

Sunrun Inc.  
Form 10-K  
March 11, 2016

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-K

(Mark One)

ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934  
For the fiscal year ended December 31, 2015

OR

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT  
OF 1934  
Commission File Number 001-37511

Sunrun Inc.

(Exact name of Registrant as specified in its Charter)

Delaware (State or other jurisdiction of incorporation or organization)	26-2841711  (I.R.S. Employer Identification No.)
595 Market Street, 29th Floor	
San Francisco, California (Address of principal executive offices)	94105 (Zip Code)

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Registrant's telephone number, including area code: (415) 580-6900

Securities registered pursuant to Section 12(b) of the Act: Common Stock, Par Value \$0.0001 Per Share; Common stock traded on the NASDAQ Global Select Stock Market

Securities registered pursuant to Section 12(g) of the Act: None

Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.

YES  NO

Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or 15(d) of the Act.

YES  NO

Indicate by check mark whether the Registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.

YES  NO

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

Indicate by check mark if disclosure of delinquent filers pursuant to Item 405 of Regulation S-K (§229.405) is not contained herein, and will not be contained, to the best of Registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K.

Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definition of "large accelerated filer", "accelerated filer", and "smaller reporting company" in Rule 12b-2 of the Exchange Act. (Check one):

Large accelerated filer  Accelerated filer

Non-accelerated filer  (Do not check if a small reporting company) Small reporting company

Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).

YES  NO

The aggregate market value of the voting and non-voting common equity held by non-affiliates of the Registrant, based on the closing price of the shares of common stock on The NASDAQ Stock Market on August 5, 2015, was approximately \$371.9 million. The Registrant has elected to use August 5, 2015, which was the initial trading date on the NASDAQ Global Select Market, as the calculation date because June 30, 2015 (the last business day of the Registrant's most recently completed second fiscal quarter), the Registrant was a privately held company.

The number of shares of Registrant's Common Stock outstanding as of March 8, 2016 was 101,495,385.

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Portions of the information called for by Part III of this Form 10-K is hereby incorporated by reference from the definitive Proxy Statements for our annual meeting of stockholders, which will be filed with the Securities and Exchange Commission not later than 120 days after December 31, 2015.

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## Table of Contents

	Page
PART I	
Item 1. <u>Business</u>	3
Item 1A. <u>Risk Factors</u>	9
Item 1B. <u>Unresolved Staff Comments</u>	36
Item 2. <u>Properties</u>	36
Item 3. <u>Legal Proceedings</u>	36
Item 4. <u>Mine Safety Disclosures</u>	37
PART II	
Item 5. <u>Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities</u>	38
Item 6. <u>Selected Financial Data</u>	40
Item 7. <u>Management’s Discussion and Analysis of Financial Condition and Results of Operations</u>	42
Item 7A. <u>Quantitative and Qualitative Disclosures About Market Risk</u>	67
Item 8. <u>Financial Statements and Supplementary Data</u>	68
Item 9. <u>Changes in and Disagreements With Accountants on Accounting and Financial Disclosure</u>	116
Item 9A. <u>Controls and Procedures</u>	116
Item 9B. <u>Other Information</u>	116
PART III	
Item 10. <u>Directors, Executive Officers and Corporate Governance</u>	117
Item 11. <u>Executive Compensation</u>	117
Item 12. <u>Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters</u>	117
Item 13. <u>Certain Relationships and Related Transactions, and Director Independence</u>	117
Item 14. <u>Principal Accounting Fees and Services</u>	117
PART IV	
Item 15. <u>Exhibits, Financial Statement Schedules</u>	118

## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

The discussion in this Annual Report on Form 10-K contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), which statements involve substantial risks and uncertainties. Forward-looking statements generally relate to future events or our future financial or operating performance. In some cases, you can identify forward-looking statements because they contain words such as “may,” “will,” “should,” “expects,” “plans,” “anticipate,” “could,” “intends,” “target,” “projects,” “contemplates,” “believes,” “estimates,” “predicts,” “potential” or “continue” or the use of these words or other similar terms or expressions that concern our expectations, strategy, plans or intentions. Forward-looking statements contained in this Annual Report on Form 10-K include, but are not limited to, statements about:

- our ability to finance solar energy systems through financing arrangements with fund or other investors;
- our ability and intent to establish new investment funds;
- our dependence on the availability of rebates, tax credits and other financial incentives;
- determinations by the Internal Revenue Service or the U.S. Treasury Department of the fair market value of our solar energy systems;
- the retail price of utility-generated electricity or electricity from other energy sources;
- regulatory and policy development and changes;
- our ability to maintain an adequate rate of revenue growth;
- the sufficiency of our cash, investments fund commitments and available borrowings to meet our anticipated cash needs;
- our business plan and our ability to effectively manage our growth;
- our ability to further penetrate existing markets and expand into new markets;
- our expectations concerning relationships with third parties, including the attraction and retention of qualified channel partners;
- the impact of seasonality of our business
- our investment in research and development; and
- the calculation of certain of our key financial and operating metrics and accounting policies.

These forward-looking statements are subject to a number of risks, uncertainties and assumptions, including those described in the section titled “Risk Factors” and elsewhere in this Annual Report on Form 10-K. Moreover, we operate in a very competitive and rapidly changing environment, and new risks emerge from time to time. It is not possible for our management to predict all risks, nor can we assess the impact of all factors on our business or the extent to which any factor, or combination of factors, may cause actual results to differ materially from those contained in any forward-looking statements we may make. In light of these risks, uncertainties and assumptions, the forward-looking events and circumstances discussed in this Annual Report on Form 10-K may not occur and actual results could differ materially and adversely from those anticipated or implied in the forward-looking statements.

You should not rely upon forward-looking statements as predictions of future events. Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, levels of activity, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. Moreover, neither we nor any other person assumes responsibility for the accuracy and completeness of the forward-looking statements. We undertake no obligation to update publicly any forward-looking statements for any reason after the date of this Annual Report on Form 10-K to conform these statements to actual results or to changes in our expectations, except as required by law.

You should read this Annual Report on Form 10-K and the documents that we reference in this Annual Report on Form 10-K and have filed with the SEC as exhibits to this Annual Report on Form 10-K with the understanding that our actual future results, levels of activity, performance, and events and circumstances may be materially different from what we expect.

## PART I

### Item 1. Business.

#### Overview

Sunrun's mission is to provide homeowners with clean, affordable solar energy and a best-in-class customer experience. In 2007, we pioneered the residential solar service model, creating a hassle-free, low-cost solution for homeowners seeking to lower their energy bills. By removing the high initial cost and complexity that used to define the residential solar industry, we have fostered the industry's rapid growth and exposed an enormous market opportunity. Our relentless drive to increase the accessibility of solar energy is fueled by our enduring vision: to create a planet run by the sun.

We provide clean, solar energy to homeowners at a significant savings to traditional utility energy. After inventing the residential solar service model and recognizing its enormous market potential, we have built the infrastructure and capabilities necessary to rapidly acquire and serve customers in a low-cost and scalable manner. Today, our scalable operating platform provides us with a number of unique advantages. First, we are able to drive distribution by marketing our solar service offerings through multiple channels, including our diverse partner network and direct-to-consumer operations. This multi-channel model supports broad sales and installation capabilities, which together allow us to achieve capital-efficient growth. Second, we are able to provide differentiated solutions to our customers that, combined with a great customer experience, we believe will drive meaningful margin advantages for us over the long term as we strive to create the industry's most valuable and satisfied customer base.

Our core solar service offerings are provided through our customer agreements (leases and PPAs) which provide homeowners with simple, predictable pricing for solar energy that is insulated from rising retail electricity prices. While homeowners have the option to purchase a solar energy system outright from us, most of our customers choose to buy solar as a service from us through our solar service offerings and enjoy the flexibility and savings that come from purchasing solar energy without the significant upfront investment of purchasing a solar energy system. With our solar service offerings, we install solar energy systems on our customers' homes and provide them the solar power produced by those systems for a 20-year initial term. In addition, we monitor, maintain and insure the system at no additional cost during the term of the contract. In exchange, we receive 20 years of predictable cash flows from high credit quality customers and qualify for tax and other benefits. We finance portions of these tax benefits and cash flows through tax equity and non-recourse debt structures in order to fund our upfront costs, overhead and growth investments. We develop valuable customer relationships that can extend beyond this initial contract term and provide us an opportunity to offer additional services in the future.

Since our founding we have continued to invest in a platform of services and tools to enable large scale operations for us and our partner network. The platform includes processes and software, as well as fulfillment through AEE Solar, racking through SnapNrack and acquisition marketing through Clean Energy Experts, LLC ("CEE"). We believe our platform empowers new market entrants and smaller industry participants to profitably serve our large and underpenetrated market without making the significant investments in technology and infrastructure required to compete effectively against established industry players by improving efficiencies and driving down system-wide costs. Our platform provides the support for our multi-channel model, which drives broad customer reach and capital-efficient growth.

Delivering a differentiated customer experience is core to our strategy. We emphasize a customized solution, including a design specific to each customer's home and pricing configurations that typically drive both customer savings and value to us. We believe that our passion for engaging our customers, developing a trusted brand, and providing a customized solar service offering resonates with our customers who are accustomed to a traditional residential power market that is often overpriced and lacking in customer choice.

3

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We have experienced substantial growth in our business and operations since our inception in 2007. As of December 31, 2015, we operated the second largest fleet of residential solar energy systems in the United States, with approximately 111,000 customers across 15 states, as well as the District of Columbia. We have deployed an aggregate of 596.2 megawatts (“MW”) as of December 31, 2015. As of December 31, 2015, our estimated nominal contracted payments remaining was approximately \$2.4 billion, and our estimated retained value was \$1.5 billion.

We also have a long track record of attracting low-cost capital from diverse sources, including tax equity and debt investors. Since inception through March 8, 2016, we have raised tax equity investment funds to finance the previous and future installation of solar energy systems with an estimated value of \$4.0 billion. Although we have been successful in raising capital, we have incurred net losses since inception and had an accumulated deficit of \$87.2 million as of December 31, 2015.

### Our Multi-Channel Capabilities

Our unique, multi-channel capabilities offer consumers a compelling solar service through scalable, cost-effective and consumer-friendly channels. Homeowners can access our products through three channels: direct-to-consumer, solar partnerships, and strategic partnerships.

#### Direct-to-Consumer

We sell solar service offerings and install solar energy systems for homeowners through our direct-to-consumer channel. We also sell and install solar energy systems for cash through our direct-to-consumer channel. This channel consists of an online lead generation function, a telesales and field sales team, a direct-to-home sales force, a retail sales team and an industry-leading installation organization.

#### Solar Partnerships

We contract with diverse solar organizations that act as either exclusive or non-exclusive (depending on the terms of their contract with us) distributors of our solar service offerings and subcontractors for the installation of the related solar energy systems. Because of our commitment to these solar organizations and our vested interest in their success, we refer to them as our “solar partners,” although the actual legal relationship is that of an independent contractor. Our solar partners include:

- Solar integrators: trained and trusted partners who originate customers for our solar service offerings and procure and install the solar energy systems on our customers’ homes on our behalf as our subcontractors. Partnerships with solar integrators allow us to expand our brand, quickly enter new markets, and drive capital-efficient growth. We compensate our solar integrators on a per solar energy system basis for the sales and installation work they perform for us.
- Sales partners: sales and lead generation partners who provide us with high-quality leads and customers at competitive prices. We compensate our sales partners on a per customer basis for the sales and lead generation services they perform for us.
- Installation partners: trusted installation partners who procure and install a subset of our solar energy systems as our subcontractors and allow us to more efficiently deploy a mix of in-house and outsourced installation capabilities. We compensate our installation partners on a per solar energy system basis for the procurement of materials and installation work they perform for us.

Our ability to connect specialized sales and installation firms on a single platform, which we license to our solar partners at no cost, allows us to enjoy the benefits of vertical integration without the additional fixed cost structure. This creates margin opportunities, system efficiencies and benefits from network effects in matching these ecosystem participants.



## Strategic Partnerships

Our strategic partnerships encompass relationships with new market entrants not previously engaged in solar, including cable, consumer marketing, retail, and specialized energy retail companies. Our strategic partners find the residential solar market attractive but recognize that significant barriers to entry make partnership the preferred method to reach solar homeowners. Through these strategic arrangements, we typically market our solar service offerings to the strategic partner's customer base and install the solar energy system directly or through one of our solar partners. We manage the customer experience and retain the value of the economic relationship through the term of the homeowner's contract and potential renewal period. We have executed strategic partnerships in competitive processes that give us access to millions of potential customers. As our industry grows, we believe that our unique platform and deep partnership experience position us to be the partner of choice for new market entrants. We believe that these broad strategic relationships will help us drive down our customer acquisition costs and make solar accessible to even more homeowners.

The combination of direct-to-consumer, solar partnerships and strategic partnerships offers distinct advantages. The direct-to-consumer channel allows us to scale rapidly, drive incremental unit costs down over the long term, and refine operational processes to share with our partners. Our solar partnerships and strategic partnerships enable nimble market entry and exit, while allowing for capital efficient growth. Together, this multi-channel strategy supported by our open platform allows us to reach more customers with our leading solar service without compromising our ability to provide exceptional customer service.

## Customer Agreements

Since we were founded in 2007, we have been selling solar energy to residential customers at prices typically below utility rates through a variety of offerings, most commonly through our leases and power purchase agreements which we refer to as our "customer agreements." Our two forms of customer agreements work the same way economically and have substantially the same contractual terms. However, under our lease agreements, customers lease their solar energy systems from us, while under our power purchase agreements, customers purchase the power produced by the solar energy system. Either directly or through a partner, we construct a solar energy system on a customer's home and sell the electricity generated by the system at set prices through customer agreements which typically have an initial term of 20 years. Rates for both forms of our customer agreements can be fixed for the duration of the contract or escalated at a pre-determined percentage annually. Upon installation, a system is interconnected to the local utility grid. The home's energy usage is provided by the solar energy system with any additional energy needs provided by the local utility. Through the use of a bi-directional utility net meter, any excess solar energy that is not immediately used by our customers is exported to the utility grid, and the customer receives a credit for this excess power from their utility to offset future usage.

Although many of our homeowners choose to pay little to nothing upfront and instead receive a monthly bill, some customers choose to prepay for some or all of the electricity produced by their systems, thereby reducing their monthly bill. The amount of an upfront payment is customized for each customer and typically ranges from \$0 to \$3,000 for customers paying monthly. Customers may also choose to fully prepay their 20-year contracts, and the average cost of these prepaid contracts is approximately \$16,000. The prepayment amount is based on the estimated amount of the solar energy system's output over the 20-year term of the customer agreement. If the estimated production of the solar energy system is less than the actual production for a given year after the first full year of the agreement, prepaid customers are refunded the difference at the end of each such year. If the solar energy system's energy production is in excess of the estimate, we allow customers to keep the excess energy at no charge. After the initial term of the customer agreement, customers have the option to renew their contracts for the remaining life of the solar energy system typically at a 10% discount to then-prevailing power prices, to purchase the system from us at its fair market value, or have us remove the system.



Regardless of the type of customer agreement our customers choose, we operate the system and agree to monitor and maintain it in good condition at no cost to the customer. We offer an industry-leading performance guarantee to ensure that our customers are receiving the energy they expect at the price they expect. Our customers also receive a five-year warranty for roof penetration for our partner-built systems and a ten-year warranty for systems built directly by us.

If a customer sells their home, the customer has the right to purchase the system or assign their customer agreement to the new homeowner, provided the new homeowner meets our credit requirements and agrees to be bound by the terms and conditions of the agreement. In connection with this service transfer, the customer may prepay all or a portion of the remaining payments due under the customer agreement to lower the monthly rate to be paid by the new homeowner. The amount of this prepayment may be reflected in the sales price of the home. If the customer fails to purchase the system or assign the agreement to a new owner, we may negotiate an agreement directly with the new homeowner on modified terms and/or look to the original customer for any past due or lost payments. We have completed thousands of service transfers and, from inception through December 31, 2015, the aggregate expected net present value of the customer agreements once assigned represented approximately 99% of what it was prior to assignment.

### Sales and Marketing

We sell our solar energy offerings through a scalable sales organization using both a direct-to-consumer approach across online and offline channels and a diverse partner network that originates and/or installs our systems. We market and sell our products using direct channels, partner channels, mass media, digital media, canvassing, referral, retail, and field marketing. We sell to homeowners over the phone, in the field through canvassing and in-home sales and through retail sales channels through our strategic partners. We also partner with sales-only organizations that focus on direct-to-consumer marketing and sales on our behalf, typically with a Sunrun-branded offering at point of sale, which further increases our brand and reach. We believe that a customized, homeowner-focused selling process is important before, during and after the sale of our solar services.

We train our sales team to customize their consultative presentation to the individual homeowner, based on guidelines and principles outlined in our training materials. We are able to provide our sales team with real-time data and pricing tools through our proprietary technology which is designed to generate a tailored product offering with optimized pricing based on the actual characteristics of a homeowner's home, including roof characteristics and shading, as well as actual energy usage. This allows our sales team to differentially price homes in the same geographic region quickly and effectively.

### Competition

We believe that our primary competitors are the traditional utilities that supply electricity to our potential customers. We compete with these traditional utilities primarily based on price (cents per kilowatt hour), predictability of future prices (by providing pre-determined annual price escalations) and the ease by which homeowners can switch to electricity generated by our solar energy systems.

We also compete with companies that are not regulated like traditional utilities but that have access to the traditional utility electricity transmission and distribution infrastructure pursuant to state and local pro-competitive and consumer choice policies and with solar companies with business models that are similar to ours. We believe that we compete favorably with these companies based on our unique multi-channel approach and differentiated customer experience.

We also face competition from purely finance-driven organizations that acquire homeowners and then subcontract out the installation of solar energy systems, from installation businesses that seek financing from external parties, from large construction companies and utilities and from sophisticated electrical and roofing companies.



## Research and Development

We believe continued investment in research and development is an important component of our on-going efforts to improve and expand our platform of services and tools. Our research and development expenses were \$9.7 million in 2015, \$8.4 million in 2014 and \$10.0 million in 2013. These expenses include costs related to the development, maintenance and research associated with our BrightPath software and our SnapNrack racking equipment. We also capitalized additional costs of \$8.3 million in 2015, \$7.3 million in 2014 and \$1.9 million in 2013 associated with our software, including BrightPath.

## Intellectual Property

As of December 31, 2015, we had 13 issued patents and 22 filed patent applications in the United States and foreign countries relating to a variety of aspects of our solar solutions. Our issued United States patents will expire 20 years from their respective filing dates, with the earliest expiring in 2029. We intend to file additional patent applications as we innovate through our research and development efforts.

## Government Regulation and Incentives

### Government Regulation

Although we are not regulated as a public utility in the United States under applicable national, state or other local regulatory regimes where we conduct business, we compete primarily with regulated utilities. As a result, we have developed and are committed to maintaining a policy team to focus on the key regulatory and legislative issues impacting the entire industry. We believe these efforts help us better navigate local markets through relationships with key stakeholders and facilitate a deep understanding of the regional policy environment.

To operate our systems we obtain interconnection permission from the applicable local primary electric utility. Depending on the size of the solar energy system and local law requirements, interconnection permission is provided by the local utility and us and/or our homeowners. In almost all cases, interconnection permissions are issued on the basis of a standard process that has been pre-approved by the local public utility commission or other regulatory body with jurisdiction over net metering policies. As such, no additional regulatory approvals are required once interconnection permission is given.

Our operations are subject to stringent and complex federal, state and local laws, including regulations governing the occupational health and safety of our employees and wage regulations. For example, we are subject to the requirements of the federal Occupational Safety and Health Act, as amended (“OSHA”), the U.S. Department of Transportation (“DOT”), and comparable state laws that protect and regulate employee health and safety.

### Government Incentives

Federal, state and local government bodies provide incentives to owners, distributors, system integrators and manufacturers of solar energy systems to promote solar energy in the form of rebates, tax credits and other financial incentives such as system performance payments, payments for renewable energy credits associated with renewable energy generation and exclusion of solar energy systems from property tax assessments. These incentives enable us to lower the price we charge homeowners for energy from, and to lease, our solar energy systems, helping to catalyze homeowner acceptance of solar energy as an alternative to utility-provided power.

The federal government currently offers a 30% investment tax credit under Section 48(a) of the Internal Revenue Code (“Commercial ITC”), for the installation of certain solar power facilities owned for business purposes. The depreciable basis of a solar facility is also reduced by 50% of the tax credit claimed. Similarly, the federal government currently offers a 30% investment tax credit under Section 25D of the Internal Revenue Code (“Individual ITC”), for the installation of certain solar power facilities owned by individuals. The Commercial ITC was set to step down to 10% and the Individual ITC was set to expire at the end of 2016. In December 2015, Congress passed legislation extending both the Commercial and Individual ITC for an additional five years with a ramp down from 30% to 26% in 2020 and 22% in 2021. The Commercial ITC will remain at 10% permanently after 2021 and the Individual ITC will expire after 2021.

More than half of the states, and many local jurisdictions, have established property tax incentives for renewable energy systems that include exemptions, exclusions, abatements and credits. Many states also have adopted procurement requirements for renewable energy production. Twenty-nine states and the District of Columbia have adopted a renewable portfolio standard (and nine other states have some voluntary goal) that requires regulated utilities to procure a specified percentage of total electricity delivered in the state from eligible renewable energy sources, such as solar energy systems, by a specified date. To prove compliance with such mandates, utilities must surrender renewable energy certificates or SRECs to the applicable authority. Solar energy system owners such as our investment funds often are able to sell SRECs to utilities directly or in SREC markets.

While there are numerous federal, state and local government incentives that benefit our business, some adverse interpretations or determinations of new and existing laws can have a negative impact on our business. For example, in the state of Arizona, the Arizona Department of Revenue has determined that a personal property tax exemption on solar panels does not apply to solar panels that are leased (as opposed to owned), such that leased panels in Arizona may ultimately subject us and other solar companies to an increase in personal property taxes. If we pass this additional tax on to our customers in the form of higher prices, it could reduce or eliminate entirely the savings that these solar panels would otherwise provide to the customer. Although we are involved in ongoing litigation challenging the Arizona personal property tax determination, there can be no assurances that this litigation will be resolved in a manner that is favorable to us or other solar companies. If this litigation is not resolved in a manner that is favorable to us and other solar companies, it will adversely impact our operations in Arizona, and if we decide to pass the tax cost on to our customers, the price increase could adversely impact our ability to attract new customers in Arizona if it reduces or eliminates the savings that the solar panels would otherwise provide.

## Employees

As of December 31, 2015, we had approximately 3,380 employees. We also engage independent contractors and consultants. None of our employees are covered by collective bargaining agreements. We have not experienced any work stoppages.

## Corporate Information

Our principal executive offices are located at 595 Market Street, 29th Floor, San Francisco, California 94105, and our telephone number is (415) 580-6900. Our website address is [www.sunrun.com](http://www.sunrun.com). Information contained on, or that can be accessed through, our website does not constitute part of this prospectus and inclusions of our website address in this prospectus are inactive textual references only. We were formed in 2007 as a California limited liability company, and converted in 2008 into a Delaware corporation.

The Sunrun design logo, “Sunrun” and our other registered or common law trademarks, service marks or trade names appearing in this prospectus are the property of Sunrun Inc. Other trademarks and trade names referred to in this prospectus are the property of their respective owners.





## Available Information

We file annual reports on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K, and amendments to reports filed or furnished pursuant to Sections 13(a) and 15(d) of the Securities Exchange Act of 1934, as amended. The public may obtain these filings at the Securities and Exchange Commission (the SEC)'s Public Reference Room at 100 F Street, NE, Washington, DC 20549 or by calling the SEC at 1-800-SEC-0330. The SEC also maintains a website at [www.sec.gov](http://www.sec.gov) that contains reports, proxy and information statements and other information that we file with the SEC electronically. Copies of our reports on Form 10-K, Forms 10-Q, Forms 8-K, and amendments to those reports may also be obtained, free of charge, electronically on the investor relations page on our website located at [investors.sunrun.com](http://investors.sunrun.com) as soon as reasonably practical after we file such material with, or furnish it to, the SEC.

We also use the investor relations page on our website as a channel of distribution for important company information. Important information, including press releases, analyst presentations and financial information regarding us, as well as corporate governance information, is routinely posted and accessible on the investor relations page on our website. Information on or that can be accessed through our website is not part of this Annual Report on Form 10-K, and the inclusion of our website address is an inactive textual reference only.

## Item 1A. Risk Factors.

Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information in this Annual Report on Form 10-K, including the section titled "Management's Discussion and Analysis of Financial Condition and Results of Operations" and our consolidated financial statements and related notes, before making a decision to invest in our common stock. The risks and uncertainties described below may not be the only ones we face. If any of the risks actually occur, our business, financial condition, results of operations, cash flows and prospects could be materially and adversely affected. In that event, the market price of our common stock could decline, and you could lose part or all of your investment.

### Risks Related to Our Business and Our Industry

We need to raise capital to finance the continued growth of our residential solar service business. If capital is not available to us on acceptable terms, as and when needed, our business and prospects would be materially and adversely impacted.

Our future success depends on our ability to raise capital from third parties to grow our business. To date, we have funded our business principally through low-cost tax equity investment funds. If we are unable to establish new investment funds when needed, or upon desirable terms, the growth of our solar service business would be impaired.

The contract terms in certain of our existing investment fund documents contain various conditions with respect to our ability to draw on financing commitments from the fund investors, including conditions that restrict our ability to draw on such commitments if an event occurs that could reasonably be expected to have a material adverse effect on the fund or, in some instances, us. If we were not able to satisfy such conditions due to events related to our business, a specific investment fund, developments in our industry, including tax or regulatory changes, or otherwise, and as a result, we were unable to draw on existing funding commitments, we could experience a material adverse effect on our business, liquidity, financial condition, results of operations and prospects. If any of the investors that currently

invest in our investment funds were to decide not to invest in future investment funds to finance our solar service offerings due to general market conditions, concerns about our business or prospects or any other reason, or materially change the terms under which they were willing to provide future financing, we would need to identify new investors to invest in our investment funds and our cost of capital may increase.

There can be no assurance that we will be able to continue to successfully access capital in a manner that supports the growth of our business. Certain sources of capital may not be available in the future, and competition for any available funding may increase. We cannot be sure that we will be able to maintain necessary levels of funding without incurring high funding costs, unfavorable changes in the terms of funding instruments or the liquidation of certain assets. If we are unable to continue to offer a competitive investment profile, we may lose access to these funds or they may only be available on less favorable terms than those provided to our competitors or currently provided to us. If we are to be unable to arrange new or alternative methods of financing on favorable terms, our business, financial condition, results of operations and prospects could be materially and adversely affected.

The solar energy industry is an emerging market that is constantly evolving and may not develop to the size or at the rate we expect.

The solar energy industry is an emerging and constantly evolving market opportunity. We believe the solar energy industry will take several years to fully develop and mature, and we cannot be certain that the market will grow at the rate we expect. Any future growth of the solar energy market and the success of our solar service offerings depend on many factors beyond our control, including recognition and acceptance of the solar service market by consumers, the pricing of alternative sources of energy and our ability to provide our solar service offerings cost effectively. If the markets for solar energy do not develop at the rate we expect, our business may be adversely affected. Solar energy has yet to achieve broad market acceptance and depends in part on continued support in the form of rebates, tax credits and other incentives from federal, state and local governments. If this support diminishes, our ability to obtain external financing on acceptable terms, or at all, could be materially adversely affected. Such funding limitations could lead to inadequate financing support for the anticipated growth in our business. Furthermore, growth in residential solar energy depends in part on macroeconomic conditions, retail prices of electricity and homeowner preferences, each of which can change quickly. Declining macroeconomic conditions, including in the job markets and residential real estate markets, could contribute to instability and uncertainty among homeowners and impact their financial wherewithal, credit scores or interest in entering into long-term contracts, even if such contracts would generate immediate and long-term savings.

Market prices of retail electricity generated by utilities or other energy sources could decline for a variety of reasons, as discussed further below. Any such declines in macroeconomic conditions or changes in homeowner preferences would adversely impact our business.

Our ability to provide our solar service offerings to homeowners on an economically viable basis depends in part on our ability to finance these systems with fund investors who seek particular tax and other benefits.

Our solar service offerings have been eligible for federal investment tax credits (“ITCs”), U.S. Treasury grants and other tax benefits. We have relied on, and will continue to rely on, tax equity investment funds, which are financing structures that monetize a substantial portion of those benefits, in order to finance our solar service offerings. If, for any reason, we were unable to continue to monetize those benefits through these arrangements, we may be unable to provide and maintain our solar service offerings for homeowners on an economically viable basis.

The availability of this tax-advantaged financing depends upon many factors, including:

- our ability to compete with other solar energy companies for the limited number of potential fund investors, each of which has limited funds and limited appetite for the tax benefits associated with these financings;
- the state of financial and credit markets;
- changes in the legal or tax risks associated with these financings; and
- non-renewal of these incentives or decreases in the associated benefits.



The federal government currently offers a 30% ITC (the “Commercial ITC”) under Section 48(a) of the Internal Revenue Code of 1986, as amended (the “Code”), for the installation of certain solar power facilities prior to December 31, 2016, for taxpayers using solar property in a trade or business. The Commercial ITC was set to step down to 10% at the end of 2016. In December 2015, Congress passed legislation extending the Commercial ITC for an additional five years with a ramp down from 30% to 26% in 2020 and 22% in 2021. The Commercial ITC will remain at 10% permanently after 2021. Potential investors must remain satisfied that the funding structures that we offer will make the tax benefits associated with solar energy systems available to these investors, which depends both on the investors’ assessment of the tax law and the absence of any unfavorable interpretations of that law. Adverse changes in existing law or interpretations of existing law by the Internal Revenue Service (the “IRS”) and the courts could reduce the willingness of investors to invest in funds associated with these solar energy systems. Accordingly, we cannot assure you that this type of financing will continue to be available to us. New investment fund structures or other financing mechanisms may also become available, and if we are unable to take advantage of these fund structures and financing mechanisms, we may be at a competitive disadvantage. If, for any reason, we were unable to finance our solar service offerings through tax-advantaged structures or if we were unable to realize or monetize Commercial ITCs or other tax benefits, we may no longer be able to provide our solar service offerings to new homeowners on an economically viable basis, which would have a material adverse effect on our business, financial condition and results of operations.

We have historically benefited from declining costs in our industry, and our business and financial results may be harmed as a result of increases in costs associated with our solar service offerings. If we do not reduce our cost structure in the future, our ability to become profitable may be impaired.

Declining costs related to raw materials, manufacturing and the sale and installation of our solar service offerings has been a key driver in the pricing of our solar service offerings and, more broadly, homeowner adoption of solar energy. While historically the prices of solar panels and raw materials have declined, the cost of solar panels and raw materials could increase in the future due to a variety of factors, including trade barriers, export regulations, regulatory or contractual limitations, industry market requirements and changes in technology and industry standards. Any such increases could slow our growth and cause our financial results and operational metrics to suffer. For example, in the past, we and our solar partners purchased a significant portion of the solar panels used in our solar service offerings from manufacturers based in China or such panels have contained components from China. The U.S. government has imposed antidumping and countervailing duties on solar cells manufactured in China. In addition, we may face other increases in our operating expenses, including increases in wages or other labor costs, as well as marketing, sales or branding related costs. In addition, we invested heavily in building our direct-to-consumer capabilities in 2014 after our acquisition of the residential sales and installation business of Mainstream Energy Corporation, as well as its fulfillment business, AEE Solar, and its racking business, SnapNrack, which we refer to collectively as MEC. These investments included significantly increasing our installation capacity through the opening of new branches, increasing our hiring in construction and in associated management personnel, and increasing brand and sales and marketing expenses.

We may continue to make significant investments to drive growth in the future. Increases in any of these costs could adversely affect our results of operations and financial condition and harm our business and prospects. If we are unable to reduce our cost structure in the future, we may not be able to achieve profitability, which could have a material adverse effect on our business and prospects.

Electric utility statutes and regulations and changes to statutes or regulations may present technical, regulatory and economic barriers to the purchase and use of our solar service offerings that may significantly reduce demand for such offerings.

Federal, state, and local government statutes and regulations concerning electricity heavily influence the market for our solar service offerings. These statutes and regulations relate to electricity pricing, net metering, incentives, taxation, competition with utilities, and the interconnection of homeowner-owned and third party-owned solar energy systems to the electrical grid. These statutes and regulations are constantly evolving. Governments, often acting through state utility or public service commissions, change and adopt different rates for residential customers on a regular basis and these changes can have a negative impact on our ability to deliver savings to homeowners.

Utilities, their trade associations, and fossil fuel interests in the country, each of which has significantly greater economic and political resources than the residential solar industry, are currently challenging solar-related policies to reduce the competitiveness of residential solar energy. Any adverse changes in solar-related policies could have a negative impact on our business and prospects. For example, we recently ceased operations in Nevada as a result of the elimination of net metering.

We face competition from traditional energy companies as well as solar energy companies.

The solar energy industry is highly competitive and continually evolving as participants strive to distinguish themselves within their markets and compete with large utilities. We believe that our primary competitors are the established utilities that supply energy to homeowners by traditional means. We compete with these utilities primarily based on price, predictability of price, and the ease by which homeowners can switch to electricity generated by our solar service offerings. If we cannot offer compelling value to homeowners based on these factors, then our business and revenues will not grow. Utilities generally have substantially greater financial, technical, operational and other resources than we do. As a result of their greater size, these competitors may be able to devote more resources to the research, development, promotion and sale of their products or respond more quickly to evolving industry standards and changes in market conditions than we can. Furthermore, these competitors are able to devote substantially more resources and funding to regulatory and lobbying efforts.

Utilities could also offer other value-added products or services that could help them compete with us even if the cost of electricity they offer is higher than ours. In addition, a majority of utilities' sources of electricity are nonsolar, which may allow utilities to sell electricity more cheaply than us. In addition, regulated utilities are increasingly seeking approval to 'rate-base' their own residential solar businesses. Rate-basing means that utilities would receive guaranteed rates of return for their solar businesses. This is already commonplace for utility scale solar projects and commercial solar projects. While few utilities to date have received regulatory permission to rate base residential solar, our competitiveness would be significantly harmed should more utilities receive such permission because we do not receive guaranteed profits for our solar service offerings.

We also face competition from other residential solar service providers. Some of these competitors have a higher degree of brand name recognition, differing business and pricing strategies, and greater capital resources than we have and have extensive knowledge of our target markets. If we are unable to establish or maintain a consumer brand that resonates with homeowners, or competes with the pricing offered by our competitors, our sales and market share position may be adversely affected as our growth is dependent on originating new homeowners. We may also face competitive pressure from companies who offer lower priced consumer offerings than us.

We also compete with companies that are not regulated like traditional utilities but that have access to the traditional utility electricity transmission and distribution infrastructure. These energy service companies are able to offer homeowners electricity supply-only solutions that are competitive with our solar service offerings on both price and

usage of solar energy technology while avoiding the long-term agreements and physical installations that our current fund-financed business model requires. This may limit our ability to attract homeowners, particularly those who wish to avoid long-term contracts or have an aesthetic or other objection to putting solar panels on their roofs.



We also face competition from purely finance-driven nonintegrated competitors that subcontract out the installation of solar energy systems, from installation businesses (including solar partners) that seek financing from external parties, from large construction companies and from electrical and roofing companies. In addition, local installers that might otherwise be viewed as potential solar partners may gain market share by being able to be first providers in new local markets. Some of these competitors may provide energy at lower costs than we do.

As the solar industry grows and evolves, we will also face new competitors who are not currently in the market, as well as existing and new competitors, including those resulting from the consolidation of existing competitors, that achieve significant developments in alternative technologies or new products such as storage solutions, loan products or other programs related to third-party ownership. Our failure to adapt to changing market conditions, to compete successfully with existing or new competitors and to adopt new or enhanced technologies could limit our growth and have a material adverse effect on our business and prospects.

Regulations and policies related to rate design could deter potential homeowners from purchasing our solar service offerings, reduce the value of the electricity we produce, and reduce the savings that our homeowners could realize from our solar service offerings.

All states regulate investor-owned utility retail electricity pricing. In addition, there are numerous publicly owned utilities and electric cooperatives that establish their own retail electricity pricing through some form of regulation or internal process. These regulations and policies could deter potential homeowners from purchasing our solar service offerings. For example, utilities are seeking rate design changes to “de-couple” rates. This form of “de-coupling” means changing rates to charge lower volume-based rates, or the rates charged for kilowatt hour of electricity purchased by a residential customer, and higher unavoidable fixed charges that a homeowner is subject to when they purchase solar energy from third parties. This form of rate design would adversely impact our business by reducing the value of the electricity our solar energy systems produce and reducing the savings homeowners receive by purchasing our solar service offerings. In addition to changes in general rates charged to all residential customers, utilities are increasingly seeking solar-specific charges (which may be fixed charges, capacity-based charges, or other rate changes). Any of these changes could materially reduce the demand for our products and could limit the number of markets in which our products are competitive with electricity provided by the utilities.

We rely on net metering and related policies to offer competitive pricing to homeowners in all of our current markets, and changes to net metering policies may significantly reduce demand for electricity from our solar service offerings.

As of December 31, 2015, a substantial majority of states have adopted net metering policies. Net metering policies provide homeowners with a one-for-one full retail credit within a monthly billing period for electricity that the solar energy system exports to the electric grid. At the end of the monthly billing period, if the homeowner has generated excess electricity within that month, the homeowner typically carries forward a credit for any excess electricity to be offset against future utility purchases. At the end of an annual billing period or calendar year, utilities either continue to carry forward a credit, or reconcile the homeowner’s final annual or calendar year bill using different rates (including zero credit) for the exported electricity.

Utilities, their trade associations, and fossil fuel interests in the country are currently challenging net metering policies, and seeking to either eliminate it, cap it, or impose charges on homeowners that have adopted net metering. For example, the Hawaii Public Utilities Commission recently issued an Order that purports to eliminate net metering for all new customers. In its place, the Commission created a tariff that sets a reduced rate for the credit customers receive when they export power. All customers who have submitted net metering applications are grandfathered indefinitely under the old rules and we will continue to build those systems.



Some states, including California, currently set limits on the total percentage of a utility's customers that can adopt net metering. New Hampshire and New York also have net metering caps and other states we serve now or in the future may adopt net metering caps. If the net metering caps in these jurisdictions are reached without an expansion of net metering policies, homeowners in the future will be unable to recognize the cost savings associated with net metering they currently enjoy. If changes to net metering policies occur without grandfathering to existing homeowners, as occurred recently in Nevada, those existing homeowners could be negatively impacted which could create a default risk from those homeowners. Our ability to sell our solar service offerings may be adversely impacted by the failure to expand existing limits to net metering. The failure to adopt a net metering policy where it currently is not in place would pose a barrier to entry in those states. Additionally, the imposition of charges that only or disproportionately impact homeowners that utilize net metering would adversely impact our business.

Our business currently depends on the availability of utility rebates, tax credits and other financial incentives in addition to other tax benefits. The expiration, elimination or reduction of these rebates and incentives could adversely impact our business.

U.S. federal, state and local governmental bodies provide incentives to owners, distributors, installers and manufacturers of solar energy systems to promote solar energy. These incentives include ITCs, as discussed above, as well as other tax credits, rebates and other financial incentives, such as system performance payments and payments for solar renewable energy credits ("SRECs") associated with solar energy generation. We rely on these incentives to lower our cost of capital and to incent investors to invest in our funds, all of which enables us to lower the price we charge homeowners for our solar service offerings. However, these incentives may expire on a particular date (as discussed above with respect to ITCs), end when the allocated funding is exhausted, or be reduced or terminated without notice. The financial value of certain incentives may also decrease over time.

Our business model also relies on multiple tax exemptions offered at the state and local levels. For example, solar energy systems are generally not considered in determining values for calculation of local and state real and personal property taxes as a result of applicable property tax exemptions. If solar energy systems were not excluded, the property taxes payable by homeowners would be higher, which could offset any potential savings our solar service offerings could offer. For example, in the state of Arizona, the Arizona Department of Revenue has determined that a personal property tax exemption on solar panels does not apply to solar panels that are leased (as opposed to owned), such that leased panels in Arizona may ultimately subject the homeowner to an increase in personal property taxes and this increased personal property tax could reduce or eliminate entirely the savings that these solar panels would otherwise provide to the homeowner. Although we are involved in ongoing litigation challenging the Arizona personal property tax determination, there can be no assurances that this litigation will be resolved in a manner that is favorable to us or other solar companies. If this litigation is not resolved in a manner that is favorable to us and other solar companies, and we pass the tax cost on to our customers, it will adversely impact our ability to attract new customers in Arizona, and the savings that our current Arizona customers realize will be reduced by the additional tax imposed, which will make our solar service offerings less attractive to those customers and could increase the risk of default from those customers. In addition, we rely on certain state and local tax exemptions that apply to the sale of equipment, sale of power, or both. These state and local sales tax exemptions can be changed by the state legislature and other regulators, and such a change could adversely impact our business.

We are not currently regulated as a utility under applicable laws, but we may be subject to regulation as a utility in the future or become subject to new federal and state regulations for any additional solar service offerings we may introduce in the future.

Federal, state, and municipal laws do not currently regulate us as a utility. As a result, we are not subject to the various regulatory requirements applicable to U.S. utilities. However, any federal, state, local or otherwise applicable regulations could place significant restrictions on our ability to operate our business and execute our business plan by

prohibiting or otherwise restricting our sale of electricity. These regulatory requirements could include restricting our sale of electricity, as well as regulating the price of our solar service offerings. If we were subject to the same regulatory authorities as utilities in the United States or if new regulatory bodies were established to oversee our business, then our operating costs could materially increase.

Our business depends in part on the regulatory treatment of third-party owned solar energy systems.

Our customer agreements are third-party ownership arrangements. Sales of electricity by third parties face regulatory challenges in some states and jurisdictions. These challenges pertain to issues such as whether third party-owned systems qualify for the same levels of rebates or other non-tax incentives available for homeowner-owned solar energy systems, whether third-party-owned systems are eligible at all for these incentives, and whether third-party-owned systems are eligible for net metering and the associated significant cost savings. Reductions in, or eliminations of, the current treatment of third-party arrangements could reduce demand for our solar service offerings, adversely impact our access to capital and cause us to increase the price we charge homeowners for energy.

Interconnection limits or circuit-level caps imposed by regulators may significantly reduce our ability to sell electricity from our solar service offerings in certain markets or slow interconnections, harming our growth rate and customer satisfaction scores.

Interconnection rules establish the circumstances in which rooftop solar will be connected to the electricity grid. Interconnection limits or circuit-level caps imposed by regulators may curb our growth in key markets. Utilities throughout the country have different rules and regulations regarding interconnection and some utilities cap or limit the amount of solar energy that can be interconnected to the grid. Our systems do not provide power to homeowners until they are interconnected to the grid. The vast majority of our current homeowners are connected to the grid, and we expect homeowners to continue to be connected to the grid in the future.

Interconnection regulations are based on claims from utilities regarding the amount of solar electricity that can be connected to the grid without causing grid reliability issues or requiring significant grid upgrades. These interconnection limits or circuit-level caps have slowed the pace of our installations in Hawaii and could slow our installations in other markets, harming our growth rate and customer satisfaction scores.

We may be required to make payments or contribute assets to our investors upon the occurrence of certain events, including one-time reset or true-up payments or upon the exercise of a redemption option by one of our investors.

Our fund investors typically advance capital to us based on estimates. The models we use to calculate prepayments in connection with certain of our investment funds will be updated for each investment fund at a fixed date occurring after placement in service of all solar energy systems or an agreed upon date (typically within the first year of the applicable term) to reflect certain specified conditions as they exist at such date including the ultimate system size of the equipment that was leased, how much it cost, and when it went into service. As a result of this true up, applicable payments are resized, and we may be obligated to refund the investor's prepayments or to contribute additional assets to the investment fund. Further, our estimated retained value may be reduced. In addition, certain of our fund investors have the right to require us to purchase their interests in the investment funds after a set period of time, generally at a price equal to the greater of a set purchase price or fair market value of the interests at the time of the repurchase. Any significant refunds, capital contributions or purchases that we may be required to make could adversely affect our liquidity or financial condition.

A material drop in the retail price of utility-generated electricity or electricity from other sources would harm our business, financial condition and results of operations.

We believe that a homeowner's decision to buy solar energy from us is primarily driven by a desire to lower electricity costs. Decreases in the retail prices of electricity from utilities or other energy sources would harm our ability to offer competitive pricing and could harm our business. The price of electricity from utilities could decrease as a result of:

- the construction of a significant number of new power generation plants, including nuclear, coal, natural gas or renewable energy technologies;
- the construction of additional electric transmission and distribution lines;
- a reduction in the price of natural gas or other natural resources as a result of new drilling techniques or other technological developments, a relaxation of associated regulatory standards, or broader economic or policy developments;
- energy conservation technologies and public initiatives to reduce electricity consumption; and
- development of new energy technologies that provide less expensive energy.

A reduction in utility electricity prices would make the purchase of our solar service offerings less attractive. If the retail price of energy available from utilities were to decrease due to any of these or other reasons, we would be at a competitive disadvantage. As a result, we may be unable to attract new homeowners and our growth would be limited.

It is difficult to evaluate our business and prospects due to our limited operating history.

Until 2014, we focused our efforts primarily on the sales, financing, and monitoring of solar energy systems for residential customers, with installation provided by our solar partners. In February 2014, we acquired MEC. We have limited experience managing the fulfillment and racking lines of the MEC business, and we may not be successful in maintaining or growing the revenue from these businesses. Further, we have limited experience, in comparison to our solar partner model, in our direct-to-consumer business, and as a result, we may fail to grow as quickly or achieve the revenue scale targeted in connection with such model. We may also be unsuccessful in expanding our customer base through installation of our solar service offerings within our current markets or in new markets we may enter.

Additionally, we cannot assure you that we will be successful in generating substantial revenue from our current solar service offerings or from any additional solar service offerings we may introduce in the future. Our limited operating history, combined with the rapidly evolving and competitive nature of our industry, may not provide an adequate basis for you to evaluate our results of operations and business prospects. In addition, we only have limited insight into emerging trends, such as alternative energy sources, commodity prices in the overall energy market, and legal and regulatory changes that impact the solar industry, any of which could adversely impact our business, prospects and results of operations.

We have incurred losses and may be unable to achieve or sustain profitability in the future.

We have incurred net losses in the past, and we had an accumulated deficit of \$87.2 million as of December 31, 2015. We will continue to incur net losses as we increase our spending to finance the expansion of our operations, expand our installation, engineering, administrative, sales and marketing staffs, increase spending on our brand awareness and other sales and marketing initiatives, and implement internal systems and infrastructure to support our growth. We do not know whether our revenue will grow rapidly enough to absorb these costs and our limited operating history makes it difficult to assess the extent of these expenses or their impact on our results of operations. Our ability to achieve profitability depends on a number of factors, including but not limited to:

- growing our customer base;
- finding investors willing to invest in our investment funds on favorable terms;



- maintaining or further lowering our cost of capital;
- reducing the cost of components for our solar service offerings;
- growing and maintaining our channel partner network;
- growing our direct-to-consumer business to scale; and
- reducing our operating costs by lowering our customer acquisition costs and optimizing our design and installation processes and supply chain logistics.

Even if we do achieve profitability, we may be unable to sustain or increase our profitability in the future.

Our results of operations may fluctuate from quarter to quarter, which could make our future performance difficult to predict and could cause our results of operations for a particular period to fall below expectations, resulting in a decline in the price of our common stock.

Our quarterly results of operations are difficult to predict and may fluctuate significantly in the future. We have experienced seasonal and quarterly fluctuations in the past and expect these fluctuations to continue. However, given that we are an early-stage company operating in a rapidly changing industry, those fluctuations may be masked by our recent growth rates and thus may not be readily apparent from our historical results of operations. As such, our past quarterly results of operations may not be good indicators of future performance.

In addition to the other risks described in this “Risk Factors” section, as well as the factors discussed in “Management’s Discussion and Analysis of Financial Condition and Results of Operations” section, the following factors could cause our results of operations and key performance indicators to fluctuate:

- the expiration or initiation of any governmental tax rebates or incentives;
- significant fluctuations in homeowner demand for our solar service offerings or fluctuations in the geographic concentration of installations of solar energy systems;
- changes in financial markets, which could restrict our ability to access available financing sources;
- seasonal or weather conditions that impact sales, energy production and system installations;
- the amount and timing of operating expenses related to the maintenance and expansion of our business, operations and infrastructure;
- announcements by us or our competitors of new products or services, significant acquisitions, strategic partnerships, joint ventures or capital-raising activities or commitments;
- changes in our pricing policies or terms or those of our competitors, including utilities;
- changes in regulatory policy related to solar energy generation;
- the loss of one or more key partners or the failure of key partners to perform as anticipated;
- actual or anticipated developments in our competitors’ businesses or the competitive landscape;
- actual or anticipated changes in our growth rate;
- general economic, industry and market conditions; and
- changes to our cancellation rate.



In the past, we have experienced seasonal fluctuations in sales and installations, particularly in the fourth quarter. This has been the result of decreased sales through the holiday season and weather-related installation delays. In addition, energy production is greater in the second and third quarters of the year, causing variability in operating lease revenues throughout the year. Our incentives revenue is also highly variable due to associated revenue recognition rules, as discussed in greater detail in “Management’s Discussion and Analysis of Financial Condition and Results of Operations.” Seasonal and other factors may also contribute to variability in our sales of solar energy systems and product sales. For these or other reasons, the results of any prior quarterly or annual periods should not be relied upon as indications of our future performance. In addition, our actual revenue or key operating metrics in future quarters may fall short of the expectations of investors and financial analysts, which could have a material adverse effect on the trading price of our common stock.

If we fail to manage our recent and future growth effectively, we may be unable to execute our business plan, maintain high levels of customer service or adequately address competitive challenges.

We have experienced significant growth in recent periods, and we intend to continue to expand our business significantly within existing markets and in a number of new locations in the future. This growth has placed, and any future growth may place, a significant strain on our management, operational and financial infrastructure. In particular, we will be required to expand, train and manage our growing employee base and solar partners. Our management will also be required to maintain and expand our relationships with homeowners, suppliers and other third parties and attract new homeowners and suppliers, as well as to manage multiple geographic locations.

In addition, our current and planned operations, personnel, systems and procedures might be inadequate to support our future growth and may require us to make additional unanticipated investment in our infrastructure, including additional costs for the expansion of our employee base and our solar partners as well as marketing and branding costs. For example, our headcount has grown to approximately 3,380 as of December 31, 2015. Our success and ability to further scale our business will depend, in part, on our ability to manage these changes in a cost-effective and efficient manner. If we cannot manage our growth, we may be unable to take advantage of market opportunities, execute our business strategies or respond to competitive pressures. This could also result in declines in quality or homeowner satisfaction, increased costs, difficulties in introducing new solar service offerings or other operational difficulties. Any failure to effectively manage growth could adversely impact our business and reputation.

Servicing our debt requires a significant amount of cash to comply with certain covenants and satisfy payment obligations, and we may not have sufficient cash flow from our business to pay our substantial debt and may be forced to take other actions to satisfy our obligations under our indebtedness, which may not be successful.

We have substantial amounts of debt, including the working capital facility and the non-recourse debt facilities entered into by our subsidiaries, as discussed in more detail in the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our financial statements. Our ability to make scheduled payments of the principal of, to pay interest on or to refinance our indebtedness depends on our future performance, which is subject to economic, financial, competitive and other factors beyond our control. Our business may not continue to generate cash flow from operations in the future sufficient to service our debt and make necessary capital expenditures to operate our business. If we are unable to generate such cash flow, we may be required to adopt one or more alternatives, such as selling assets, restructuring debt or obtaining additional equity capital on terms that may be onerous or highly dilutive. Our ability to refinance our indebtedness will depend on the capital markets and our financial condition at such time. We may not be able to engage in any of these activities or engage in these activities on desirable terms, which could result in a default on our debt obligations.

We expect to incur substantially more debt in the future, which could intensify the risks to our business.

We and our subsidiaries expect to incur additional debt in the future, subject to the restrictions contained in our debt instruments. Our existing debt arrangements restrict our ability to incur additional indebtedness, including secured indebtedness, and we may be subject to similar restrictions under the terms of future debt arrangements. These restrictions could inhibit our ability to pursue our business strategies. Increases in our existing debt obligations would further heighten the debt related risk discussed above.

Furthermore, there is no assurance that we will be able to enter into new debt instruments on acceptable terms. If we were unable to satisfy financial covenants and other terms under existing or new instruments or obtain waivers or forbearance from our lenders or if we were unable to obtain refinancing or new financings for our working capital, equipment and other needs on acceptable terms if and when needed, our business would be adversely affected.

The production and installation of solar energy systems depends heavily on suitable meteorological conditions. If meteorological conditions are unexpectedly unfavorable, the electricity production from our solar service offerings may be below our expectations, and our ability to timely deploy new systems may be adversely impacted.

The energy produced and revenue and cash flows generated by a solar energy system depend on suitable solar and weather conditions, both of which are beyond our control. Furthermore, components of our systems, such as panels and inverters, could be damaged by severe weather or natural catastrophes, such as hailstorms, tornadoes or earthquakes. In these circumstances, we generally would be obligated to bear the expense of repairing the damaged solar energy systems that we own. Sustained unfavorable weather also could unexpectedly delay the installation of our solar energy systems, leading to increased expenses and decreased revenue and cash flows in the relevant periods. Weather patterns could change, making it harder to predict the average annual amount of sunlight striking each location where our systems are installed. This could make our solar service offerings less economical overall or make individual systems less economical. Any of these events or conditions could harm our business, financial condition and results of operations.

Our business is concentrated in certain markets, putting us at risk of region specific disruptions.

As of December 31, 2015, the majority of our customers were in California. Accordingly, our business and results of operations are particularly susceptible to adverse economic, regulatory, political, weather and other conditions in this market and in other markets that may become similarly concentrated. In addition, our corporate and sales headquarters are located in San Francisco, California, an area that is at a heightened risk of earthquakes. We may not have adequate insurance, including business interruption insurance, to compensate us for losses that may occur from any such significant events, including damage to our solar energy systems. A significant natural disaster, such as an earthquake, could have a material adverse impact on our business, results of operations and financial condition. In addition, acts of terrorism or malicious computer viruses could cause disruptions in our or our solar partners' businesses or the economy as a whole. To the extent that these disruptions result in delays or cancellations of installations or the deployment of our solar service offerings, our business, results of operations and financial condition would be adversely affected.

Loan financing developments could adversely impact our business.

The third-party ownership structure, which we bring to market through our solar service offerings, continues to be the predominant form of system ownership in the residential solar market in many states. However, there is a possibility of a shift from this trend to an outright purchase of the system by the homeowner (i.e., a homeowner purchases the solar energy system outright instead of leasing the system from us and paying us for the solar power produced by those systems for a 20-year initial term) with the development of loan financing products. Increases in third-party loan financing products or outright



purchases could result in the demand for long-term customer agreements to decline, which would require us to shift our product focus to respond to the market trend and could have an adverse effect on our business. In 2014 and 2015, the majority of our customers chose our solar service offerings as opposed to buying a solar energy system outright. Our financial model is impacted by the volume of homeowners who choose our solar service offerings, and an increase in the number of customers who choose to purchase solar energy systems (whether for cash or through third-party financing) may harm our business and financial results.

The federal government currently offers a 30% investment tax credit under Section 25D of the Internal Revenue Code (“Individual ITC”), for the installation of certain solar power facilities owned by individuals. The Individual ITC was set to expire at the end of 2016. In December 2015, Congress passed legislation extending the Individual ITC for an additional five years with a ramp down from 30% to 26% in 2020 and to 22% in 2021. The Individual ITC is set to expire after 2021.

Our growth depends in part on the success of our relationships with third parties, including our solar partners.

A key component of our growth strategy is to develop or expand our relationships with third parties. For example, we are investing resources in establishing strategic relationships with market players across a variety of industries, including large retailers, to generate new customers. These programs may not roll out as quickly as planned or produce the results we anticipated. A significant portion of our business depends on attracting and retaining new and existing solar partners. Negotiating relationships with our solar partners, investing in due diligence efforts with potential solar partners, training such third parties and contractors, and monitoring them for compliance with our standards require significant time and resources and may present greater risks and challenges than expanding a direct sales or installation team. If we are unsuccessful in establishing or maintaining our relationships with these third parties, our ability to grow our business and address our market opportunity could be impaired. Even if we are able to establish and maintain these relationships, we may not be able to execute on our goal of leveraging these relationships to meaningfully expand our business, brand recognition and customer base. This would limit our growth potential and our opportunities to generate significant additional revenue or cash flows.

We and our solar partners depend on a limited number of suppliers of solar panels and other system components to adequately meet anticipated demand for our solar service offerings. Any shortage, delay or component price change from these suppliers, or the acquisition of any of these suppliers by a competitor, could result in sales and installation delays, cancellations and loss of market share.

We and our solar partners purchase solar panels, inverters and other system components from a limited number of suppliers, making us susceptible to quality issues, shortages and price changes. If we or our solar partners fail to develop, maintain and expand our relationships with these or other suppliers, we may be unable to adequately meet anticipated demand for our solar service offerings, or we may only be able to offer our systems at higher costs or after delays. If one or more of the suppliers that we or our solar partners rely upon to meet anticipated demand ceases or reduces production, we may be unable to quickly identify alternate suppliers or to qualify alternative products on commercially reasonable terms, and we may be unable to satisfy this demand. The acquisition of a supplier by one of our competitors could limit our access to such components and require significant redesigns of our solar energy systems or installation procedures and have a material adverse effect on our business.

In particular, there are a limited number of suppliers of inverters, which are components that convert electricity generated by solar panels into electricity that can be used to power the home. For example, once we design a system for use with a particular inverter, if that type of inverter is not readily available at an anticipated price, we may incur additional delay and expense to redesign the system. Further, the inverters on our solar energy systems generally carry only 10-year warranties. If there is an inverter equipment shortage in a year when a substantial number of inverters on our systems need to be replaced, we may not be able to replace the inverters to maintain proper system functioning or

may be forced to do so at higher than anticipated prices, either of which would adversely impact our business.

20

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There have also been periods of industry-wide shortage of key components, including solar panels, in times of rapid industry growth. For example, new or unexpected changes in rooftop fire codes or building codes may require new or different system components to satisfy compliance with such newly effective codes or regulations, which may not be readily available for distribution to us or our suppliers. The manufacturing infrastructure for some of these components has a long lead time, requires significant capital investment and relies on the continued availability of key commodity materials, potentially resulting in an inability to meet demand for these components and, as a result, could negatively impact our ability to install systems in a timely manner. Further, any decline in the exchange rate of the U.S. dollar compared to the functional currency of our component suppliers could increase our component prices. Any of these shortages, delays or price changes could limit our growth, cause cancellations or adversely affect our operating margins, and result in loss of market share and damage to our brand.

As the primary entity that contracts with homeowners, we are subject to risks associated with construction, cost overruns, delays, regulatory compliance and other contingencies, any of which could have a material adverse effect on our business and results of operations.

We are a licensed contractor in certain communities that we service, and we are ultimately responsible as the contracting party for every solar energy system installation. We may be liable, either directly or through our solar partners, to homeowners for any damage we cause to them, their home, belongings or property during the installation of our systems. For example, we, either directly or through our solar partners, frequently penetrate homeowners' roofs during the installation process and may incur liability for the failure to adequately weatherproof such penetrations following the completion of construction. In addition, because the solar energy systems we or our solar partners deploy are high voltage energy systems, we may incur liability for any failure to comply with electrical standards and manufacturer recommendations.

Further, we or our solar partners may face construction delays or cost overruns, which may adversely affect our or our solar partners' ability to ramp up the volume of installation in accordance with our plans. Such delays or overruns may occur as a result of a variety of factors, such as labor shortages, defects in materials and workmanship, adverse weather conditions, transportation constraints, construction change orders, site changes, labor issues and other unforeseen difficulties, any of which could lead to increased cancellation rates, reputational harm and other adverse effects.

In addition, the installation of solar energy systems, energy-storage systems and other energy-related products requiring building modifications are subject to oversight and regulation in accordance with national, state and local laws and ordinances relating to building, fire and electrical codes, safety, environmental protection, utility interconnection and metering, and related matters. We also rely on certain of our employees to maintain professional licenses in many of the jurisdictions in which we operate, and our failure to employ properly licensed personnel could adversely affect our licensing status in those jurisdictions. It is difficult and costly to track the requirements of every individual authority having jurisdiction over our installations and to design solar energy systems to comply with these varying standards. Any new government regulations or utility policies pertaining to our systems may result in significant additional expenses to us and our homeowners and, as a result, could cause a significant reduction in demand for our solar service offerings.

While we have a variety of stringent quality standards that we apply in the selection of our solar partners, we do not control our suppliers and solar partners or their business practices. Accordingly, we cannot guarantee that they follow our standards or ethical business practices, such as fair wage practices and compliance with environmental, safety and other local laws. A lack of demonstrated compliance could lead us to seek alternative suppliers or contractors, which could increase our costs and result in delayed delivery or installation of our products, product shortages or other disruptions of our operations. Violation of labor or other laws by our suppliers and solar partners or the divergence of a supplier's or solar partners' labor or other practices from those generally accepted as ethical in the United States or

other markets in which we do business could also attract negative publicity for us and harm our business, brand and reputation in the market.

21

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We typically bear the risk of loss and the cost of maintenance, repair and removal on solar energy systems that are owned or leased by our investment funds.

We typically bear the risk of loss and are generally obligated to cover the cost of maintenance, repair and removal for any solar energy system that we sell or lease to our investment funds. At the time we sell or lease a solar energy system to an investment fund, we enter into a maintenance services agreement where we agree to operate and maintain the system for a fixed fee that is calculated to cover our future expected maintenance costs. If our solar energy systems require an above-average amount of repairs or if the cost of repairing systems were higher than our estimate, we would need to perform such repairs without additional compensation. If our solar energy systems, a majority of which are located in California, are damaged as the result of a natural disaster beyond our control, losses could exceed or be excluded from, our insurance policy limits, and we could incur unforeseen costs that could harm our business and financial condition. We may also incur significant costs for taking other actions in preparation for, or in reaction to, such events. We purchase property insurance with industry standard coverage and limits approved by an investor's third-party insurance advisors to hedge against such risk, but such coverage may not cover our losses.

Disruptions to our solar production metering solution could negatively impact our revenues and increase our expenses.

Our ability to invoice homeowners for the energy produced by our solar energy systems and monitor solar energy production for various purposes depends on the operation of our metering solution. We could incur significant expense and disruption to our operations in connection with failures of our metering solution, including meter hardware failures and failure of the cellular technology that we use to communicate with those meters. Many of our meters operate on either the 2G or 3G cellular data networks, which are expected to sunset before the term of our contract with homeowners. Upgrading our metering solution may cause us to incur a significant expense. Additionally, our meters communicate data through proprietary software, which we license from our metering partners. Should we be unable to continue to license, on agreeable terms, the software necessary to communicate with our meters, it could cause a significant disruption in our business and operations.

Problems with product quality or performance may cause us to incur warranty expenses and performance guarantee expenses, may lower the residual value of our solar energy systems and may damage our market reputation and cause our financial results to decline.

Homeowners who buy energy from us under leases or power purchase agreements are covered by production guaranties and roof penetration warranties. As the owners of the solar energy systems, we or our investment funds receive a warranty from the inverter and solar panel manufacturers, and, for those solar energy systems that we do not install directly, we receive workmanship and material warranties as well as roof penetration warranties from our solar partners. For example, we recently had to replace a significant number of defective inverters, the cost of which was borne by the manufacturer. However, our customers were without solar service for a period of time while the work was done, which impacted customer satisfaction. Furthermore, one or more of our third-party manufacturers or solar partners could cease operations and no longer honor these warranties, leaving us to fulfill these potential obligations to homeowners. Further, we provide a performance guarantee with certain solar service offerings pursuant to which we compensate homeowners on an annual basis if their system does not meet the electricity production guarantees set forth in their agreement with us. Homeowners who buy energy from us under leases or power purchase agreements are covered by production guarantees equal to the length of the term of these agreements, typically 20 years.



Because of our limited operating history, we have been required to make assumptions and apply judgments regarding a number of factors, including our anticipated rate of warranty claims and the durability, performance and reliability of our solar energy systems. Our assumptions could prove to be materially different from the actual performance of our systems, causing us to incur substantial expense to repair or replace defective solar energy systems in the future or to compensate homeowners for systems that do not meet their production guarantees. Product failures or operational deficiencies also would reduce our revenue from power purchase or lease agreements because they are dependent on system production. Any widespread product failures or operating deficiencies may damage our market reputation and adversely impact our financial results.

Product liability claims against us could result in adverse publicity and potentially significant monetary damages.

If our solar service offerings, including our racking systems or other products, injured someone, we would be exposed to product liability claims. Because solar energy systems and many of our other current and anticipated products are electricity-producing devices, it is possible that consumers or their property could be injured or damaged by our products, whether by product malfunctions, defects, improper installation or other causes. We rely on third-party manufacturing warranties, warranties provided by our solar partners and our general liability insurance to cover product liability claims and have not obtained separate product liability insurance. Any product liability claim we face could be expensive to defend and divert management's attention. The successful assertion of product liability claims against us could result in potentially significant monetary damages that could require us to make significant payments, as well as subject us to adverse publicity, damage our reputation and competitive position and adversely affect sales of our systems and other products. In addition, product liability claims, injuries, defects or other problems experienced by other companies in the residential solar industry could lead to unfavorable market conditions to the industry as a whole, and may have an adverse effect on our ability to attract homeowners, thus affecting our growth and financial performance.

The residual value of our solar energy systems at the end of the associated term of the lease or power purchase agreement may be lower than projected, which may adversely affect our financial performance and valuation.

We depreciate the costs of our solar energy systems over 20 years to a residual value. At the end of the initial 20-year term, customers may choose to purchase their solar energy systems, ask to remove the system at our cost or renew their customer agreements. Homeowners may choose to not renew or purchase for any reason, such as pricing, decreased energy consumption, relocation of residence or switching to a competitor product.

Furthermore, it is difficult to predict how future environmental regulations may affect the costs associated with the removal, disposal or recycling of our solar energy systems. If the value in trade or renewal revenue is less than we expect, after giving effect to any associated removal and redeployment costs, we may be required to recognize all or some of the remaining unamortized costs. This could materially impair our future results of operations.

We have guaranteed a minimum return to be received by an investor in one of our investment funds, which could adversely affect our business and financial condition if we were required to make any payments as a result of this guarantee.

We have guaranteed payments to the investor in one of our investment funds in the case that the investor does not achieve a specified minimum internal rate of return in this fund, which rate is assessed annually. The amounts of potential future payments under this guarantee depend on the amounts and timing of future distributions to the investor from funds and the tax benefits that accrue to the investor from the fund's activities. Because of uncertainties associated with estimating the timing and amounts of distributions to the investor, we cannot determine the potential maximum future payments that we could have to make under this guarantee. To date, we have not been required to make any payments under this guarantee. We may agree to similar terms with other third-party fund investors in the

future. Any significant payments that we may be required to make under such guarantees, now or in the future, could adversely affect our financial condition.

Damage to our brand and reputation or failure to expand our brand would harm our business and results of operations.

We depend significantly on our brand and reputation for high-quality solar service offerings, engineering and customer service to attract homeowners and grow our business. If we fail to continue to deliver our solar service offerings within the planned timelines, if our solar service offerings do not perform as anticipated or if we damage any homeowners' properties or cancel projects, our brand and reputation could be significantly impaired. We also depend greatly on referrals from homeowners for our growth. Therefore, our inability to meet or exceed homeowners' expectations would harm our reputation and growth through referrals. Further, we have focused particular attention on expeditiously growing our direct sales force and our solar partners, leading us in some instances to hire personnel or partner with third parties who we may later determine do not fit our company culture. If we cannot manage our hiring and training processes to avoid potential issues related to expanding our sales team or solar partners and maintain appropriate customer service levels, our business and reputation may be harmed and our ability to attract homeowners would suffer. In addition, if we were unable to achieve a similar level of brand recognition as our competitors, some of which currently have a broader brand footprint as a result of a larger direct sales force, more resources and longer operational history, we could lose recognition in the marketplace among prospective customers, suppliers and partners, which could affect our growth and financial performance. Our growth strategy involves marketing and branding initiatives that will involve incurring significant expenses in advance of corresponding revenues. We cannot assure you that such marketing and branding expenses will result in the successful expansion of our brand recognition or increase our revenues.

A failure to hire and retain a sufficient number of employees and service providers in key functions would constrain our growth and our ability to timely complete homeowners' projects and successfully manage homeowner accounts.

To support our growth, we need to hire, train, deploy, manage and retain a substantial number of skilled employees, engineers, installers, electricians, sales and project finance specialists. Competition for qualified personnel in our industry is increasing, particularly for skilled personnel involved in the installation of solar energy systems. We may be unable to attract or retain qualified and skilled installation personnel or installation companies to be our solar partners, which would have an adverse effect on our business. We and our solar partners also compete with the homebuilding and construction industries for skilled labor. As these industries grow and seek to hire additional workers, our cost of labor may increase. The unionization of the industry's labor force could also increase our labor costs. Shortages of skilled labor could significantly delay a project or otherwise increase our costs. Because our profit on a particular installation is based in part on assumptions as to the cost of such project, cost overruns, delays or other execution issues may cause us to not achieve our expected margins or cover our costs for that project. In addition, because we are headquartered in the San Francisco Bay Area, we compete for a limited pool of technical and engineering resources that requires us to pay wages that are competitive with relatively high regional standards for employees in these fields. Further, we need to continue to expand upon the training of our customer service team to provide high-end account management and service to homeowners before, during and following the point of installation of our solar energy systems. Identifying and recruiting qualified personnel and training them requires significant time, expense and attention. It can take several months before a new customer service person is fully trained and productive at the standards that we have established. If we are unable to hire, develop and retain talented customer service personnel, we may not be able to realize the expected benefits of this investment or grow our business.

In addition, to support the growth and success of our direct-to-consumer channel, we need to recruit, retain and motivate a large number of sales personnel on a continuing basis. We compete with many other companies for qualified sales personnel, and it could take many months before a new salesperson is fully trained on our solar service offerings. If we are unable to hire, develop and retain qualified sales personnel or if they are unable to achieve desired productivity levels, we may not be able to compete effectively.



If we or our solar partners cannot meet our hiring, retention and efficiency goals, we may be unable to complete home