



Los Angeles
Department of
Water & Power

FEED-IN TARIFF 2021 ANNUAL REPORT

DISTRIBUTED ENERGY RESOURCE PROGRAMS

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Executive Summary

2021 Major Milestones and Highlights

Since the Feed-in Tariff (FiT) Program launched in 2013, a total of 708 applications have been submitted and 135 projects totaling 90.3 megawatts (MW) have been constructed. In 2021 alone, 26 new projects totaling about 12.4 MW were commissioned.

Based on the generation for 2021, 44.6 million pounds of CO₂ emissions are avoided annually, and approximately 28 thousand homes are served carbon-free per year. The FiT program executed 9 power purchase agreements totaling a capacity of 7.8 MW expected to reach commercial operation in 2022.

In 2021, Los Angeles once again achieved the most installed solar power of any city in America, as it has 7 out of the last 8 years, according to the *Shining Cities 2021* 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 2021

Based on a contract term of 20 years for a majority of the 135 projects, the lifetime production is projected to be about 2.98 terawatt-hours (2.98 million megawatt-hours). In 2021, the projects generated about 156,000 MWh compared to an expected 130,000 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.

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 2021

Program	Project Name	Commercial Operation Date	Nameplate Capacity (kW CEC-AC)
SetFiT	Xebec 4 Nordhoff	1/29/2021	564.00
SetFiT	Castle 2	2/3/2021	823.72
SetFiT	24609 : CA-W LA / PICO BLVD & PURDUE	3/3/2021	96.24
SetFiT	11085 Olinda Street	3/13/2021	365.62
SetFiT	08511 : WOODLAND HILLS/ VENTURA SHOUP	3/17/2021	97.12
SetFiT	21718 W.LA/W.OLYMPICBL&BARNGTN(A&B)	3/19/2021	146.96
SetFiT	Castle 1	3/25/2021	148.51
SetFiT	00102 : VAN NUYS / SEPULVEDA-A	3/30/2021	175.51
SetFiT	Xebec 3 Prairie	4/8/2021	1,923.13
SetFiT	20124 : CHATSWORTH / TOPANGA CYN BLVD	4/16/2021	101.60
SetFiT	21012 : CANOGA PARK / SHERMAN Way	5/11/2021	167.88
SetFiT	Clay Lacy 2	6/2/2021	450.32
SetFiT	29139 : N HOLLYWD/SHERMANWY&LANKERSHIM	7/30/2021	213.73
SetFiT	29143 : LOSANGELES/W.PICO BL(WSPC85813	8/13/2021	204.34
SetFiT	26406 : CA-HOLLYWOOD / HIGHLAND SANTA MONICA	8/20/2021	117.50
SetFiT	07024 : CA-W LA / W OLYMPIC BLVD & SAWTELLE	8/20/2021	108.91
SetFiT	08515 : NORTHRIDGE / BALBOA / LASSEN	9/29/2021	117.57
SetFiT	29208 : TORRANCE / 190th & WESTERN AVE	11/3/2021	202.48
FiT200	Solar Photovoltaic Generating Facility and Interconnection Facilities	11/5/2021	499.53
FiT200	Benco FIT	12/15/2021	946.46
FiT200	Park Plaza	12/20/2021	311.83
SetFiT	00204 : CA-GLENDALE / EAGLE ROCK BLVD	12/20/2021	151.39
SetFiT	Normandie Solar (FIT)	12/22/2021	2,974.52
SetFiT	VS RXI Harbor City	12/29/2021	669.95
SetFiT	VS RXI Sylmar 1	12/29/2021	118.23
SetFiT	VS RXI Sylmar 2	12/29/2021	719.26
		Total Capacity (kW):	12,416.31

FiT Energy Production (Cumulative)

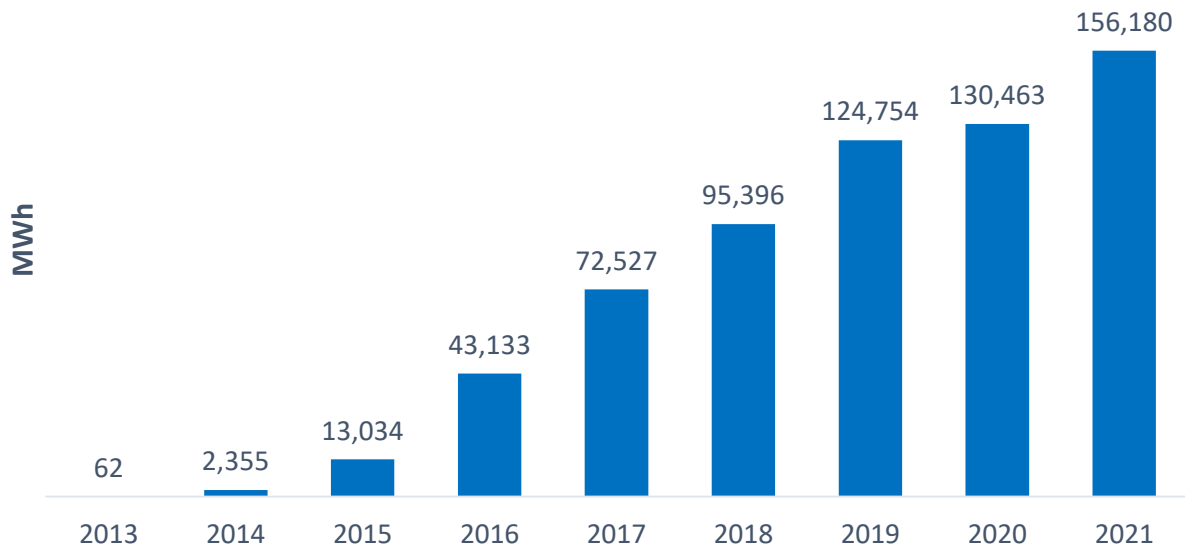


Figure 1 – Annual Energy Production Since Program Inception (MWh)

FiT Projects in Operation (Cumulative)

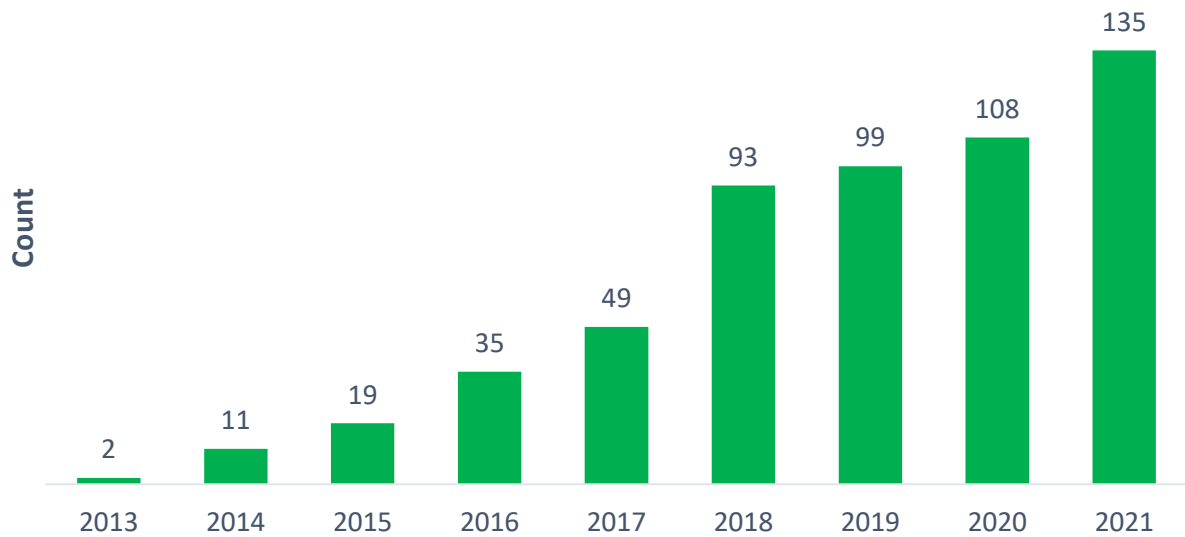


Figure 2 - Projects In-Service

FiT Capacity (Cummulative)

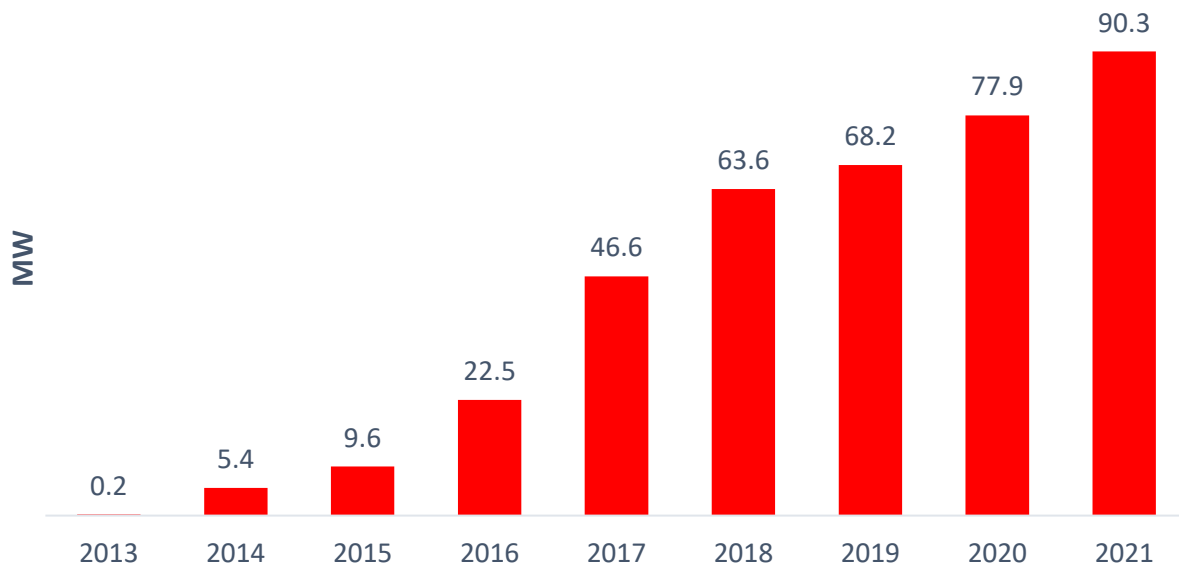


Figure 3 - Capacity In-Service (MW)

Energy Production per Allocation (MWh)

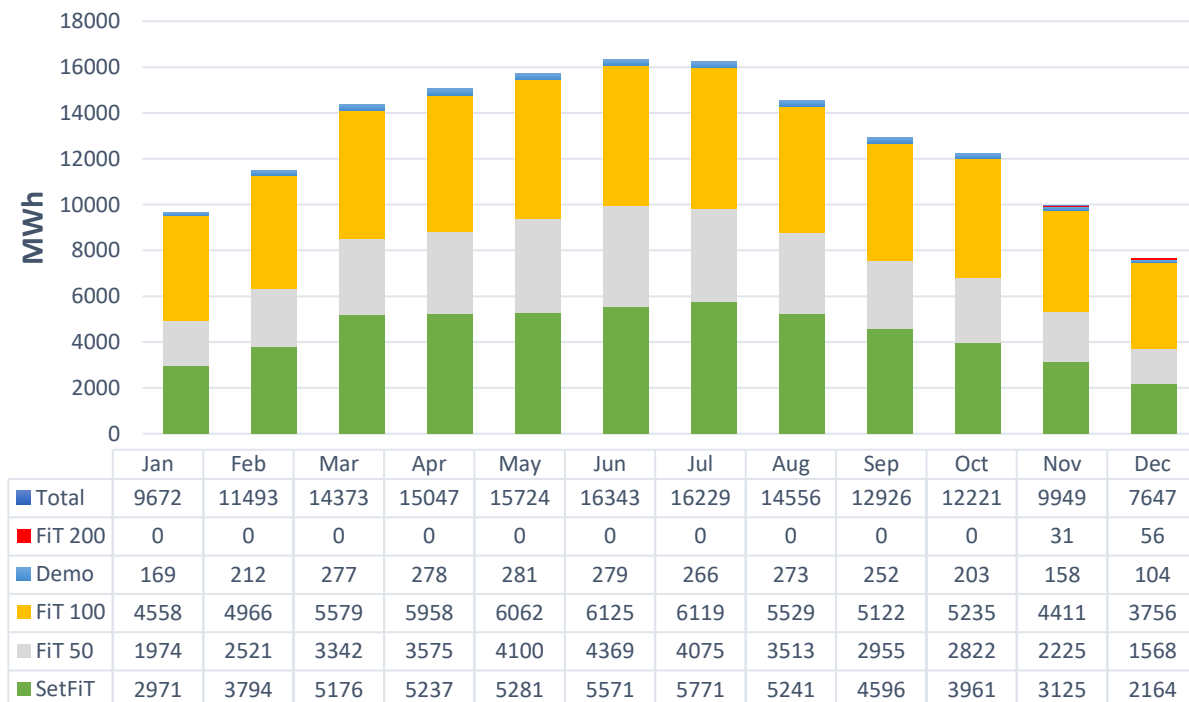


Figure 4 - Energy Production per Program in 2021

Energy Production per Type of Generation (MWh)

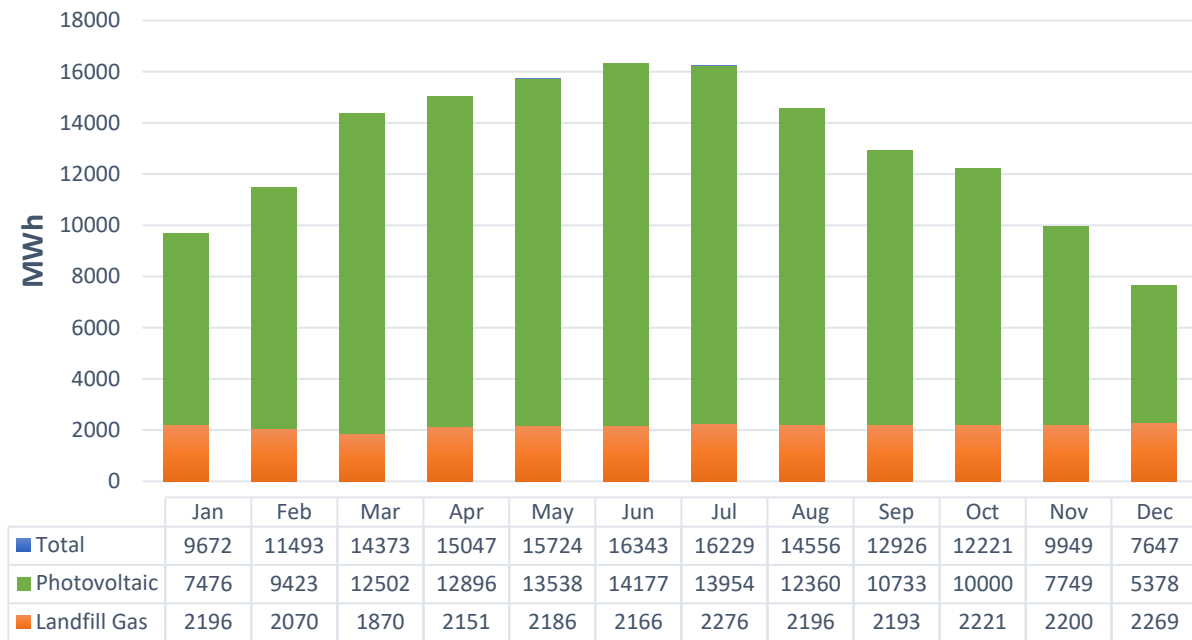


Figure 5 - Energy Production per Generation Type in 2021

Actual vs Expected Generation (MWh)

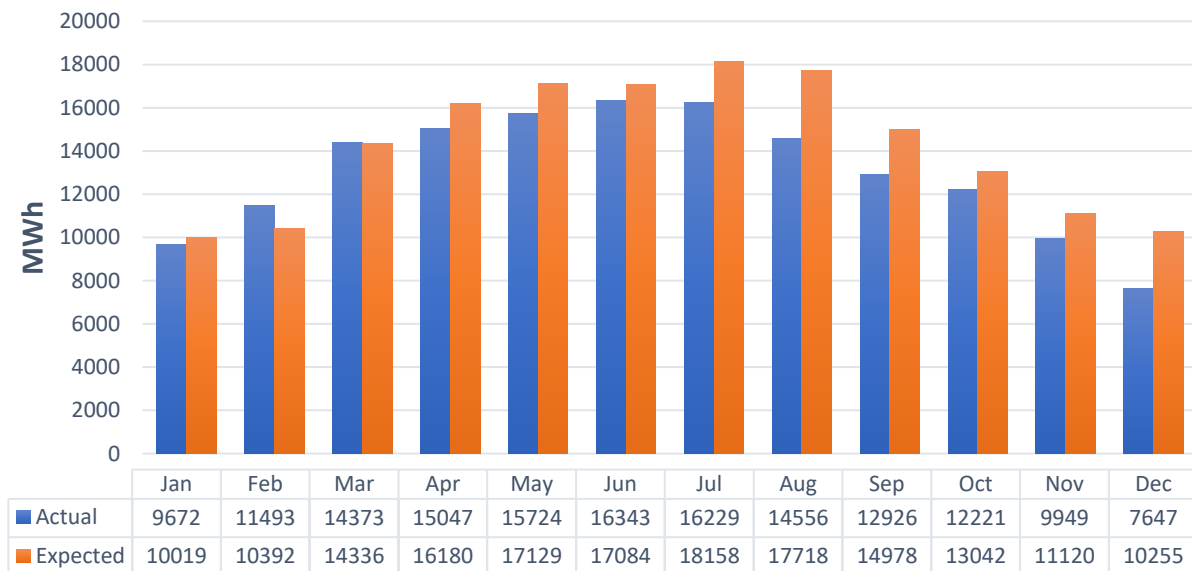


Figure 6 - Actual vs Expected Generation in 2021



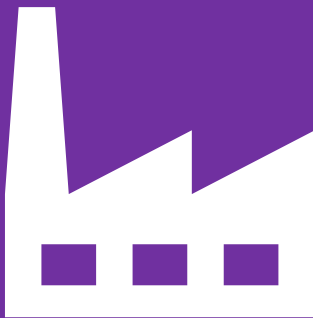
Energy Savings Equivalent
to Number of Homes Served

27,989



CO₂ Emissions Avoided to Number
of Automobiles Not Driven

11,333



Energy Savings to CO₂ Emissions
Avoided
(Metric Tons)

44,631

Figure 7 - Energy Savings Equivalents in 2021

Energy Savings Equivalent to Number of Homes Served for 1 Year

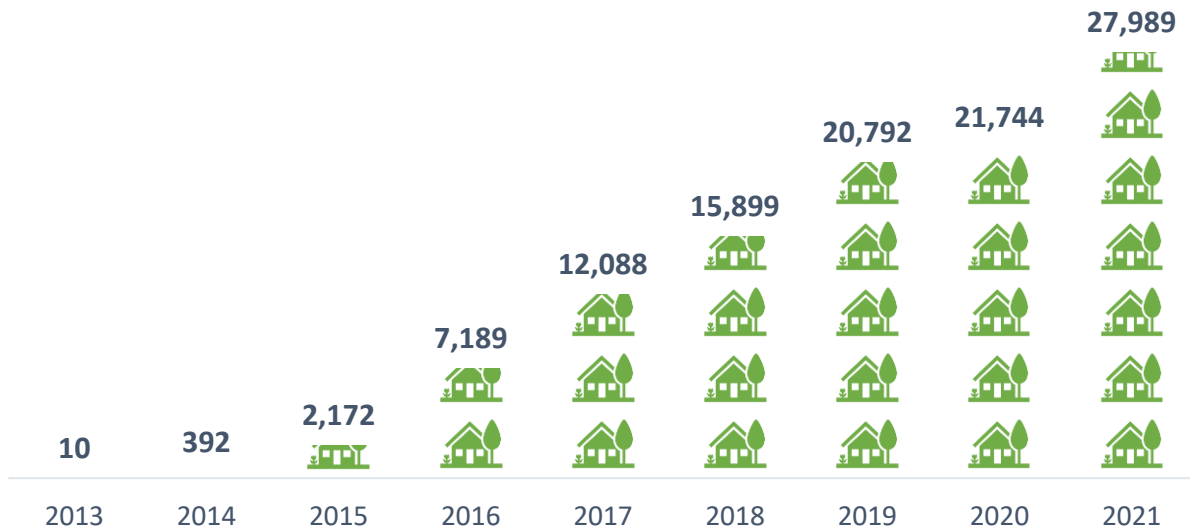


Figure 8 - Energy Savings Equivalent to Number of Homes Served for 1 Year

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

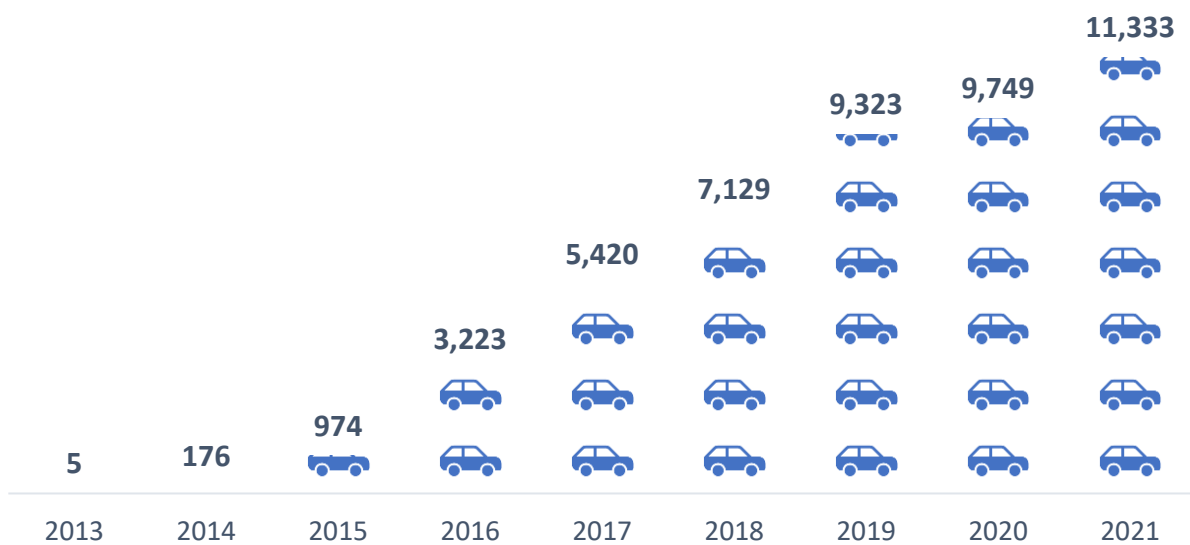


Figure 9 - Carbon Emissions Avoided Equivalent to Number of Automobiles Not Driven for 1 Year

Energy Savings to CO2 Emissions Avoided (CO2 Metric Tons)

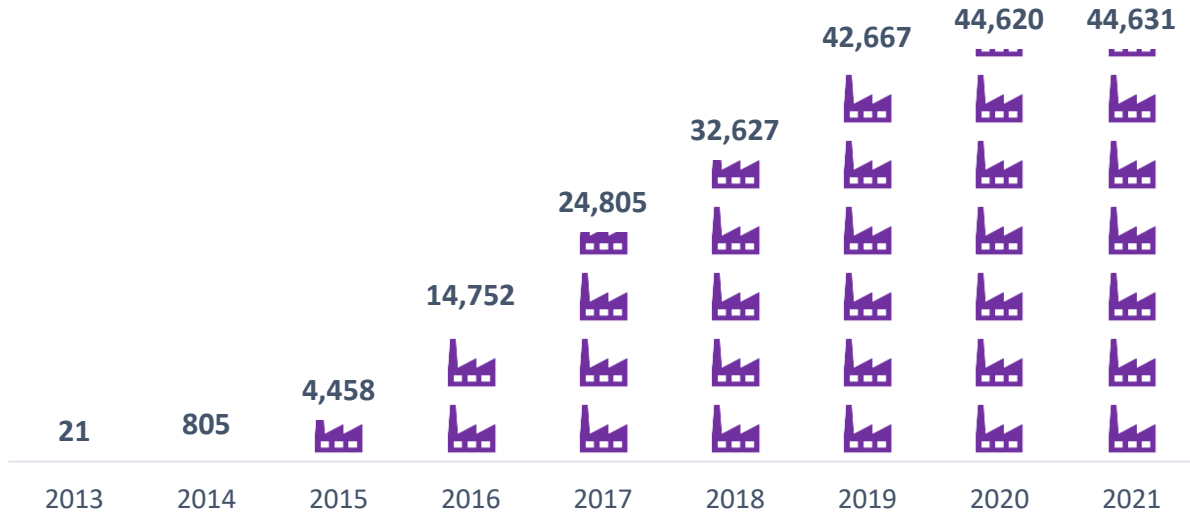


Figure 10 - Energy Savings Equivalent to Carbon Emissions Avoided (Metric Tons)

*Note CO2 Calculation for 2021 was updated per the environmental group

Table 2 – Energy Production Summary in 2021

Project Name	COD	Capacity in kW (CEC-AC)	2021 Actual Production (MWh)	Total Payment in 2021 (\$)
1 Gen	5/29/2020	429.89	525.12	76,142.18
13207 Bradley Avenue	10/22/2018	785.00	1,374.97	199,094.21
1425-12360 Foothill Blvd	3/4/2016	134.56	173.24	29,555.87
14539 Blythe Solar PV	11/7/2014	80.00	109.62	18,809.81
Bookends, LLC	6/9/2014	82.70	120.39	20,327.31
3650 E Olympic	7/28/2015	300.00	194.17	31,382.58
3880 N Mission Road Solar FIT	2/13/2015	1,559.00	2,066.74	327,320.54
7061 Foothill	5/9/2018	51.04	0	0
SOL #8011 Venice	12/13/2017	148.58	235.37	39,852.66
Aeroplex	8/14/2018	381.30	564.11	81,795.26
Aeroplex 2	8/13/2018	952.93	1,843.31	195,573.64
Alegria Clean Energy	6/26/2018	39.00	45.22	6,848.42
Ardagh Cannery Building #8	9/20/2018	999.00	2,124.02	236,546.17
Berth 161	12/15/2020	815.77	1,353.86	158,995.09
BERTH 54-55 FRUIT TERMINAL	12/21/2018	990.00	2,117.65	249,894.10
Berths 153, 154-155	12/7/2018	999.00	1,837.28	219,744.62
Catalina Express	12/30/2020	1,098.15	1,846.38	220,465.58
BJE Solar FIT Project	11/16/2018	669.79	993.45	140,118.70
BJE Solar FIT Project II	11/16/2018	196.93	261.34	36,329.24
Canoga Chatsworth	5/14/2019	611.47	1,097.68	159,163.27
Capelin Distribution Center	10/24/2014	999.30	1,556.12	251,788.76
Cathay LA - Solar Project	6/6/2015	387.41	630.52	97,801.29
JBD Century House, LLC	4/4/2019	146.86	201.43	29,207.82
Chatsmouth LLC Solar Project 1	1/15/2014	500.00	947.58	158,889.67
Chatsworth #1	11/8/2019	453.19	677.37	97,594.34
Chill Solar	12/23/2020	6,052.00	8,610.39	1,248,506.46
Colon PV	12/14/2015	1,295.00	2,018.91	340,830.93
De Soto	6/26/2019	1,156.07	2,047.97	296,545.45
Dedeaux	12/27/2019	1,217.80	1,504.16	218,102.55
DS2 Solar FiT Project	12/28/2017	233.30	318.43	46,172.59
DS3 Solar FiT Project	12/28/2017	495.70	643.15	93,256.10
Figueroa & Ave.61 Center	4/16/2015	32.14	50.14	8,096.27
Flight Building 10	8/7/2018	54.50	72.87	10,593.49
Flight Building 11	7/25/2018	59.90	92.62	13,786.56
Flight Building 12	7/25/2018	39.70	64.25	9,611.56
Flight Building 13	7/25/2018	122.40	189.27	28,318.93
Flight Building 14	4/16/2019	44.30	59.16	9,309.48
Flight Building 8	9/7/2018	49.50	66.74	10,026.76
Flight Building 9	10/30/2018	92.20	144.09	21,583.41

Project Name	COD	Capacity in kW (CEC-AC)	2021 Actual Production (MWh)	Total Payment in 2021 (\$)
Flight Building 1	9/7/2018	124.00	195.01	29,139.03
Flight Building 2	9/11/2018	55.90	73.75	11,190.76
Flight Building 3	9/11/2018	55.90	79.01	11,774.71
Flight Building 4	9/11/2018	35.40	56.39	8,465.04
Flight Building 5	9/11/2018	70.90	101.53	15,020.25
Flight Building 6	8/21/2018	52.20	78.32	11,734.05
Flight Building 7	9/19/2018	95.40	143.85	21,557.71
Francisco	12/7/2018	1,262.00	2,294.91	321,981.93
Harbor Regional Park Solar Array	4/19/2017	89.90	155.53	26,262.11
Irondale Properties, LLC	10/29/2019	308.30	481.01	69,746.94
KSI Solar Whiteman, LLC	12/17/2015	333.00	509.05	85,489.94
Laurel	8/22/2016	446.35	734.68	119,708.10
LAX Logistic industrial Center A,B - Hannah Solar	12/4/2014	833.00	1,597.03	349,961.53
Layline Distribution Center - MRB Solar LLC	11/6/2014	833.00	1,626.91	280,281.77
Liberty Hill Plaza	12/31/2020	338.86	588.92	70,057.75
M&D 13-18 LLC	10/29/2018	104.60	182.59	26,709.44
M&D 1-4 LLC	10/29/2018	104.60	183.72	26,958.07
M&D 19-24 LLC	10/29/2018	104.60	175.83	25,604.44
M&D 25-30 LLC	10/29/2018	104.60	182.11	26,628.23
M&D 5-8 LLC	10/29/2018	104.60	183.91	26,916.40
M&D 9-12 LLC	10/29/2018	104.60	181.84	26,600.59
Mastercraft 96.64kW Solar PV	9/3/2015	96.64	0	0
M-C Investments 4558 Brazil	7/19/2016	148.00	182.14	27,245.42
MM Lopez Energy LLC	1/29/2016	2,950.00	25,993.33	3,167,827.61
Napa FiT	12/13/2018	387.00	369.18	47,572.82
New Hope	10/3/2018	300.00	383.88	63,182.52
Nordhoff Place	9/23/2014	1,184.30	1,588.36	249,705.47
North Figueroa & Ave. 58-59 Center	11/2/2016	136.61	91.11	14,696.64
Owens Valley Solar Project 11	12/10/2016	1,000.00	2,885.58	381,787.08
Owens Valley Solar Project 5	12/10/2016	3,000.00	6,493.07	860,328.47
Marina South	12/17/2020	1,053.05	1,943.39	232,873.80
PMA	12/14/2020	784.39	1,298.52	155,930.56
Port LA Solar FIT Project	2/19/2016	1,076.50	1,727.73	243,794.06
Prairie Solar I	3/1/2016	213.60	129.70	22,503.88
Prairie Solar II	4/27/2016	146.93	153.56	24,266.80
Saf Keep Melrose	5/19/2016	144.08	216.71	35,093.54
Saf Keep San Fernando	3/2/2015	144.08	223.62	36,049.42
Shri Ji Ram Solar FIT Project	7/26/2017	349.00	394.39	52,715.83
So. California Trophy CO	12/6/2013	120.00	0	0

Project Name	COD	Capacity in kW (CEC-AC)	2021 Actual Production (MWh)	Total Payment in 2021 (\$)
SOL #1122 North Hollywood	4/1/2016	236.70	343.96	58,208.74
SOL #1160 Los Angeles	5/19/2016	87.13	136.93	23,219.00
SOL #1235 LOS ANGELES	8/17/2016	139.80	185.56	31,740.93
SOL #1254 PACOIMA	4/1/2016	90.80	124.62	21,066.80
Sun Valley 1	12/20/2018	1,924.10	2,881.83	417,865.89
Sun Valley 2	11/28/2018	662.00	1,060.02	153,702.75
SW2, LLC	12/31/2018	149.89	232.13	34,124.12
Tangen Building	11/5/2014	31.50	36.36	6,262.89
US Customs House	9/11/2018	573.00	975.07	109,903.82
USPS FIT 1A	2/3/2017	1,138.00	1,827.68	218,780.66
USPS FIT 1B	2/3/2017	3,211.00	5,550.68	658,020.48
USPS FIT 2A	4/10/2017	1,127.00	1,382.07	165,662.87
USPS FIT 2B	4/10/2017	1,880.00	2,546.80	306,901.98
Valley Solar #1	8/29/2018	387.30	636.60	91,513.62
Valley Solar #5	7/10/2018	205.10	207.54	30,093.59
Valley Solar #6	6/29/2018	208.60	107.95	15,652.60
Van Nuys Air- 16620 Stagg St	8/21/2018	402.00	677.34	111,338.31
Van Nuys Air 7855 Hayvenhurst- Hannah Solar	10/7/2014	666.00	1,153.82	241,954.80
Vaughn Solar	12/19/2018	2,000.00	3,156.93	554,435.11
VS RXI Pacoima	12/31/2020	729.06	1,370.23	197,887.75
WE Solar FIT Project	12/21/2018	985.85	1,416.30	200,846.42
Western Jet	7/29/2020	1,178.00	1,947.87	281,236.95
Westmont 300A	3/30/2017	2,998.40	5,710.03	764,770.18
Westmont 300B	12/31/2016	2,998.00	5,773.12	772,069.77
Westmont 301	12/15/2017	1,795.50	3,153.15	418,120.75
Westmont 400A	7/31/2017	2,287.00	3,791.97	513,629.73
Westmont 400B	7/31/2017	2,187.50	3,981.64	526,879.92
Westmont 401	11/20/2017	2,854.30	5,083.63	678,299.81
Woodman & Nordhoff Center	7/24/2019	642.85	307.67	49,413.57
Zelzah	3/6/2020	552.00	1,033.88	132,924.85
Xebec 4 Nordhoff	1/29/2021	564.00	949.80	137,721.48
Castle 2	2/3/2021	823.72	1,191.17	172,720.15
24609 : CA-W LA / PICO BLVD & PURDUE	3/3/2021	96.24	122.82	17,809.52
11085 Olinda Street	3/13/2021	365.62	452.33	65,587.15
08511 : WOODLAND HILLS/ VENTURA SHOUP	3/17/2021	97.12	121.62	17,431.46
21718	3/19/2021	146.96	158.42	22,970.93
W.LA/W.OLYMPICBL&BARNGTN(A&B)				
Castle 1	3/25/2021	148.51	162.39	23,546.10
00102 : VAN NUYS / SEPULVEDA-A	3/30/2021	175.51	222.18	32,216.31
Xebec 3 Prairie	4/8/2021	1,923.13	2,440.00	353,800.20

Project Name	COD	Capacity in kW (CEC-AC)	2021 Actual Production (MWh)	Total Payment in 2021 (\$)
20124 : CHATSWORTH / TOPANGA CYN BLVD	4/16/2021	101.60	117.21	16,996.04
21012 : CANOGA PARK / SHERMAN Way Clay Lacy 2	5/11/2021	167.88	167.58	24,299.59
29139 : N HOLLYWD/SHERMANWY&LANKERSHIM	6/2/2021	450.32	250.48	36,320.14
29143 : LOSANGELES/W.PICO BL(WSPC85813	7/30/2021	213.73	77.41	11,224.67
26406 : CA-HOLLYWOOD / HIGHLAND SANTA MONICA	8/13/2021	204.34	75.29	10,916.32
07024 : CA-W LA / W OLYMPIC BLVD & SAWTELLE	8/20/2021	117.50	42.71	6,193.23
08515 : NORTHRIDGE / BALBOA / LASSEN	8/20/2021	108.91	29.28	4,245.47
29208 : TORRANCE / 190th & WESTERN AVE	9/29/2021	117.57	29.86	4,329.74
Solar Photovoltaic Generating Facility and Interconnection Facilities	11/3/2021	202.48	25.08	3,637.22
Benco FIT	11/5/2021	499.53	44.08	0
Park Plaza	12/15/2021	946.46	35.83	0
00204 : CA-GLENDALE / EAGLE ROCK BLVD	12/20/2021	311.83	6.95	0
Normandie Solar (FIT)	12/20/2021	151.39	2.98	0
VS RXI Harbor City	12/22/2021	2,974.52	0	0
VS RXI Sylmar 1	12/29/2021	669.95	0	0
VS RXI Sylmar 2	12/29/2021	118.23	0.54	0
	12/29/2021	719.26	2.54	0