) changes in other information used to estimate costs. Changes in estimates may have a material effect on our condensed consolidated statements of operations. The following table outlines the impact on revenue of net changes in estimated transaction prices and input costs for systems related sales contracts (both increases and decreases) for the three and nine months ended September 30, 2018 and 2017 as well as the number of projects that comprise such changes. For purposes of the table, we only include projects with changes in estimates that have a net impact on revenue of at least \$1.0 million during the periods presented with the exception of the sales and use tax matter described below, for which the aggregate change in estimate has been presented. Also included in the table is the net change in estimate as a percentage of the aggregate revenue for such projects.

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| | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|--|----------------------------------|---------|---------------------------------|---------|
| | 2018 | 2017 | 2018 | 2017 |
| Number of projects (1) | 2 | 2 | 23 | 4 |
| Increase (decrease) in revenue from net changes in transaction prices (in thousands) (1) | \$6,672 | \$1,153 | \$54,653 | \$(14) |
| (Decrease) increase in revenue from net changes in input cost estimates (in thousands) | (2,948) | 2,874 | (13,070) | 4,994 |
| Net increase in revenue from net changes in estimates (in thousands) | \$3,724 | \$4,027 | \$41,583 | \$4,980 |
| Net change in estimate as a percentage of aggregate revenue for associated projects | 0.3 | % 1.1 | % 0.4 | % 0.8 |

During the nine months ended September 30, 2018, we settled a tax examination with the state of California regarding several matters, including certain sales and use tax payments due under lump sum EPC contracts. (1) Accordingly, we revised our estimates of sales and use taxes due for projects in the state of California, which affected the estimated transaction prices for such contracts, and recorded an increase to revenue of \$54.6 million.

The following table reflects the changes in our contract assets, which we classify as “Accounts receivable, unbilled” or “Retainage,” and our contract liabilities, which we classify as “Deferred revenue,” for the nine months ended September 30, 2018 (in thousands):

| | September 30, 2018 | December 31, 2017 | Nine Month Change |
|---|--------------------|-------------------|-------------------|
| Accounts receivable, unbilled | \$ 410,513 | \$ 172,594 | |
| Retainage | 10,621 | 2,014 | |
| Accounts receivable, unbilled and retainage | \$ 421,134 | \$ 174,608 | \$246,526 141 % |
| Deferred revenue (1) | \$ 263,577 | \$ 145,073 | \$ 118,504 82 % |

(1) Includes \$47.7 million and \$63.3 million of long-term deferred revenue classified as “Other liabilities” on our condensed consolidated balance sheets as of September 30, 2018 and December 31, 2017, respectively.

Accounts receivable, unbilled represents a contract asset for revenue that has been recognized in advance of billing the customer, which is common for long-term construction contracts. Billing requirements vary by contract but are generally structured around the completion of certain construction milestones. Some of our EPC contracts for systems we build may also contain retainage provisions. Retainage represents a contract asset for the portion of the contract price earned by us for work performed, but held for payment by the customer as a form of security until we reach certain construction milestones. When we receive consideration, or such consideration is unconditionally due, from a customer prior to transferring goods or services to the customer under the terms of a sales contract, we record deferred revenue, which represents a contract liability. Such deferred revenue typically results from billings in excess of costs incurred on long-term construction contracts and advance payments received on sales of solar modules.

During the nine months ended September 30, 2018, our contract assets increased by \$246.5 million primarily due to certain unbilled receivables associated with ongoing construction activities at the California Flats and Willow Springs projects and the completion of the sale of the Manildra project. During the nine months ended September 30, 2018, our contract liabilities increased by \$118.5 million primarily as a result of advance payments received for sales of solar modules and certain EPC projects in Florida and Texas, partially offset by the completion of the sale of certain

Japan projects, for which we collected the proceeds in 2017. During the nine months ended September 30, 2018 and 2017, we recognized revenue of \$71.9 million and \$308.6 million, respectively, that was included in the corresponding contract liability balance at the beginning of the periods.

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The following table represents our remaining performance obligations as of September 30, 2018 for sales of solar power systems, including uncompleted sold projects, projects under sales contracts subject to conditions precedent, and EPC agreements for partner developed projects that we are constructing or expect to construct. Such table excludes remaining performance obligations for any sales arrangements that had not fully satisfied the criteria to be considered a contract with a customer pursuant to the requirements of ASC 606. We expect to recognize \$1.1 billion of revenue for such contracts through the later of the substantial completion or the closing dates of the projects.

| Project/Location | Project Size in MW _{AC} | Revenue Category | EPC Contract/Partner Developed Project | Expected Year Revenue Recognition Will Be Completed | Percentage of Revenue Recognized |
|------------------------------|----------------------------------|---------------------|---|---|----------------------------------|
| California Flats, California | 280 | Solar power systems | Capital Dynamics | 2018 | 87% |
| Phoebe, Texas | 250 | EPC | Innergix Renewable Energy | 2019 | 2% |
| GA Solar 4, Georgia (1) | 200 | Solar power systems | Origis Energy USA | 2020 | 6% |
| Rosamond, California | 150 | Solar power systems | Clearway Energy Group | 2019 | 48% |
| Willow Springs, California | 100 | Solar power systems | D.E. Shaw Renewable Investments | 2018 | 56% |
| Grange Hall, Florida | 61 | EPC | Tampa Electric Company | 2019 | 23% |
| Peace Creek, Florida | 55 | EPC | Tampa Electric Company | 2019 | 10% |
| Troy Solar, Indiana | 51 | EPC | Southern Indiana Gas and Electric Company | 2020 | —% |
| Lake Hancock, Florida | 50 | EPC | Tampa Electric Company | 2019 | —% |
| Total | 1,197 | | | | |

(1) Previously known as the Twiggs County Solar project.

As of September 30, 2018, we had entered into contracts with customers for the future sale of 8.4 GW_{DC} of solar modules for an aggregate transaction price of \$3.1 billion. We expect to recognize such amounts as revenue through 2021 as we transfer control of the modules to the customer. As of September 30, 2018, we had also entered into long-term O&M contracts covering approximately 7 GW_{DC} of utility-scale PV solar power systems. We expect to recognize \$0.5 billion of revenue during the noncancelable term of these O&M contracts over a weighted-average period of 11.5 years.

13. Share-Based Compensation

The following table presents share-based compensation expense recognized in our condensed consolidated statements of operations for the three and nine months ended September 30, 2018 and 2017 (in thousands):

| | Three Months Ended | | Nine Months Ended | |
|-------------------------------------|--------------------|--------------------|--------------------|--------------------|
| | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Cost of sales | \$1,612 | \$1,674 | \$5,148 | \$4,778 |
| Selling, general and administrative | 4,620 | 6,678 | 16,884 | 16,375 |
| Research and development | 1,319 | 1,641 | 4,383 | 4,230 |

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| | | | | |
|--|---------|----------|----------|----------|
| Production start-up | — | 112 | 372 | 144 |
| Total share-based compensation expense | \$7,551 | \$10,105 | \$26,787 | \$25,527 |

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The following table presents share-based compensation expense by type of award for the three and nine months ended September 30, 2018 and 2017 (in thousands):

| | Three Months | | Nine Months | |
|--|--------------------------------|----------|--------------------------------|----------|
| | Ended September 30, 2018 | 2017 | Ended September 30, 2018 | 2017 |
| Restricted and performance stock units | \$7,200 | \$9,581 | \$25,193 | \$23,791 |
| Unrestricted stock | 379 | 459 | 1,258 | 1,297 |
| Stock purchase plan | — | — | — | 394 |
| | 7,579 | 10,040 | 26,451 | 25,482 |
| Net amount (absorbed into) released from inventory | (28) | 65 | 336 | 45 |
| Total share-based compensation expense | \$7,551 | \$10,105 | \$26,787 | \$25,527 |

Share-based compensation expense capitalized in inventory was \$1.8 million and \$2.1 million as of September 30, 2018 and December 31, 2017, respectively. As of September 30, 2018, we had \$47.1 million of unrecognized share-based compensation expense related to unvested restricted and performance stock units, which we expect to recognize over a weighted-average period of approximately 1.3 years.

In February 2017, the compensation committee of our board of directors approved a long-term incentive program for key executive officers and associates. The program is intended to incentivize retention of our key executive talent, provide a smooth transition from our former key senior talent equity performance program, and align the interests of executive management and stockholders. Specifically, the program consists of (i) performance stock units to be earned over an approximately three-year performance period beginning in March 2017 and (ii) stub-year grants of separate performance stock units to be earned over an approximately two-year performance period also beginning in March 2017. Vesting of the March 2017 performance stock units is contingent upon the relative attainment of target cost per watt and operating expense metrics. In April 2018, in continuation of our long-term incentive program for key executive officers and associates, the compensation committee of our board of directors approved additional grants of performance stock units to be earned over an approximately three-year performance period beginning in May 2018. Vesting of the May 2018 performance stock units is contingent upon the relative attainment of target gross margin, operating expense, and contracted revenue metrics. Vesting of performance stock units is also contingent upon the employment of program participants through the applicable vesting dates, with limited exceptions in case of death, disability, a qualifying retirement, or a change-in-control of First Solar. Performance stock units were included in the computation of diluted net income per share based on the number of shares that would be issuable if the end of the reporting period were the end of the contingency period.

14. Income Taxes

The Tax Act, enacted in December 2017, significantly revised U.S. tax law by, among other things, lowering the statutory federal corporate income tax rate from 35% to 21% for tax years beginning after December 31, 2017, eliminating certain deductions, imposing a one-time transition tax on certain accumulated earnings and profits of foreign corporate subsidiaries (the “transition tax”) that may electively be paid over eight years, introducing new tax regimes, and changing how foreign earnings are subject to U.S. tax. The Tax Act also includes many new provisions, such as changes to bonus depreciation, changes to deductions for executive compensation, net operating loss deduction limitations, a tax on global intangible low-taxed income (“GILTI”) earned by foreign corporate subsidiaries, a base erosion anti-abuse tax (“BEAT”), and a deduction for foreign-derived intangible income (“FDII”). We continue to evaluate the impact of the Tax Act on us.

In December 2017, the SEC issued Staff Accounting Bulletin No. 118 to (i) clarify certain aspects of accounting for income taxes under ASC 740 in the reporting period the Tax Act was signed into law when information is not yet

available or complete and (ii) provide a measurement period up to one year to complete the accounting for the Tax Act. We have not completed our accounting for the Tax Act but have, in certain cases, made reasonable estimates of the effects of the Tax Act. In other cases, we have not been able to make a reasonable estimate of such tax effects and have

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continued to account for the affected items, including state income taxes to the extent there is uncertainty regarding conformity to the federal tax system, based on previous tax laws. In all cases, we will continue to make and refine our estimates as additional analysis is completed. Our estimates may also be refined as we gain a more thorough understanding of the tax law. Any changes to our provisional estimates could be material to income tax expense.

As a result of the Tax Act, we remeasured certain deferred tax assets and liabilities based on the tax rate applicable to when the temporary differences are expected to reverse in the future, which is generally 21%, and recorded a provisional tax expense of \$6.6 million for the year ended December 31, 2017. No adjustments to this provisional amount were made during the three and nine months ended September 30, 2018. We continue to evaluate certain aspects of the Tax Act, which could potentially affect the remeasurement of these deferred tax balances and result in additional tax expense.

The transition tax was based on our total post-1986 foreign earnings and profits, which we had deferred from U.S. income taxes under previous tax law. We estimated and recorded a provisional transition tax expense of \$401.5 million for the year ended December 31, 2017. No adjustments to this provisional amount were made during the three and nine months ended September 30, 2018. As we continue gathering additional information to finalize our calculations of post-1986 foreign earnings and profits previously deferred from U.S. income taxes, the provisional amount may change. We have not completed our accounting for the transition tax, and as we finalize and complete our plans for the reinvestment or repatriation of unremitted foreign earnings and are able to calculate the resulting tax effects, we expect to record such tax effects, if any, and disclose such plans within the measurement period.

The Tax Act subjects a U.S. shareholder to tax on GILTI earned by foreign corporate subsidiaries. Because of the complexity of the new GILTI, BEAT, and FDII provisions of the Tax Act and different aspects of our estimated future results of global operations, we continue to evaluate the effects of the GILTI provisions and have not yet determined our accounting policy election to (i) record taxes due on future U.S. inclusions in taxable income related to GILTI as a current-period expense when incurred (the “period cost method”) or (ii) factor such amounts into our measurement of deferred income taxes (the “deferred method”). Based on our evaluation, we included an estimate of the tax on GILTI in our effective tax rate for the nine months ended September 30, 2018 but did not recognize additional GILTI on deferred items. We expect to complete our accounting for the GILTI provisions of the Tax Act and make a corresponding accounting policy election within the prescribed measurement period.

The BEAT provisions of the Tax Act impose a minimum tax related to certain deductible payments made to related foreign persons. In addition, the Tax Act disallows certain interest and royalty deductions for payments made to related parties depending on their countries’ tax treatment of the payments. The new FDII provision allows a U.S. corporation to deduct 37.5% of its foreign-derived intangible income. We evaluated the impact of the BEAT and FDII provisions of the Tax Act on our expected 2018 operating results and expect such impact to be immaterial.

Our effective tax rate was 12.1% and (11.4)% for the nine months ended September 30, 2018 and 2017, respectively. The increase in our effective tax rate was primarily driven by a discrete tax benefit in 2017 associated with the acceptance of our election to classify certain of our German subsidiaries as disregarded entities of First Solar, Inc. and losses in certain jurisdictions for which no tax benefit could be recorded, partially offset by changes in various uncertain tax positions. Our provision for income taxes differed from the amount computed by applying the U.S. statutory federal income tax rate of 21% primarily due to the beneficial impact of our Malaysian tax holiday and changes in various uncertain tax positions, partially offset by losses in certain jurisdictions for which no tax benefit 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 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.

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We account for uncertain tax positions pursuant to the recognition and measurement criteria under ASC 740. During the three and nine months ended September 30, 2018, we recognized benefits of \$9.4 million and \$10.0 million, respectively, from the expiration of the statute of limitations for various uncertain tax positions, excluding interest and penalties. During the three and nine months ended September 30, 2017, we recognized a benefit of \$11.0 million from such expirations.

We are subject to audit by U.S. federal, state, local, and foreign tax authorities. We are currently under examination in India, Chile, and the state of California. 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.

15. 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 nine months ended September 30, 2018 and 2017 was as follows (in thousands, except per share amounts):

| | Three Months Ended September 30, 2018 | | Nine Months Ended September 30, 2017 | |
|---|--|-----------|---|-----------|
| Basic net income per share | | | | |
| Numerator: | | | | |
| Net income | \$57,750 | \$205,747 | \$92,210 | \$266,839 |
| Denominator: | | | | |
| Weighted-average common shares outstanding | 104,804 | 104,432 | 104,711 | 104,287 |
| Diluted net income per share | | | | |
| Denominator: | | | | |
| Weighted-average common shares outstanding | 104,804 | 104,432 | 104,711 | 104,287 |
| Effect of restricted and performance stock units and stock purchase plan shares | 1,359 | 1,228 | 1,500 | 602 |
| Weighted-average shares used in computing diluted net income per share | 106,163 | 105,660 | 106,211 | 104,889 |
| Net income per share: | | | | |
| Basic | \$0.55 | \$1.97 | \$0.88 | \$2.56 |
| Diluted | \$0.54 | \$1.95 | \$0.87 | \$2.54 |

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 nine months ended September 30, 2018 and 2017 as such shares would have had an anti-dilutive effect (in thousands):

| Three Months Ended September | Nine Months Ended September |
|---------------------------------------|--------------------------------------|
| | |

| | 30, 2018 | 2017 | 30, 2018 | 2017 |
|----------------------|-------------|------|-------------|------|
| Anti-dilutive shares | 603 | 2 | 394 | 195 |

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16. Accumulated Other Comprehensive (Loss) Income

Accumulated other comprehensive income or loss includes foreign currency translation adjustments, unrealized gains and losses on available-for-sale debt securities, and unrealized gains and losses on derivative instruments designated and qualifying as cash flow hedges. The following table presents the changes in accumulated other comprehensive (loss) income, net of tax, for the nine months ended September 30, 2018 (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, 2017 | \$ (65,346) | \$ 68,388 | \$ (783) | \$ 2,259 |
| Other comprehensive (loss) income before reclassifications | (7,252) | (16,057) | (3,884) | (27,193) |
| Amounts reclassified from accumulated other comprehensive (loss) income | — | (19,473) | 6,812 | (12,661) |
| Net tax effect | — | 3,424 | (1,000) | 2,424 |
| Net other comprehensive (loss) income | (7,252) | (32,106) | 1,928 | (37,430) |
| Balance as of September 30, 2018 | \$ (72,598) | \$ 36,282 | \$ 1,145 | \$ (35,171) |

The following table presents the pretax amounts reclassified from accumulated other comprehensive (loss) income into our condensed consolidated statements of operations for the three and nine months ended September 30, 2018 and 2017 (in thousands):

| Comprehensive Income Components | Income Statement Line Item | Three Months Ended | | Nine Months Ended | |
|---|-------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | September 30, 2018 | September 30, 2017 | September 30, 2018 | September 30, 2017 |
| Unrealized gain on marketable securities and restricted investments | Other (loss) income, net | \$— | \$— | \$19,473 | \$49 |
| Unrealized loss on derivative contracts: | | | | | |
| Foreign exchange forward contracts | Net sales | 46 | — | (1,698) | — |
| Foreign exchange forward contracts | Cost of sales | (212) | — | (212) | — |
| Foreign exchange forward contracts | Foreign currency loss, net | (5,448) | — | (5,448) | — |
| Foreign exchange forward contracts | Other (loss) income, net | 546 | (189) | 546 | (189) |
| | | (5,068) | (189) | (6,812) | (189) |
| Total amount reclassified | | \$ (5,068) | \$ (189) | \$ 12,661 | \$ (140) |

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17. Segment Reporting

We operate our business in two segments. Our modules segment involves the design, manufacture, and sale of cadmium telluride (“CdTe”) solar modules, which convert sunlight into electricity. Third-party customers of our modules segment include integrators and operators of PV solar power systems. Our second segment is our fully integrated 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 systems for a period of time based on strategic opportunities or market factors.

Beginning with the three months ended December 31, 2017, we changed the composition of our reportable segments to align with revisions to our internal reporting structure and long-term strategic plans. As a result of this change, our modules segment, which was historically referred to as our components segment, includes module sales to third parties and excludes any module sales to our systems segment. Previously, we included an allocation of net sales value for all solar modules manufactured by our modules segment and installed in projects sold or built by our systems segment in the net sales of our modules segment. Our systems segment now includes all net sales from the sale of solar power systems and related products and services, including any modules installed in such systems and any revenue from energy generated by such systems. All prior period balances were revised to conform to the current year presentation. See Note 22. “Segment and Geographical Information” in our Annual Report on Form 10-K for the year ended December 31, 2017 for a complete discussion of our segment reporting.

The following tables present certain financial information for our reportable segments for the three and nine months ended September 30, 2018 and 2017 and as of September 30, 2018 and December 31, 2017 (in thousands):

| | Three Months Ended September 30, 2018 | | | Three Months Ended September 30, 2017 | | |
|---------------------------------------|---------------------------------------|-----------|-----------|---------------------------------------|-----------|-------------|
| | Modules | Systems | Total | Modules | Systems | Total |
| Net sales | \$119,825 | \$556,395 | \$676,220 | \$300,297 | \$786,729 | \$1,087,026 |
| Gross (loss) profit | (5,654) | 134,781 | 129,127 | 37,042 | 254,758 | 291,800 |
| Depreciation and amortization expense | 25,539 | 4,268 | 29,807 | 15,534 | 5,957 | 21,491 |

| | Nine Months Ended September 30, 2018 | | | Nine Months Ended September 30, 2017 | | |
|---------------------------------------|--------------------------------------|-------------|-------------|--------------------------------------|-------------|-------------|
| | Modules | Systems | Total | Modules | Systems | Total |
| Net sales | \$386,450 | \$1,166,353 | \$1,552,803 | \$599,827 | \$2,002,316 | \$2,602,143 |
| Gross (loss) profit | (21,927) | 315,794 | 293,867 | 86,314 | 400,563 | 486,877 |
| Depreciation and amortization expense | 52,802 | 14,363 | 67,165 | 53,910 | 18,273 | 72,183 |

| | September 30, 2018 | | | December 31, 2017 | | |
|----------|--------------------|---------|----------|-------------------|---------|----------|
| | Modules | Systems | Total | Modules | Systems | Total |
| Goodwill | \$14,462 | \$— | \$14,462 | \$14,462 | \$— | \$14,462 |

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Item 2. Management's Discussion and Analysis of Financial Condition and Results of Operations

Cautionary Statement Regarding Forward-Looking Statements

This Quarterly Report on Form 10-Q contains forward-looking statements within the meaning of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), and the Securities Act of 1933, as amended (the "Securities Act"), which are subject to risks, uncertainties, and assumptions that are difficult to predict. All statements in this Quarterly Report on Form 10-Q, other than statements of historical fact, are forward-looking statements. These forward-looking statements are made pursuant to safe harbor provisions of the Private Securities Litigation Reform Act of 1995. The forward-looking statements include statements, among other things, concerning: effects resulting from certain module manufacturing changes and associated restructuring activities; our business strategy, including anticipated trends and developments in and management plans for our business and the markets in which we operate; future financial results, operating results, revenues, gross margin, operating expenses, products, projected costs (including estimated future module collection and recycling costs), warranties, solar module technology and cost reduction roadmaps, restructuring, product reliability, equity method investments, and capital expenditures; our ability to continue to reduce the cost per watt of our solar modules; the impact of public policies, such as tariffs or other trade remedies imposed on solar cells and modules; effects resulting from pending litigation; our ability to expand manufacturing capacity worldwide; our ability to reduce the costs to develop and construct PV solar power systems; research and development ("R&D") programs and our ability to improve the conversion efficiency of our solar modules; sales and marketing initiatives; and competition. In some cases, you can identify these statements by forward-looking words, such as "estimate," "expect," "anticipate," "project," "plan," "intend," "seek," "believe," "forecast," "foresee," "likely," "goal," "target," "might," "will," "could," "predict," "continue," and the negative or plural of these words, and other comparable terminology.

Forward-looking statements are only predictions based on our current expectations and our projections about future events. All forward-looking statements included in this Quarterly Report on Form 10-Q are based upon information available to us as of the filing date of this Quarterly Report on Form 10-Q and therefore speak only as of the filing date. You should not place undue reliance on these forward-looking statements. We undertake no obligation to update any of these forward-looking statements for any reason, whether as a result of new information, future developments, or otherwise. These forward-looking statements involve known and unknown risks, uncertainties, and other factors that may cause our actual results, levels of activity, performance, or achievements to differ materially from those expressed or implied by these statements. These factors include, but are not limited to, the matters discussed in Item 1A. "Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2017 and subsequent Quarterly Reports on Form 10-Q and our other reports filed with the SEC. You should carefully consider the risks and uncertainties described under these sections.

The following discussion and analysis of our financial condition and results of operations should be read in conjunction with our condensed consolidated financial statements and the related notes thereto included in this Quarterly Report on Form 10-Q. When referring to our manufacturing capacity, total sales, and solar module sales, the unit of electricity in watts for megawatts ("MW") and gigawatts ("GW") is direct current ("DC") unless otherwise noted. When referring to our projects or systems, the unit of electricity in watts for MW and GW is alternating current ("AC") unless otherwise noted.

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Executive Overview

We are a leading global provider of comprehensive PV solar energy solutions. We design, manufacture, and sell PV solar modules with an advanced thin film semiconductor technology and also develop, design, construct, and sell PV solar power systems that primarily use the modules we manufacture. Additionally, we provide O&M services to system owners. We have substantial, ongoing R&D efforts focused on module and system-level innovations. We are the world's largest thin film PV solar module manufacturer and one of the world's largest PV solar module manufacturers. Our mission is to provide cost-advantaged solar technology through innovation, customer engagement, industry leadership, and operational excellence.

Certain of our financial results and other key operational developments for the three months ended September 30, 2018 include the following:

- Net sales for the three months ended September 30, 2018 decreased by 38% to \$0.7 billion compared to \$1.1 billion for the same period in 2017. The decrease in net sales was primarily due to the sale of the California Flats project in 2017 relative to revenue recognized on the project in 2018 from ongoing construction activities, a decrease in third-party module sales, and the sale of the Cuyama project in 2017, partially offset by the sale of the Willow Springs and Manildra projects, ongoing construction activities at the Rosamond project, and the completion of substantially all construction activities at the Balm Solar and Payne Creek projects.

- Gross profit for the three months ended September 30, 2018 decreased 7.7 percentage points to 19.1% from 26.8% for the same period in 2017. The decrease in gross profit was primarily due to higher under-utilization and certain other charges associated with the initial ramp of Series 6 manufacturing lines and a mix of lower gross profit projects sold or under construction during the period, partially offset by a reduction in our module collection and recycling liability due to higher by-product credits for glass, lower capital costs, and adjustments to certain valuation assumptions.

During the three months ended September 30, 2018, we continued to ramp commercial production of Series 6 modules at our manufacturing facilities in Perrysburg, Ohio and Kulim, Malaysia and commenced commercial production of Series 6 modules at our manufacturing facility in Ho Chi Minh City, Vietnam, bringing our total installed annual production capacity across all our facilities to 5.2 GW. We produced 0.7 GW of solar modules during the three months ended September 30, 2018, which represented a 35% increase from the same period in 2017. The increase in production was primarily driven by the incremental Series 6 production capacity added in 2018. We expect to produce approximately 2.8 GW of solar modules during 2018, including approximately 0.7 GW of Series 6 modules.

Market Overview

The solar industry continues to be characterized by intense pricing competition, both at the module and system levels. In particular, module average selling prices in global markets have experienced an accelerated decline in recent periods and are expected to continue to decline to some degree in the future. In the aggregate, we believe manufacturers of solar cells and modules have significant installed production capacity, relative to global demand, and the ability for additional capacity expansion. We believe the solar industry may from time to time experience periods of structural imbalance between supply and demand (i.e., where production capacity exceeds global demand), and that such periods will continue to put pressure on pricing. We believe the solar industry is currently in such a period, due in part to recent developments in China, which include feed-in-tariff reductions causing deferment of in-country project development. Additionally, intense competition at the system level may result in an environment in which pricing falls rapidly, thereby further increasing demand for solar energy solutions but constraining the ability for project developers, EPC companies, and vertically-integrated companies such as First Solar to sustain meaningful and

consistent profitability. In light of such market realities, we are focusing on our strategies and points of differentiation, which include our advanced module and system technologies, our manufacturing process and scale, our vertically-integrated business model, our financial viability, and the sustainability advantage of our modules and systems.

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Global solar markets continue to expand and develop, in part aided by demand elasticity resulting from declining industry average selling prices, both at the module and system levels, which make solar power more affordable. We are developing, constructing, and operating multiple solar projects around the world as we continue to execute on our advanced-stage utility-scale project pipeline. We expect a significant portion of our future consolidated net sales, operating income, and cash flows to be derived from such projects. We also continue to develop our early-to-mid-stage project pipeline and evaluate acquisitions of projects to further expand both our early-to-mid-stage and advanced-stage project pipelines. See the tables under “Management’s Discussion and Analysis of Financial Condition and Results of Operations – Systems Project Pipeline” for additional information about projects within our advanced-stage project pipeline.

Lower industry module and system pricing, which presents challenges for certain module manufacturers (particularly manufacturers with higher cost structures), is expected to continue to contribute to diversification in global electricity generation and further demand for solar energy solutions. Over time, we believe that solar energy generation will experience widespread adoption as it competes economically with traditional forms of energy generation. In the near term, however, declining average selling prices are expected to adversely affect our results of operations relative to prior years. If competitors reduce pricing to levels below their costs; bid aggressively low prices for module sale agreements, EPC agreements, and PPAs; or are able to operate at minimal or negative operating margins for sustained periods of time, our results of operations could be further adversely affected. In certain markets in California and elsewhere, an oversupply imbalance at the grid level may further reduce short-to-medium term demand for new solar installations relative to prior years, lower PPA pricing, and lower margins on module and system sales to such markets. We continue to mitigate these uncertainties in part by executing on our module technology improvements, including our transition to Series 6 module manufacturing, continuing the development of key markets, and implementing certain other cost reduction initiatives, including both manufacturing, BoS, and other operating costs.

We face intense competition from manufacturers of crystalline silicon solar modules and developers of solar power projects. Solar module manufacturers compete with one another on price and on several module value attributes, including conversion efficiency, energy yield, and reliability, and developers of systems compete on various factors such as net present value, return on equity, and levelized cost of electricity (“LCOE”), meaning the net present value of a system’s total life cycle costs divided by the quantity of energy that is expected to be produced over the system’s life. As noted above, competition on the basis of selling price per watt remains intense, which has contributed to declines in module average selling prices in several key markets. Many crystalline silicon cell and wafer manufacturers continue to transition from lower efficiency Back Surface Field (“BSF”) multi-crystalline cells (the legacy technology against which we have generally competed in our markets) to higher efficiency Passivated Emitter Rear Contact (“PERC”) multi-crystalline and mono-crystalline cells at competitive cost structures.

Additionally, while conventional solar modules, including the solar modules we produce, are monofacial, meaning their ability to produce energy is a function of direct and diffuse irradiance on their front side, certain manufacturers of mono-crystalline PERC solar modules are pursuing the commercialization of bifacial modules that also capture diffuse irradiance on the back side of a module. We believe the cost effective manufacture of bifacial PERC modules is being enabled by the expansion of inexpensive crystal growth and diamond wire saw capacity in China. Bifaciality compromises nameplate efficiency, but by converting both front and rear side irradiance, such technology can improve the overall energy production of a module relative to nameplate efficiency when applied in certain applications and BoS configurations, which could potentially lower the overall LCOE of a system when compared to systems using conventional solar modules, including the modules we produce.

We believe we are among the lowest cost module manufacturers in the solar industry on a module cost per watt basis, based on publicly available information. This cost competitiveness allows us to compete favorably in markets where pricing for modules and fully integrated PV solar power systems is highly competitive. Our cost competitiveness is based in large part on our module conversion efficiency, proprietary manufacturing technology (which enables us to

produce a CdTe module in less than 3.5 hours using a continuous and highly automated industrial manufacturing process, as opposed to a batch process), and our operational excellence. In addition, our CdTe modules use approximately 1-2% of the amount of semiconductor material that is used to manufacture traditional crystalline silicon solar modules. The

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cost of polysilicon is a significant driver of the manufacturing cost of crystalline silicon solar modules, and the timing and rate of change in the cost of silicon feedstock and polysilicon could lead to changes in solar module pricing levels. Polysilicon costs have declined in recent years, and polysilicon consumption per cell has been reduced through various initiatives, such as the adoption of diamond wire saw technology, contributing to a decline in our relative manufacturing cost competitiveness over traditional crystalline silicon module manufacturers.

Given the smaller size (sometimes referred to as form factor) of our Series 4 modules compared to certain types of crystalline silicon modules, we may incur higher labor and BoS costs associated with the construction of systems using our Series 4 modules. Thus, to compete effectively on an LCOE basis, our Series 4 modules may need to maintain a certain cost advantage per watt compared to crystalline silicon-based modules with larger form factors. Our next generation Series 6 modules have a larger form factor along with better product attributes and a lower manufacturing cost structure. Accordingly, the larger form factor and design of our Series 6 modules is expected to reduce the number of electrical connections, hardware, and labor required for system installation compared to current technologies. The resulting cost savings are expected to improve project returns as BoS and labor costs represent a significant portion of the overall costs associated with the construction of a typical utility-scale system.

In terms of energy yield, in many climates, our CdTe modules provide a significant energy production advantage over most conventional crystalline silicon solar modules (including BSF and PERC technologies) of equivalent efficiency rating. For example, our CdTe solar modules provide a superior temperature coefficient, which results in stronger system performance in typical high insolation climates as the majority of a system's generation, on average, occurs when module temperatures are well above 25°C (standard test conditions). In addition, our CdTe modules provide a superior spectral response in humid environments where atmospheric moisture alters the solar spectrum relative to laboratory standards. Our CdTe solar modules also provide a better shading response than conventional crystalline silicon solar modules, which may lose up to three times as much power as CdTe solar modules when shading occurs. As a result of these and other factors, our PV solar power systems typically produce more annual energy in real world field conditions than competing systems with the same nameplate capacity.

While our modules and systems are generally competitive in cost, reliability, and performance attributes, there can be no guarantee such competitiveness will continue to exist in the future to the same extent or at all. Any declines in the competitiveness of our products could result in additional margin compression, further declines in the average selling prices of our modules and systems, erosion in our market share for modules and systems, and/or declines in overall net sales. We continue to focus on enhancing the competitiveness of our solar modules and systems by accelerating progress along our module technology and cost reduction roadmaps, continuing to make technological advances at the system level, using innovative installation techniques and know-how, and leveraging volume procurement around standardized hardware platforms.

Certain Trends and Uncertainties

We believe that our operations may be favorably or unfavorably impacted by the following trends and uncertainties that may affect our financial condition and results of operations. See Item 1A. "Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2017 and subsequent Quarterly Reports on Form 10-Q for discussions of other risks (the "Risk Factors") that may affect our financial condition and results of operations.

Our long-term strategic plans are focused on our goal to create long-term shareholder value through a balance of growth, profitability, and liquidity. In executing such plans, we are focusing on providing utility-scale PV solar energy solutions using our modules in key geographic markets that we believe have a compelling need for mass-scale PV electricity, including markets throughout the Americas, the Asia-Pacific region, and certain other strategic markets. Additionally, we are focusing on opportunities in which our PV solar energy solutions can compete directly with traditional forms of energy generation on an LCOE or similar basis, or complement such generation offerings. Our

focus on our core module and utility-scale offerings exists within a current market environment that includes rooftop and distributed generation solar, particularly in the United States. While it is unclear how rooftop and distributed generation solar might impact our core utility-scale based offerings in the next several years, we believe that utility-scale solar will continue

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to be a compelling solar offering for companies with technology and cost leadership and will continue to represent an increasing portion of the overall electricity generation mix. Additionally, our ability to provide utility-scale offerings on economically attractive terms depends, in part, on certain market factors outside of our control, such as interest rate fluctuations, domestic or international trade policies, and government support programs. Adverse changes in these factors could increase the cost of utility-scale systems, which could reduce demand for such systems and limit the number of potential buyers.

We are closely evaluating and managing the appropriate level of resources required as we pursue the most advantageous and cost effective projects and partnerships in our key markets. We have dedicated, and intend to continue to dedicate, significant capital and human resources to reduce the total installed cost of PV solar energy, to optimize the design and logistics around our PV solar energy solutions, and to ensure that our solutions integrate well into the overall electricity ecosystem of each specific market. We expect that, over time, the majority of our consolidated net sales, operating income, and cash flows will come from solar offerings in the key geographic markets described above. The timing, execution, and financial impacts of our long-term strategic plans are subject to risks and uncertainties, as described in the Risk Factors. We are focusing our resources in those markets and energy applications in which solar power can be a least-cost, best-fit energy solution, particularly in regions with significant current or projected electricity demand, relatively high existing electricity prices, strong demand for renewable energy generation, and high solar resources.

Creating or maintaining a market position in certain strategically targeted markets and energy applications also requires us to adapt to new and changing market conditions. For example, our offerings from time to time may need to be competitively priced at levels associated with minimal gross profit margins, which may adversely affect our results of operations. We expect the profitability associated with our various sales offerings to vary from one another over time, and possibly vary from our internal long-range profitability expectations and targets, depending on the market opportunity and the relative competitiveness of our offerings compared with other energy solutions, traditional or otherwise, that are available to potential customers. In addition, as we execute on our long-term strategic plans, we will continue to monitor and adapt to any changing dynamics in emerging technologies, such as commercially viable energy storage solutions, which are expected to further enable PV solar power systems to compete with traditional forms of energy generation by shifting the delivery of energy generated by such systems to periods of greater demand. Storage solutions continue to evolve in terms of technology and cost, and global deployments of storage capacity are expected to exceed 100 GW by 2030, representing a significant increase in the potential market for renewable energy. We will also continue to monitor and adapt to changing dynamics in the market set of potential buyers of solar projects. Market environments with few potential project buyers and a higher cost of capital would generally exert downward pressure on the potential revenue from the solar projects we are developing, whereas, conversely, market environments with many potential project buyers and a lower cost of capital would likely have a favorable impact on the potential revenue from such solar projects.

On occasion, we may temporarily own and operate certain systems with the intention to sell them at a later date. We may also elect to construct and temporarily retain ownership interests in partially contracted or uncontracted systems for which there is a partial or no PPA with an off-taker, such as a utility, but rather an intent to sell a portion or all of the electricity produced by the system on an open contract basis until the system is sold. Expected revenue from projects without a PPA for the full offtake of the system is subject to greater variability and uncertainty based on market factors and is typically lower than projects with a PPA for the full offtake of the system. Additionally, our business arrangements with strategic partners have and may in the future result in us temporarily retaining a noncontrolling ownership interest in the underlying systems projects we develop, supply modules to, or construct, potentially for a period of up to several years. In each of the above mentioned examples, we may retain such ownership interests in a consolidated or unconsolidated separate entity.

We continually evaluate forecasted global demand, competition, and our addressable market and seek to effectively balance manufacturing capacity with market demand and the nature and extent of our competition. We recently commenced commercial production of Series 6 modules at our previously idled Vietnamese manufacturing plant and continue to construct a second and identical Series 6 manufacturing plant in Vietnam. We also announced plans to construct an additional Series 6 manufacturing plant in Lake Township, Ohio, a short distance from our plant in

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Perrysburg, Ohio. Our second Vietnamese and U.S. manufacturing plants, and any other potential investments to add or otherwise modify our existing manufacturing capacity in response to market demand and competition may require significant internal and possibly external sources of liquidity and may be subject to certain risks and uncertainties described in the Risk Factors, including those described under the headings “Our future success depends on our ability to effectively balance manufacturing production with market demand, convert existing production facilities to support new product lines, such as our transition to Series 6 module manufacturing, and, when necessary, continue to build new manufacturing plants over time in response to such demand and add production lines in a cost-effective manner, all of which are subject to risks and uncertainties” and “If any future production lines are not built in line with our committed schedules, it may impair any future growth plans. If any future production lines do not achieve operating metrics similar to our existing production lines, our solar modules could perform below expectations and cause us to lose customers.”

Systems Project Pipeline

The following tables summarize, as of October 25, 2018, our approximately 2.7 GW advanced-stage project pipeline. The actual volume of modules installed in our projects will be greater than the project size in MW_{AC} as module volumes required for a project are based upon MW_{DC}, which will be greater than the MW_{AC} size pursuant to a DC-AC ratio typically ranging from 1.2 to 1.3. Such ratio varies across different projects due to various system design factors. Projects are typically removed from our advanced-stage project pipeline tables below once we substantially complete construction of the project and after substantially all of the associated project revenue is recognized. Projects, or portions of projects, may also be removed from the tables below in the event an EPC-contracted or partner-developed project does not obtain permitting or financing, a project is not able to be sold due to the changing economics of the project or other factors, or we decide to temporarily own and operate, or retain interests in, such project based on strategic opportunities or market factors.

Projects under Sales Agreements

(Includes uncompleted sold projects, projects under sales contracts subject to conditions precedent, and EPC agreements, including partner developed projects that we will be or are constructing.)

| Project/Location | Project Size in MW _{AC} | PPA Contracted Partner | EPC Contract/Partner Developed Project | Expected Year Revenue Recognition Will Be Completed | % of Revenue Recognized as of September 30, 2018 |
|------------------------------|----------------------------------|----------------------------|---|---|--|
| California Flats, California | 280 | PG&E / Apple (1) | Capital Dynamics | 2018 | 87% |
| Phoebe, Texas | 250 | Shell Energy North America | Innergix Renewable Energy | 2019 | 2% |
| GA Solar 4, Georgia (2) | 200 | Georgia Power Company | Origis Energy USA | 2020 | 6% |
| Rosamond, California | 150 | SCE | Clearway Energy Group | 2019 | 48% |
| Willow Springs, California | 100 | SCE | D.E. Shaw Renewable Investments | 2018 | 56% |
| Beryl, Australia | 87 | (3) | New Energy Solar | 2019 | —% |
| Grange Hall, Florida | 61 | (4) | Tampa Electric Company | 2019 | 23% |
| Peace Creek, Florida | 55 | (4) | Tampa Electric Company | 2019 | 10% |
| Troy Solar, Indiana | 51 | (4) | Southern Indiana Gas and Electric Company | 2020 | —% |
| | 50 | (4) | | 2019 | —% |

Lake Hancock,
Florida
Total

1,284

Tampa Electric
Company

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Projects with Executed PPAs Not Under Sales Agreements

| Project/Location | Project Size in MW _{AC} | PPA Contracted Partner | Fully Permitted | Expected or Actual Substantial Completion Year | % Complete as of September 30, 2018 |
|----------------------------------|----------------------------------|---|-----------------|--|-------------------------------------|
| Southeastern U.S. | 227 | (5) | No | 2021 | 1% |
| Sun Streams, Arizona | 150 | SCE | Yes | 2019 | 14% |
| Southwestern U.S. | 150 | (5) | Yes | 2020/2021 | 4% |
| Luz del Norte, Chile | 141 | (6) | Yes | 2016 | 100% |
| American Kings Solar, California | 123 | SCE | No | 2020 | 16% |
| Sunshine Valley, Nevada | 100 | SCE | Yes | 2019 | 4% |
| Japan (multiple locations) | 89 | (7) | No | 2019/2020 | 32% |
| Willow Springs 3, California | 75 | (5) | Yes | 2021 | 7% |
| Seabrook, South Carolina | 73 | South Carolina Electric and Gas Company | No | 2019 | 3% |
| Sun Streams PVS, Arizona | 65 | APS | No | 2020 | 2% |
| Ishikawa, Japan | 59 | Hokuriku Electric Power Company | Yes | 2018 | 93% |
| Cove Mountain Solar 1, Utah | 58 | PacifiCorp | No | 2020 | 1% |
| Little Bear, California | 40 | Marin Clean Energy (8) | No | 2020 | 5% |
| Miyagi, Japan | 40 | Tohoku Electric Power Company | Yes | 2021 | 17% |
| India (multiple locations) | 40 | (9) | Yes | 2017 | 100% |
| Total | 1,430 | | | | |

(1) PG&E – 150 MW_{AC} and Apple Energy – 130 MW_{AC}

(2) Previously known as the Twiggs County Solar project

(3) Approximately 55 MW_{AC} of the plant's capacity is contracted with Transport for NSW

(4) Utility-owned generation

(5) Contracted but not specified

(6) Approximately 70 MW_{AC} of the plant's capacity is contracted under various PPAs

(7) Tokyo Electric Power Company – 72 MW_{AC} and Hokuriku Electric Power Company – 17 MW_{AC}

(8) Expandable to 160 MW_{AC}, subject to satisfaction of certain PPA contract conditions

(9) Gulbarga Electricity Supply Co. – 20 MW_{AC} and Chamundeshwari Electricity Supply Co. – 20 MW_{AC}

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Results of Operations

The following table sets forth our condensed consolidated statements of operations as a percentage of net sales for the three and nine months ended September 30, 2018 and 2017:

| | Three Months | | Nine Months | |
|-------------------------------------|---------------|---------|---------------|---------|
| | Ended | | Ended | |
| | September 30, | | September 30, | |
| | 2018 | 2017 | 2018 | 2017 |
| Net sales | 100.0 % | 100.0 % | 100.0 % | 100.0 % |
| Cost of sales | 80.9 % | 73.2 % | 81.1 % | 81.3 % |
| Gross profit | 19.1 % | 26.8 % | 18.9 % | 18.7 % |
| Selling, general and administrative | 5.0 % | 4.6 % | 8.1 % | 5.7 % |
| Research and development | 3.3 % | 1.9 % | 4.1 % | 2.5 % |
| Production start-up | 2.2 % | 1.2 % | 4.9 % | 0.9 % |
| Restructuring and asset impairments | — % | 0.1 % | — % | 1.5 % |
| Operating income | 8.6 % | 19.0 % | 1.9 % | 8.2 % |
| Foreign currency loss, net | (0.4)% | (0.4)% | (0.2)% | (0.2)% |
| Interest income | 2.4 % | 0.8 % | 2.9 % | 0.9 % |
| Interest expense, net | (0.5)% | (0.4)% | (0.9)% | (0.8)% |
| Other (loss) income, net | (0.9)% | 0.2 % | 0.5 % | 1.0 % |
| Income tax (expense) benefit | (0.4)% | (0.7)% | (0.5)% | 1.0 % |
| Equity in earnings, net of tax | (0.5)% | 0.4 % | 2.3 % | 0.2 % |
| Net income | 8.5 % | 18.9 % | 5.9 % | 10.3 % |

Segment Overview

We operate our business in two segments. Our modules segment involves the design, manufacture, and sale of CdTe solar modules to third parties, and our systems segment includes the development, construction, operation, maintenance, and sale of PV solar power systems, including any modules installed in such systems and any revenue from energy generated by such systems. See Note 17. “Segment Reporting” to our condensed consolidated financial statements for more information on our operating segments. See also Item 2. “Management’s Discussion and Analysis of Financial Condition and Results of Operations – Systems Project Pipeline” for a description of the system projects in our advanced-stage project pipeline.

Beginning with the three months ended December 31, 2017, we changed the composition of our reportable segments to align with revisions to our internal reporting structure and long-term strategic plans. As a result of this change, our modules segment, which was historically referred to as our components segment, includes module sales to third parties and excludes any module sales to our systems segment. Previously, we included an allocation of net sales value for all solar modules manufactured by our modules segment and installed in projects sold or built by our systems segment in the net sales of our modules segment. Our systems segment now includes all net sales from the sale of solar power systems and related products and services, including any modules installed in such systems and any revenue from energy generated by such systems. All prior period balances were revised to conform to the current year presentation.

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Net sales

Modules Business

We generally price and sell our solar modules per watt of nameplate power. During the three months ended September 30, 2018, we sold the majority of our solar modules to integrators and operators of systems in the United States, and during the nine months ended September 30, 2018, we sold the majority of our solar modules to integrators and operators of systems in the United States and Australia. Substantially all of our modules business net sales during the three and nine months ended September 30, 2018 were denominated in U.S. dollars. We recognize revenue for module sales at a point in time following the transfer of control of the modules to the customer, which typically occurs upon shipment or delivery depending on the terms of the underlying contracts.

Systems Business

Through our fully integrated systems business, 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. Additionally within our systems segment, we may temporarily own and operate certain of our systems for a period of time based on strategic opportunities or market factors. We typically recognize revenue for sales of solar power systems using cost based input methods, which result in revenue being recognized as work is performed based on the relationship between actual costs incurred compared to the total estimated costs for a given contract. We may also recognize revenue for the sale of a system after the project has been completed due to the timing of when we enter into the associated sales contract with the customer.

The following table shows net sales by reportable segment for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|------------------------|-------------------------------------|--------------|-----------------------|------------------------------------|--------------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Modules | \$ 119,825 | \$ 300,297 | \$(180,472) (60)% | \$ 386,450 | \$ 599,827 | \$(213,377) (36)% |
| Systems | 556,395 | 786,729 | (230,334) (29)% | 1,166,353 | 2,002,316 | (835,963) (42)% |
| Net sales | \$ 676,220 | \$ 1,087,026 | \$(410,806) (38)% | \$ 1,552,803 | \$ 2,602,143 | \$(1,049,340) (40)% |

Net sales from our modules segment decreased \$180.5 million for the three months ended September 30, 2018 compared to the three months ended September 30, 2017 primarily due to a 60% decrease in the volume of watts sold. Net sales from our systems segment decreased \$230.3 million for the three months ended September 30, 2018 compared to the three months ended September 30, 2017 primarily as a result of the sale of the California Flats project in 2017 relative to revenue recognized on the project in 2018 from ongoing construction activities and the sale of the Cuyama project in 2017, partially offset by the sale of the Willow Springs and Manildra projects, ongoing construction activities at the Rosamond project, and the completion of substantially all construction activities at the Balm Solar and Payne Creek projects.

Net sales from our modules segment decreased \$213.4 million for the nine months ended September 30, 2018 compared to the nine months ended September 30, 2017 primarily due to a 29% decrease in the volume of watts sold and a 10% decrease in the average selling price per watt. Net sales from our systems segment decreased \$836.0 million for the nine months ended September 30, 2018 compared to the nine months ended September 30, 2017 primarily due to the sale of the Moapa and Switch Station projects in 2017, which were substantially complete when we entered into the associated sales contracts with the customers, and the sale of the California Flats project in 2017 relative to revenue recognized on the project in 2018 from ongoing construction activities, partially offset by the sale

of the Rosamond, Willow Springs, Manildra, and certain India projects in 2018, and the completion of substantially all construction activities on the Balm Solar and Payne Creek projects in 2018.

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Cost of sales

Modules Business

Our modules business cost of sales includes the cost of raw materials and components for manufacturing solar modules, such as glass, transparent conductive coatings, CdTe and other thin film semiconductors, laminate materials, connector assemblies, edge seal materials, and frames. In addition, our cost of sales includes direct labor for the manufacturing of solar modules and manufacturing overhead, such as engineering, equipment maintenance, quality and production control, and information technology. Our cost of sales also includes depreciation of manufacturing plant and equipment, facility-related expenses, environmental health and safety costs, and costs associated with shipping, warranties, and solar module collection and recycling (excluding accretion).

Systems Business

For our systems business, project-related costs include development costs (legal, consulting, transmission upgrade, interconnection, permitting, and other similar costs), EPC costs (consisting primarily of solar modules, inverters, electrical and mounting hardware, project management and engineering costs, and construction labor costs), and site specific costs.

The following table shows cost of sales by reportable segment for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|------------------------|-------------------------------------|------------|-----------------------|------------------------------------|--------------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Modules | \$ 125,479 | \$ 263,255 | \$(137,776) (52)% | \$ 408,377 | \$ 513,513 | \$(105,136) (20)% |
| Systems | 421,614 | 531,971 | (110,357) (21)% | 850,559 | 1,601,753 | (751,194) (47)% |
| Total cost of sales | \$ 547,093 | \$ 795,226 | \$(248,133) (31)% | \$ 1,258,936 | \$ 2,115,266 | \$(856,330) (40)% |
| % of net sales | 80.9 | % 73.2 | % | 81.1 | % 81.3 | % |

Our cost of sales decreased \$248.1 million, or 31%, and increased 7.7 percentage points as a percent of net sales for the three months ended September 30, 2018 compared to the three months ended September 30, 2017. The decrease in cost of sales was driven by a \$110.4 million decrease in our systems segment cost of sales primarily due to the size of projects sold or under construction and the timing of when all revenue recognition criteria were met. The decrease in cost of sales was also driven by a \$137.8 million decrease in our modules segment cost of sales primarily due to the following:

- lower costs of \$160.7 million from a decrease in the volume of modules sold; and
- a reduction in our module collection and recycling liability of \$25.4 million in 2018 due to higher by-product credits for glass, lower capital costs, and adjustments to certain valuation assumptions; partially offset by higher under-utilization and certain other charges associated with the initial ramp of Series 6 manufacturing lines, which increased cost of sales by \$47.8 million; and
- a reduction in our module collection and recycling liability of \$13.5 million in 2017.

Our cost of sales decreased \$856.3 million, or 40%, and decreased 0.2 percentage points as a percent of net sales for the nine months ended September 30, 2018 compared to the nine months ended September 30, 2017. The decrease in cost of sales was driven by a \$751.2 million decrease in our systems segment cost of sales primarily due to the size of projects sold or under construction and the timing of when all revenue recognition criteria were met. The decrease in cost of sales was also driven by a \$105.1 million decrease in our modules segment cost of sales primarily as a result of

the following:

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lower costs of \$149.7 million from a decrease in the volume of modules sold;
 continued cost reductions in the cost per watt of our solar modules, which decreased cost of sales by \$18.6 million;
 and
 the net reduction in our module collection and recycling liability described above; partially offset by
 higher under-utilization and certain other charges associated with the initial ramp of certain Series 6 manufacturing
 lines, which increased cost of sales by \$68.8 million; and
 a reduction to our product warranty liability of \$12.5 million during the nine months ended September 30, 2017 due to
 lower legacy module replacement costs.

Gross profit

Gross profit may be affected by numerous factors, including the selling prices of our modules and systems, our manufacturing costs, project development costs, BoS costs, the capacity utilization of our manufacturing facilities, and foreign exchange rates. Gross profit may also be affected by the mix of net sales from our modules and systems businesses.

The following table shows gross profit for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|------------------------|-------------------------------------|------------|-----------------------|------------------------------------|------------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Gross profit | \$ 129,127 | \$ 291,800 | \$(162,673) (56)% | \$ 293,867 | \$ 486,877 | \$(193,010) (40)% |
| % of net sales | 19.1 | % 26.8 | % | 18.9 | % 18.7 | % |

Gross profit decreased 7.7 percentage points to 19.1% during the three months ended September 30, 2018 from 26.8% during the three months ended September 30, 2017 due to higher under-utilization and certain other charges associated with the initial ramp of certain Series 6 manufacturing lines and a mix of lower gross profit projects sold or under construction during the period, partially offset by the net reduction in our module collection and recycling liability described above.

Gross profit increased 0.2% to 18.9% during the nine months ended September 30, 2018 from 18.7% during the nine months ended September 30, 2017 primarily as a result of the settlement of a tax examination with the state of California, which affected our estimates of sales and use taxes due for certain projects, and the mix of higher gross profit projects sold or under construction during the period, partially offset by higher under-utilization and certain other charges associated with the initial ramp of certain Series 6 manufacturing lines and a decrease in the average selling price per watt of our modules sold directly to third parties. See Note 12. "Revenue from Contracts with Customers" to our condensed consolidated financial statements for additional information on the settlement of the tax examination.

Selling, general and administrative

Selling, general and administrative expense consists primarily of salaries and other personnel-related costs, professional fees, insurance costs, travel expenses, and other business development and selling expenses.

The following table shows selling, general and administrative expense for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | Nine Months Ended September 30, | |
|------------------------|-------------------------------------|------|------------------------------------|------|
| | 2018 | 2017 | 2018 | 2017 |

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| | Three Month Change | | | | Nine Month Change | | | |
|--|-----------------------|----------|------------|-------|----------------------|-----------|------------|-------|
| Selling, general and administrative | \$33,539 | \$50,546 | \$(17,007) | (34)% | \$125,519 | \$147,702 | \$(22,183) | (15)% |
| % of net sales | 5.0 | % 4.6 | % | | 8.1 | % 5.7 | % | |

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Selling, general and administrative expense for the three and nine months ended September 30, 2018 decreased compared to the three and nine months ended September 30, 2017 primarily due to lower expenses related to project sales, lower accretion expense associated with the reduction in our module collection and recycling liability described above, lower employee compensation expense, and lower business development expense. This decrease was partially offset by higher charges for impairments of certain project assets during the nine months ended September 30, 2018.

Research and development

Research and development expense consists primarily of salaries and other personnel-related costs; the cost of products, materials, and outside services used in our process and product R&D activities; and depreciation and amortization expense associated with R&D specific facilities and equipment. We maintain a number of programs and activities to improve our technology and processes in order to enhance the performance and reduce the costs of our solar modules and systems.

The following table shows research and development expense for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|--------------------------|-------------------------------------|----------|--------------------------|------------------------------------|----------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Research and development | \$22,390 | \$20,850 | \$1,540 | \$63,084 | \$64,990 | \$(1,906) |
| % of net sales | 3.3 | % 1.9 | % 7% | 4.1 | % 2.5 | % (3)% |

Research and development expense for the three and nine months ended September 30, 2018 was consistent with the three and nine months ended September 30, 2017.

Production start-up

Production start-up expense consists primarily of employee compensation and other costs associated with operating a production line before it has been qualified for full production, including the cost of raw materials for solar modules run through the production line during the qualification phase and applicable facility related costs. Costs related to equipment upgrades and implementation of manufacturing process improvements are also included in production start-up expense as well as costs related to the selection of a new site, related legal and regulatory costs, and costs to maintain our plant replication program to the extent we cannot capitalize these expenditures. In general, we expect production start-up expense per production line to be higher when we build an entirely new manufacturing facility compared with the addition or replacement of production lines at an existing manufacturing facility, primarily due to the additional infrastructure investment required when building an entirely new facility.

The following table shows production start-up expense for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|------------------------|-------------------------------------|----------|-----------------------|------------------------------------|----------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Production start-up | \$14,723 | \$12,624 | \$2,099 | \$76,159 | \$22,155 | \$54,004 |
| % of net sales | 2.2 | % 1.2 | % 17% | 4.9 | % 0.9 | % 244% |

During the three and nine months ended September 30, 2018, we incurred production start-up expense for the commencement of Series 6 module manufacturing at our facility in Ho Chi Minh City, Vietnam. We also incurred production start-up expense for the transition to Series 6 module manufacturing at our facilities in Kulim, Malaysia and Perrysburg, Ohio in 2017 and early 2018.

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Restructuring and asset impairments

Restructuring and asset impairments consists of expenses incurred related to material restructuring initiatives and includes any associated asset impairments, costs for employee termination benefits, costs for contract terminations and penalties, and other restructuring related costs. Such restructuring initiatives are intended to align the organization with then current business conditions and to reduce costs.

The following table shows restructuring and asset impairments for the three and nine months ended September 30, 2018 and 2017:

| | Three Months Ended September 30, | | Three Month Change | Nine Months Ended September 30, | | Nine Month Change |
|-------------------------------------|----------------------------------|-------|--------------------|---------------------------------|----------|-------------------|
| | 2018 | 2017 | | 2018 | 2017 | |
| (Dollars in thousands) | | | | | | |
| Restructuring and asset impairments | \$— | \$791 | \$(791) (100)% | \$— | \$39,108 | \$(39,108) (100)% |
| % of net sales | —% | 0.1 % | | —% | 1.5 % | |

During the three and nine months ended September 30, 2017 we incurred restructuring and asset impairment charges associated with our transition to Series 6 module manufacturing. Such charges included net losses on the disposition of previously impaired Series 4 and Series 5 manufacturing equipment, severance benefits to terminated employees, and net miscellaneous charges, primarily related to contract terminations, the write-off of operating supplies, and other Series 4 manufacturing exit costs. See Note 3. “Restructuring and Asset Impairments” to our condensed consolidated financial statements for additional information.

Foreign currency loss, net

Foreign currency loss, net consists of the net effect of gains and losses resulting from holding assets and liabilities and conducting transactions denominated in currencies other than our subsidiaries’ functional currencies.

The following table shows foreign currency gain (loss), net for the three and nine months ended September 30, 2018 and 2017:

| | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|----------------------------|----------------------------------|-----------|--------------------|---------------------------------|-----------|-------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| (Dollars in thousands) | | | | | | |
| Foreign currency loss, net | \$(2,383) | \$(3,968) | \$1,585 (40)% | \$(2,478) | \$(6,166) | \$3,688 (60)% |

Foreign currency loss, net for the three and nine months ended September 30, 2018 decreased compared to the three and nine months ended September 30, 2017 primarily due to lower costs associated with hedging activities related to our subsidiaries in Japan and India, partially offset by differences between our economic hedge positions and the underlying exposures and the strengthening of the U.S. dollar relative to certain foreign currencies.

Interest income

Interest income is earned on our cash, cash equivalents, marketable securities, and restricted cash and investments. Interest income also includes interest earned from notes receivable and late customer payments.

The following table shows interest income for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months | | | Nine Months | | |
|------------------------|--------------|---------|-------------|-------------|----------|---------------|
| | 2018 | 2017 | Change | 2018 | 2017 | Change |
| Interest income | \$16,456 | \$8,392 | \$8,064 96% | \$45,145 | \$22,364 | \$22,781 102% |

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Interest income for the three and nine months ended September 30, 2018 increased compared to the three and nine months ended September 30, 2017 primarily due to higher time deposit balances and increased interest rates associated with cash, cash equivalents, and marketable securities.

Interest expense, net

Interest expense, net is primarily comprised of interest incurred on long-term debt, settlements of interest rate swap contracts, and changes in the fair value of interest rate swap contracts that do not qualify for hedge accounting in accordance with ASC 815. We may capitalize interest expense into our project assets or property, plant and equipment when such costs qualify for interest capitalization, which reduces the amount of net interest expense reported in any given period.

The following table shows interest expense, net for the three and nine months ended September 30, 2018 and 2017:

| | Three Months Ended September 30, | | Three Month Change | Nine Months Ended September 30, | | Nine Month Change |
|------------------------|----------------------------------|-----------|--------------------|---------------------------------|------------|-------------------|
| | 2018 | 2017 | | 2018 | 2017 | |
| (Dollars in thousands) | | | | | | |
| Interest expense, net | \$(3,198) | \$(4,149) | \$951 (23)% | \$(14,445) | \$(19,692) | \$5,247 (27)% |

Interest expense, net for the three months ended September 30, 2018 was consistent with the three months ended September 30, 2017. Interest expense, net for the nine months ended September 30, 2018 decreased compared to the nine months ended September 30, 2017 primarily due to changes in the fair value of interest rate swap contracts, which do not qualify for hedge accounting, and higher interest costs capitalized to certain projects under construction, partially offset by higher levels of project specific debt financings.

Other (loss) income, net

Other (loss) income, net is primarily comprised of miscellaneous items and realized gains and losses on the sale of marketable securities and restricted investments.

The following table shows other income, net for the three and nine months ended September 30, 2018 and 2017:

| | Three Months Ended September 30, | | Three Month Change | Nine Months Ended September 30, | | Nine Month Change |
|--------------------------|----------------------------------|---------|--------------------|---------------------------------|----------|-------------------|
| | 2018 | 2017 | | 2018 | 2017 | |
| (Dollars in thousands) | | | | | | |
| Other (loss) income, net | \$(5,971) | \$2,018 | \$(7,989) (396)% | \$7,635 | \$25,180 | \$(17,545) (70)% |

Other (loss) income, net for the three months ended September 30, 2018 decreased compared to the three months ended September 30, 2017 primarily due to higher withholding taxes on certain payments by our foreign subsidiaries, the impairment of our warrant to purchase additional ownership interests in CEC, as described in Note 9. "Equity Method Investments" to our condensed consolidated financial statements, and the reversal of certain contingent consideration associated with a prior business acquisition during the three months ended September 30, 2017.

Other (loss) income, net for the nine months ended September 30, 2018 decreased compared to the nine months ended September 30, 2017 primarily due to a \$26.8 million settlement from the resolution of an outstanding matter with a former customer in 2017 and the various matters described above, partially offset by realized gains of \$19.5 million in

2018 from the sale of certain restricted investments.

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Income tax (expense) benefit

In December 2017, the U.S. President signed into law the Tax Act, which significantly revised U.S. tax law by, among other things, lowering the statutory federal corporate income tax rate from 35% to 21% for tax years beginning after December 31, 2017, eliminating certain deductions, imposing a mandatory one-time transition tax on certain accumulated earnings and profits of foreign corporate subsidiaries, introducing new tax regimes, and changing how foreign earnings are subject to U.S. tax.

During 2017, we recognized certain provisional tax expenses associated with the Tax Act. The final effects of the Tax Act may differ from such provisional amounts, possibly materially, due to, among other things, changes in interpretations of the Tax Act, any legislative action to address questions that arise because of the Tax Act, any changes in accounting standards for income taxes or related interpretations in response to the Tax Act, any updates or changes to estimates utilized to calculate provisional amounts, or actions we may take as a result of the Tax Act. The associated accounting for the Tax Act is expected to be completed when our various 2017 U.S. corporate income tax returns are filed in late 2018 and certain proposed transition tax regulations are published in final form.

Income tax expense or benefit, deferred tax assets and liabilities, and liabilities for unrecognized tax benefits reflect our best estimate of current and future taxes to be paid. We are subject to income taxes in both the U.S. and numerous foreign jurisdictions in which we operate, principally Australia, India, and Malaysia. Significant judgments and estimates are required to determine our consolidated income tax expense. The statutory federal corporate income tax rate in the U.S. decreased from 35% to 21% beginning in January 2018, while the tax rates in Australia, India, and Malaysia are 30%, 34.9%, and 24%, respectively. In Malaysia, we have been granted a long-term tax holiday, scheduled to expire in 2027, pursuant to which substantially all of our income earned in Malaysia is exempt from income tax, conditional upon our continued compliance with certain employment and investment thresholds.

The following table shows income tax expense for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | |
|------------------------------|-------------------------------------|-----------|-----------------------|------------------------------------|----------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | Nine Month Change |
| Income tax (expense) benefit | \$(2,396) | \$(7,580) | \$5,184 (68)% | \$(7,857) | \$26,769 | \$(34,626) (129)% |
| Effective tax rate | 3.8 | % 3.6 | % | 12.1 | % (11.4) |)% |

Our tax rate is affected by recurring items, such as tax rates in foreign jurisdictions and the relative amounts of income we earn in those jurisdictions. The rate is also affected by discrete items that may occur in any given period, but are not consistent from period to period. Income tax expense decreased by \$5.2 million during the three months ended September 30, 2018 compared to the three months ended September 30, 2017 primarily due to lower pretax income, partially offset by a lower tax benefit from the expiration of the statute of limitations on uncertain tax positions. Income tax expense increased by \$34.6 million during the nine months ended September 30, 2018 compared to the nine months ended September 30, 2017 primarily due to a \$42.1 million discrete tax benefit in 2017 associated with our election to classify certain of our German subsidiaries as disregarded entities of First Solar, Inc. and interest and penalties related to various uncertain tax positions, partially offset by lower pretax income and higher excess tax benefits associated with share-based compensation.

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Equity in earnings, net of tax

Equity in earnings, net of tax represents our proportionate share of the earnings or losses from equity method investments as well as any gains or losses on the sale or disposal of such investments.

The following table shows equity in earnings, net of tax for the three and nine months ended September 30, 2018 and 2017:

| (Dollars in thousands) | Three Months Ended September 30, | | | Nine Months Ended September 30, | | Nine Month Change |
|--------------------------------|--|---------|-----------------------|---------------------------------------|---------|----------------------|
| | 2018 | 2017 | Three Month Change | 2018 | 2017 | |
| Equity in earnings, net of tax | \$(3,233) | \$4,045 | \$(7,278) (180)% | \$35,105 | \$5,462 | \$29,643 543% |

Equity in earnings, net of tax for the three months ended September 30, 2018 decreased compared to the three months ended September 30, 2017, primarily due to the sale of our ownership interests in 8point3 Operating Company, LLC in June 2018. Equity in earnings, net of tax for the nine months ended September 30, 2018 increased compared to the nine months ended September 30, 2017 due to the aforementioned sale, which resulted in a gain of \$40.3 million, net of tax. See Note 9. "Equity Method Investments" to our condensed consolidated financial statements for additional information.

Critical Accounting Policies and Estimates

In preparing our condensed consolidated financial statements in conformity with U.S. GAAP, we make estimates and assumptions that affect the amounts of reported assets, liabilities, revenues, and expenses, as well as the disclosure of contingent liabilities. Some of our accounting policies require the application of significant judgment in the selection of the appropriate assumptions for making these estimates. By their nature, these judgments are subject to an inherent degree of uncertainty. We base our judgments and estimates on our historical experience, our forecasts, and other available information as appropriate. We believe the judgments and estimates involved in over time revenue recognition, accrued solar module collection and recycling, product warranties, accounting for income taxes, long-lived asset impairments, and testing goodwill for impairment have the greatest potential impact on our condensed consolidated financial statements. The actual results experienced by us may differ materially and adversely from our estimates. To the extent there are material differences between our estimates and the actual results, our future results of operations will be affected.

For a description of the accounting policies that require the most significant judgment and estimates in the preparation of our condensed consolidated financial statements, refer to our Annual Report on Form 10-K for the year ended December 31, 2017. There have been no material changes to our accounting policies during the nine months ended September 30, 2018.

Recent Accounting Pronouncements

See Note 2. "Recent Accounting Pronouncements" to our condensed consolidated financial statements for a summary of recent accounting pronouncements.

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Liquidity and Capital Resources

As of September 30, 2018, we believe that our cash, cash equivalents, marketable securities, cash flows from operating activities, advanced-stage project pipeline, availability under our Revolving Credit Facility considering minimum liquidity covenant requirements, and access to the capital markets will be sufficient to meet our working capital, systems project investment, and capital expenditure needs for at least the next 12 months. We monitor our working capital to ensure we have adequate liquidity, both domestically and internationally.

We intend to maintain appropriate debt levels based upon cash flow expectations, our overall cost of capital, and expected cash requirements for operations, capital expenditures, and strategic discretionary spending. In the future, we may also engage in additional debt or equity financings, including project specific debt financings. We believe that when necessary, we will have adequate access to the capital markets, although our ability to raise capital on terms commercially acceptable to us could be constrained if there is insufficient lender or investor interest due to industry-wide or company-specific concerns. Such financings could result in increased debt service expenses, dilution to our existing stockholders, or restrictive covenants which could restrain our ability to pursue our strategic plans. As of September 30, 2018, we were in compliance with the covenants for all of our long-term debt facilities with the exception of certain administrative covenants, which were subsequently cured.

As of September 30, 2018, we had \$2.7 billion in cash, cash equivalents, and marketable securities compared to \$3.0 billion as of December 31, 2017. Cash, cash equivalents, and marketable securities as of September 30, 2018 decreased primarily as a result of purchases of property, plant and equipment and operating expenditures associated with the initial ramp of certain Series 6 manufacturing lines, partially offset by proceeds associated with the sale of our interests in the Partnership and its subsidiaries and net proceeds from borrowings under project specific debt financings. As of September 30, 2018 and December 31, 2017, \$1.1 billion and \$1.6 billion, respectively, of our cash, cash equivalents, and marketable securities was held by our foreign subsidiaries and was primarily based in U.S. dollar, Japanese yen, and Euro denominated holdings.

We utilize a variety of tax planning and financing strategies in an effort to ensure that our worldwide cash is available in the locations in which it is needed. If certain international funds were needed for our operations in the U.S., we may be required to accrue and pay certain U.S. and foreign taxes to repatriate such funds. Although we maintain the intent and ability to permanently reinvest our accumulated earnings outside of the U.S., with the exception of our subsidiaries in Canada and Germany, we continue to evaluate how the Tax Act may affect our plans to repatriate additional amounts to fund our domestic operations or otherwise deploy our worldwide cash. In addition, changes to foreign government banking regulations may restrict our ability to move funds among various jurisdictions under certain circumstances, which could negatively impact our access to capital, resulting in an adverse effect on our liquidity and capital resources.

Our systems business requires significant liquidity and is expected to continue to have significant liquidity requirements in the future. The net amount of our project assets and related portion of deferred revenue, which approximates our net capital investment in the development and construction of systems projects, was \$0.4 billion as of September 30, 2018. Solar power project development and construction cycles, which span the time between the identification of a site location and the commercial operation of a system, vary substantially and can take many years to mature. As a result of these long project cycles and strategic decisions to finance the construction of certain projects using our working capital, we may need to make significant up-front investments of resources in advance of the receipt of any cash from the sale of such projects. Delays in construction or in completing the sale of our systems projects that we are self-financing may also impact our liquidity. In certain circumstances, we may need to finance construction costs exclusively using working capital, if project financing becomes unavailable due to market-wide, regional, or other concerns.

From time to time, we may develop projects in certain markets around the world where we may hold all or a significant portion of the equity in a project for several years. Given the duration of these investments and the currency risk relative to the U.S. dollar in some of these markets, we continue to explore local financing alternatives. Should these financing alternatives be unavailable or too cost prohibitive, we could be exposed to significant currency risk and our liquidity could be adversely impacted.

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Additionally, we may elect to retain an ownership interest in certain systems projects after they become operational if we determine it would be of economic and strategic benefit to do so. If, for example, we cannot sell a systems project at economics that are attractive to us or potential customers are unwilling to assume the risks and rewards typical of PV solar power system ownership, we may instead elect to temporarily own and operate such systems until we can sell the systems on economically attractive terms. The decision to retain ownership of a system impacts liquidity depending upon the size and cost of the project. As of September 30, 2018, we had \$0.3 billion of net PV solar power systems that had been placed in service, primarily in international markets. We have elected, and may in the future elect, to enter into temporary or long-term project financing to reduce the impact on our liquidity and working capital with regards to such projects and systems. We may also consider entering into tax equity or other arrangements with respect to ownership interests in certain of our projects, which could cause a portion of the economics of such projects to be realized over time.

The following additional considerations have impacted or may impact our liquidity for the remainder of 2018 and beyond:

We expect to make significant capital investments over the next several years as we transition our production to Series 6 module technology and purchase the related manufacturing equipment and infrastructure. These investments also include the commencement and expansion of operations at our existing manufacturing plant in Vietnam and the construction of an additional U.S. manufacturing plant in Lake Township, Ohio. We expect the aggregate capital investment for currently planned Series 6 related programs to be approximately \$1.9 billion, including \$1.0 billion of capital expenditures already made as of September 30, 2018. These capital investments are expected to provide an annual Series 6 manufacturing capacity of approximately 6.6 GW once completed. During the remainder of 2018, we expect to spend \$200 million to \$300 million for capital expenditures, the majority of which is associated with the Series 6 transition. We believe these capital expenditures will, over time, increase our aggregate manufacturing capacity, reduce our manufacturing costs, increase our solar module conversion efficiencies, and reduce the overall cost of systems using our modules.

Our failure to obtain raw materials and components that meet our quality, quantity, and cost requirements in a timely manner could interrupt or impair our ability to manufacture our solar modules or increase our manufacturing costs. Accordingly, we may enter into long-term supply agreements to mitigate potential risks related to the procurement of key raw materials and components, and such agreements may be noncancelable or cancelable with a significant penalty. For example, we have entered into long-term supply agreements for the purchase of \$2.4 billion of substrate glass and \$500 million of cover glass for our PV solar modules. Such agreements include aggregate termination penalties up to \$430 million, which decline over time during the respective supply periods.

The balance of our solar module inventories and BoS parts was \$233.8 million as of September 30, 2018. As we continue to develop and construct our advanced-stage project pipeline, we must produce solar modules and procure BoS parts in volumes sufficient to support our planned construction schedules. As part of this construction cycle, we typically produce or procure these inventories in advance of receiving payment for such materials, which may temporarily reduce our liquidity. Once solar modules and BoS parts are installed in a project, they are classified as either project assets, PV solar power systems, or cost of sales depending on whether the project is subject to a definitive sales contract and whether other revenue recognition criteria have been met. We also produce significant volumes of modules for sale directly to third-parties, which requires us to carry inventories at levels sufficient to satisfy the demand of our customers and the needs of their utility-scale projects, which may also temporarily reduce our liquidity.

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We may commit significant working capital over the next several years to advance the construction of various U.S. systems projects or procure the associated BoS parts by specified dates for such projects to qualify for certain federal investment tax credits. Among other requirements, such credits require projects to commence construction in 2019 to receive a 30% investment tax credit. The credit will step down to 26% for projects that commence construction in 2020, 22% for projects that commence construction in 2021, and then remain at 10% thereafter.

We may also commit working capital to acquire solar power projects in various stages of development, including advanced-stage projects with PPAs, and to continue developing those projects as necessary. Depending upon the size and stage of development, the costs to acquire such solar power projects could be significant. When evaluating project acquisition opportunities, we consider both the strategic and financial benefits of any such acquisitions.

Cash Flows

The following table summarizes the key cash flow activity for the nine months ended September 30, 2018 and 2017 (in thousands):

| | Nine Months Ended | |
|---|-------------------|------------|
| | September 30, | |
| | 2018 | 2017 |
| Net cash (used in) provided by operating activities | \$(141,310) | \$906,719 |
| Net cash used in investing activities | (795,723) | (403,959) |
| Net cash provided by financing activities | 143,183 | 151,606 |
| Effect of exchange rate changes on cash, cash equivalents and restricted cash | (12,454) | 9,420 |
| Net (decrease) increase in cash, cash equivalents and restricted cash | \$(806,304) | \$663,786 |

Operating Activities

The decrease in net cash provided by operating activities was primarily driven by lower cash proceeds from sales of systems projects, including the sales of the Moapa, California Flats, and Switch Station projects in 2017, and operating expenditures associated with our ongoing transition to Series 6 module manufacturing.

Investing Activities

The increase in net cash used in investing activities was primarily due to an increase in net purchases of marketable securities and restricted investments and higher purchases of property, plant and equipment driven by our transition to Series 6 module manufacturing, partially offset by proceeds associated with the sale of our interests in the Partnership and its subsidiaries.

Financing Activities

The decrease in net cash provided by financing activities was primarily the result of lower proceeds from commercial letters of credit for the construction of certain projects in India, partially offset by higher net proceeds from borrowings under our long-term debt arrangements associated with the construction of certain projects in Australia, Japan, and India and lower payments for contingent obligations associated with the acquisition of certain projects in Japan.

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Contractual Obligations

Our contractual obligations have not materially changed since December 31, 2017 with the exception of borrowings under project specific debt financings, certain glass supply agreements entered into in April and March 2018, and other changes in the ordinary course of business. See Note 10. “Debt” and Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for more information related to the changes in our long-term debt and purchase commitments, respectively. See also our Annual Report on Form 10-K for the year ended December 31, 2017 for additional information regarding our contractual obligations.

Off-Balance Sheet Arrangements

As of September 30, 2018, we had no off-balance sheet debt or similar obligations, other than financial assurance related instruments and operating leases, which are not classified as debt. We do not guarantee any third-party debt. See Note 11. “Commitments and Contingencies” to our condensed consolidated financial statements for further information about our financial assurance related instruments.

Item 3. Quantitative and Qualitative Disclosures about Market Risk

There have been no material changes to the information previously provided under Item 7A. of our Annual Report on Form 10-K for the year ended December 31, 2017.

Item 4. Controls and Procedures

Evaluation of Disclosure Controls and Procedures

We carried out an evaluation, under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer, of the effectiveness of our “disclosure controls and procedures” as defined in Exchange Act Rule 13a-15(e) and 15d-15(e). Based on that evaluation, our Chief Executive Officer and Chief Financial Officer concluded that as of September 30, 2018 our disclosure controls and procedures were effective to ensure that information required to be disclosed by us in reports that we file or submit under the Exchange Act is recorded, processed, summarized, and reported within the time periods specified in SEC rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure.

Changes in Internal Control over Financial Reporting

We also carried out an evaluation, under the supervision and with the participation of management, including our Chief Executive Officer and Chief Financial Officer, of our “internal control over financial reporting” as defined in Exchange Act Rule 13a-15(f) and 15d-15(f) to determine whether any changes in our internal control over financial reporting occurred during the three months ended September 30, 2018 that materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

In July 2018, we upgraded our existing enterprise resource planning system. We expect this upgrade to simplify and improve the overall performance of our information systems. With the exception of this upgrade, there were no other changes in our internal control over financial reporting identified by our evaluation.

CEO and CFO Certifications

We have attached as exhibits to this Quarterly Report on Form 10-Q the certifications of our Chief Executive Officer and Chief Financial Officer, which are required in accordance with the Exchange Act. We recommend that this Item 4. be read in conjunction with those certifications for a more complete understanding of the subject matter presented.

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Limitations on the Effectiveness of Controls

Control systems, no matter how well designed and operated, can provide only reasonable, not absolute, assurance that the control systems' objectives are being met. Further, the design of any system of controls must reflect the fact that there are resource constraints, and the benefits of all controls must be considered relative to their costs. Because of the inherent limitations in all control systems, no evaluation of controls can provide absolute assurance that all control issues and instances of fraud, if any, within our Company have been detected. These inherent limitations include the realities that judgments in decision-making can be faulty and that breakdowns can occur because of error or mistake. Control systems can also be circumvented by the individual acts of some persons, by collusion of two or more people, or by management override of the controls. The design of any system of controls is also based in part upon certain assumptions about the likelihood of future events, and there can be no assurance that any design will succeed in achieving its stated goals under all potential future conditions. Over time, controls may become inadequate because of changes in conditions or deterioration in the degree of compliance with policies or procedures.

PART II. OTHER INFORMATION

Item 1. Legal Proceedings

See Note 11. "Commitments and Contingencies" under the heading "Legal Proceedings" of our condensed consolidated financial statements for legal proceedings and related matters.

Item 1A. Risk Factors

In addition to the other information set forth in this report, you should carefully consider the factors discussed in Item 1A. "Risk Factors" of our Annual Report on Form 10-K for the year ended December 31, 2017 and subsequent Quarterly Reports on Form 10-Q, which could materially affect our business, financial condition, results of operations, or cash flows. The risks described in our Annual Report on Form 10-K and in our subsequent Quarterly Reports on Form 10-Q are not the only risks we face. Additional risks and uncertainties not currently known to us or that we currently consider immaterial may also materially adversely affect our business, financial condition, results of operations, or cash flows. There have been no material changes in the risk factors contained in our Annual Report on Form 10-K or in our subsequent Quarterly Reports on Form 10-Q.

Item 5. Other Information

None.

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Item 6. Exhibits

The following exhibits are filed with this Quarterly Report on Form 10-Q:

| Exhibit Number | Exhibit Description |
|-------------------|--|
| <u>31.01</u> | <u>Certification of Chief Executive Officer pursuant to 15 U.S.C. Section 7241, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| <u>31.02</u> | <u>Certification of Chief Financial Officer pursuant to 15 U.S.C. Section 7241, as adopted pursuant to Section 302 of the Sarbanes-Oxley Act of 2002</u> |
| <u>32.01*</u> | <u>Certification of Chief Executive Officer and Chief Financial Officer pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002</u> |
| 101.INS | XBRL Instance Document |
| 101.SCH | XBRL Taxonomy Extension Schema Document |
| 101.CAL | XBRL Taxonomy Extension Calculation Linkbase Document |
| 101.DEF | XBRL Taxonomy Extension Definition Linkbase Document |
| 101.LAB | XBRL Taxonomy Label Linkbase Document |
| 101.PRE | XBRL Taxonomy Extension Presentation Linkbase Document |

This exhibit shall not be deemed “filed” for purposes of Section 18 of the Exchange Act or otherwise subject to the liabilities of that section, nor shall it be deemed incorporated by reference in any filing under the Securities Act or the Exchange Act, whether made before or after the date hereof and irrespective of any general incorporation language in such filings.

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SIGNATURE

Pursuant to the requirements of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned thereunto duly authorized.

FIRST SOLAR, INC.

Date: October 25, 2018 By: /s/ BRYAN SCHUMAKER
Name: Bryan Schumaker
Title: Chief Accounting Officer