



Los Angeles
Department of
Water & Power

FEED-IN TARIFF 2022 ANNUAL REPORT

DISTRIBUTED ENERGY RESOURCE PROGRAMS

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Executive Summary

2022 Major Milestones and Highlights

Since the Feed-in Tariff (FiT) Program launched in 2013, a total of 724 applications have been submitted and 145 projects totaling 101.7 megawatts (MW) have been constructed. In 2022 alone, 10 new projects totaling about 11.5 MW were commissioned.

Based on the generation for 2022, 51.4 million pounds of CO₂ emissions are avoided annually, and approximately 35 thousand homes are served carbon-free per year. The FiT program executed 6 power purchase agreements totaling a capacity of 5.3 MW expected to reach commercial operation in 2023.

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 2022

Based on a contract term of 20 years for a majority of the 145 projects, the lifetime production is projected to be about 4.08 terawatt-hours (4.08 million megawatt-hours). In 2022, the projects generated approximately 185,000 MWh compared to an expected 201,000 MWh.

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, will allow photovoltaic (PV) solar and energy storage systems to be competitively bid and integrated into LADWP's grid. Initial deployment of FiT+ will focus on Preferred Zones of Development within the 4.8kV distribution system.

Appendix

Table 1 – Projects Energized in 2022

Program	Project Name	Commercial Operation Date	Nameplate Capacity (kW CEC-AC)
SetFIT	Balboa I Solar (FIT)	2/3/2022	2759.56
SetFIT	VS RXI San Fernando	2/11/2022	512.313
SetFIT	CCC-Lassen	3/22/2022	470.28
SetFIT	VS LADWPGLP Francisco	4/8/2022	1244.677
SetFIT	Balboa II Solar (FIT)	4/14/2022	889.88
SetFIT	VS RXI Panorama City	5/26/2022	1395.174
SetFIT	VS RXI Wilmington	7/5/2022	1012
SetFIT	Toyon Landfill Gas Conversion LLC	7/8/2022	1062
Fit200	Zelman-FIT 1 (FIT)	7/14/2022	1687.186
Fit200	Norris Ave, Solar	12/12/2022	477.49
		Total Capacity (kW):	11,510.56

FiT Energy Production (Cumulative)

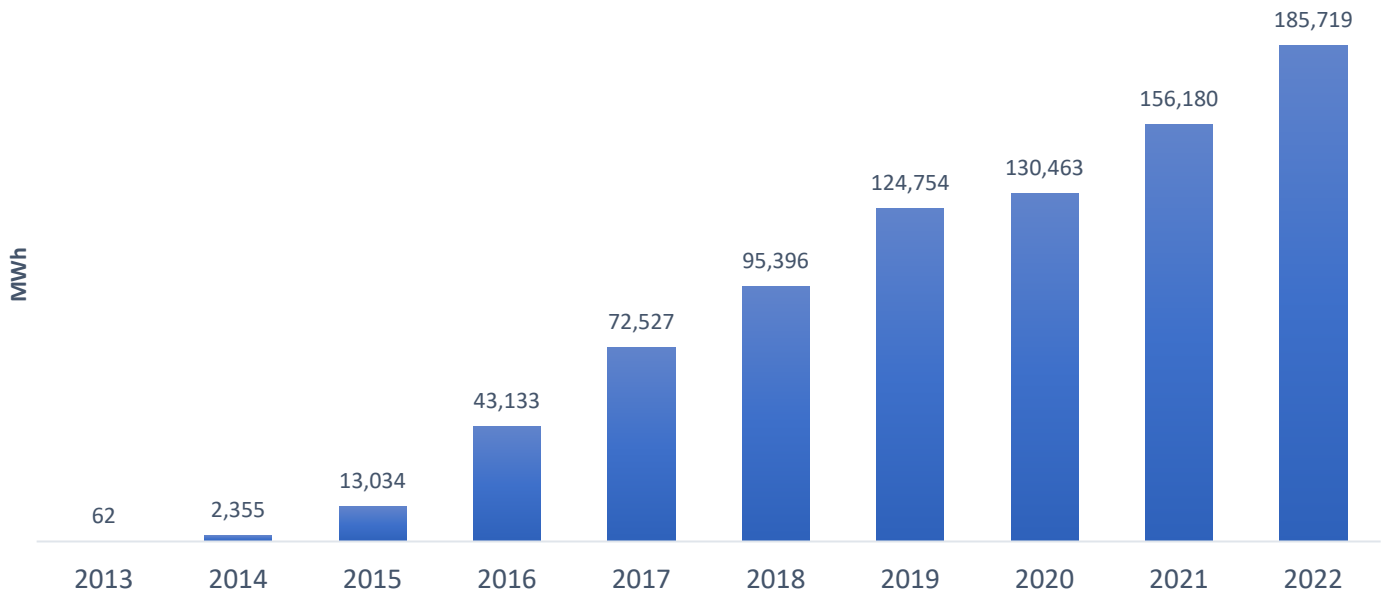


Figure 1 -- Annual Energy Production Since Program Inception (MWh)

FiT Projects in Operation (Cumulative)

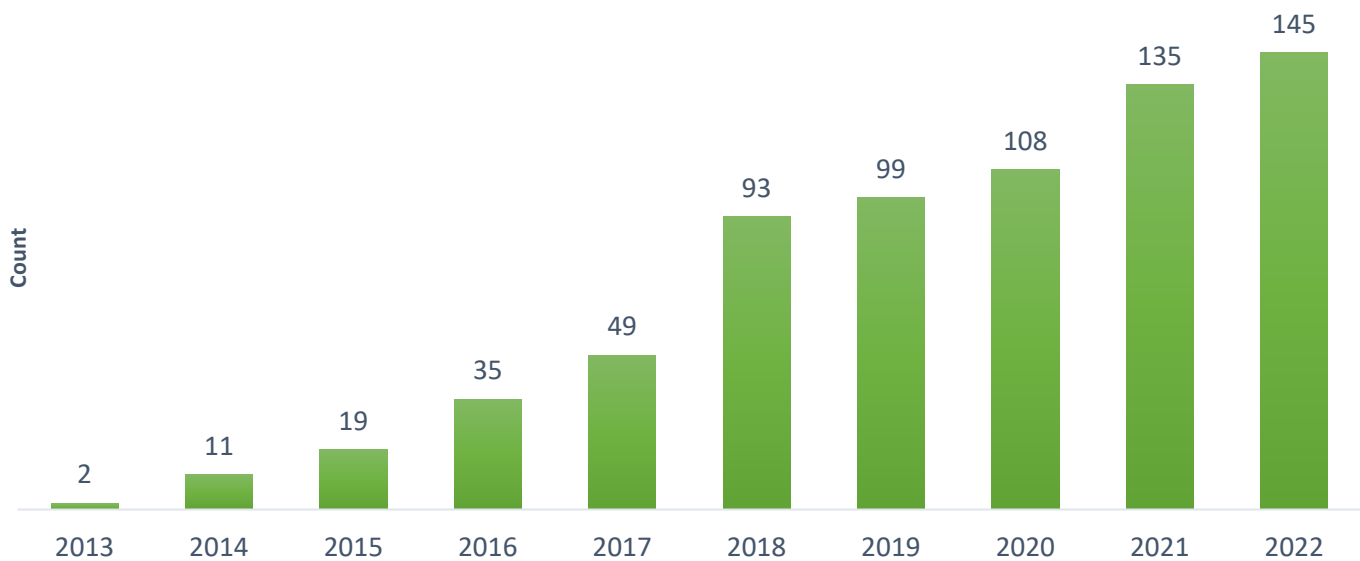


Figure 2 - Projects In-Service (MW)

FiT Capacity (Cumulative)

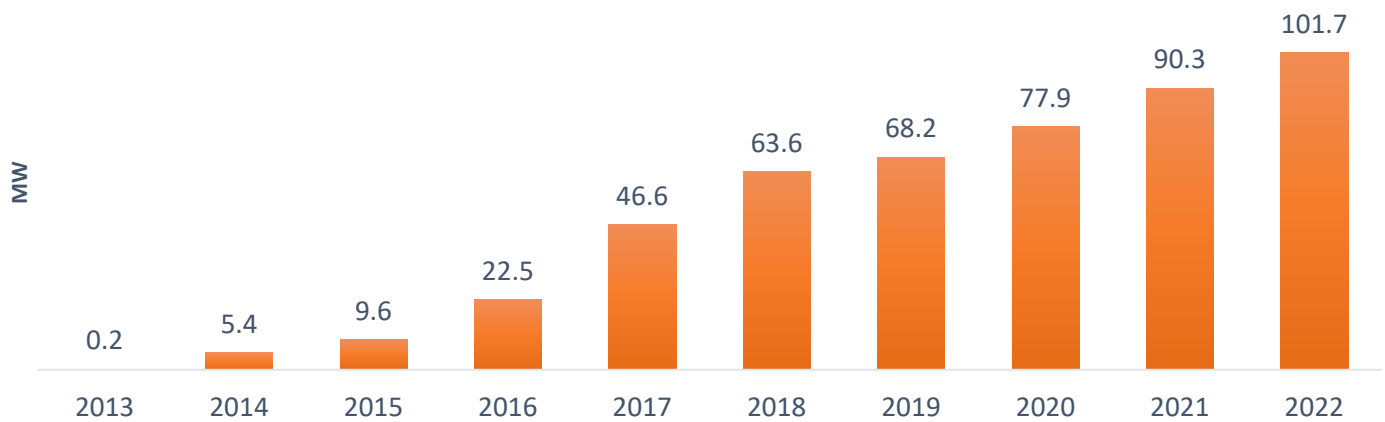
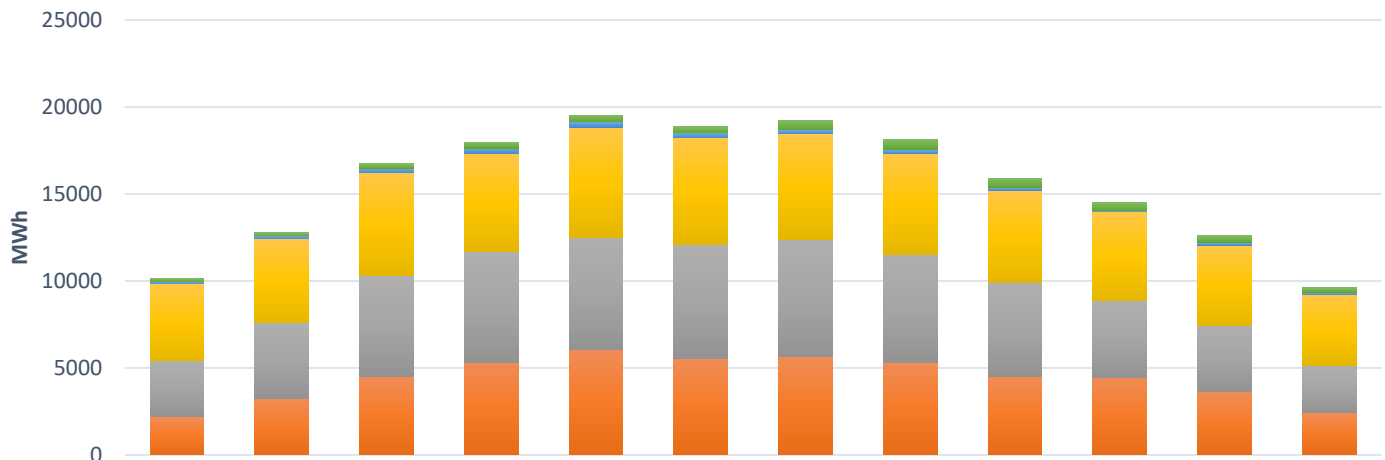


Figure 3 - Capacity In-Service (MW)

Energy Production per Allocation (MWh)



	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total	10149	12764	16737	17969	19516	18866	19204	18137	15870	14488	12594	9608
FiT 200	174	163	251	325	356	349	502	569	485	431	369	260
Demo	139	177	266	305	309	280	240	225	165	88	165	121
FiT 100	4,433	4828	5884	5661	6362	6146	6049	5801	5290	5094	4634	4062
FiT 50	3182	4364	5837	6356	6440	6547	6750	6229	5414	4401	3799	2710
SetFiT	2221	3232	4499	5322	6049	5544	5663	5313	4516	4474	3627	2455

Figure 4 - Energy Production per Program in 2022

Energy Production per Type of Generation (MWh)

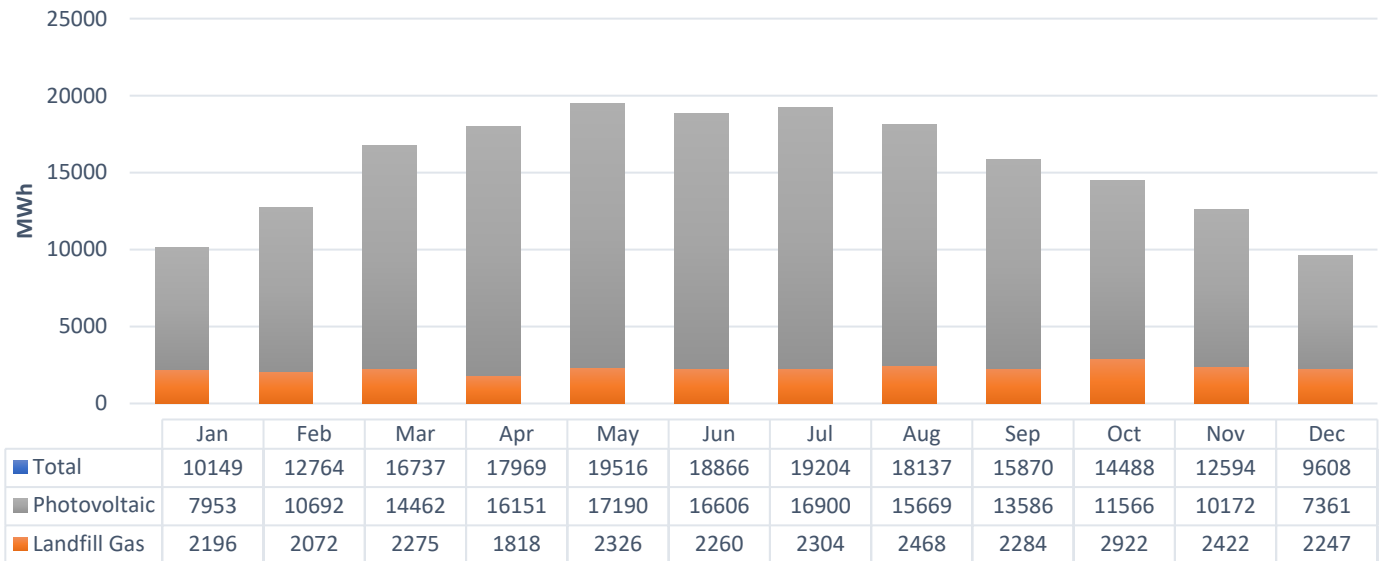


Figure 5 - Energy Production per Generation Type in 2022

Actual vs Expected Generation (MWh)

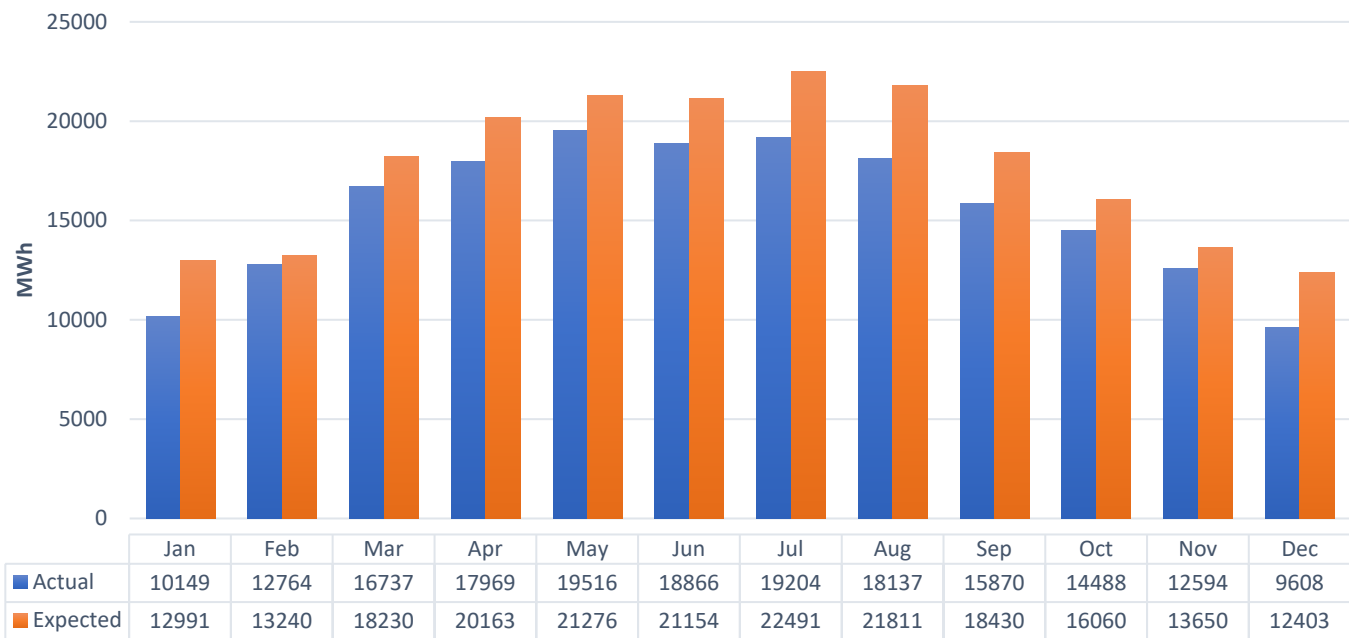


Figure 6 - Actual vs Expected Generation in 2022

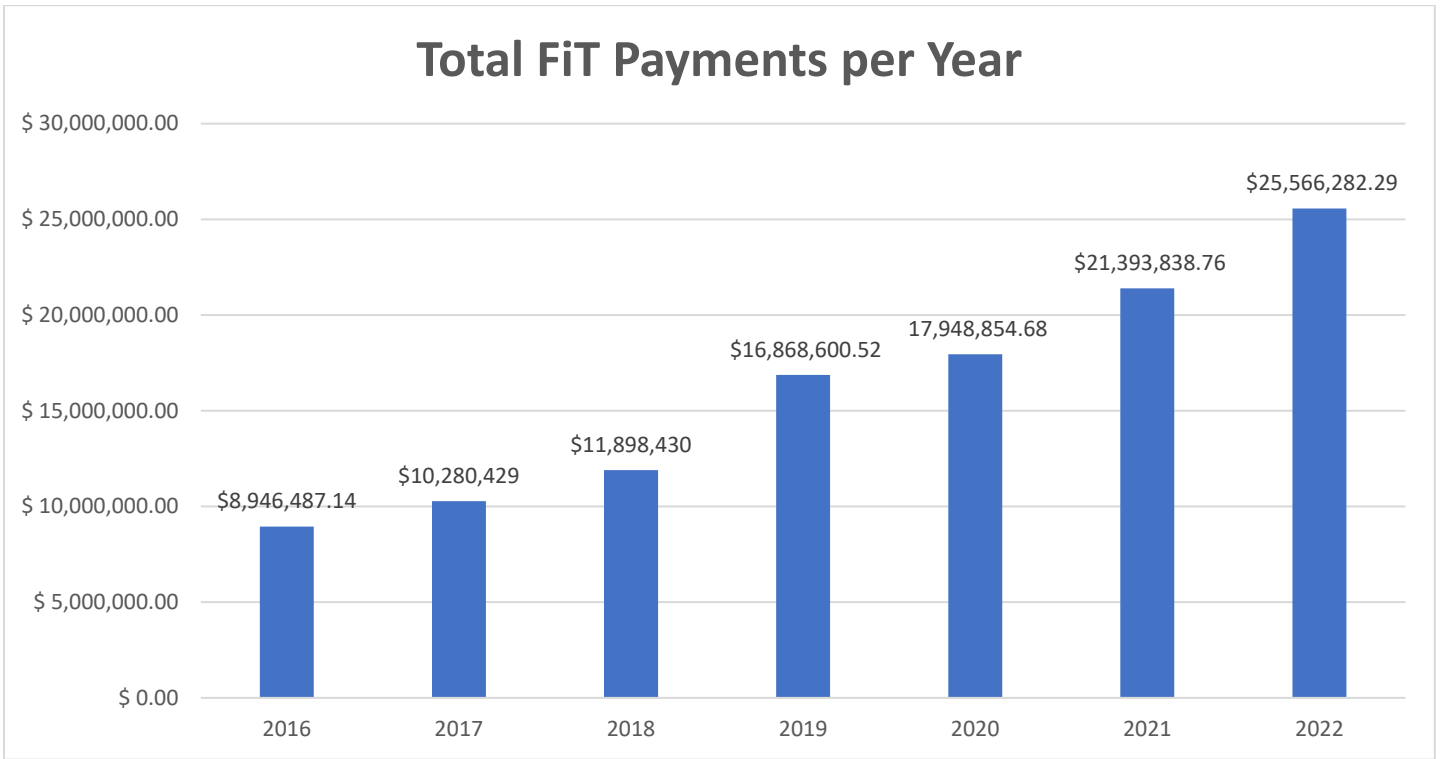


Figure 7 - Total FiT Payments Annually



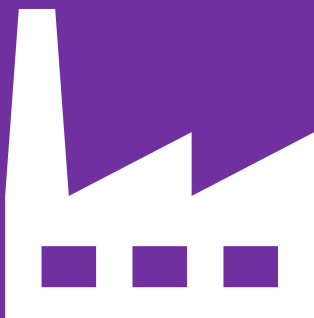
Energy Savings Equivalent
to Number of Homes Served

34,714



CO₂ Emissions Avoided to Number
of Automobiles Not Driven

12,237



Energy Savings to CO₂ Emissions
Avoided
(Metric Tons)

51,387

Figure 8 - Energy Savings Equivalents in 2022

Energy Savings Equivalent to Number of Homes Served for 1 Year

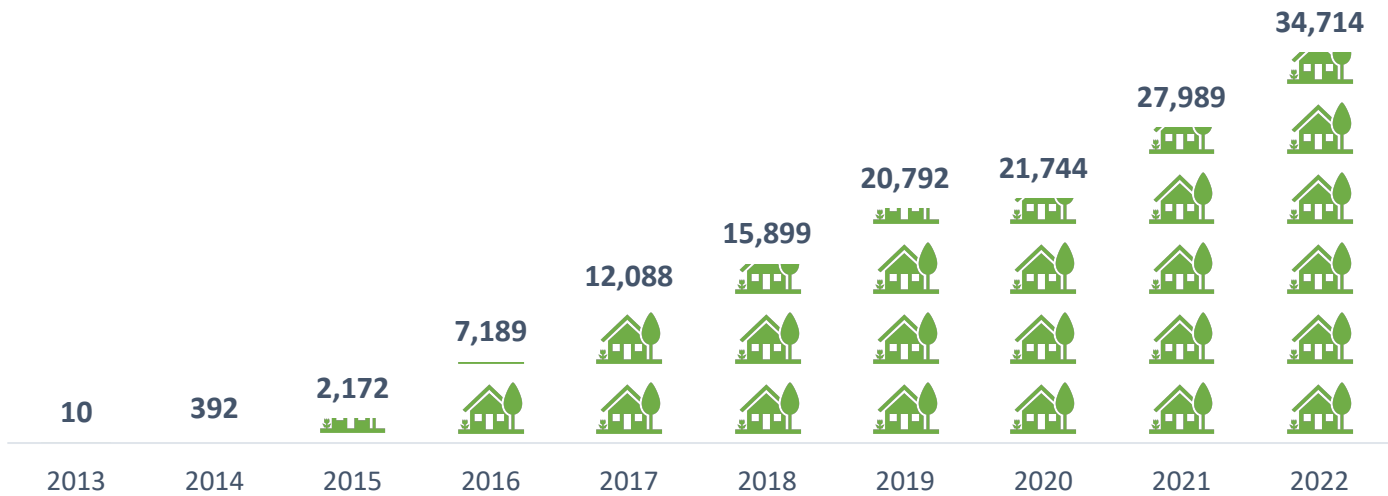


Figure 9 - Energy Savings Equivalent to Number of Homes Served for 1 Year

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

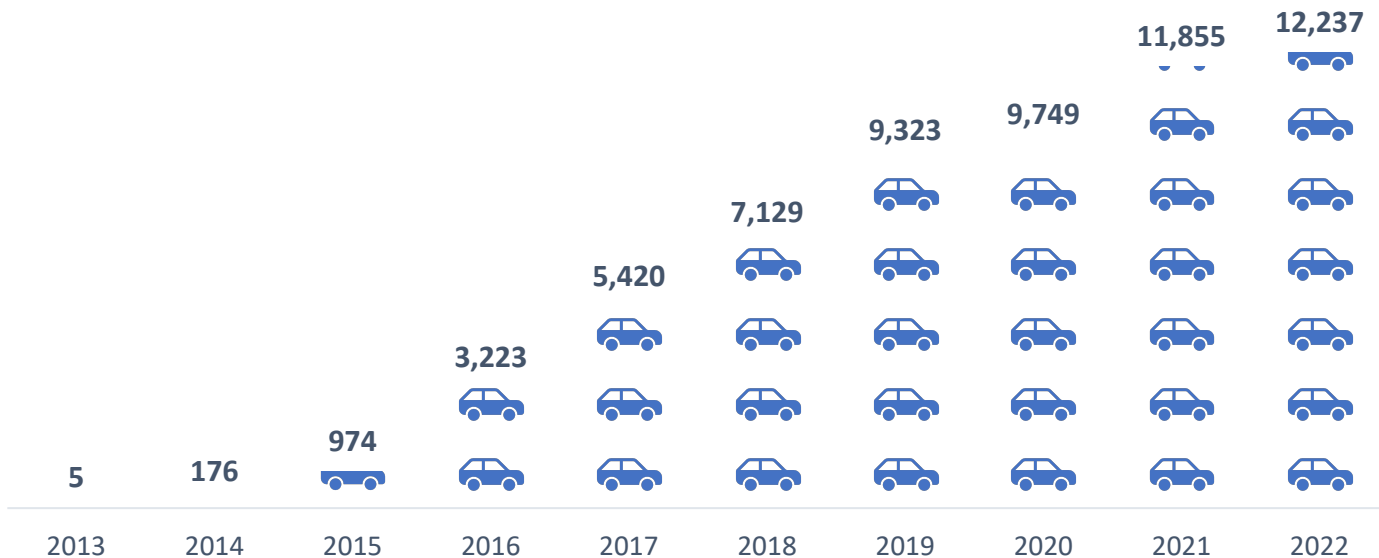


Figure 10 - Carbon Emissions Avoided Equivalent to Number of Automobiles Not Driven for 1 Year

Energy Savings to CO2 Emissions Avoided (CO2 Metric Tons)

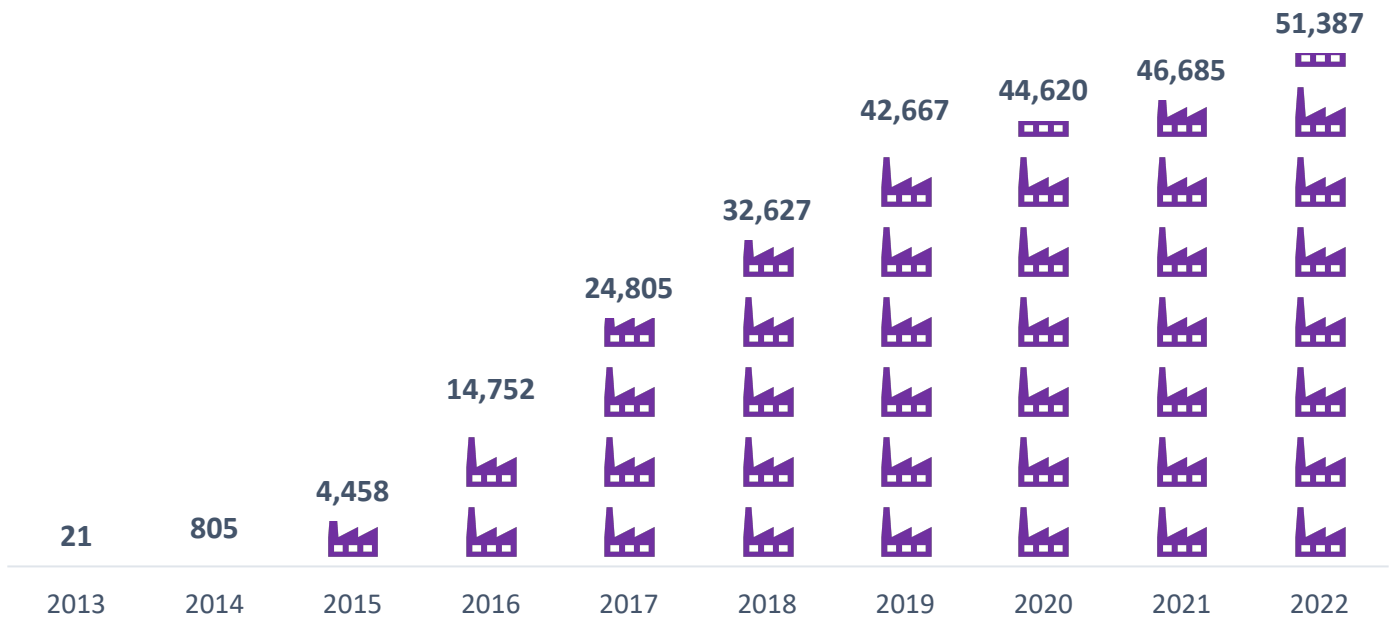


Figure 11 - Energy Savings Equivalent to Carbon Emissions Avoided (Metric Tons)

*Note: CO2 Calculation for 2022 were updated per LADWPs Environmental group

Table 2 – Energy Production Summary in 2022

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
00102 : VAN NUYS / SEPULVEDA-A	3/30/2021	175.51	277.5373	39597.23
00204 : CA-GLENDALE / EAGLE ROCK BLVD	12/20/2021	151.39	173.4503	24704.88
07024 : CA-W LA / W OLYMPIC BLVD & SAWTELLE	8/20/2021	108.91	70.8677	10275.8
08511 : WOODLAND HILLS/ VENTURA SHOUP	3/17/2021	97.12	176.3087	23357.66
08515 : NORTHRIDGE / BALBOA / LASSEN	9/29/2021	117.57	158.244	22945.4
1 Gen	5/29/2020	429.89	709.7755	102917.45
11085 Olinda Street	3/13/2021	365.62	577.5813	83749.28
13207 Bradley Avenue	10/22/2018	785.00	1355.8224	196594.23
1425-12360 Foothill Blvd	3/4/2016	134.56	230.3842	40174.33
14539 Blythe Solar PV	11/7/2014	80.00	89.3669	15558.15
20124 : CHATSWORTH / TOPANGA CYN BLVD	4/16/2021	101.60	174.9449	24339.18
21012 : CANOGA PARK / SHERMAN Way 21718	5/11/2021	167.88	252.1868	36450.3
W.LA/W.OLYMPICBL&BARNGTN(A&B)	3/19/2021	146.96	152.3275	22142.18
24609 : CA-W LA / PICO BLVD & PURDUE	3/3/2021	96.24	150.3935	21807.06
26406 : CA-HOLLYWOOD / HIGHLAND SANTA MONICA	8/20/2021	117.50	181.4548	26310.95
29139 : N HOLLYWD/SHERMANWY&LANKERSHIM	7/30/2021	213.73	229.015	33207.18
29143 : LOSANGELES/W.PICO BL(WSPC85813	8/13/2021	204.34	305.5153	43701.24
29208 : TORRANCE / 190th & WESTERN AVE	11/3/2021	202.48	278.8362	40421.64
3650 E Olympic	7/28/2015	300.00	200.6493	32281.74
3880 N Mission Road Solar FIT	2/13/2015	1,559.00	2228.0602	359722.38
7061 Foothill	5/9/2018	51.04	30.0175	5841.09
Aeroplex	8/14/2018	381.30	594.3193	86176.29
Aeroplex 2	8/13/2018	952.93	1328.3832	192615.59

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
Alegria Clean Energy	6/26/2018	39.00	51.3287	7866.11
Ardagh Cannery Building #8	9/20/2018	999.00	2195.2997	239490.3
Balboa I Solar (FIT)	2/3/2022	2759.56	4472.3466	647543.4
BALBOA II SOLAR (FIT)	4/14/2022	889.88	1152.2102	167070.49
Benco FIT	12/15/2021	946.46	1734.3306	236200.7
Berth 161	12/15/2020	815.77	1416.5722	168185.99
BERTH 54-55 FRUIT TERMINAL	12/21/2018	990.00	2112.1627	248293.04
Berths 153, 154-155	12/7/2018	999.00	1856.199	221309.98
BJE Solar FIT Project	11/16/2018	669.79	864.9285	121653.82
BJE Solar FIT Project II	11/16/2018	196.93	280.8648	39176.03
Bookends, LLC	6/9/2014	82.70	96.825	16242.79
Canoga Chatsworth	5/14/2019	611.47	1115.3314	161723.05
Capelin Distribution Center	10/24/2014	999.30	1502.7944	241938.48
Castle 1	3/25/2021	148.51	208.6936	30260.58
Castle 2	2/3/2021	823.72	1403.3331	203483.3
Catalina Express	12/30/2020	1,098.15	1903.6925	226251.6
Cathay LA - Solar Project	6/6/2015	387.41	628.3331	97303.5
CCC-LASSEN	3/22/2022	470.28	575.7202	83479.43
Century House Apartments Solar	4/4/2019	146.86	212.5824	30824.43
Chatsmouth LLC Solar Project 1	1/15/2014	500.00	586.5961	88888.22
Chatsworth #1	11/8/2019	453.19	496.1214	71937.62
Chill Solar	12/23/2020	6,052.00	8596.1827	1291117.96
Clay Lacy 2	6/2/2021	450.32	756.9143	109752.58
Colon PV	12/14/2015	1,295.00	2179.7251	369492.96
De Soto	6/26/2019	1,156.07	2052.9441	297676.9

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
Dedeaux	12/27/2019	1,217.80	2076.3334	301068.34
DS2 Solar FiT Project	12/28/2017	233.30	348.4123	50519.78
DS3 Solar FiT Project	12/28/2017	495.70	542.9841	78732.7
Figueroa & Ave.61 Center	4/16/2015	32.14	51.0101	8235.08
Flight Building 1	9/7/2018	124.00	166.4261	25139.43
Flight Building 10	8/7/2018	54.50	53.0141	7446.71
Flight Building 11	7/25/2018	59.90	98.4107	14782.97
Flight Building 12	7/25/2018	39.70	67.1605	10114.82
Flight Building 13	7/25/2018	122.40	189.3516	28036.25
Flight Building 14	4/16/2019	44.30	59.763	9565.47
Flight Building 2	9/11/2018	55.90	71.2276	10772.11
Flight Building 3	9/11/2018	55.90	86.5317	13158.03
Flight Building 4	9/11/2018	35.40	53.5856	8149.42
Flight Building 5	9/11/2018	70.90	105.2282	15960.11
Flight Building 6	8/21/2018	52.20	80.6128	12159.74
Flight Building 7	9/19/2018	95.40	148.0809	22284.42
Flight Building 8	9/7/2018	49.50	69.1349	10470.99
Flight Building 9	10/30/2018	92.20	150.2378	22668.4
Francisco	12/7/2018	1,262.00	2306.8005	321489.15
Harbor Regional Park Solar Array	4/19/2017	89.90	151.4135	25747.21
Irondale Properties, LLC	10/29/2019	308.30	394.0146	57132.11
KSI Solar Whiteman, LLC	12/17/2015	333.00	392.526	63537.71
Laurel	8/22/2016	446.35	741.9939	120692.85
LAX Logistic industrial Center A,B - Hannah Solar	12/4/2014	833.00	1466.6544	318787.33

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
Layline Distribution Center - MRB Solar LLC	11/6/2014	833.00	1604.2203	274189.29
Liberty Hill Plaza	12/31/2020	338.86	618.2753	71983.9
M&D 13-18 LLC	10/29/2018	104.60	179.245	26115.56
M&D 1-4 LLC	10/29/2018	104.60	181.4296	26500.42
M&D 19-24 LLC	10/29/2018	104.60	168.9358	24589.34
M&D 25-30 LLC	10/29/2018	104.60	180.6276	26249.32
M&D 5-8 LLC	10/29/2018	104.60	181.3911	26412.28
M&D 9-12 LLC	10/29/2018	104.60	178.8057	25996.82
Marina South	12/17/2020	1,053.05	1935.4792	230777.9
Mastercraft 96.64kW Solar PV	9/3/2015	96.64	43.9236	8487.76
M-C Investments 4558 Brazil	7/19/2016	148.00	185.7273	27924.29
MM Lopez Energy LLC	1/29/2016	2,950.00	26505.0738	3196975.73
Napa FiT	12/13/2018	387.00	495.7784	65211.46
New Hope	10/3/2018	300.00	345.0437	56820.67
Nordhoff Place	9/23/2014	1,184.30	1210.1388	188093.4
Normandie Solar (FIT)	12/22/2021	2,974.52	5599.1523	833115.59
Norris Ave. Solar	12/12/2022	477.49	8.9153	1292.72
North Figueroa & Ave. 58-59 Center	11/2/2016	136.61	83.1977	13330.48
Owens Valley Solar Project 11	12/10/2016	1,000.00	2547.5805	336096.92
Owens Valley Solar Project 5	12/10/2016	3,000.00	7386.0648	971529.03
Park Plaza	12/20/2021	311.83	556.2318	79955.1
PMA	12/14/2020	784.39	1326.816	159200.21
Port LA Solar FIT Project	2/19/2016	1,076.50	1801.9701	252618.87
Prairie Solar I	3/1/2016	213.60	226.0571	35605.49

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
Prairie Solar II	4/27/2016	146.93	100.3427	15833.62
Saf Keep Melrose	5/19/2016	144.08	222.4871	35713.63
Saf Keep San Fernando	3/2/2015	144.08	231.0534	37226.94
Shri Ji Ram Solar FIT Project	7/26/2017	349.00	493.4194	64106.73
SOL #1122 North Hollywood	4/1/2016	236.70	325.7202	54716.01
SOL #1160 Los Angeles	5/19/2016	87.13	136.1982	22746.23
SOL #1235 LOS ANGELES	8/17/2016	139.80	189.9972	32600.5
SOL #1254 PACOIMA	4/1/2016	90.80	123.722	20760.84
SOL #8011 Venice	12/13/2017	148.58	260.7652	44346.84
Solar Photovoltaic Generating Facility and Interconnection Facilities	11/5/2021	499.53	771.4289	111857.18
Sun Valley 1	12/20/2018	1,924.10	3040.8298	440920.34
Sun Valley 2	11/28/2018	662.00	1031.2925	149537.41
SW2, LLC	12/31/2018	149.89	228.1026	33642.8
Tangen Building	11/5/2014	31.50	33.3647	5670.99
Toyon Landfill Gas Conversion LLC	7/8/2022	1,062.00	1088.5397	125694.99
US Customs House	9/11/2018	573.00	962.7421	108587.92
USPS FIT 1A	2/3/2017	1,138.00	1913.862	227873.69
USPS FIT 1B	2/3/2017	3,211.00	5842.5015	691251.05
USPS FIT 2A	4/10/2017	1,127.00	1709.364	205595.23
USPS FIT 2B	4/10/2017	1,880.00	3074.223	370758.08
Valley Solar #1	8/29/2018	387.30	588.5086	84954.41
Valley Solar #5	7/10/2018	205.10	105.4032	15283.47
Valley Solar #6	6/29/2018	208.60	193.3426	28034.69
Van Nuys Air- 16620 Stagg St	8/21/2018	402.00	642.0707	108213.03

Project Name	COD	Capacity in kW (CEC-AC)	2022 Actual Production (MWh)	Total Payment in 2022 \$
Van Nuys Air 7855 Hayvenhurst- Hannah Solar	10/7/2014	666.00	1014.2856	209967.96
Vaughn Solar	12/19/2018	2,000.00	3420.1094	589513.26
VS LADWPGLP Francisco	4/8/2022	1244.677	1847.6484	267909.02
VS RXI Harbor City	12/29/2021	669.95	1324.2092	198354.25
VS RXI Pacoima	12/31/2020	729.06	1263.7723	182196.68
VS RXI Panorama City	5/26/2022	1395.174	1091.8345	158316
VS RXI San Fernando	2/11/2022	512.313	895.8565	129899.19
VS RXI Sylmar 1	12/29/2021	118.23	216.1864	31136.91
VS RXI Sylmar 2	12/29/2021	719.26	1373.3007	197705.55
VS RXI Wilmington	7/5/2022	1012	675.5298	97951.82
WE Solar FIT Project	12/21/2018	985.85	1445.3691	205994.18
Western Jet	7/29/2020	1,178.00	1442.3984	209435.71
Westmont 300A	3/30/2017	2,998.40	5776.7992	765772.69
Westmont 300B	12/31/2016	2,998.00	5831.3816	768650.05
Westmont 301	12/15/2017	1,795.50	3293.0305	425430.73
Westmont 400A	7/31/2017	2,287.00	3816.8018	510200.12
Westmont 400B	7/31/2017	2,187.50	3999.9973	524873.81
Westmont 401	11/20/2017	2,854.30	5173.4578	681128.13
Woodman & Nordhoff Center	7/24/2019	642.85	280.7818	44824.64
Xebec 3 Prairie	4/8/2021	1,923.13	3332.0288	483144.17
Xebec 4 Nordhoff	1/29/2021	564.00	1026.7388	148877.13
Zelman-FIT 1 (FIT)	7/14/2022	1687.186	1170.4455	169714.6
Zelzah	3/6/2020	552.00	899.5249	111580.9
Total		101,686.68	185,719.23	25,566,282.29