sunrun

Q4 2019 Financial Results

February 27, 2020

Safe Harbor & Forward Looking Statements

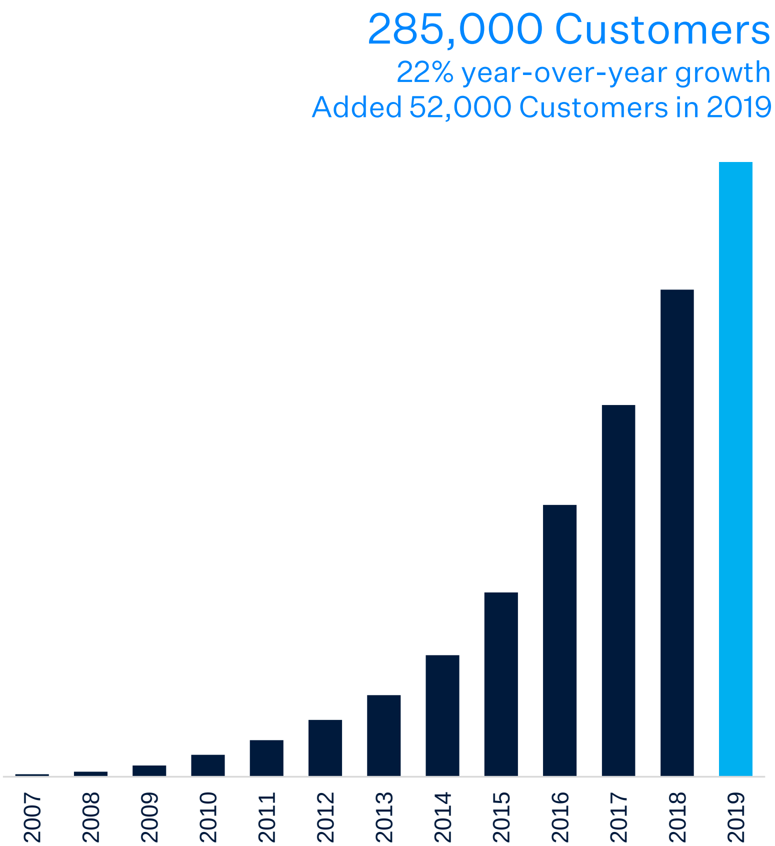
This presentation contains forward-looking statements within the meaning of Section 27A of the Securities Act of 1933 and Section 21E of the Securities Exchange Act of 1934. Forward-looking statements in this presentation include, but are not limited to, statements related to financial and operating guidance and expectations for our first quarter and full year 2020, the expected size and timeframe of our stock repurchase program, investment tax credit safe harbor strategy, momentum in our business strategies, expectations regarding utility rates, expectations regarding our solar + storage offering, expectations regarding our capital structure, expectations regarding our energy services business and the energy services market generally, expectations regarding module supplies, expectations regarding market share, market position, market penetration, gross orders and demand, customers, cost reductions, project value, Megawatts Deployed, product mix, proceeds raised on assets deployed and NPV as well as our ability to raise debt, tax equity, and project equity and manage cash flow and liquidity, leverage our platform services and deliver on planned innovations and investments as well as expectations for our growth, the growth of the industry, our ability to manage supply chains, factors outside of our control such as public health emergencies and natural disasters, macroeconomic trends and the legislative and regulatory environment of the industry.

Although we believe that the expectations reflected in the forward-looking statements are reasonable, we cannot guarantee that the future results, performance or events and circumstances reflected in the forward-looking statements will be achieved or occur. These forward-looking statements are subject to a number of risks, uncertainties and assumptions which could cause our results to differ materially and adversely from those expressed or implied including, but not limited to: the availability of additional financing on acceptable terms; changes in the retail prices of traditional utility generated electricity; changes in policies and regulations including net metering and interconnection limits or caps; the availability of rebates, tax credits and other incentives; the availability of solar panels and other raw materials; our limited operating history, particularly as a new public company; our ability to attract and retain our relationships with third parties, including our solar partners; our ability to meet the covenants in our investment funds and debt facilities; our continued ability to manage costs associated with solar service offerings; our business plan and our ability to effectively manage our growth and labor constraints, and such other risks and uncertainties identified in the reports that we file with the U.S. Securities and Exchange Commission, or SEC, from time to time. You should not rely on forward-looking statements as predictions of future events.

All forward-looking statements in this presentation are based on information available to us as of the date hereof, and we assume no obligation to update publicly these forward-looking statements for any reason, except as required by law.

The time for solar is now.

Sunrun is Growing its Base of Customers



See Appendix for glossary of terms.

Sunrun is Growing Volumes With Strong Unit Margins & Generating Cash

$102 Million

CASH GENERATED IN 2019[1]

117 MW

DEPLOYED IN Q4

9% increase vs. Q3 2019

1,987

CUMULATIVE MEGAWATTS DEPLOYED

26% increase vs. Q4 2018

$30,700

CUSTOMER VALUE

$4.00 PROJECT VALUE PER WATT IN Q4

$22,100

CUSTOMER COST

$2.87 PER WATT IN Q4

$8,700

CUSTOMER NPV

$1.13 UNLEVERED NPV PER WATT IN Q4

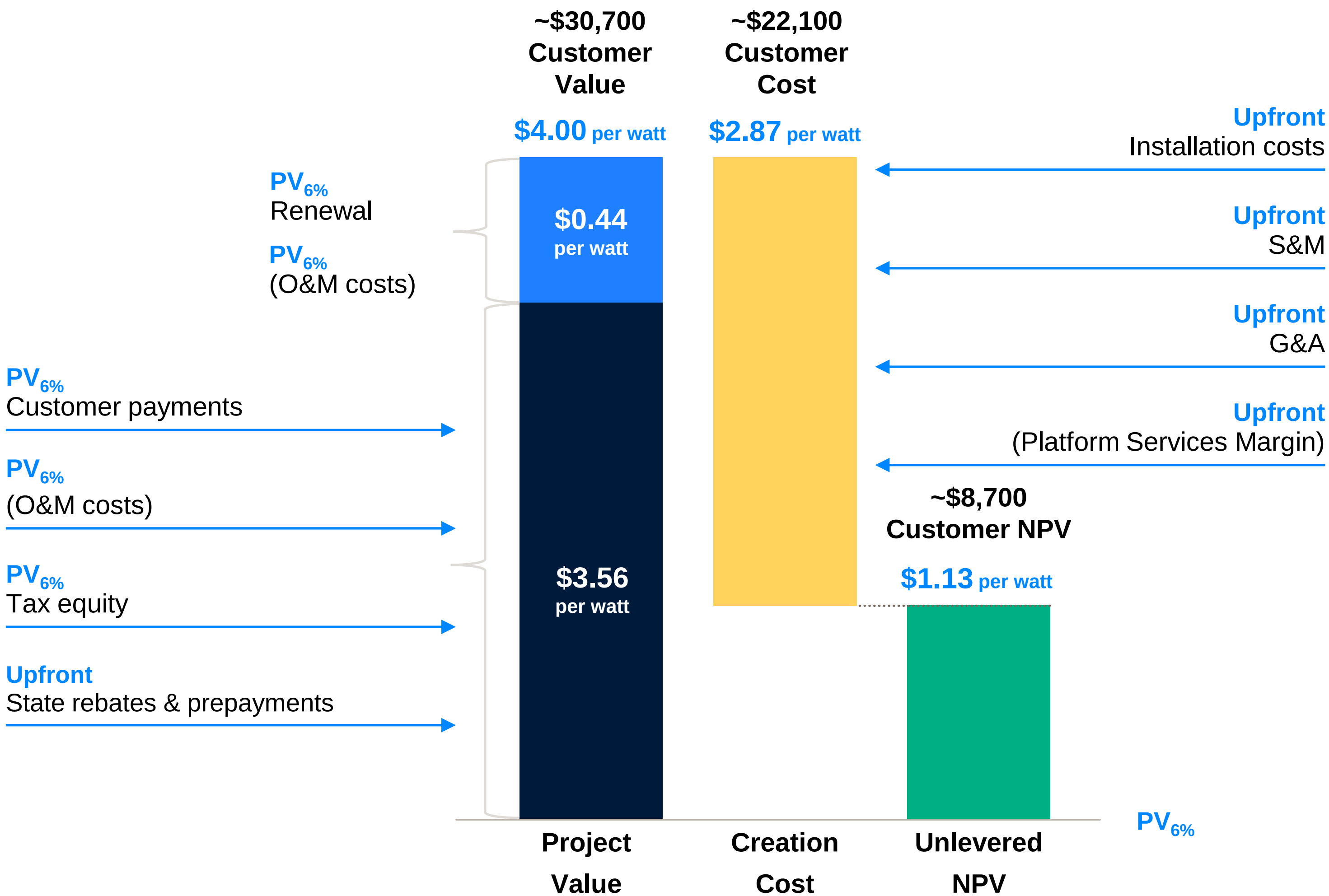
$1.5 Billion

NET EARNING ASSETS

1. The company defines Cash Generation as the increase in total cash, including restricted cash, less any increases in recourse debt, and adjusted for certain items. In 2019, Cash Generation was adjusted for $27.5 million related to the company's Investment Tax Credit safe harbor program, $5 million in cash consumed by the repurchase of stock in the company's share repurchase program, and $2.7 million related to business acquisitions.

See Appendix for glossary of terms.

Unlevered NPV was $1.13 per watt in Q4

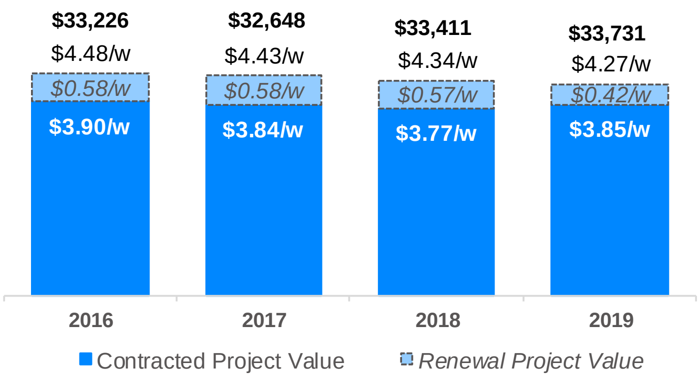


4Q19 Average Leased System Size of 7.7 KWs

See Appendix for glossary of terms. Numbers may not tie due to rounding.

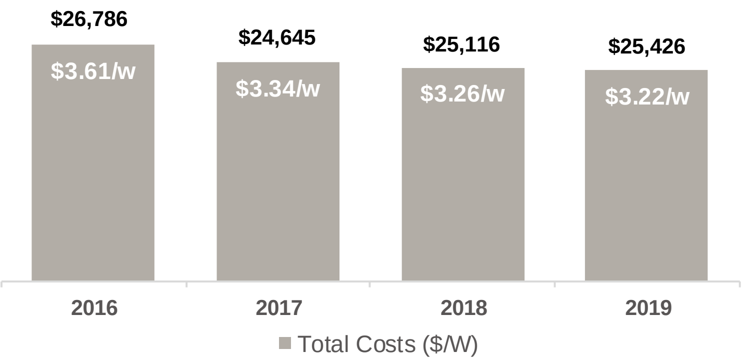
Strong Customer Unit Margins

STRONG CUSTOMER VALUES

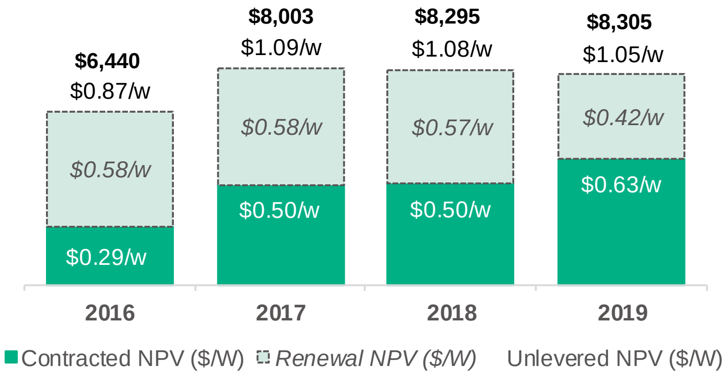


CONTINUED COST IMPROVEMENTS[(1)(2)]

(Includes Installation, Sales & Marketing and General & Administrative Costs)



IMPROVING CUSTOMER NET MARGINS



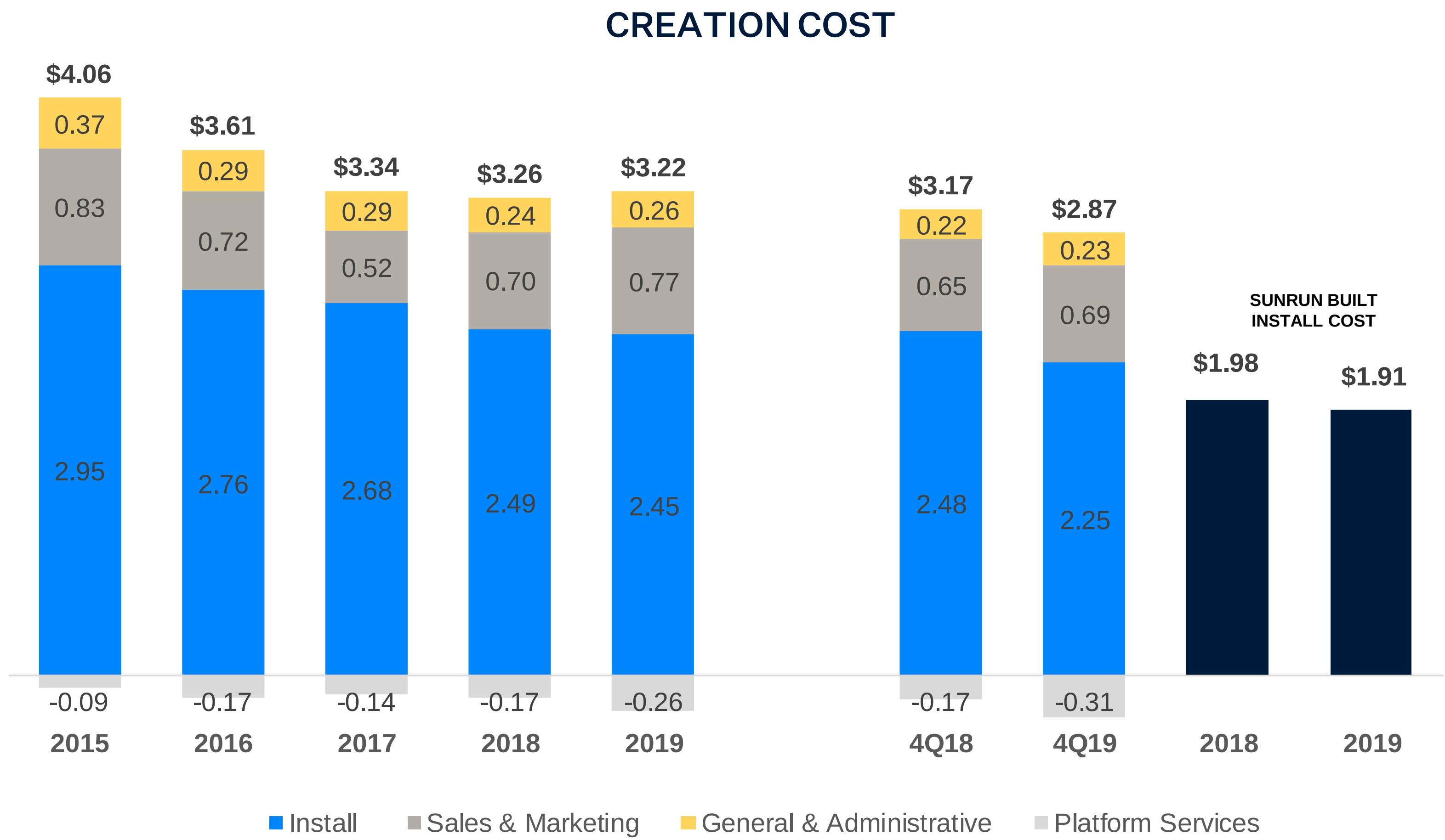
Additional Value Streams Beyond Initial Net Contracted Customer Margins:

+ *Purchase or Renewal after Initial 20- or 25-year Contract*
+ *Selling Additional Services, Such as Batteries or Grid Service Revenues*
+ *Customer Acquisition Benefits through Referrals and Home Moves*

(1) The presentation of Creation Cost for periods commencing with March 31, 2018 reflects changes made to the calculation owing to the adoption of new accounting standards, as described in materials available on our investor relations website. The presentation of Creation Cost for periods prior to March 31, 2018 remain as previously reported, as the new calculation and recast financials would have resulted in immaterial changes in the Creation Cost for such prior periods. Please see our recast financials summary available on our investor relations website.

(2) Creation Cost for Q1 2016 excludes exit costs in Nevada. Creation Cost for 1Q 2018 excludes two non-recurring items totaling approximately $7 million: charges related to establishing a reserve for litigation and an impairment of solar assets under construction by a channel partner that ceased operations. Creation Cost for 2Q 2018 excludes a non-recurring item of $1.9 million related to a legal settlement related to the state court class action lawsuit related to the IPO.

Q4 Creation Cost Improved Year-Over-Year



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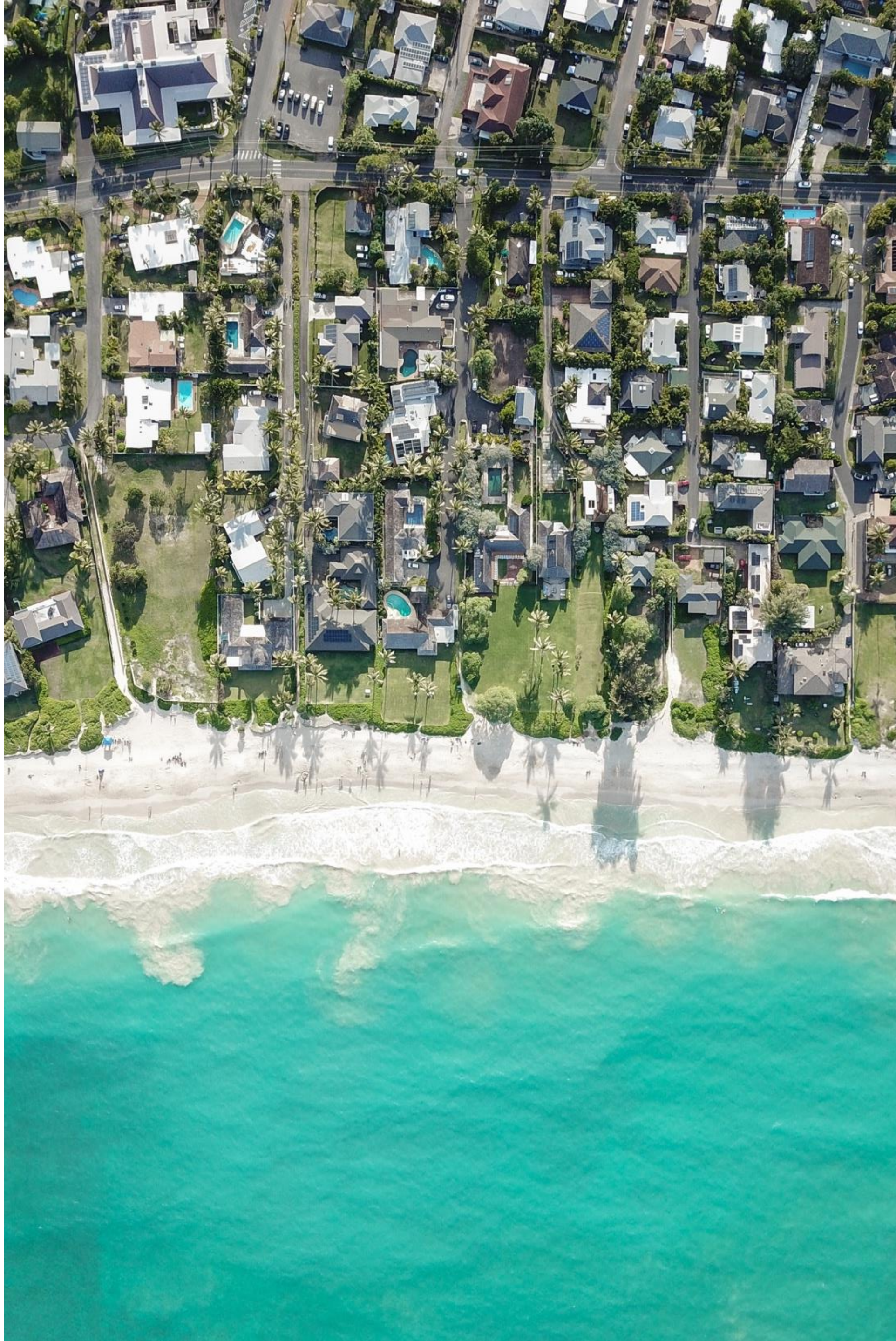
Guidance



15% Growth

IN DEPLOYMENTS
FOR FULL YEAR 2020

102 MW

DEPLOYED IN Q1

Net Earning Assets Increased Year-Over-Year

($ in millions)	4Q18	1Q19	2Q19	3Q19	4Q19
Gross Earning Assets, Contracted[(1)]	$2,100	$2,153	$2,252	$2,297	$2,537
Gross Earning Assets, Renewal[(1)]	$963	$1,014	$1,060	$1,106	$1,147
Total Gross Earning Assets[(1)]	**$3,062**	**$3,167**	**$3,312**	**$3,403**	**$3,684**
Project level debt	($1,502)	($1,585)	($1,724)	($1,806)	($2,015)
Pro forma debt adjustment for debt within project equity funds[(1)(2)]	$183	$182	$182	$181	$179
Pro forma debt adjustment for safe harboring facility	-	-	-	-	$14
Pro forma pass-through financing obligation[(3)]	($339)	($331)	($341)	($340)	($339)
Net Earning Assets	**$1,404**	**$1,432**	**$1,429**	**$1,438**	**$1,522**

Estimated future cash flows from assets deployed through 4Q19, less all project debt, represents $1.5 billion in present value or approximately $12 per share.

See Appendix for glossary of terms. Numbers may not tie due to rounding.

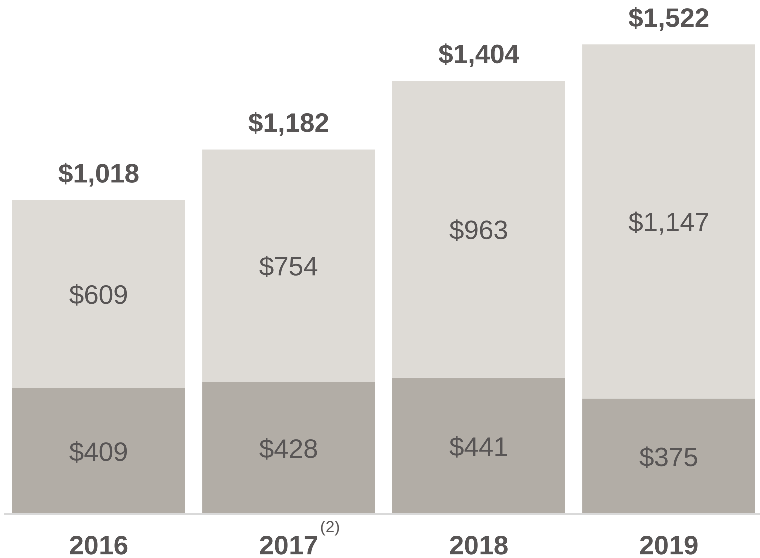
(1) Gross Earning Assets excludes the pro-rata share of forecasted unlevered cash flows attributable to project equity financing partners, allocated based on the estimated pro-rata split of cash flows. Because estimated cash distributions to our project equity financing partners are deducted from Gross Earning Assets, so is a proportional share of the corresponding project level debt from Net Earning Assets.

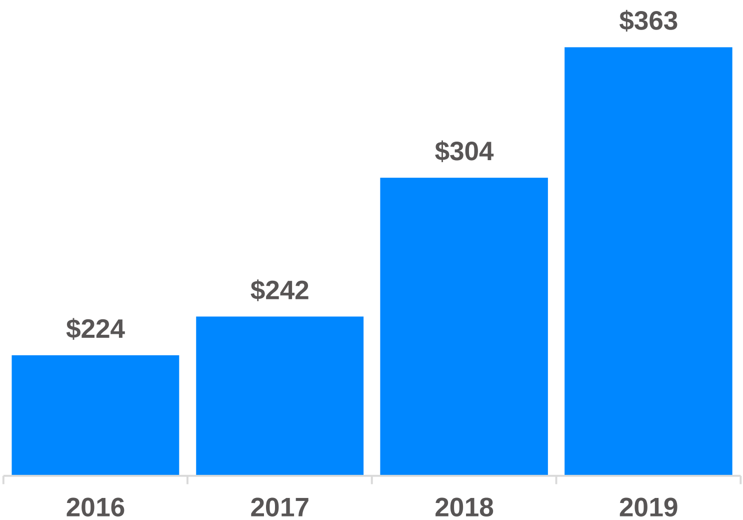
(2) In the fourth quarter of 2019, pro forma debt adjustment is calculated as carrying value of non-recourse debt for funds supported by cash equity, totaling $180.7 million as of Q4 2019 outlined in Note 12 in the 10K filing, multiplied by 99%, the pro rata share of cash flows with the project equity investor.

(3) The pass-through financing obligation used to calculate Net Earning Assets is reduced to the extent we expect the liability to be eliminated when the pass-through financing provider receives investment tax credits on assets it has funded, at which time the value of the credits is recognized as revenue. This amount is reflected in the current portion of the pass-through financing obligation. In the second, third and fourth quarter of 2018 the adjustment was $36.2 million, $53.9 million and $25.0 million, respectively. In the first quarter of 2019 the adjustment was $9.3 million. There was no amount reflected within short-term pass through financing in the second, third and fourth quarters of 2019.

Growing Cash Flow & Long-Term Value

Sunrun is cash flow positive while accumulating future cash flows[1]





Notes: See Appendix for glossary of terms. Numbers may not sum due to rounding.

(1) Cash generation defined as change in consolidated total cash balance (including restricted cash) less any increases in recourse debt balances, adjusted for one-time items.

(2) In the fourth quarter of 2017, Gross Earnings Assets under Energy Contract and Total Gross Earning Assets were reduced by $13 million to reflect changes related to modifications to the Federal Tax Code for assets deployed through December 31, 2017, including a reduction held as a reserve pending final tax regulation guidance based on the company's best estimate of the potential effect.

(3) The pass-through financing obligation for periods from December 31, 2016 through December 31, 2017 reflect recast financials following the adoption of certain accounting standards, as described in our 1Q 2018 Quarterly report on Form 10-Q filed with the Securities and Exchange Commission (SEC) on May 9, 2018. Please also see our recast financials summary available on our investor relations website.

(4) The pass-through financing obligation used to calculate Net Earning Assets is reduced to the extent we expect the liability to be eliminated when the pass-through financing provider receives investment tax credits on assets it has funded, at which time the value of the credits is recognized as revenue. This amount is reflected in the current portion of the pass-through financing obligation. In the second, third and fourth quarter of 2018 the adjustment was $36.2 million, $53.9 million and $25.0 million, respectively. In the first quarter of 2019 the adjustment was $9.3 million. There was no amount reflected within short-term pass through financing in the second, third and fourth quarters of 2019.

Appendix

Operating Metrics Summary

For a description of how the below metrics are calculated, see (i) our 2019 Annual Report on Form 10-K filed with the Securities and Exchange Commission (SEC) on February 27, 2020, (ii) the quarterly earnings releases and presentation materials for each applicable period available on our investor relations website and (iii) the accompanying notes therein.

	FY2017	1Q18	2Q18	3Q18	4Q18	FY2018	1Q19	2Q19	3Q19	4Q19	FY2019
Customers Deployed [1] *(in period)*	**44,600**	**9,400**	**12,100**	**13,200**	**14,700**	**49,400**	**11,400**	**12,600**	**14,200**	**15,600**	**53,900**
Lease Customers Deployed [1] *(in period)*	39,200	8,000	10,400	11,100	12,100	41,500	9,500	10,000	11,400	11,600	42,500
Cumulative Customers [1]	**180,000**	**189,000**	**202,000**	**218,000**	**233,000**	**233,000**	**242,000**	**255,000**	**271,000**	**285,000**	**285,000**
Megawatts Deployed	**323.3**	**67.6**	**90.7**	**99.8**	**114.6**	**372.8**	**86.2**	**102.7**	**107.2**	**116.6**	**412.7**
Cumulative Megawatts Deployed	**1,201.8**	**1,269.4**	**1,360.1**	**1,459.9**	**1,574.6**	**1,574.6**	**1,660.8**	**1,763.5**	**1,870.7**	**1,987.3**	**1,987.3**
Leased Megawatts Deployed	**289.0**	**58.7**	**78.9**	**85.3**	**96.4**	**319.3**	**72.8**	**85.3**	**88.3**	**89.1**	**335.6**
Leased Megawatts as % of total Megawatts Deployed	*89%*	*87%*	*87%*	*85%*	*84%*	*86%*	*84%*	*83%*	*82%*	*76%*	*81%*
Cumulative Leased Megawatts Deployed [2]	**1,063.7**	**1,122.4**	**1,201.3**	**1,286.6**	**1,383.0**	**1,383.0**	**1,462.1**	**1,547.4**	**1,635.7**	**1,724.9**	**1,724.9**
y/y growth	*37%*	*33%*	*32%*	*30%*	*30%*	*30%*	*30%*	*29%*	*27%*	*25%*	*25%*
Project Value *(per watt)*	**$ 4.43**	**$ 4.61**	**$ 4.10**	**$ 4.34**	**$ 4.38**	**$ 4.34**	**$ 4.52**	**$ 4.44**	**$ 4.18**	**$ 4.00**	**$ 4.27**
Contracted	3.84	4.03	3.51	3.79	3.80	3.77	4.01	4.04	3.82	3.56	3.85
Renewal	0.58	0.58	0.59	0.55	0.58	0.57	0.51	0.40	0.36	0.44	0.42
Creation Cost *(per watt)* [3][4]	**$ 3.34**	**$ 3.51**	**$ 3.12**	**$ 3.34**	**$ 3.17**	**$ 3.26**	**$ 3.46**	**$ 3.33**	**$ 3.28**	**$ 2.87**	**$ 3.22**
Installation	2.68	2.65	2.35	2.52	2.48	2.49	2.58	2.50	2.48	2.25	2.45
Sales & Marketing (expensed & capitalized)	0.52	0.75	0.69	0.73	0.65	0.70	0.78	0.80	0.81	0.69	0.77
General & Administrative	0.29	0.30	0.25	0.23	0.22	0.24	0.29	0.28	0.25	0.23	0.26
(-) Platform services margin	(0.14)	(0.19)	(0.16)	(0.14)	(0.17)	(0.17)	(0.20)	(0.25)	(0.26)	(0.31)	(0.26)
Sunrun Built Install Cost *(per watt)*	**$ 1.89**	**$ 1.92**	**$ 1.95**	**$ 2.06**	**$ 1.96**	**$ 1.98**	**$ 1.95**	**$ 1.82**	**$ 1.90**	**$ 1.96**	**$ 1.91**
Unlevered NPV *(per watt)*	**$ 1.09**	**$ 1.10**	**$ 0.98**	**$ 1.00**	**$ 1.21**	**$ 1.08**	**$ 1.06**	**$ 1.11**	**$ 0.90**	**$ 1.13**	**$ 1.05**
NPV created *($ in millions)*	**$ 314**	**$ 65**	**$ 77**	**$ 86**	**$ 116**	**$ 344**	**$ 77**	**$ 95**	**$ 79**	**$ 100**	**$ 353**
y/y growth	*47%*	*16%*	*4%*	*(7)%*	*28%*	*10%*	*19%*	*23%*	*(7)%*	*(14)%*	*3%*
Gross Earning Assets, contracted [5][6]	$ 1,459	$ 1,583	$ 1,715	$ 1,912	$ 2,100	$ 2,100	$ 2,153	$ 2,252	$ 2,297	$ 2,537	$ 2,537
Gross Earning Assets, renewal [5]	754	800	863	917	963	963	1,014	1,060	1,106	1,147	1,147
Gross Earning Assets *($ in millions)* [5][6]	**$ 2,213**	**$ 2,383**	**$ 2,578**	**$ 2,829**	**$ 3,062**	**$ 3,062**	**$ 3,167**	**$ 3,312**	**$ 3,403**	**$ 3,684**	**$ 3,684**
q/q growth		*8%*	*8%*	*10%*	*8%*		*3%*	*5%*	*3%*	*8%*	
y/y growth	*22%*	*24%*	*36%*	*37%*	*38%*	*38%*	*33%*	*28%*	*20%*	*20%*	*20%*
(-) Project level debt	(1,048)	(1,137)	(1,251)	(1,318)	(1,502)	(1,502)	(1,585)	(1,724)	(1,806)	(2,015)	(2,015)
(+) Pro forma debt adjustment for debt within project equity funds [5]	155	182	186	186	183	183	182	182	181	179	179
(+) Pro forma debt adjustment for safe harboring facility	-	-	-	-	-	-	-	-	-	14	14
(-) Pro forma pass-through financing obligation [7][8]	(138)	(138)	(224)	(308)	(339)	(339)	(331)	(341)	(340)	(339)	(339)
Net Earning Assets *($ in millions)* [7]	**$ 1,182**	**$ 1,289**	**$ 1,290**	**$ 1,389**	**$ 1,404**	**$ 1,404**	**$ 1,432**	**$ 1,429**	**$ 1,438**	**$ 1,522**	**$ 1,522**
q/q growth		*9%*	*0%*	*8%*	*1%*		*2%*	*(0)%*	*1%*	*6%*	
y/y growth	*16%*	*20%*	*18%*	*17%*	*19%*	*19%*	*11%*	*11%*	*3%*	*8%*	*8%*
Contracted Net Earning Assets *($ in millions)* [7]	**$ 428**	**$ 489**	**$ 427**	**$ 472**	**$ 441**	**$ 441**	**$ 418**	**$ 369**	**$ 331**	**$ 375**	**$ 375**
q/q growth		*14%*	*(13)%*	*11%*	*(7)%*		*(5)%*	*(12)%*	*(10)%*	*13%*	
y/y growth	*5%*	*14%*	*(1)%*	*(2)%*	*3%*	*3%*	*(14)%*	*(14)%*	*(30)%*	*(15)%*	*(15)%*
Cash Generation *($ in millions)* [9]	**$ 14**	**$ 2**	**$ 27**	**$ 5**	**$ 29**	**$ 63**	**$ 14**	**$ 44**	**$ 22**	**$ 22**	**$ 102**

(1) Customer counts are rounded.
(2) Cumulative Leased Megawatts Deployed was increased by 6.3 MW following a fund buy-in during 1Q19. Cumulative Leased Megawats Deployed was reduced by 6.3 MW in 1Q18 following accounting standard changes implemented in 1Q18 based on transactions prior to 2015. These adjustments have no effect on Cumulative Megawatts Deployed.
(3) The presentation of Creation Cost for periods commencing with March 31, 2018 reflects changes made to the calculation owing to the adoption of new accounting standards, as described in materials available on our investor relations website. The presentation of Creation Cost for periods prior to March 31, 2018 remain as previously reported, as the new calculation and recast financials would have resulted in immaterial changes in the Creation Cost for such prior periods. Please see our recast financials summary available on our investor relations website.
(4) Creation Cost for 1Q 2018 excludes two non-recurring items totaling approximately $7 million: charges related to establishing a reserve for litigation and an impairment of solar assets under construction by a channel partner that ceased operations. Creation Cost for 2Q 2018 excludes a non-recurring item of $1.9 million for settlement of the consolidated state court class action lawsuit related to the IPO.
(5) Gross Earning Assets excludes the pro-rata share of forecasted unlevered cash flows attributable to project equity financing partners, allocated based on the estimated pro-rata split of cash flows. Because estimated cash distributions to our project equity financing partners are deducted from Gross Earning Assets, so is a proportional share of the corresponding project level debt from Net Earning Assets.
(6) In the fourth quarter of 2017, Gross Earnings Assets under Energy Contract and Total Gross Earning Assets were reduced by $13 million to reflect changes related to modifications to the Federal Tax Code for assets deployed through December 31, 2017, including a reduction held as a reserve pending final tax regulation guidance based on the company's best estimate of the potential effect.
(7) The pass-through financing obligation for periods from December 31, 2016 through December 31, 2017 reflect recast financials following the adoption of certain accounting standards, as described in our 1Q 2018 Quarterly report on Form 10-Q filed with the Securities and Exchange Commission (SEC) on May 9, 2018. Prior periods are presented as originally reported for total lease pass-through financing obligations.
(8) The pass-through financing obligation used to calculate Net Earning Assets is reduced to the extent we expect the liability to be eliminated when the pass-through financing provider receives investment tax credits on assets it has funded, at which time the value of the credits is recognized as revenue. This amount is reflected in the current portion of the pass-through financing obligation. In the second, third and fourth quarter of 2018 the adjustment was $36.2 million, $53.9 million and $25.0 million respectively. In the first quarter of 2019 the adjustement was $9.3 million. There was no amount reflected within short-term pass through financing in the second and third quarters of 2019.
(9) Cash Generation defined as change in consolidated total cash balance (including restricted cash) less any increases in recourse debt balances. In Q3 2019 Cash Generation includes an adjustment for business aquisition of $2.7 million. In Q4 2019 Cash Generation includes an adjustment for safe harboring activity of $27.5 million and repurchase of common stock of $5 million.

Consolidated Financial Statement Summaries

($ in '000s, except per share amounts)	FY2017	1Q18	2Q18	3Q18	4Q18	FY2018	1Q19	2Q19	3Q19	4Q19	FY2019
Income Statement [1]											
Customer agreements & incentives revenue	$ 234,276	$ 66,990	$ 91,605	$ 114,572	$ 131,299	$ 404,466	$ 99,850	$ 92,439	$ 96,249	$ 99,297	$ 387,835
Solar energy systems & product sales	298,266	77,373	78,933	90,388	108,821	355,515	94,654	112,156	119,293	144,640	470,743
Total revenue	532,542	144,363	170,538	204,960	240,120	759,981	194,504	204,595	215,542	243,937	858,578
y/y growth	*12%*	*37%*	*31%*	*42%*	*58%*	*43%*	*35%*	*20%*	*5%*	*2%*	*13%*
Cost of customer agreements & incentives	186,435	54,576	57,769	63,195	65,317	240,857	69,493	70,594	67,359	72,898	280,344
Cost of solar energy systems & product sales	254,131	64,579	64,268	76,179	89,040	294,066	77,799	86,348	92,031	109,307	365,485
Total COGS	440,566	119,155	122,037	139,374	154,357	534,923	147,292	156,942	159,390	182,205	645,829
y/y growth	*12%*	*29%*	*15%*	*19%*	*23%*	*21%*	*24%*	*29%*	*14%*	*18%*	*21%*
Gross margin from customer agreements & incentives	*20%*	*19%*	*37%*	*45%*	*50%*	*40%*	*30%*	*24%*	*30%*	*27%*	*28%*
Gross margin from systems & product sales	*15%*	*17%*	*19%*	*16%*	*18%*	*17%*	*18%*	*23%*	*23%*	*24%*	*22%*
S&M	146,426	44,079	49,237	56,758	57,158	207,232	55,953	70,038	77,478	71,679	275,148
R&D	15,079	3,896	5,052	4,604	5,292	18,844	5,474	6,555	6,435	5,099	23,563
G&A	107,400	32,893	28,130	26,720	28,916	116,659	29,063	33,044	31,059	31,857	125,023
Amortization of intangible assets	4,204	1,051	1,051	1,051	1,051	4,204	893	814	1,524	1,524	4,755
Total operating expenses	713,675	201,074	205,507	228,507	246,774	881,862	238,675	267,393	275,886	292,364	1,074,318
EBIT	(181,133)	(56,711)	(34,969)	(23,547)	(6,654)	(121,881)	(44,171)	(62,798)	(60,344)	(48,427)	(215,740)
Interest & other expense (income)	94,129	26,506	32,380	29,965	40,132	128,983	46,096	43,697	47,021	46,686	183,500
Tax expense (benefit)	12,353	8,203	4,378	(5,988)	2,729	9,322	(3,361)	(1,910)	5,169	(8,116)	(8,218)
Net loss	(287,615)	(91,420)	(71,727)	(47,524)	(49,515)	(260,186)	(86,906)	(104,585)	(112,534)	(86,997)	(391,022)
Net loss attributable to NCI and redeemable NCI	(413,104)	(119,452)	(79,136)	(44,628)	(43,627)	(286,843)	(73,044)	(103,292)	(141,524)	(99,497)	(417,357)
Net income (loss) available to common stockholders	**125,489**	**28,032**	**7,409**	**(2,896)**	**(5,888)**	**26,657**	**(13,862)**	**(1,293)**	**28,990**	**12,500**	**26,335**
Diluted EPS	**$ 1.16**	**$ 0.25**	**$ 0.06**	**$ (0.02)**	**$ (0.05)**	**$ 0.23**	**$ (0.12)**	**$ (0.01)**	**$ 0.23**	**$ 0.10**	**$ 0.21**
Balance Sheet [1]											
Cash, restricted & unrestricted	241,790	243,328	270,403	275,133	304,399	304,399	309,934	353,867	373,412	363,229	363,229
Solar energy systems, net	3,161,570	3,285,804	3,437,822	3,618,125	3,820,017	3,820,017	3,976,504	4,149,883	4,333,387	4,492,615	4,492,615
Non-recourse debt	1,047,945	1,137,029	1,250,609	1,317,598	1,501,922	1,501,922	1,585,187	1,724,147	1,806,274	2,015,455	2,015,455
Pass-through financing obligation	138,210	138,287	260,167	361,997	363,743	363,743	340,782	340,634	339,999	339,005	339,005
Recourse debt	247,000	247,000	247,000	247,000	247,000	247,000	239,035	239,035	239,035	239,485	239,485
Cash Flow [1]											
Cash Flow from Operations	(96,103)	(45,754)	(11,967)	16,987	(21,727)	(62,461)	11,415	(68,030)	(49,493)	(98,379)	(204,487)
Cash Flow from Investing	(777,319)	(164,711)	(185,013)	(224,536)	(237,056)	(811,316)	(201,397)	(200,983)	(215,663)	(225,212)	(843,255)
Cash Flow from Financing	890,849	212,003	224,055	212,279	288,049	936,386	195,517	312,946	284,701	313,408	1,106,572
Proceeds from NCI	594,921	143,604	23,864	80,236	97,443	345,147	152,149	178,162	241,184	140,419	711,914
Proceeds from pass-through financing & other obligations	6,221	1,502	96,670	85,448	33,462	217,082	1,785	3,497	1,941	1,917	9,140
Proceeds from non-recourse debt	748,806	95,900	154,332	238,144	492,168	980,544	181,652	359,597	140,801	499,499	1,181,549
Additional items [1]											
Depreciation & Amortization	128,687	36,186	37,794	39,731	42,296	156,007	43,661	45,358	49,601	48,543	187,163
Stock Based Compensation (SBC)	22,042	10,694	5,547	5,741	5,874	27,856	5,783	6,783	6,854	6,886	26,306
COGS - customer agreements and incentives SBC	2,299	611	667	648	642	2,568	632	624	594	584	2,434
COGS - solar energy systems and product sales SBC	609	170	186	188	174	718	167	190	209	278	844
S&M SBC	5,196	4,150	834	1,102	1,105	7,191	1,128	1,303	1,352	1,379	5,162
R&D SBC	836	295	311	313	334	1,253	336	408	404	291	1,439
G&A SBC	13,102	5,468	3,549	3,490	3,619	16,126	3,520	4,258	4,295	4,354	16,427
Other Adjustments for Creation Costs											
S&M: Amortization of intangibles	3,797	630	615	596	886	2,727	638	506	485	460	2,089
S&M: Amortization of costs to obtain contracts		1,902	2,048	2,217	2,424	8,591	2,659	2,876	3,166	3,066	11,767
G&A: Amortization of intangibles	1,277	272	226	185	373	1,056	200	193	189	179	762
Other Adjustments	-	7,082	1,900	-	-	8,982	-	-	-	-	-

Note: Numbers may not sum due to rounding.

(1) Income Statement, Balance Sheet and Cash Flow Statement figures for periods from Full-year 2016 through Full-year 2017 reflect recast financials following the adoption of certain accounting standards, as described in our 1Q 2018 Quarterly report on Form 10-Q filed with the Securities and Exchange Commission (SEC) on May 9, 2018. Other items, including "Additional Items" listed above, except for depreciation & amortization, for all periods prior to 1Q 2018, along with Income Statement, Balance Sheet and Cash Flow Statement figures prior to 4Q 2016, are presented as orginally reported in financial statements, quarterly earnings releases and presenation materials for each applicable period. Depreciation & amortization listed above reflects recast financials for all periods between Full-year 2016 through Full-year 2017.

Gross Earning Asset Sensitivities

$ in millions, as of December 31, 2019

Gross Earning Assets Under Energy Contract

	Discount rate				
Default rate	**4%**	**5%**	**6%**	**7%**	**8%**
5%	$ 2,898	$ 2,671	$ 2,471	$ 2,295	$ 2,138
0%	$ 2,979	$ 2,743	$ 2,537	$ 2,353	$ 2,191

Gross Earning Assets Value of Purchase or Renewal

	Discount rate				
Purchase or Renewal rate	**4%**	**5%**	**6%**	**7%**	**8%**
80%	$ 1,502	$ 1,223	$ 1,000	$ 821	$ 676
90%	$ 1,722	$ 1,403	$ 1,147	$ 941	$ 775
100%	$ 1,943	$ 1,583	$ 1,294	$ 1,062	$ 874

Total Gross Earning Assets

	Discount rate				
Purchase or Renewal rate	**4%**	**5%**	**6%**	**7%**	**8%**
80%	$ 4,480	$ 3,967	$ 3,537	$ 3,174	$ 2,867
90%	$ 4,701	$ 4,147	$ 3,684	$ 3,295	$ 2,966
100%	$ 4,922	$ 4,327	$ 3,831	$ 3,415	$ 3,065

See Appendix for glossary of terms. Numbers may not sum due to rounding.

Glossary

Creation Cost includes (i) certain installation and general and administrative costs after subtracting the gross margin on solar energy systems and product sales divided by watts deployed during the measurement period and (ii) certain sales and marketing expenses under new Customer Agreements, net of cancellations during the period divided by the related watts deployed.

Customers refers to all parties (i) who have executed Customer Agreements or cash sales agreements with us and (ii) for whom we have internal confirmation that the applicable solar energy system has reached notice to proceed or "NTP", net of cancellations.

Customer Agreements refers to, collectively, solar power purchase agreements and solar leases.

Gross Earning Assets represent the remaining net cash flows (discounted at 6%) we expect to receive during the initial term of our Customer Agreements (typically 20 or 25 years) for systems that have been deployed as of the measurement date, plus a discounted estimate of the value of the Customer Agreement renewal term or solar energy system purchase at the end of the initial term. Gross Earning Assets deducts estimated cash distributions to investors in consolidated joint ventures and estimated operating, maintenance and administrative expenses for systems deployed as of the measurement date. In calculating Gross Earning Assets, we deduct estimated cash distributions to our project equity financing providers. In calculating Gross Earning Assets, we do not deduct customer payments we are obligated to pass through to investors in pass-through financing obligations as these amounts are reflected on our balance sheet as long-term and short-term pass-through financing obligations, similar to the way that debt obligations are presented. In determining our finance strategy, we use pass-through financing obligations and long-term debt in an equivalent fashion as the schedule of payments of distributions to pass-through financing investors is more similar to the payment of interest to lenders than the internal rates of return (IRRs) paid to investors in other tax equity structures. We calculate the Gross Earning Assets value of the purchase or renewal amount at the expiration of the initial contract term assuming either a system purchase or a five year renewal (for our 25-year Customer Agreements) or a 10-year renewal (for our 20-year Customer Agreements), in each case forecasting only a 30-year customer relationship (although the customer may renew for additional years, or purchase the system), at a contract rate equal to 90% of the customer's contractual rate in effect at the end of the initial contract term. After the initial contract term, our Customer Agreements typically automatically renew on an annual basis and the rate is initially set at up to a 10% discount to then-prevailing power prices. Gross Earning Assets Under Energy Contract represents the remaining net cash flows during the initial term of our Customer Agreements (less substantially all value from SRECs prior to July 1, 2015), for systems deployed as of the measurement date.

Gross Earning Assets Under Energy Contract represents the remaining net cash flows during the initial term of our Customer Agreements (less substantially all value from SRECs prior to July 1, 2015), for systems deployed as of the measurement date.

Gross Earning Assets Value of Purchase or Renewal is the forecasted net present value we would receive upon or following the expiration of the initial Customer Agreement term (either in the form of cash payments during any applicable renewal period or a system purchase at the end of the initial term), for systems deployed as of the measurement date.

Megawatts Deployed represents the aggregate megawatt production capacity of our solar energy systems, whether sold directly to customers or subject to executed Customer Agreements (i) for which we have confirmation that the systems are installed on the roof, subject to final inspection, (ii) in the case of certain system installations by our partners, for which we have accrued at least 80% of the expected project cost, or (iii) for multi-family and any other systems that have reached NTP, measured on the percentage of the project that has been completed based on expected project cost.

Net Earning Assets represents Gross Earning Assets less both project level debt and pass-through financing obligations, as of the same measurement date. Because estimated cash distributions to our project equity financing partners are deducted from Gross Earning Assets, a proportional share of the corresponding project level debt is deducted from Net Earning Assets.

NPV equals Unlevered NPV multiplied by leased megawatts deployed in period.

NTP or Notice to Proceed refers to our internal confirmation that a solar energy system has met our installation requirements for size, equipment and design.

Proceeds equals the sum of proceeds from non-recourse debt, proceeds from pass-through financing obligations, contributions received from redeemable and non-redeemable noncontrolling interests, proceeds from state tax credits, and estimated customer upfront payments and utility rebates. Estimated customer upfront payments and utility rebates is estimated by averaging the beginning period deferred revenue (current portion) and end period deferred revenue (current portion) divided by the portion of the year being analyzed.

Project Value represents the value of upfront and future payments by customers, the benefits received from utility and state incentives, as well as the present value of net proceeds derived through investment funds. Specifically, Project Value is calculated as the sum of the following items (all measured on a per-watt basis with respect to megawatts deployed under Customer Agreements during the period): (i) estimated Gross Earning Assets, (ii) utility or upfront state incentives, (iii) upfront payments from customers for deposits and partial or full prepayments of amounts otherwise due under Customer Agreements and which are not already included in Gross Earning Assets and (iv) finance proceeds from tax equity investors, excluding cash true-up payments or the value of asset contributions in lieu of cash true-up payments made to investors. Project Value includes contracted SRECs for all periods after July 1, 2015.

Unlevered NPV equals the difference between Project Value and estimated Creation Cost on a per watt basis.

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