



Los Angeles  
Department of  
Water & Power

# FEED-IN TARIFF 2023 ANNUAL REPORT

DISTRIBUTED ENERGY RESOURCE PROGRAMS



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# Executive Summary

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## 2023 Major Milestones and Highlights

Since the Feed-in Tariff (FiT) Program launched in 2013, a total of 796 applications have been submitted and 157 projects totaling 107.1 megawatts (MW) have been constructed. In 2023 alone, 14 new projects totaling about 5.4 MW were commissioned.

Based on the generation for 2023, 48,195 metric tons of CO<sub>2</sub> emissions are avoided annually, and approximately 32 thousand homes are served carbon-free per year. The FiT program executed 10 power purchase agreements totaling a capacity of 6.2 MW expected to reach commercial operation in 2024.

In 2022, Los Angeles once again achieved the most installed solar power of any city in America, as it has 8 out of the last 9 years, according to the *Shining Cities 2022* report by the Environment California Research and Policy Center. The rapid progress brings the city closer to meeting several goals outlined in L.A.'s Green New Deal Sustainability Plan, including a clean and resilient energy supply through the expansion of solar resources.

## Energy Production for 2023

Based on a contract term of 20 years for a majority of the 157 projects, the lifetime production is projected to be about 4.34 terawatt-hours (4.34 million megawatt-hours). In 2023, the projects generated approximately 174,182 MWh compared to an expected 211,582 MWh.

In 2023, solar production declined compared to 2022 (Figure 1). This decrease can be attributed to lower solar radiation levels in Los Angeles during 2023. According to the California Measurement Advisory Council ([www.CalMAC.org](http://www.CalMAC.org)), solar ground radiation in 2023 was approximately 87% of the levels recorded in 2022, measured in watts per square meter.

## Historical Program Background

On April 17, 2012, the Board of Water and Power Commissioners (the Board) adopted the FiT Demonstration Program Guidelines, Standard Offer Power Purchase Agreement (SOPPA), and the Standard Offer for Customer Generation Interconnection Agreement (IA), to be effective upon the adoption of an ordinance authorizing the Board to enter into long-term FiT contracts and to delegate that authority to the General Manager.

On May 17, 2012, Ordinance No. 182108 amended the Los Angeles Administrative Code (LAAC) to authorize the Board to enter into 150 MW of long-term FiT contracts and to delegate that authority to the General Manager.

On January 11, 2013, the Board adopted the 100 MW FiT Set Pricing Program (FiT 100), FiT Set Pricing Program Guidelines, SOPPA, and IA.

On April 16, 2013, the Board adopted the FiT50 program via Resolution 013-249, consisting of an additional 50 MW of local solar, as the remaining part of the full 150 MW FiT Program and in conjunction with the Beacon Bundled Solar Program, and also called for a plan to capture any potential FiT50 capacity that may fail to develop, as either an addition to FiT100 or some other FiT offering, so that the total FiT development goal remains at 150 MW.

On February 18, 2014, the Board adopted the revised FiT Set Pricing Program Guidelines, SOPPA, and IA for use in the 100 MW Set Pricing Program.

On May 16, 2017, the Board adopted Resolution 017-234 for the 65 MW FiT Capacity Re-offer, as the unclaimed part of the FiT 100 program.

On September 24, 2019, the Board adopted Resolution 20-059, authorizing 50 MW to be added to the FiT program immediately upon City Council approval, with another 250 MW reserved for future FiT programs.

On December 4, 2019, Ordinance No. 186467 amended Section 10.5.2 of the LAAC authorizing the Board to enter into an additional 300 MW of long-term FiT contracts, a cumulative total of 450 MW, and raising the maximum project capacity from 3 to 10 MW.

On March 26, 2021, the Board adopted Resolution 021-121 for the Clean Grid LA: Feed-in Tariff Plus Pilot Program. Through this Resolution, 10 MW of capacity was reallocated to enable the submission and approval of applications for collocated solar and storage projects in three geographical DER zones.

On April 24, 2023, the Board adopted Resolution 023-199, to allocate proceeds from the California Air Resources Board Assembly Bill 32 Cap and Trade Program for Feed-in Tariff Carport and Canopy Incentives. The Board also authorized 75 MW of capacity for Feed-in Tariff Programs as originally approved under Ordinance No. 186467.

## Next Steps

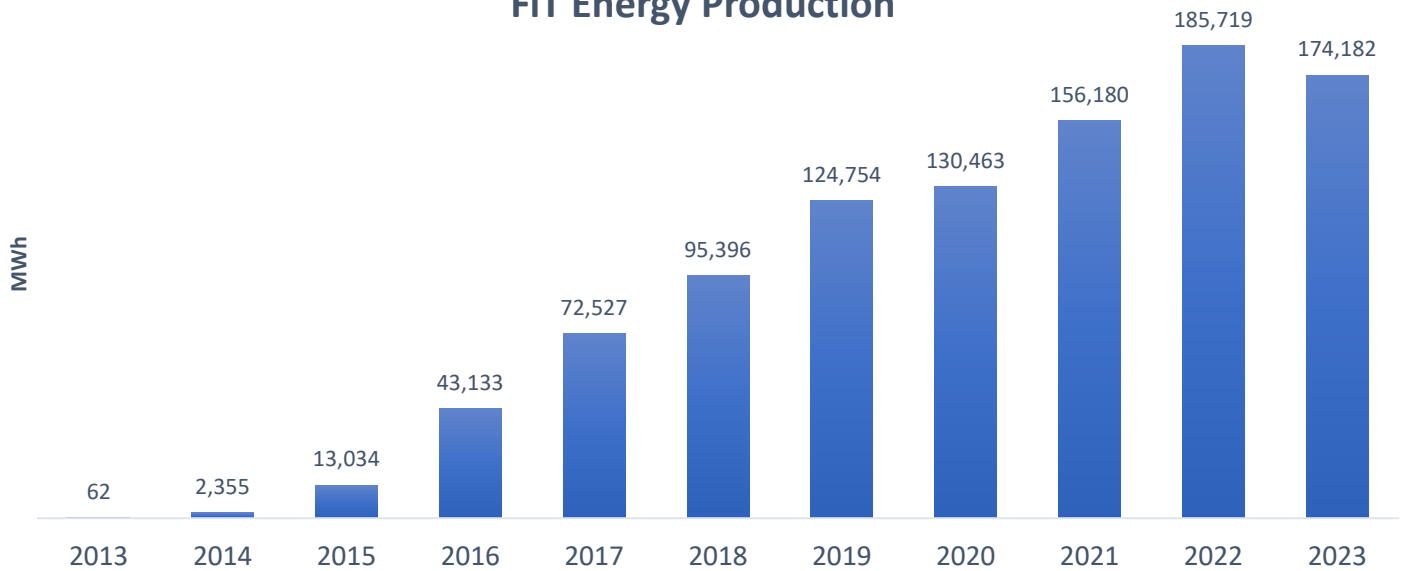
Technological advancements and public policies are encouraging greater adoption of Distributed Energy Resources (DERs) to meet electric system needs within the City of Los Angeles. DERs address local needs for in-basin generation to assist with power quality, carbon footprint reduction, and resiliency aspects of the distribution system. LADWP's integration of local DERs will better align resource investments as higher levels of renewable generation are achieved. The Feed-in Tariff Plus (FiT+) Program Pilot, an extension of the existing FiT Program, allows photovoltaic (PV) solar and energy storage systems to be competitively bid and integrated into LADWP's grid. Initial deployment of FiT+ focused on Preferred Zones of Development within the 4.8kV distribution system and in the future will allow 34.5kV interconnection.

# Appendix

Table 1 – Projects Energized in 2023

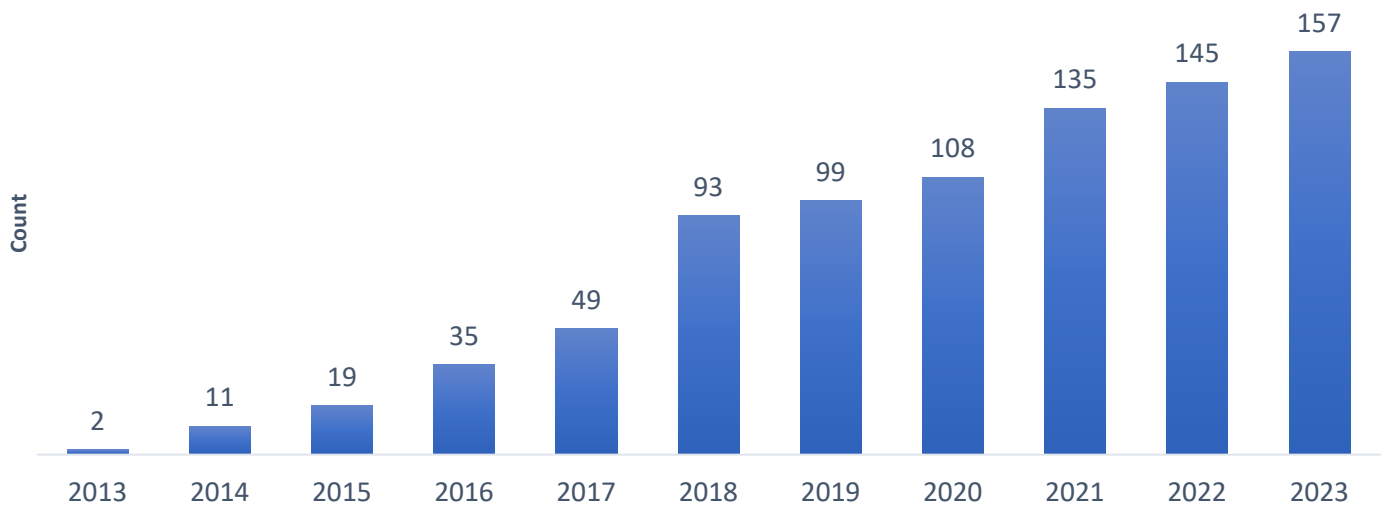
<b>Program</b>	<b>Project Name</b>	<b>Commercial Operation Date</b>	<b>Nameplate Capacity (kW CEC-AC)</b>
SetFiT	20126 : NORTHRIDGE MALL / SHIRLEY AVE	2/23/2023	251.11
SetFiT	25759 : CA-Sylmar / Foothills & Yarnell	6/26/2023	133.20
SetFiT	CA-SILVERLAKE / GLENDALE BLVD.27822	7/17/2023	85.64
SetFiT	08509 : CA-PALMS / RESCO LLC	8/16/2023	78.81
FiT200	Frostys	12/11/2023	414.82
SetFiT	7119 Fair Ave	12/27/2023	118.96
SetFiT	VS RXI Gardena LLC	12/29/2023	298.77
SetFiT	VS DS Boyle, LLC	12/29/2023	240.10
SetFiT	VS LADWPGLP Lurline	12/29/2023	382.05
SetFiT	VS LADWPGLP Lurline	12/29/2023	197.05
SetFiT	VS LADWPGLP Lurline	12/29/2023	64.95
FiT200	VS Arminta Solar I	12/29/2023	719.79
FiT200	VS Arminta Solar II	12/29/2023	585.28
SetFiT	Alta Sea	12/30/2023	1821.00
		<b>Total Capacity (kW):</b>	<b>5,391.53</b>

### FiT Energy Production



**Figure 1 - Annual Energy Production Since Program Inception (MWh)**

### FiT Projects in Operation (Cummulative)



**Figure 2 - Projects In-Service (MW)**

### FiT Capacity (Cummulative)

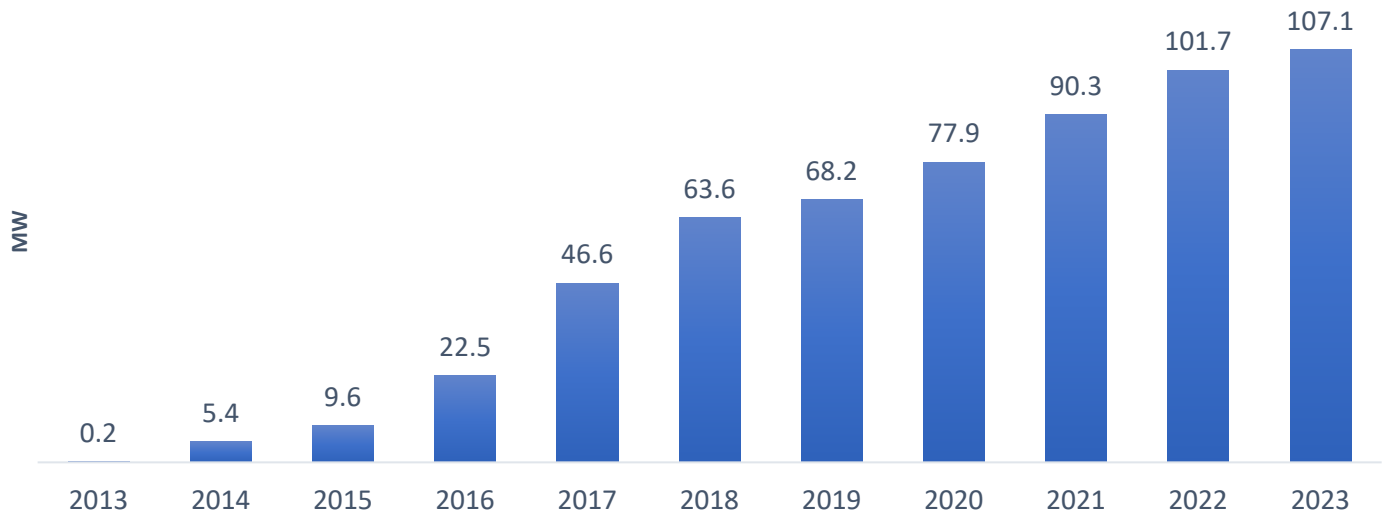


Figure 3 - Capacity In-Service (MW)

### Energy Production per Allocation (MWh)

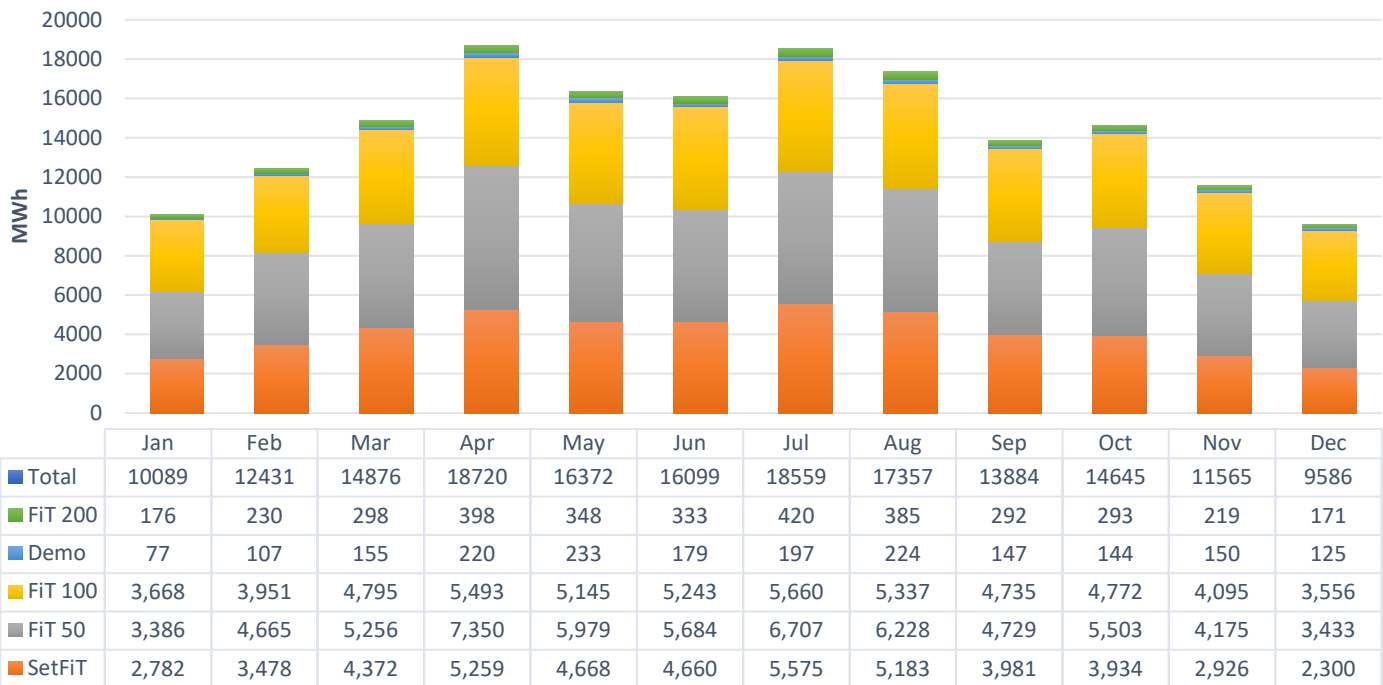
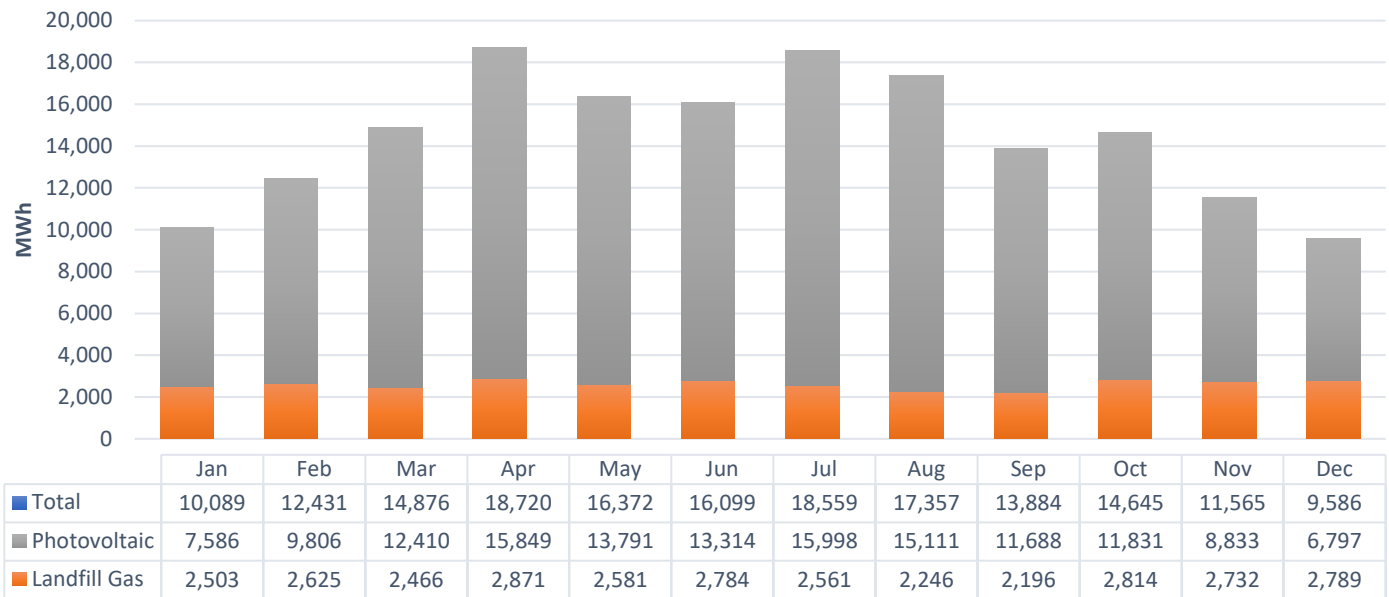


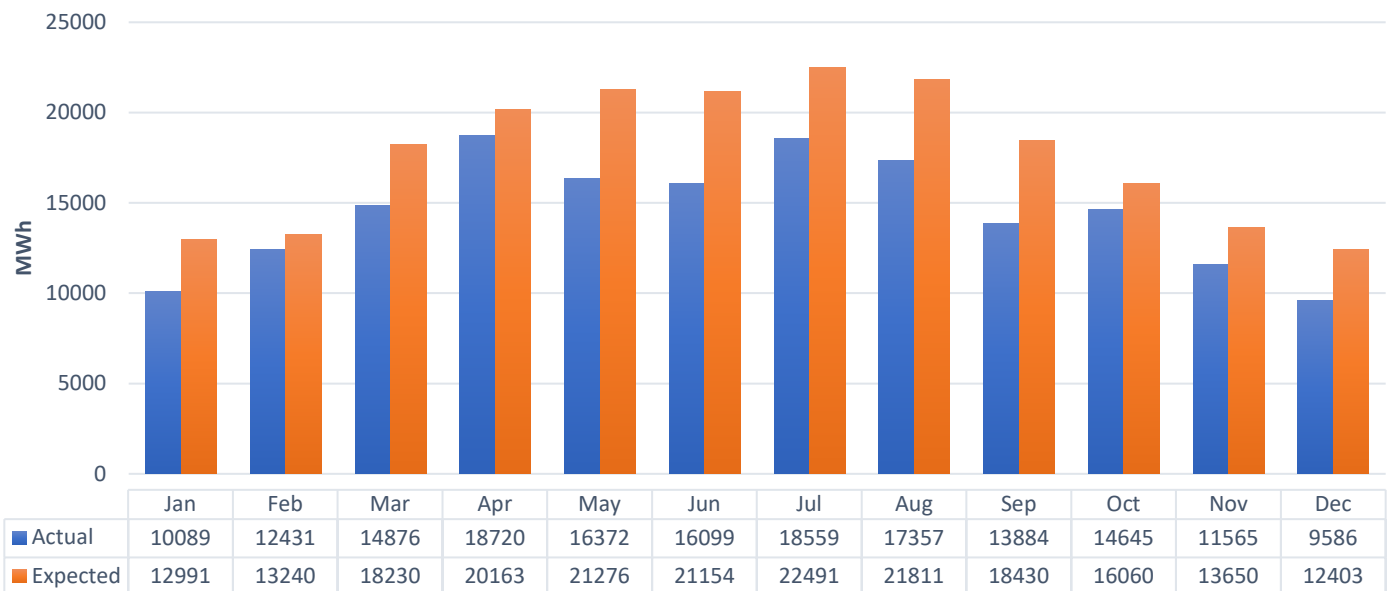
Figure 4 - Energy Production per Program in 2023

## Energy Production per Type of Generation (MWh)



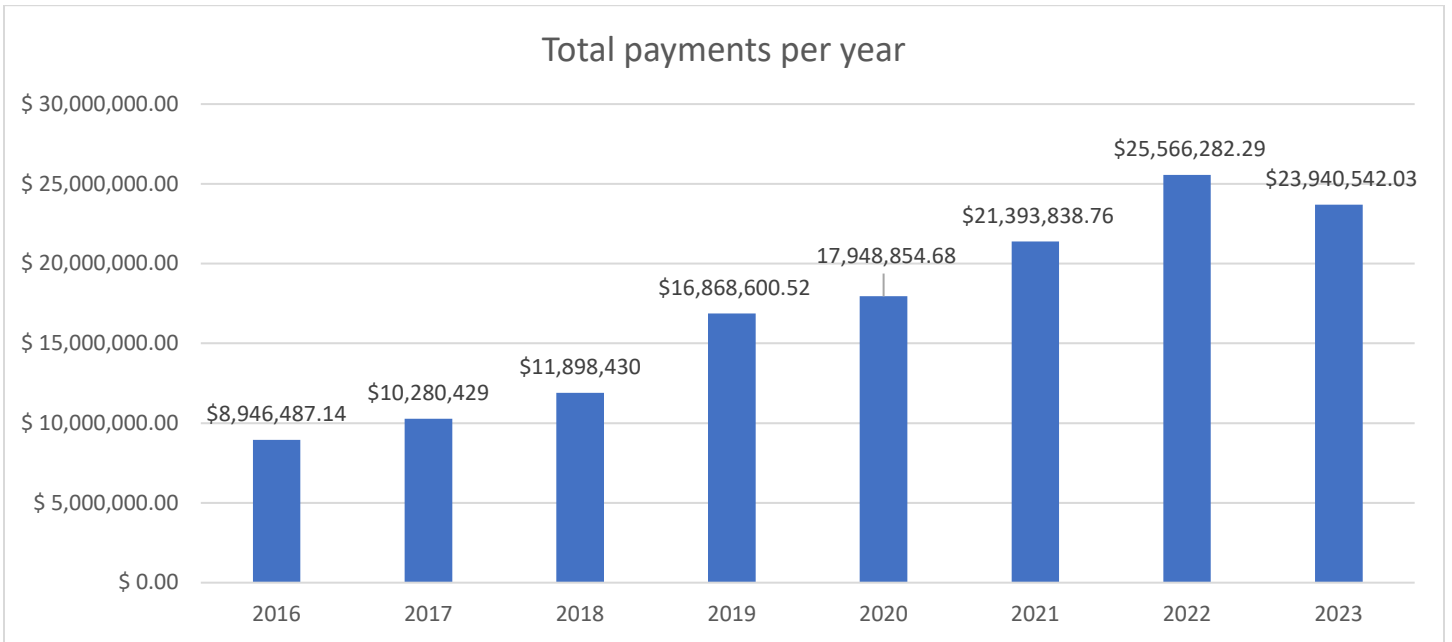
**Figure 5 - Energy Production per Generation Type in 2023**

## Actual vs Expected Generation (MWh)



**Figure 6 - Actual vs Expected Generation in 2023**





**Figure 7 - Total FiT Payments Annually**



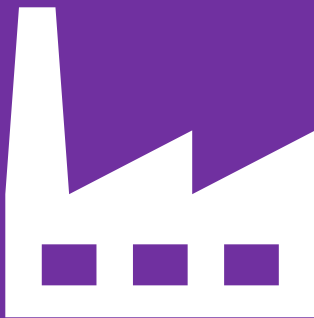
Energy Savings Equivalent  
to Number of Homes Served

32,557



CO<sub>2</sub> Emissions Avoided to Number  
of Automobiles Not Driven

11,447



Energy Savings to CO<sub>2</sub> Emissions  
Avoided  
(Metric Tons)

48,195

Figure 8 - Energy Savings Equivalents in 2023

## Energy Savings Equivalent to Number of Homes Served for 1 Year

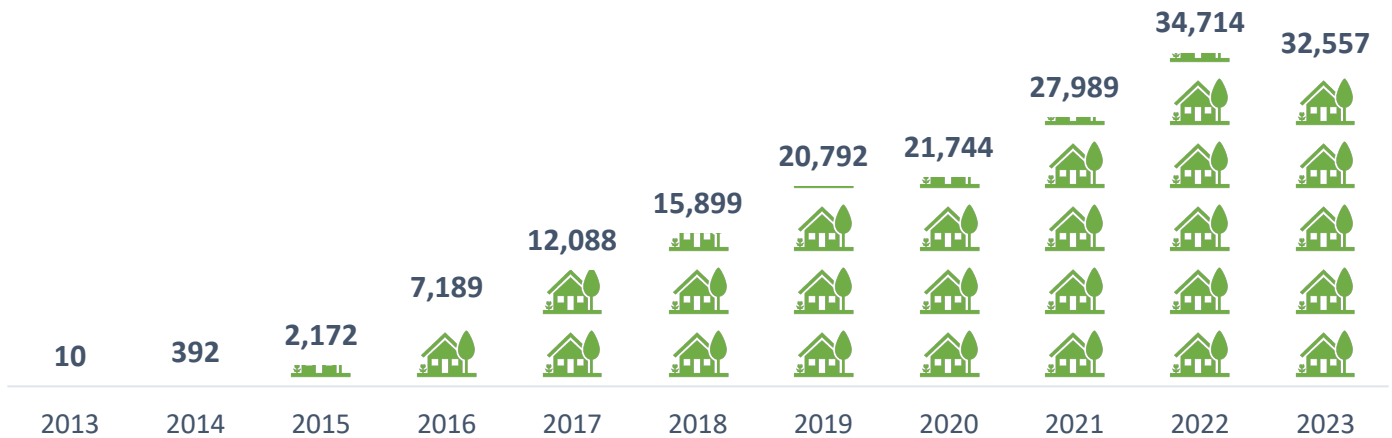


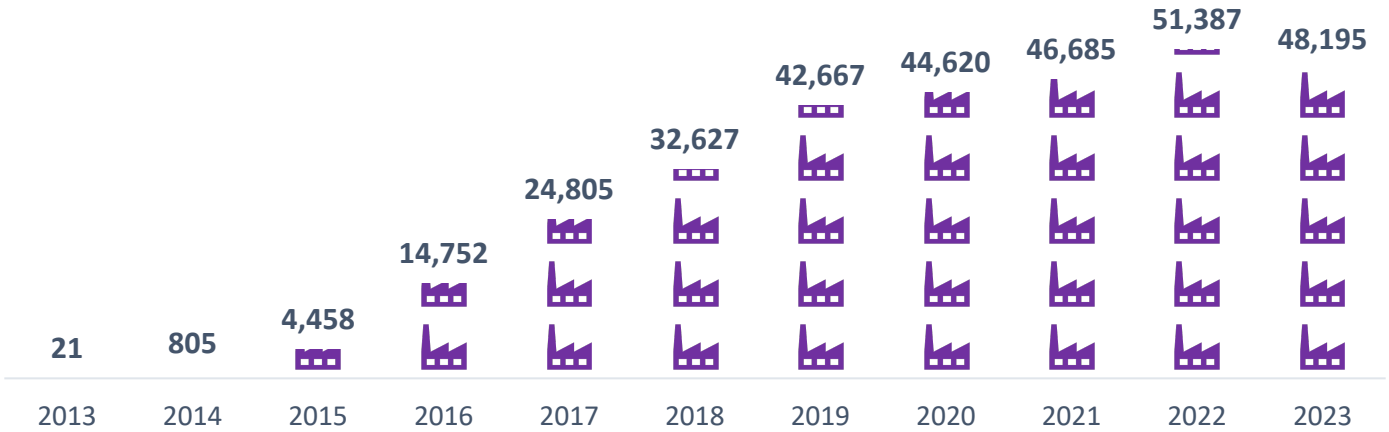
Figure 9 - Energy Savings Equivalent to Number of Homes Served for 1 Year

## CO2 Emissions Avoided to Number of Automobiles Not Driven for 1 Year



Figure 10 - Carbon Emissions Avoided Equivalent to Number of Automobiles Not Driven for 1 Year

## Energy Savings to CO2 Emissions Avoided (CO2 Metric Tons)



**Figure 11 - Energy Savings Equivalent to Carbon Emissions Avoided (Metric Tons)**

\*Note: CO2 Calculation for 2023 were updated per LADWPs Environmental group



**Table 2 – Energy Production Summary in 2023**

Project Name	Commercial Operation Date	Capacity (kW CEC-AC)	2023 Actual Production (kWh)	Total Payments in 2023
Oxen Solar I	7/16/2013	80	-	-
So. California Trophy CO	12/6/2013	120	-	-
Chatsmouth LLC Solar Project 1	1/15/2014	500	642,546.49	\$110,504.46
Bookends, LLC	6/9/2014	82.7	54,766.70	\$9,303.20
Nordhoff Place	9/23/2014	1184.3	1,322,070.09	\$210,038.31
Van Nuys Air 7855 Hayvenhurst - Hannah Solar	10/7/2014	666	995,886.59	\$212,397.54
Capelin Distribution Center	10/24/2014	999.3	1,349,485.72	\$217,764.60
Tangen Building	11/5/2014	31.5	27,139.10	\$4,683.91
Layline Distribution Center - MRB Solar LLC	11/6/2014	833	1,183,869.38	\$211,246.94
14539 Blythe Solar PV	11/7/2014	80	57,909.00	\$11,028.46
LAX Logistic industrial Center A,B - Hannah Solar	12/4/2014	833	961,487.81	\$210,268.65
3880 N Mission Road Solar FIT	2/13/2015	1559.25	1,738,246.57	\$277,570.12
Saf Keep San Fernando	3/2/2015	144.08	204,979.50	\$33,108.13
6100 N Figueroa	4/16/2015	32.142	46,012.90	\$7,446.41
Cathay LA - Solar Project	6/6/2015	387.412	536,851.80	\$83,141.77
SunStarter Solar CX VI	7/28/2015	300	165,656.00	\$27,330.07
Mastercraft 96.64kW Solar PV	9/3/2015	96.64	64,805.00	\$11,295.90
Colon FIT, LLC	12/14/2015	1295	1,431,835.80	\$233,211.52
Don Goldman	12/17/2015	333	388,774.50	\$65,449.20
MM Lopez Energy LLC	1/29/2016	2950	26,306,439.00	\$3,174,572.20
Port LA Solar FIT Project	2/19/2016	1076.382	1,614,866.79	\$228,486.95
20001 Prairie	3/1/2016	213.6	20,042.30	\$2,678.65
SOL #1425 Sylmar	3/4/2016	134.56	215,761.20	\$37,661.58
SOL #1254 PACOIMA	4/1/2016	90.801	121,129.50	\$20,074.83
SOL #1122 North Hollywood	4/1/2016	236.696	296,566.20	\$51,583.24
19809 Prairie	4/27/2016	146.926	82,031.50	\$13,142.64
SOL #1160 Los Angeles	5/19/2016	87.125	125,335.20	\$21,717.56
Saf Keep Melrose	5/19/2016	144.08	201,597.20	\$32,822.98
M-C Investments 4558 Brazil	7/19/2016	148	170,804.50	\$25,997.74
SOL #1235 LOS ANGELES	8/17/2016	139.8	174,086.10	\$30,142.08
Laurel	8/22/2016	446.35	666,999.70	\$110,681.72
5801 N Figueroa	11/2/2016	136.61	43,584.80	\$7,095.78
Owens Valley Solar Project 5	12/10/2016	3000	6,167,381.32	\$859,578.71
Owens Valley Solar Project 11	12/10/2016	1000	2,313,255.90	\$322,694.00

Project Name	Commercial Operation Date	Capacity (kW CEC-AC)	2023 Actual Production (kWh)	Total Payments in 2023
Westmont 300B	12/31/2016	2998	5,225,369.47	\$703,088.77
USPS FIT 1A	2/3/2017	1138	1,659,537.29	\$197,021.22
USPS FIT 1B	2/3/2017	3211	4,934,924.73	\$585,324.55
Westmont 300A	3/30/2017	2998.4	5,107,827.84	\$690,052.68
USPS FIT 2A	4/10/2017	1127	1,463,549.36	\$176,470.55
USPS FIT 2B	4/10/2017	1880	2,709,432.95	\$327,744.09
Harbor Regional Park Solar Array	4/19/2017	89.9	134,541.60	\$22,955.02
Shri Ji Ram Solar FIT Project	7/26/2017	349	415,516.71	\$54,522.91
Westmont 400A	7/31/2017	2287	3,538,255.67	\$480,147.79
Westmont 400B	7/31/2017	2187.5	3,697,955.86	\$496,296.53
Westmont 401	11/20/2017	2854.3	4,615,909.73	\$624,329.77
SOL #8011 Venice	12/13/2017	148.58	238,789.00	\$42,181.84
Westmont 301	12/15/2017	1795.5	3,000,578.92	\$405,860.64
DS3 Solar FiT Project	12/28/2017	495.7	539,755.50	\$78,264.56
DS2 Solar FiT Project	12/28/2017	233.3	259,770.30	\$37,666.70
7061 Foothill	5/9/2018	51.07	804.00	\$272.09
Alegria Clean Energy	6/26/2018	39	44,176.00	\$6,804.84
Valley Solar #6	6/29/2018	208.6	281,618.90	\$40,834.74
Valley Solar #5	7/10/2018	205.1	252,630.80	\$36,631.47
Flight Building 11	7/25/2018	59.9	88,066.50	\$13,310.77
Flight Building 12	7/25/2018	39.7	27,950.60	\$4,240.19
Flight Building 13	7/25/2018	122.4	172,692.90	\$25,916.63
Flight Building 10	8/7/2018	54.5	47,521.30	\$6,745.63
Aeroplex 2	8/13/2018	952.93	1,116,748.99	\$161,928.60
Aeroplex	8/14/2018	381.3	536,564.79	\$77,801.91
Van Nuys Air - 16620 Stagg St	8/21/2018	402	642,977.21	\$108,854.36
Flight Building 6	8/21/2018	52.2	67,727.70	\$10,404.52
Valley Solar #1	8/29/2018	387.3	566,148.60	\$82,091.54
Flight Building 1	9/7/2018	124	193,544.60	\$29,236.25
Flight Building 8	9/7/2018	49.5	64,867.40	\$9,837.19
Flight Building 2	9/11/2018	55.9	58,257.10	\$8,948.74
Flight Building 3	9/11/2018	55.9	77,324.60	\$11,843.16
Flight Building 4	9/11/2018	35.4	48,024.70	\$7,462.08
Flight Building 5	9/11/2018	70.9	101,200.50	\$15,369.72
US Customs House	9/11/2018	573.33	854,677.90	\$101,230.85
Flight Building 7	9/19/2018	95.4	136,927.30	\$20,783.10
Ardagh Cannery Building #8	9/20/2018	990	1,996,576.52	\$228,378.68
New Hope	10/3/2018	300	358,135.20	\$59,973.75

Project Name	Commercial Operation Date	Capacity (kW CEC-AC)	2023 Actual Production (kWh)	Total Payments in 2023
13207 Bradley Avenue	10/22/2018	785.58	868,528.72	\$125,936.67
M&D 1-4 LLC	10/29/2018	104.6	160,782.90	\$24,125.92
M&D 5-8 LLC	10/29/2018	104.6	162,723.70	\$24,360.82
M&D 9-12 LLC	10/29/2018	104.6	161,312.30	\$24,129.50
M&D 13-18 LLC	10/29/2018	104.6	160,969.60	\$24,120.18
M&D 19-24 LLC	10/29/2018	104.6	151,995.20	\$22,956.06
M&D 25-30 LLC	10/29/2018	104.6	162,018.60	\$24,197.25
Flight Building 9	10/30/2018	92.2	112,784.70	\$17,703.39
BJE Solar FIT Project II	11/16/2018	196.93	259,746.80	\$36,531.79
BJE Solar FIT Project	11/16/2018	669.79	807,940.21	\$114,175.32
Sun Valley 2	11/28/2018	662.025	876,053.10	\$127,027.71
Francisco	12/7/2018	1262	1,854,834.38	\$267,246.50
Berths 153, 154-155	12/12/2018	1060.644	1,641,809.60	\$197,951.09
Napa FIT	12/13/2018	387	376,879.21	\$49,725.92
Vaughn Solar	12/19/2018	2000	1,048,705.39	\$169,951.20
Sun Valley 1	12/20/2018	1924.1	2,741,007.78	\$397,446.14
WE Solar FIT Project	12/21/2018	985.85	1,321,172.90	\$190,021.57
BERTH 54-55 FRUIT TERMINAL	12/21/2018	1191	1,937,619.29	\$230,446.23
SW2, LLC	12/31/2018	149.885	197,906.10	\$30,174.79
Century House Apartments Solar	4/4/2019	146.857	179,540.70	\$26,033.40
Flight Building 14	4/16/2019	44.3	55,654.30	\$8,948.53
Canoga Chatsworth	5/15/2019	611.467	958,246.80	\$138,945.78
De Soto	6/26/2019	1156.069	1,806,810.71	\$261,987.56
Woodman & Nordhoff Center	7/24/2019	642.845	246,221.80	\$40,503.11
Irondale Properties, LLC	10/29/2019	308.3	481,681.10	\$69,843.78
Chatsworth 1	11/8/2019	453.19	483,868.10	\$70,160.87
Dedeaux	12/27/2019	1217.8	1,769,630.00	\$256,596.36
Zelzah	3/6/2020	552	408,283.99	\$47,383.06
1 Gen	5/29/2020	429.89	655,154.41	\$94,997.38
Western Jet	7/29/2020	1178	1,636,258.59	\$237,257.49
PMA	12/14/2020	784	1,273,239.62	\$153,756.10
Berth 161	12/15/2020	815.8	1,293,646.23	\$152,940.82
Marina South	12/17/2020	1053	1,840,949.10	\$222,883.58
Chill Solar	12/23/2020	6052	7,849,836.84	\$1,138,226.34
Catalina Express	12/30/2020	1098	1,764,312.20	\$212,854.56
VS RXI Pacoima	12/31/2020	729.059	1,289,616.50	\$186,994.38
Liberty Hill Plaza	12/31/2020	338.9	560,729.90	\$66,428.20
Xebec 4 Nordhoff	1/29/2021	564	846,097.39	\$122,684.13

Project Name	Commercial Operation Date	Capacity (kW CEC-AC)	2023 Actual Production (kWh)	Total Payments in 2023
Castle 2	2/3/2021	823.72	1,272,575.30	\$184,523.41
24609 : CA-W LA / PICO BLVD & PURDUE	3/3/2021	96.24	24,525.80	\$3,556.25
11085 Olinda Street	3/13/2021	365.62	543,637.10	\$78,827.38
08511 : WOODLAND HILLS/ VENTURA SHOUP	3/17/2021	97.117	158,138.30	\$22,012.84
21718 W.LA/W.OLYMPICBL&BARNGTN(A&B)	3/19/2021	146.963	(4,362.80)	\$-
Castle 1	3/25/2021	148.51	206,419.30	\$29,930.81
00102 : VAN NUYS / SEPULVEDA-A	3/30/2021	175.51	243,663.30	\$35,331.19
Xebec 3 Prairie	4/8/2021	1923.13	2,855,515.31	\$414,049.73
20124 : CHATSWORTH / TOPANGA CYN BLVD	4/16/2021	101.6	151,462.40	\$21,939.14
21012 : CANOGA PARK / SHERMAN Way	5/11/2021	167.879	217,919.20	\$31,598.31
Clay Lacy 2	6/2/2021	450.32	673,232.60	\$97,618.72
29139 : N HOLLYWD/SHERMANWY&LANKERSHIM	7/30/2021	212.647	257,203.10	\$37,294.44
29143 : LOSANGELES/W.PICO BL(WSPC85813	8/13/2021	204.34	291,272.20	\$42,234.48
07024 : CA-W LA / W OLYMPIC BLVD & SAWTELLE	8/20/2021	108.91	141,682.30	\$20,543.94
26406 : CA-HOLLYWOOD / HIGHLAND SANTA MONICA	8/31/2021	117.5	166,200.60	\$24,099.09
08515 : NORTHRIDGE / BALBOA / LASSEN	9/29/2021	117.57	179,159.60	\$25,978.14
29208 : TORRANCE / 190th & WESTERN AVE	11/3/2021	202.483	290,099.50	\$42,064.44
Solar Photovoltaic Generating Facility and Interconnection Facilities	11/5/2021	499.53	647,563.11	\$93,896.65
Benco FIT	12/15/2021	946.46	1,675,460.89	\$228,697.28
00204 : CA-GLENDALE / EAGLE ROCK BLVD	12/20/2021	151.39	155,241.90	\$22,510.08
Park Plaza	12/20/2021	311.83	516,064.89	\$74,829.41
Normandie Solar (FIT)	12/22/2021	2974.518	4,065,402.59	\$589,483.39
VS RXI Sylmar 1	12/29/2021	118.234	194,043.70	\$28,136.34
VS RXI Sylmar 2	12/29/2021	719.26	1,247,590.00	\$180,900.53
VS RXI Harbor City	12/29/2021	669.946	1,233,233.80	\$178,818.90
Balboa I Solar (FIT)	2/3/2022	2759.56	4,080,923.99	\$591,733.98
VS RXI San Fernando	2/11/2022	512.313	808,713.11	\$117,263.42
CCC-Lassen	3/22/2022	470.28	723,651.90	\$104,929.52
VS LADWPGLP Francisco	4/8/2022	1244.677	2,174,680.97	\$315,328.72
Balboa II Solar (FIT)	4/14/2022	889.88	1,359,056.31	\$197,063.17
VS RXI Panorama City	5/26/2022	1395.174	2,053,008.91	\$297,686.29
VS RXI Wilmington	7/5/2022	1012	1,854,566.11	\$268,912.08



Project Name	Commercial Operation Date	Capacity (kW CEC-AC)	2023 Actual Production (kWh)	Total Payments in 2023
Toyon Landfill Gas Conversion LLC	7/8/2022	1062	4,862,119.86	\$559,644.92
Zelman-FIT 1 (FIT)	7/14/2022	1687.186	2,380,772.31	\$345,211.98
Norris Ave. Solar	12/15/2022	477.49	724,764.00	\$105,090.80
20126 : NORTHRIDGE MALL / SHIRLEY AVE	2/23/2023	251.11	264,078.30	\$38,291.35
25759 : CA-SYLMAR / FOOTHILLS & YARNELL	6/26/2023	148.31	48,890.90	\$7,089.19
27822 : CA-SILVERLAKE / GLENDALE BLVD	7/17/2023	85.64	49,502.00	\$7,177.79
08509 : CA-PALMS / RESCO LLC	8/16/2023	78.81	20,980.40	\$3,042.17
Frostys	12/11/2023	414.82	-	-
7119 Fair Ave	12/27/2023	118.958	-	-
VS RXI Gardena LLC	12/29/2023	298.767	-	-
VS DS Boyle, LLC	12/29/2023	240.1	-	-
VS LADWPGLP Lurline	12/29/2023	382.051	-	-
VS LADWPGLP Lurline	12/29/2023	197.047	-	-
VS LADWPGLP Lurline	12/29/2023	64.952	-	-
VS Arminta Solar I	12/29/2023	719.79	-	-
VS Arminta Solar II	12/29/2023	585.28	-	-
Alta Sea	12/30/2023	1821	-	-
<b>TOTAL</b>			<b>174,182,305.03</b>	<b>\$23,940,542.03</b>