

**UCLA** School of Public Affairs

# Luskin Center

FOR INNOVATION



*Los Angeles*

# SOLAR ATLAS

**“For Los Angeles to be  
the cleanest, greenest city,  
we need participation  
from every Angeleno...  
we know that dirty fossil fuels  
will only become more scarce  
and more expensive  
in the years to come.  
This helps move  
us toward renewable energy  
while at the same  
time creating new jobs.”**

**– Mayor Villaraigosa**



# **Luskin Center**

**FOR INNOVATION**

2011

## **Los Angeles** **ROOFTOP SOLAR ATLAS**

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### **Acknowledgements**

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# INTRODUCTION



**L**os Angeles is endowed not only with bountiful sunshine, but also with vast expanses of low-rise urban development that offers valuable siting opportunities for distributed solar energy generation. This atlas describes the geography of the region's rooftop solar resources. The information may prove useful for economic development planners, solar photovoltaic (PV) installers, utility planners, building owners, public administrators, labor union leadership, and anyone interested in the development of solar power in Los Angeles.

Los Angeles County has over 19,000 megawatts of rooftop solar PV potential, while the City of Los Angeles has over 5,500 megawatts.\* These maps, which are based on aerial photography of the solar-usable rooftop space,\*\* should be viewed as providing long-run estimates of rooftop potential.\*\*\*

This atlas is organized to help cities and electricity utilities understand their own solar rooftop potential so that they may be better stewards of these resources. Each map presents the geographical distribution of solar potential across neighborhoods and parcels. In addition, each map is accompanied by a description of how the solar potential varies across single- and multifamily residences, commercial and industrial parcels, and nonprofit and government parcels, since the economic benefits and policy incentives may vary accordingly. Because cost-effectiveness increases with the size of a solar installation, the atlas also presents for each jurisdiction the number of potential solar projects by size as well as the total rooftop potential.

The maps in this atlas are best used for identifying the overall spatial patterns of rooftop solar potential. However, they are an incomplete tool for investigating individual sites. This atlas does not contain information on the age or material integrity of rooftops. The usable portion of rooftop may change over time due to changes in shading (tree growth or tall adjacent construction) or roof modification. Those interested in specific rooftops should consult with a qualified professional for an on-site analysis. The data sources and analytical methods used in this atlas are discussed in detail in the appendix.

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\* See *Bringing Solar Energy to Los Angeles* at ([luskin.ucla.edu/publications](http://luskin.ucla.edu/publications)) authored by the UCLA Luskin Center and commissioned by the Los Angeles Business Council.

\*\* See the Los Angeles County Solar Map at ([solarmap.lacounty.gov](http://solarmap.lacounty.gov)).

\*\*\* This atlas assumes that roofs that have solar potential but cannot currently support solar because of old age or poor quality will be replaced in 10 to 15 years under a standard capital maintenance program.

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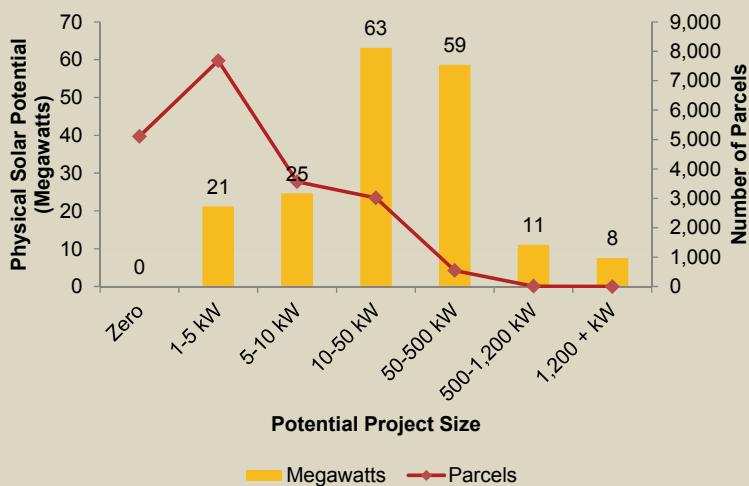


## Solar Statistics of Los Angeles City Council District 1

Area 14.0 square miles  
Population 262,618 (2009 estimate)

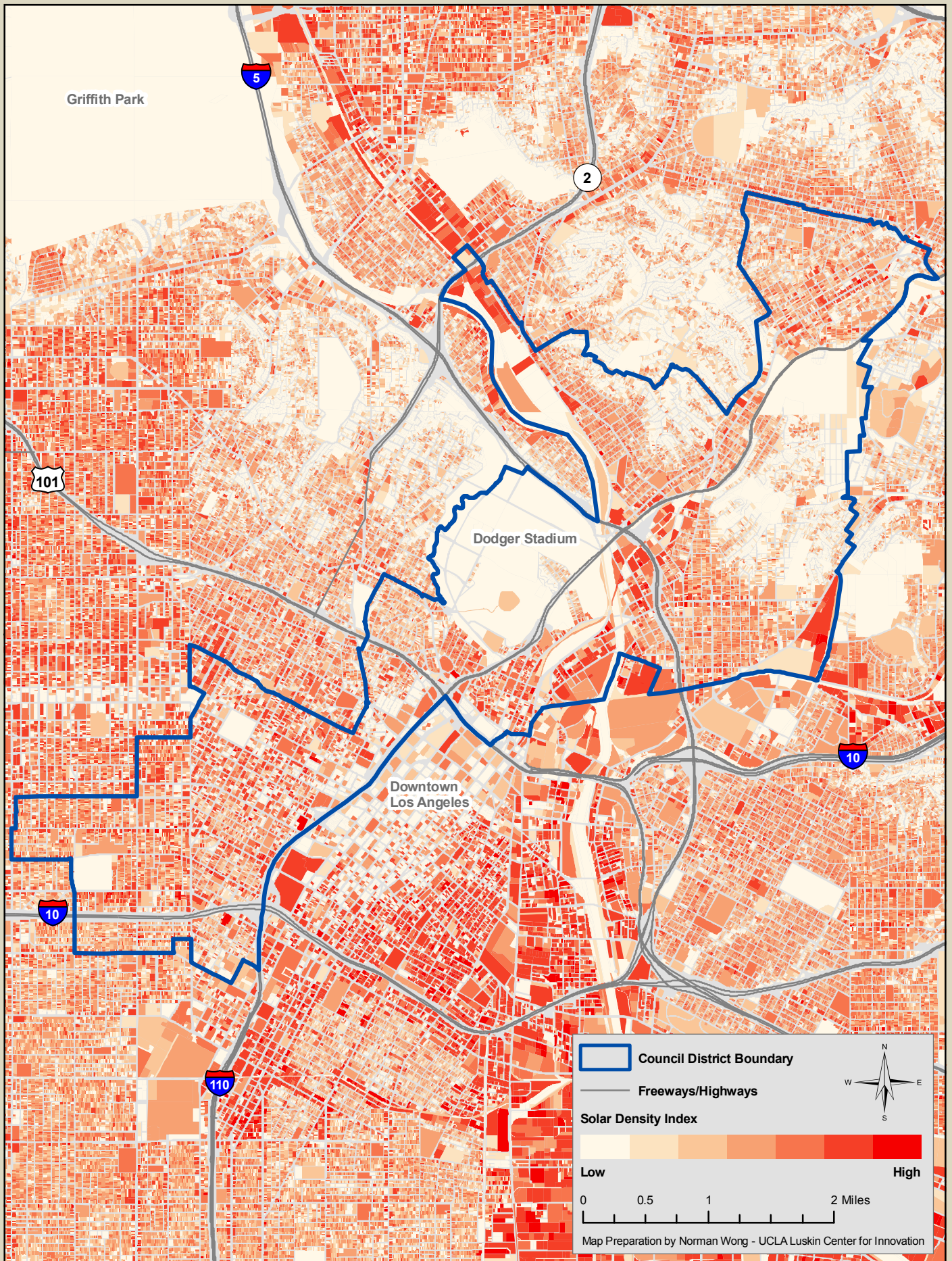
Total Potential Sites	14,818		
Commercial & Industrial	14.5%	Median Rooftop Availability	12.4%
Multi-family	47.5%	Median Potential of Parcels	3.1 Kilowatts
Single Family	36.2%	Median Solar Density Index	8.4%
Government or Non-profit	1.8%	Total Rooftop Solar Potential	186 Megawatts

**Council District 1: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 1				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	6,296	3880 N Mission Rd	90031	Warehousing, Distribution, Storage
2	1,259	2011 N Soto St	90032	Warehousing, Distribution, Storage
3	1,200	1201 W Olympic Blvd	90015	Warehousing, Distribution, Storage
4	1,182	1920 N Main St	90031	Warehousing, Distribution, Storage
5	1,050	2850 Kerr St	90039	Utility Commercial
6	961	2000 N San Fernando Rd	90065	Warehousing, Distribution, Storage
7	883	2055 N Figueroa St	90065	Department Stores
8	833	936 W Washington Blvd	90015	Light Manufacturing
9	790	2800 Casitas Ave	90039	Light Manufacturing
10	743	1100 N Main St	90012	Heavy Manufacturing
11	668	3800 N Mission Rd	90031	Heavy Manufacturing
12	585	2706 Media Center Dr	90065	Warehousing, Distribution, Storage
13	582	1501 N Main St	90012	Warehousing, Distribution, Storage
14	534	1600 Wilshire Blvd	90017	Shopping Centers (Neighborhood, community)
15	525	1306 N San Fernando Rd	90065	Light Manufacturing
16	523	1000 W Temple St	90012	Office Buildings
17	447	2710 Media Center Dr	90065	Warehousing, Distribution, Storage
18	445	2910 N San Fernando Rd	90065	Warehousing, Distribution, Storage
19	444	310 N San Fernando Rd	90031	Warehousing, Distribution, Storage
20	440	2709 Media Center Dr	90065	Warehousing, Distribution, Storage

# Rooftop Solar Potential of Los Angeles City Council District 1



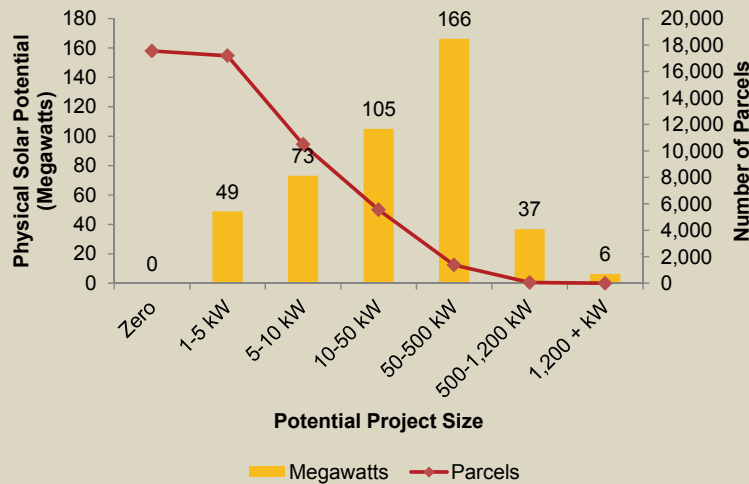


## Solar Statistics of Los Angeles City Council District 2

Area 50.4 square miles  
Population 274,950 (2009 estimate)

Total Potential Sites	34,682		
Commercial & Industrial	6.6%	Median Rooftop Availability	10.6%
Multi-family	13.6%	Median Potential of Parcels	2.9 Kilowatts
Single Family	79.2%	Median Solar Density Index	5.5%
Government or Non-profit	0.5%	Total Rooftop Solar Potential	436 Megawatts

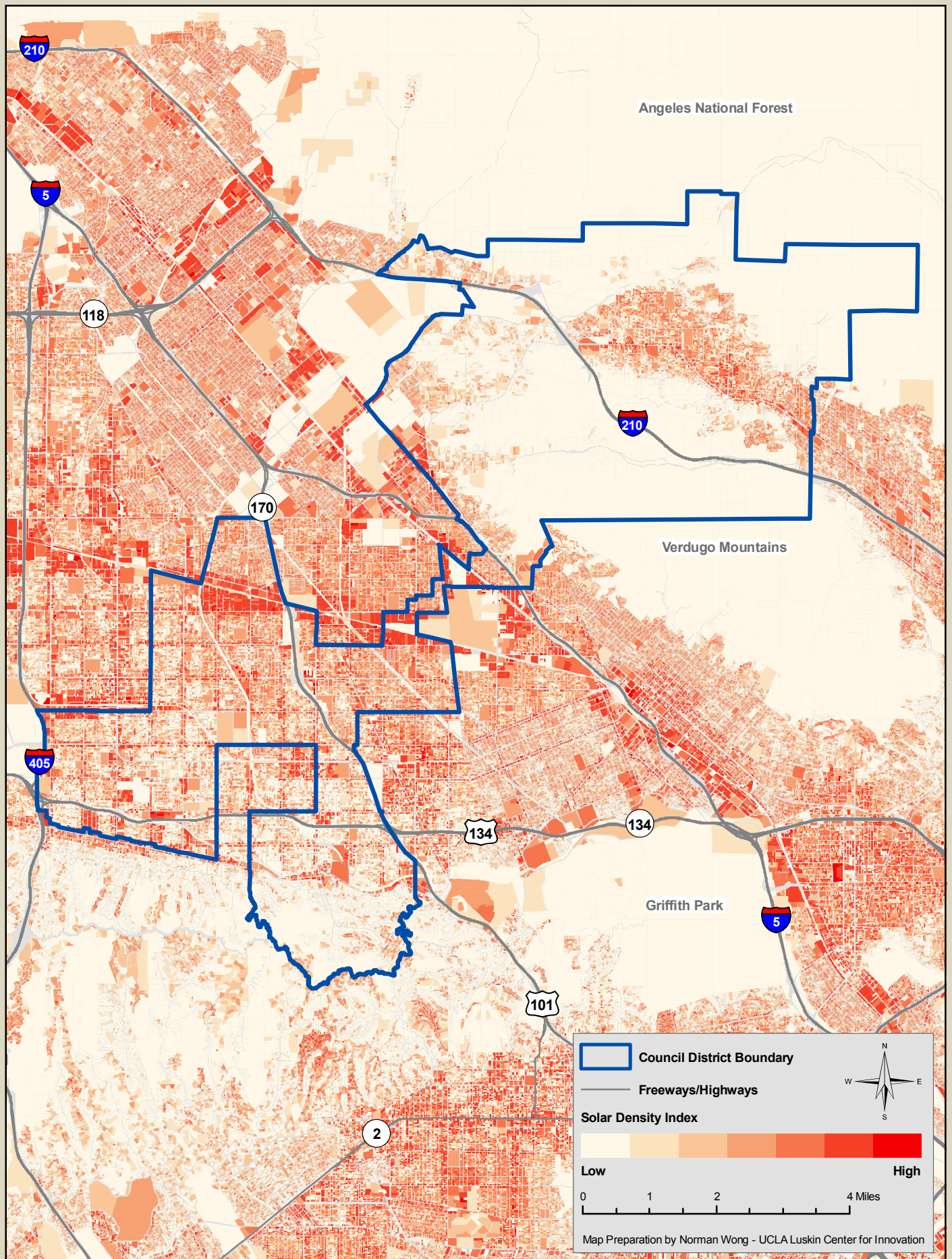
**Council District 2: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	2,149	4024 Radford Ave	91604	Motion Picture, Radio & Television
2	1,515	10635 Stagg St	91505	Warehousing, Distribution, Storage
3	1,395	6904 Tujunga Ave	91605	Light Manufacturing
4	1,220	11211 Vanowen St	91605	Warehousing, Distribution, Storage
5	1,194	11350 Sherman Way	91605	Light Manufacturing
6	1,169	13003 Sherman Way	91605	Department Stores
7	1,022	12755 Sherman Way	91605	Shopping Centers (Neighborhood, community)
8	1,001	11051 Victory Blvd	91406	Department Stores
9	994	7100 Tujunga Ave	91605	Light Manufacturing
10	960	11041 Vanowen St	91605	Light Manufacturing
11	926	11240 Sherman Way	91352	Parking Lots (Industrial Use Properties)
12	926	7519 Woodman Ave	91405	Open Storage
13	916	5719 Sepulveda Blvd	91411	Department Stores
14	916	7230 Bellaire Ave	91605	Light Manufacturing
15	909	14816 Oxnard St	91411	Light Manufacturing
16	862	7684 Clybourn Ave	91352	Light Manufacturing
17	855	12838 Saticoy St	91605	Light Manufacturing
18	839	11500 Sheldon St	91352	Light Manufacturing
19	837	10455 Sunland Blvd	91040	Shopping Centers (Neighborhood, community)
20	830	10911 Vanowen St	91605	Motion Picture, Radio & Television



## Rooftop Solar Potential of Los Angeles City Council District 2

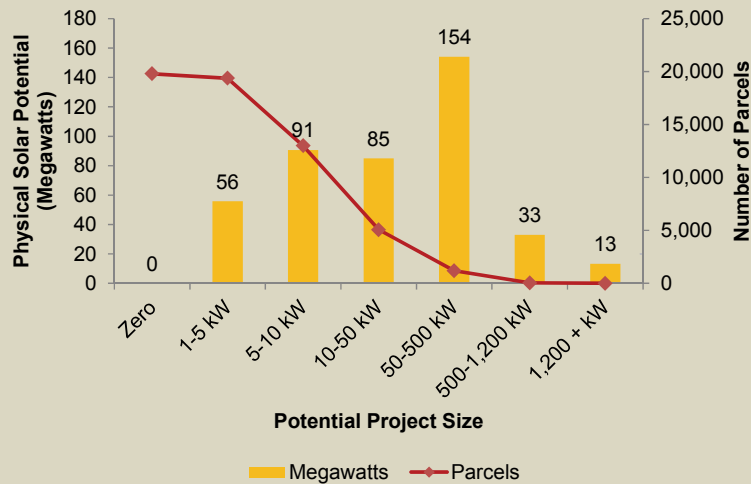


## Solar Statistics of Los Angeles City Council District 3

Area 41.5 square miles  
Population 283,533 (2009 estimate)

Total Potential Sites	38,654		
Commercial & Industrial	5.0%	Median Rooftop Availability	9.7%
Multi-family	3.4%	Median Potential of Parcels	2.9 Kilowatts
Single Family	91.1%	Median Solar Density Index	4.9%
Government or Non-profit	0.5%	Total Rooftop Solar Potential	432 Megawatts

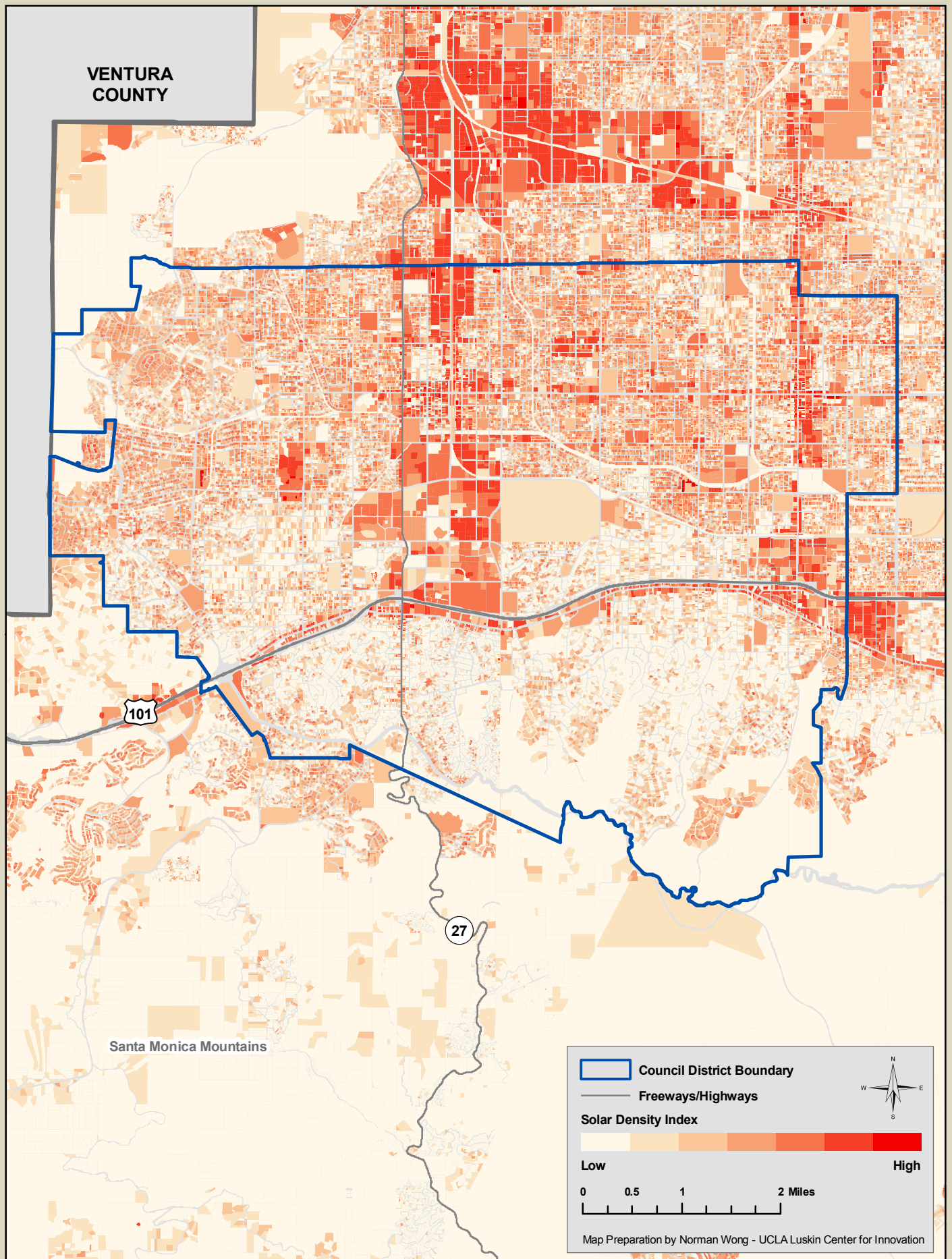
**Council District 3: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 3				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	3,597	5500 Canoga Ave	91367	Heavy Manufacturing
2	3,351	6600 Topanga Canyon Blvd	91303	Shopping Centers (Regional)
3	1,928	5601 De Soto Ave	91367	Hospitals
4	1,823	21500 Victory Blvd	91367	Shopping Centers (Neighborhood, community)
5	1,335	6501 Fallbrook Ave	91307	Shopping Centers (Regional)
6	1,275	21200 Victory Blvd	91367	Heavy Manufacturing
7	1,195	21200 Kittridge St	91303	Five or more apartments
8	1,194	21300 Roscoe Blvd	91304	Department Stores
9	1,145	6601 Owensmouth Ave	91303	Shopping Centers (Regional)
10	1,063	22816 Victory Blvd	91367	Shopping Centers (Regional)
11	1,039	21820 Burbank Blvd	91367	Office Buildings
12	1,035	6219 De Soto Ave	91367	Light Manufacturing
13	1,011	20801 Ventura Blvd	91364	Department Stores
14	990	6100 Canoga Ave	91367	Department Stores
15	945	6345 Variel Ave	91367	Department Stores
16	919	21218 Roscoe Blvd	91304	Stores
17	917	6925 Canby Ave	91335	Warehousing, Distribution, Storage
18	898	6635 Fallbrook Ave	91307	Shopping Centers (Regional)
19	882	23335 Mulholland Dr	91364	Shopping Centers (Neighborhood, community)
20	864	6700 Eton Ave	91303	Warehousing, Distribution, Storage



## Rooftop Solar Potential of Los Angeles City Council District 3



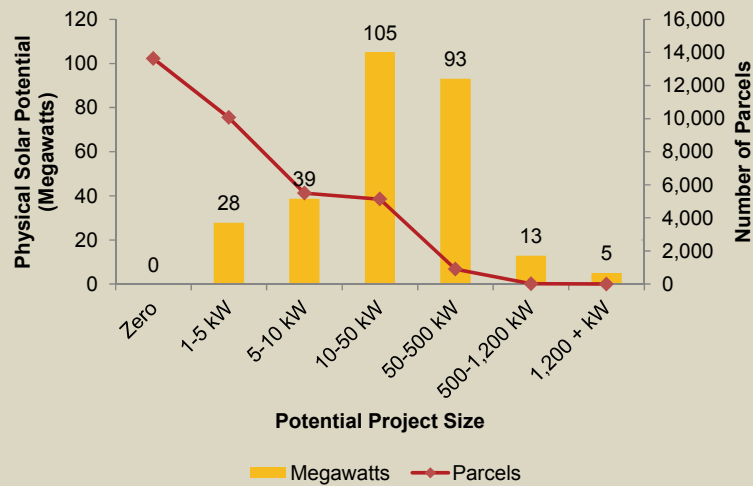


## Solar Statistics of Los Angeles City Council District 4

Area 30.1 square miles  
Population 278,134 (2009 estimate)

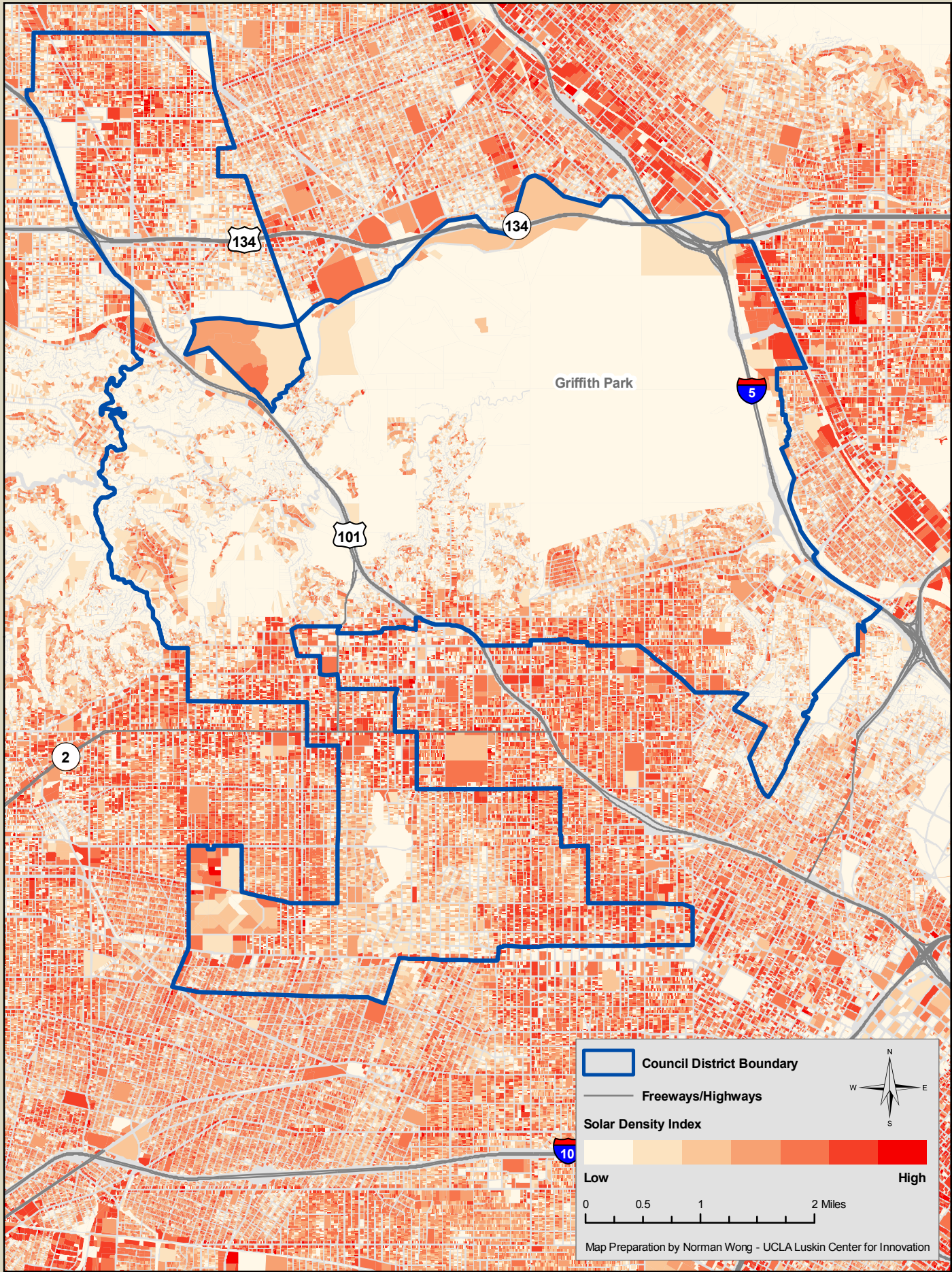
Total Potential Sites	21,618		
Commercial & Industrial	10.6%	Median Rooftop Availability	7.8%
Multi-family	32.0%	Median Potential of Parcels	2.4 Kilowatts
Single Family	56.6%	Median Solar Density Index	4.6%
Government or Non-profit	0.9%	Total Rooftop Solar Potential	283 Megawatts

**Council District 4: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 4				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	3,771	4544 Colorado Blvd	90039	Light Manufacturing
2	1,266	4151 Prospect Ave	90027	Motion Picture, Radio & Television
3	987	5416 Fair Ave	91601	Five or more apartments
4	984	101 The Grove Dr	90036	Shopping Centers (Regional)
5	942	101 The Grove Dr	90036	Shopping Centers (Regional)
6	882	7800 Beverly Blvd	90036	Motion Picture, Radio & Television
7	822	3600 Barham Blvd	90068	Five or more apartments
8	819	4501 Colorado Blvd	90039	Light Manufacturing
9	813	5375 W San Fernando Rd	90039	Department Stores
10	684	1040 N Las Palmas Ave	90038	Motion Picture, Radio & Television
11	675	6067 Wilshire Blvd	90036	Government Parcel
12	670	4585 Electronics Pl	90039	Motion Picture, Radio & Television
13	657	5431 W San Fernando Rd	90039	Heavy Manufacturing
14	626	7700 Beverly Blvd	90036	Parking Lots (Commercial Use Properties)
15	587	11135 Weddington St	91601	Five or more apartments
16	559	5433 W San Fernando Rd	90039	Heavy Manufacturing
17	551	4621 Sperry St	90039	Light Manufacturing
18	522	650 N Bronson Ave	90004	Heavy Manufacturing
19	522	4565 Colorado Blvd	90039	Heavy Manufacturing
20	504	348 Hauser Blvd	90036	Five or more apartments

# Rooftop Solar Potential of Los Angeles City Council District 4

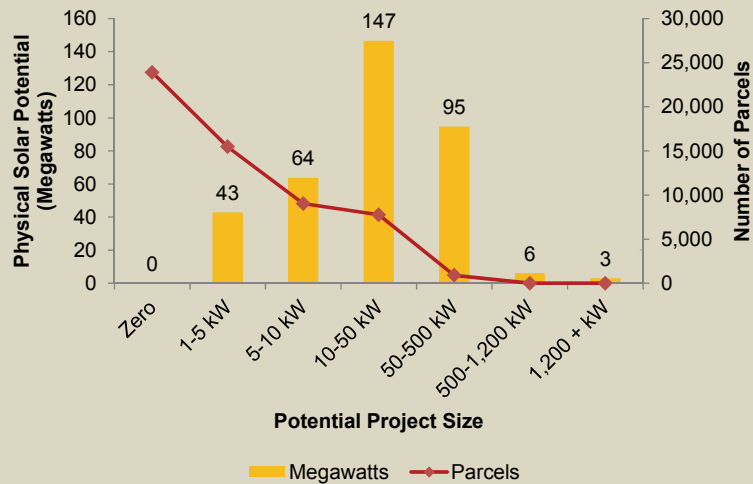


## Solar Statistics of Los Angeles City Council District 5

Area 47.4 square miles  
Population 280,128 (2009 estimate)

Total Potential Sites	33,155		
Commercial & Industrial	8.2%	Median Rooftop Availability	6.2%
Multi-family	21.4%	Median Potential of Parcels	1.9 Kilowatts
Single Family	69.8%	Median Solar Density Index	3.5%
Government or Non-profit	0.6%	Total Rooftop Solar Potential	357 Megawatts

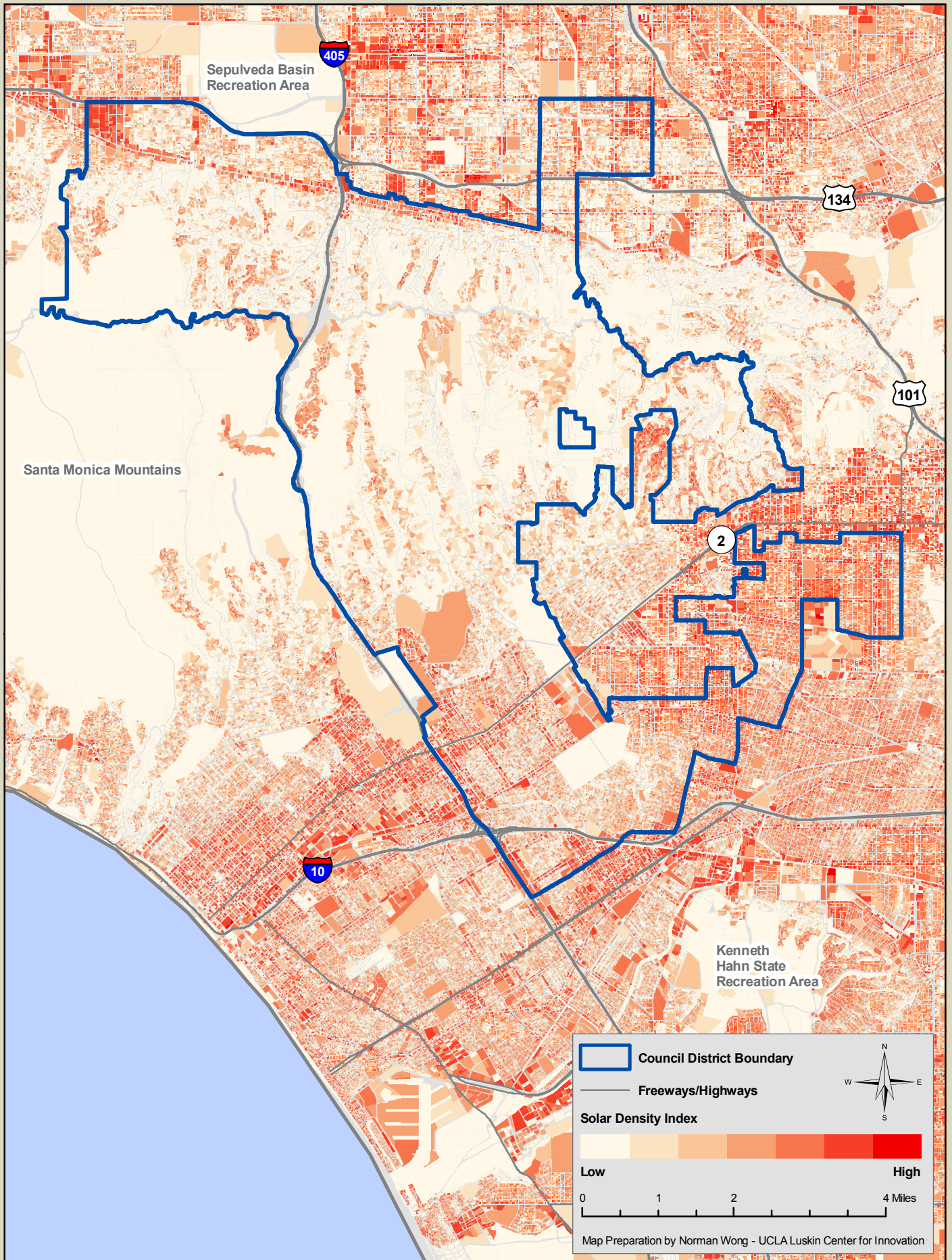
**Council District 5: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	1,702	15301 Ventura Blvd	91403	Office Buildings
2	1,390	121 N La Cienega Blvd	90048	Shopping Centers (Regional)
3	936	10250 Santa Monica Blvd	90067	Shopping Centers (Regional)
4	855	10730 W Pico Blvd	90064	Shopping Centers (Regional)
5	824	5301 Balboa Blvd	91316	Condominium
6	690	10116 Empyrean Way	90067	Condominium
7	629	11150 Santa Monica Blvd	90025	Office Buildings
8	578	8480 Beverly Blvd	90048	Shopping Centers (Neighborhood, community)
9	545	103 S Hamel Rd	90048	Hospitals
10	540	3010 S Sepulveda Blvd	90034	Shopping Centers (Neighborhood, community)
11	516	10250 Constellation Blvd	90067	Parking Lots (Commercial Use Properties)
12	489	2440 S Sepulveda Blvd	90064	Office Buildings
13	464	100 N La Cienega Blvd	90048	Shopping Centers (Neighborhood, community)
14	455	5216 Lindley Ave	91316	Condominium
15	454	5330 Lindley Ave	91316	Condominium
16	436	15500 Stephen S Wise Dr	90077	Schools (Private)
17	409	11120 Queensland St	90034	Condominium
18	407	2252 Century HI	90067	Condominium
19	399	11200 W Pico Blvd	90064	Warehousing, Distribution, Storage
20	391	2142 Century Park Ln	90067	Condominium



## Rooftop Solar Potential of Los Angeles City Council District 5

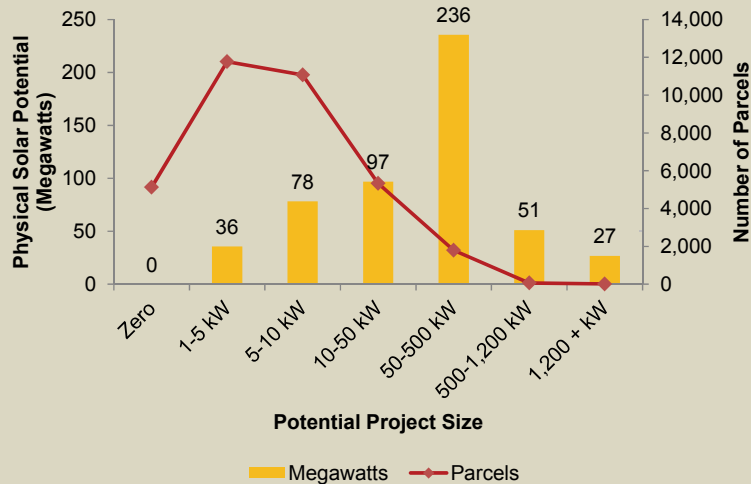


## Solar Statistics of Los Angeles City Council District 6

Area 24.3 square miles  
Population 247,519 (2009 estimate)

Total Potential Sites	30,062		
Commercial & Industrial	10.5%	Median Rooftop Availability	21.0%
Multi-family	8.5%	Median Potential of Parcels	5.0 Kilowatts
Single Family	80.5%	Median Solar Density Index	11.2%
Government or Non-profit	0.5%	Total Rooftop Solar Potential	524 Megawatts

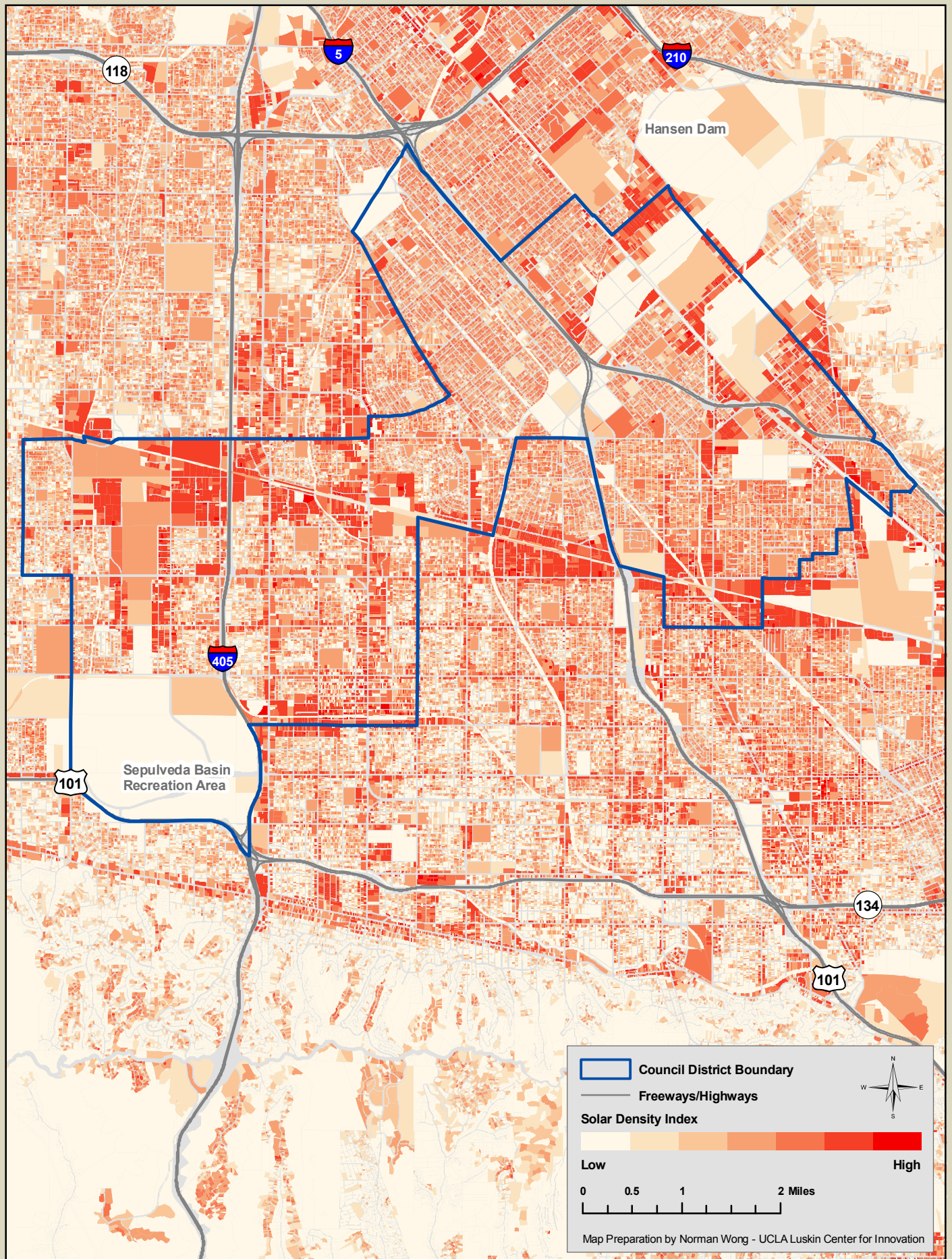
**Council District 6: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 6				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	2,806	11428 Sherman Way	91605	Warehousing, Distribution, Storage
2	2,430	8201 Woodley Ave	91406	Light Manufacturing
3	2,144	16800 Roscoe Blvd	91406	Government Parcel
4	1,943	7821 Orion Ave	91406	Light Manufacturing
5	1,841	16000 Arminta St	91406	Warehousing, Distribution, Storage
6	1,708	7860 Nelson Rd	91402	Warehousing, Distribution, Storage
7	1,679	7900 Nelson Rd	91402	Warehousing, Distribution, Storage
8	1,671	9725 Laurel Canyon Blvd	91331	Department Stores
9	1,634	14400 Arminta St	91402	Department Stores
10	1,632	9210 San Fernando Rd	91352	Warehousing, Distribution, Storage
11	1,620	9175 San Fernando Rd	91352	Heavy Manufacturing
12	1,506	9545 San Fernando Rd	91352	Warehousing, Distribution, Storage
13	1,504	7855 Hayvenhurst Ave	91406	Light Manufacturing
14	1,314	11308 Penrose St	91352	Light Manufacturing
15	1,275	6161 Sepulveda Blvd	91411	Stores
16	1,192	14920 Raymer St	91405	Department Stores
17	1,162	15330 Raymer St	91406	Light Manufacturing
18	1,152	15906 Arminta St	91406	Light Manufacturing
19	1,150	8325 Laurel Canyon Blvd	91352	Shopping Centers (Neighborhood, community)
20	1,125	15963 Strathern St	91406	Warehousing, Distribution, Storage



## Rooftop Solar Potential of Los Angeles City Council District 6

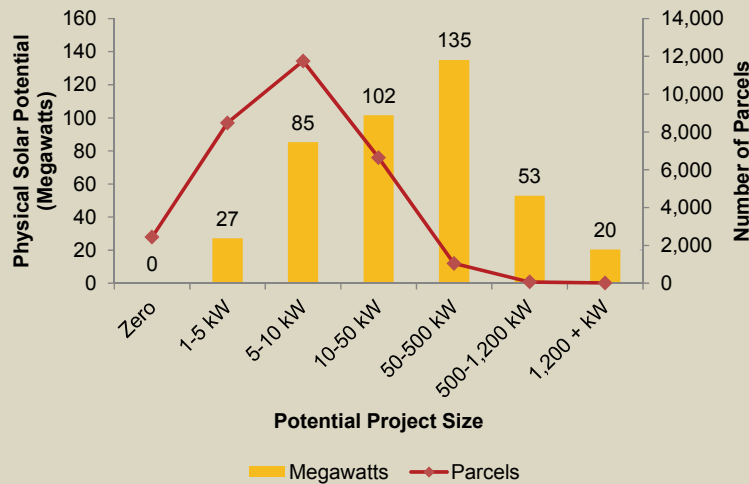


## Solar Statistics of Los Angeles City Council District 7

Area 28.8 square miles  
Population 258,705 (2009 estimate)

Total Potential Sites	28,008		
Commercial & Industrial	4.4%	Median Rooftop Availability	26.6%
Multi-family	6.3%	Median Potential of Parcels	6.5 Kilowatts
Single Family	88.8%	Median Solar Density Index	12.6%
Government or Non-profit	0.5%	Total Rooftop Solar Potential	422 Megawatts

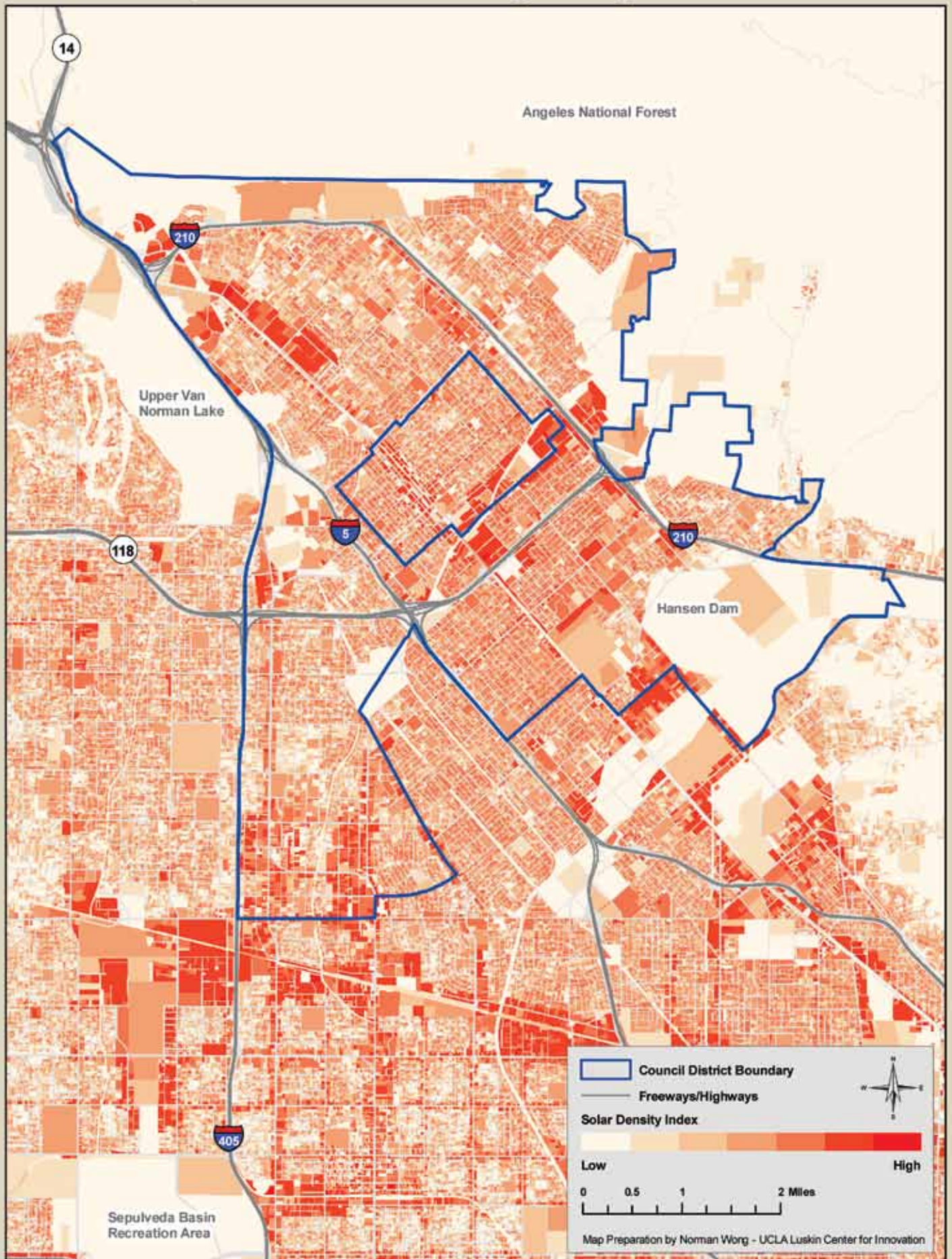
**Council District 7: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	2,672	12745 Arroyo St	91342	Light Manufacturing
2	2,302	13691 Gavina Ave	91342	Mobile Home Parks
3	2,171	12820 Pierce St	91331	Warehousing, Distribution, Storage
4	1,699	13955 Balboa Blvd	91342	Warehousing, Distribution, Storage
5	1,589	15825 Roxford St	91342	Heavy Manufacturing
6	1,587	13009 Mesa Verde Way	91342	Condominium
7	1,494	15860 Olden St	91342	Heavy Manufacturing
8	1,446	12806 San Fernando Rd	91342	Light Manufacturing
9	1,376	15445 Bermuda St	91345	Mobile Home Parks
10	1,373	12744 San Fernando Rd	91342	Light Manufacturing
11	1,356	12001 Foothill Blvd	91342	Mobile Home Parks
12	1,278	15600 Roxford St	91342	Light Manufacturing
13	1,179	12740 Arroyo St	91342	Light Manufacturing
14	1,169	8353 Van Nuys Blvd	91402	Shopping Centers (Regional)
15	1,147	13207 Bradley Ave	91342	Warehousing, Distribution, Storage
16	1,079	13291 Ralston Ave	91342	Heavy Manufacturing
17	1,070	15900 Valley View Ct	91342	Heavy Manufacturing
18	1,065	15853 Olden St	91342	Light Manufacturing
19	1,042	13259 Ralston Ave	91342	Light Manufacturing
20	1,017	14093 Balboa Blvd	91342	Warehousing, Distribution, Storage



## Rooftop Solar Potential of Los Angeles City Council District 7

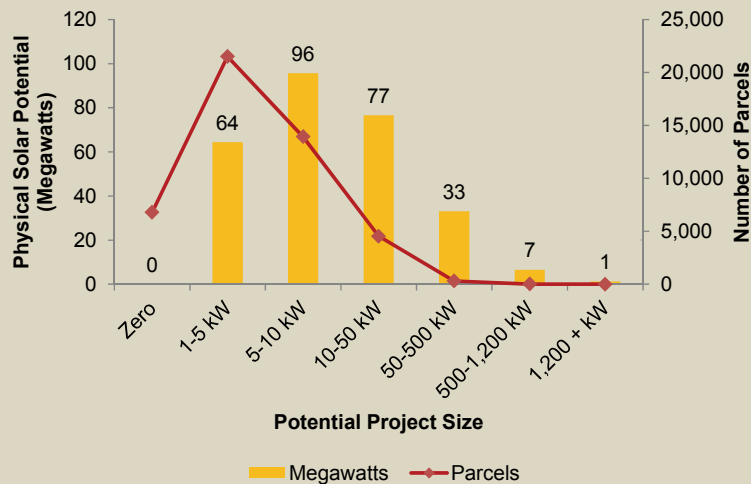


## Solar Statistics of Los Angeles City Council District 8

Area 17.9 square miles  
Population 260,729 (2009 estimate)

Total Potential Sites	40,285		
Commercial & Industrial	6.1%	Median Rooftop Availability	19.5%
Multi-family	25.7%	Median Potential of Parcels	4.1 Kilowatts
Single Family	66.9%	Median Solar Density Index	11.2%
Government or Non-profit	1.2%	Total Rooftop Solar Potential	278 Megawatts

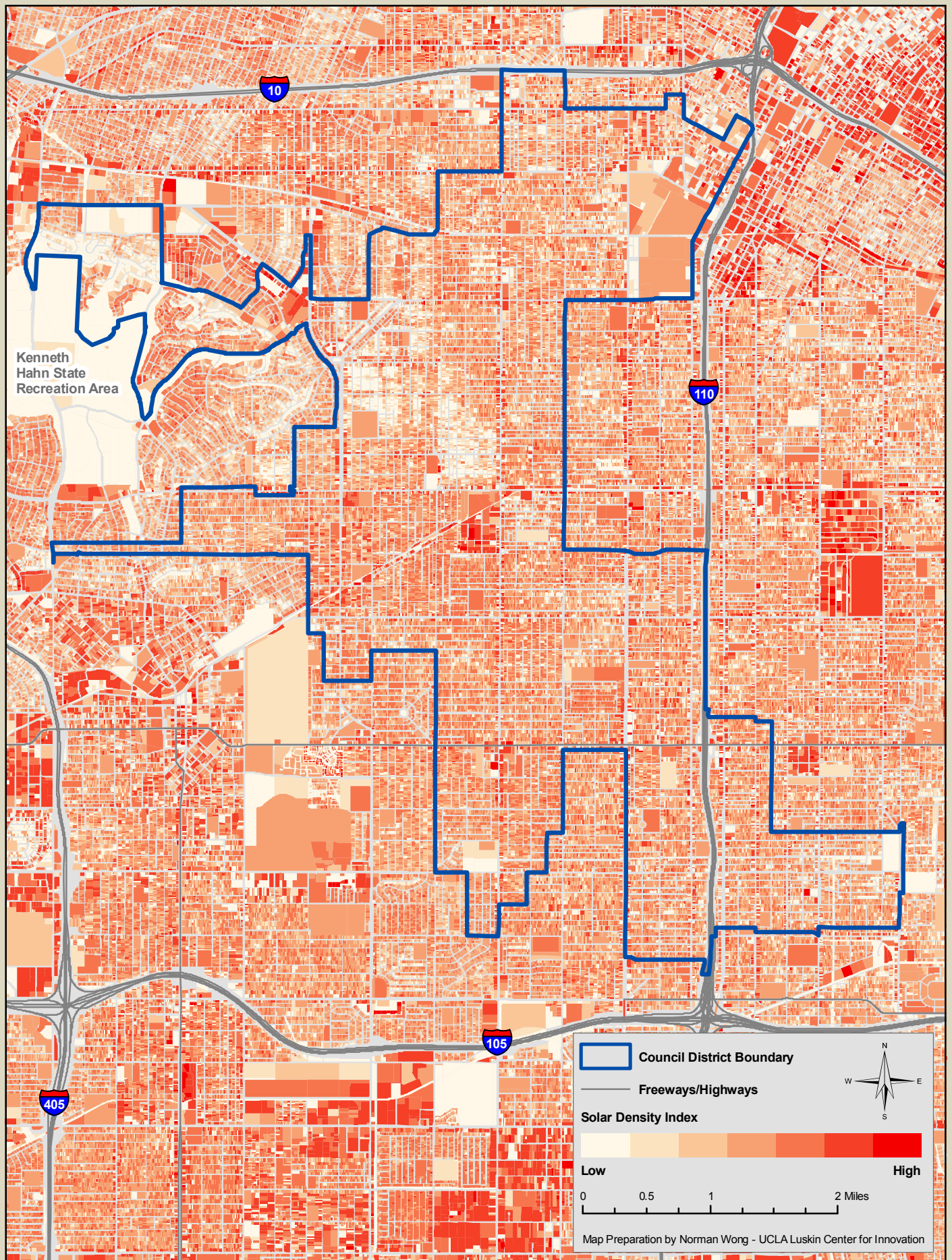
**Council District 8: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 8				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	1,311	7833 S Vermont Ave	90044	Colleges, Universities (Private)
2	1,015	3650 W Martin Luther King Jr Blvd	90008	Parking Lots (Commercial Use Properties)
3	981	1830 W Slauson Ave	90047	Department Stores
4	774	6100 S Gramercy Pl	90047	Light Manufacturing
5	725	1600 W Slauson Ave	90047	Stores
6	719	3301 S Hoover St	90007	Shopping Centers (Neighborhood, community)
7	709	3650 W Martin Luther King Jr Blvd	90008	Shopping Centers (Regional)
8	565	3755 Santa Rosalia Dr	90008	Shopping Centers (Regional)
9	548	3601 S La Brea Ave	90016	Shopping Centers (Regional)
10	545	8811 S Western Ave	90047	Supermarkets
11	494	6007 S St Andrews Pl	90047	Food Processing Plants
12	480	1933 W 60th St	90047	Heavy Manufacturing
13	462	3240 W Slauson Ave	90043	Shopping Centers (Regional)
14	432	1820 W Slauson Ave	90047	Shopping Centers (Neighborhood, community)
15	432	1027 W 34th St	90089	Colleges, Universities (Private)
16	403	663 W 34th St	90089	Colleges, Universities (Private)
17	371	8055 S Vermont Ave	90044	Churches
18	368	2601 S Figueroa St	90007	Banks Savings & Loan
19	358	6001 S Gramercy Pl	90047	Warehousing, Distribution, Storage
20	356	4005 Crenshaw Blvd	90008	Shopping Centers (Regional)



## Rooftop Solar Potential of Los Angeles City Council District 8

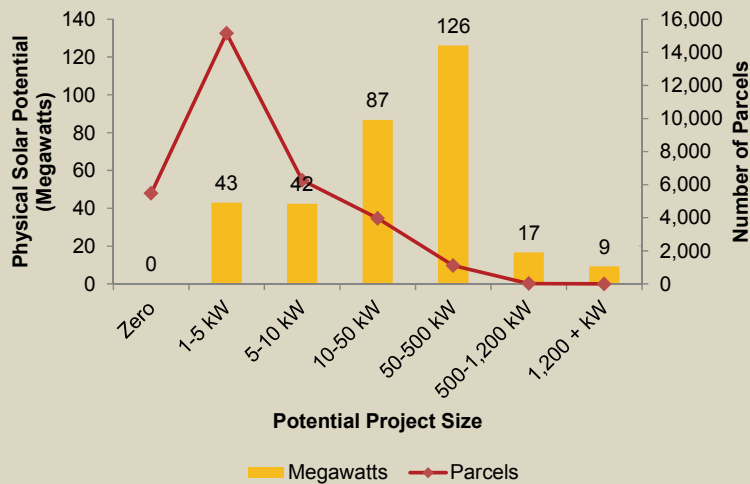


## Solar Statistics of Los Angeles City Council District 9

Area 14.7 square miles  
Population 257,927 (2009 estimate)

Total Potential Sites	26,517		
Commercial & Industrial	18.4%	Median Rooftop Availability	15.2%
Multi-family	40.7%	Median Potential of Parcels	3.4 Kilowatts
Single Family	39.5%	Median Solar Density Index	10.2%
Government or Non-profit	1.5%	Total Rooftop Solar Potential	324 Megawatts

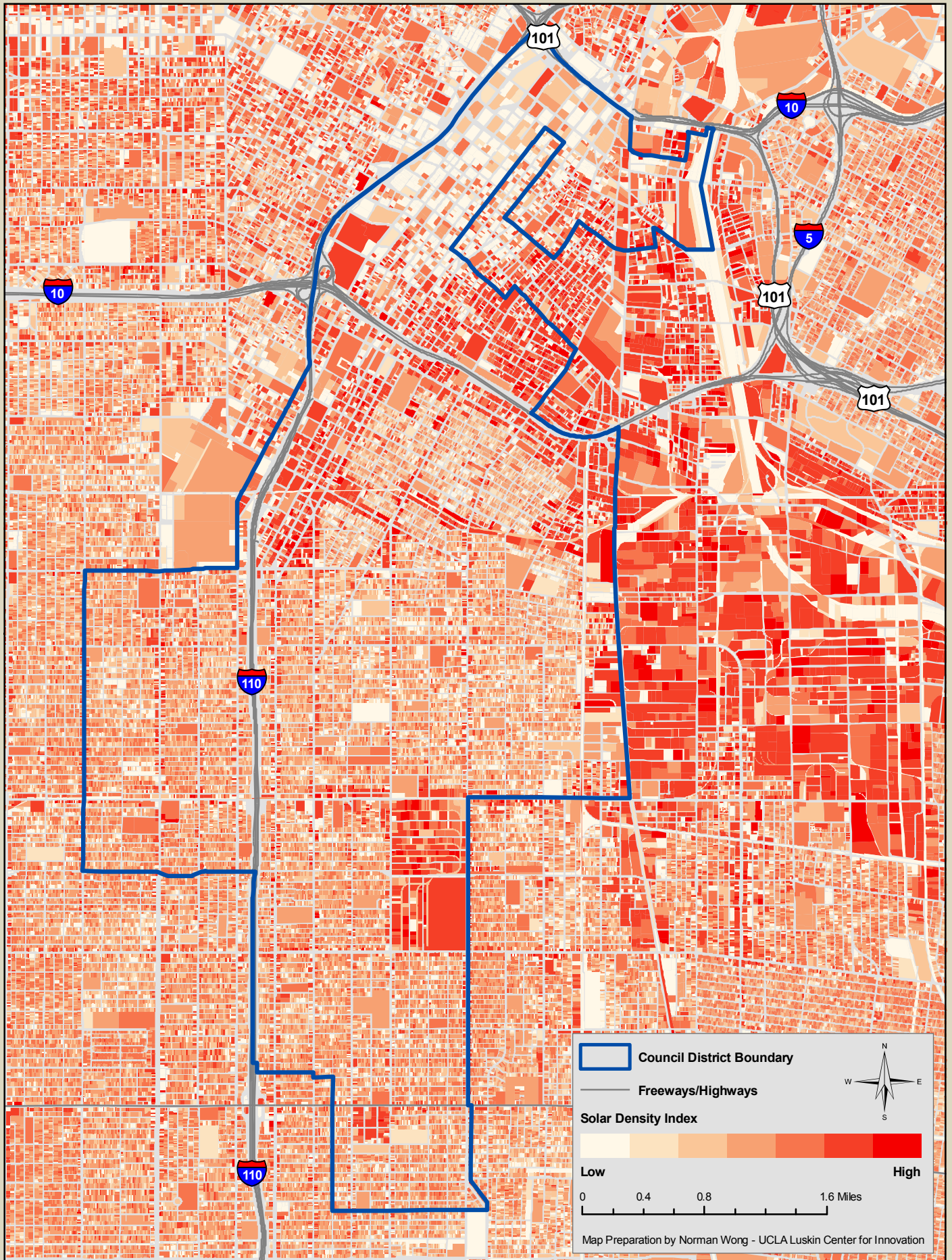
**Council District 9: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 9				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	4,402	2501 S Alameda St	90058	Warehousing, Distribution, Storage
2	1,945	2652 Long Beach Ave	90058	Warehousing, Distribution, Storage
3	1,773	4601 S Alameda St	90058	Warehousing, Distribution, Storage
4	1,213	410 S Central Ave	90013	Food Processing Plants
5	1,180	4851 S Alameda St	90058	Light Manufacturing
6	1,159	1111 S Figueroa St	90015	Athletic & Amusement Facilities
7	1,142	4922 Long Beach Ave	90058	Warehousing, Distribution, Storage
8	872	3401 S Grand Ave	90007	Warehousing, Distribution, Storage
9	809	915 S San Pedro St	90015	Wholesale & Manufacturing Outlets
10	794	4811 S Alameda St	90058	Warehousing, Distribution, Storage
11	777	5000 Long Beach Ave	90058	Heavy Manufacturing
12	773	3442 S Grand Ave	90007	Office Buildings
13	724	300 S Central Ave	90013	Warehousing, Distribution, Storage
14	723	988 W Slauson Ave	90044	Shopping Centers (Neighborhood, community)
15	699	914 E 29th St	90011	Warehousing, Distribution, Storage
16	692	1611 E Washington Blvd	90021	Department Stores
17	671	8805 Mettler Ave	90003	Light Manufacturing
18	648	5867 S Los Angeles St	90003	Heavy Manufacturing
19	633	1915 Maple Ave	90011	Industrial
20	607	2001 S Alameda St	90058	Light Manufacturing



## Rooftop Solar Potential of Los Angeles City Council District 9

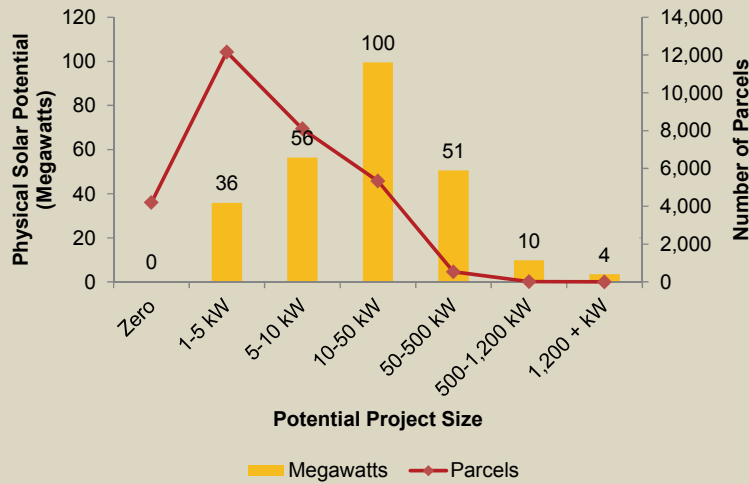


## Solar Statistics of Los Angeles City Council District 10

Area 13.6 square miles  
Population 258,282 (2009 estimate)

Total Potential Sites	26,138		
Commercial & Industrial	8.9%	Median Rooftop Availability	17.5%
Multi-family	41.0%	Median Potential of Parcels	4.6 Kilowatts
Single Family	49.2%	Median Solar Density Index	11.5%
Government or Non-profit	0.9%	Total Rooftop Solar Potential	256 Megawatts

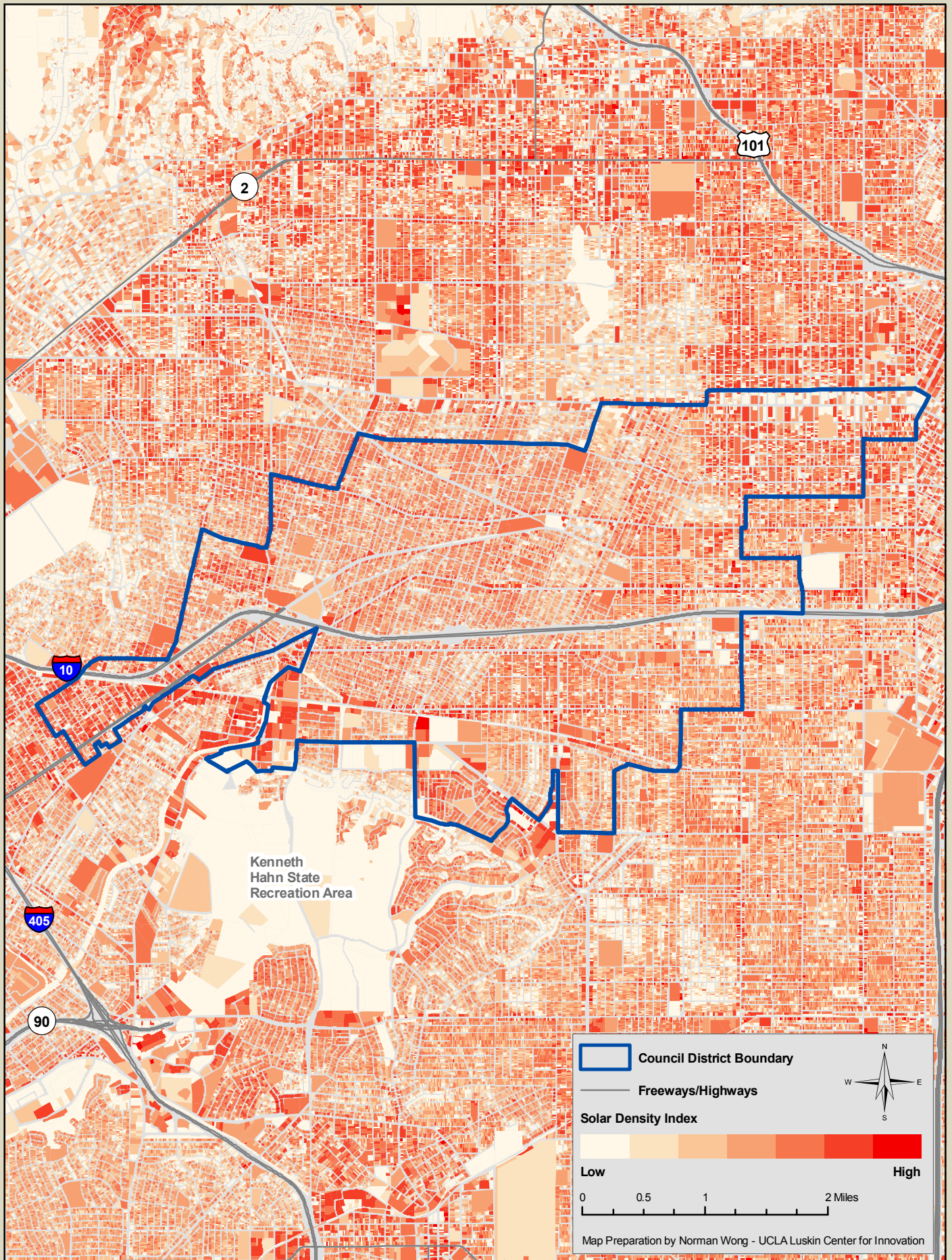
**Council District 10: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	1,814	1801 S La Cienega Blvd	90035	Shopping Centers (Neighborhood, community)
2	1,727	3430 S La Brea Ave	90016	Warehousing, Distribution, Storage
3	946	3535 S La Cienega Blvd	90016	Department Stores
4	820	4050 W Washington Blvd	90018	Shopping Centers (Neighborhood, community)
5	770	3423 S La Cienega Blvd	90016	Food Processing Plants
6	721	6041 Cadillac Ave	90034	Hospitals
7	696	8985 Venice Blvd	90034	Shopping Centers (Neighborhood, community)
8	673	8888 Venice Blvd	90034	Light Manufacturing
9	637	3414 S La Cienega Blvd	90016	Warehousing, Distribution, Storage
10	612	8800 Venice Blvd	90034	Store Combination
11	611	4502 Rodeo Ln	90016	Five or more apartments
12	610	2340 S Fairfax Ave	90016	Warehousing, Distribution, Storage
13	606	5060 Rodeo Rd	90016	Shopping Centers (Regional)
14	592	4551 W Martin Luther King Jr Blvd	90016	Five or more apartments
15	523	3552 S La Brea Ave	90016	Shopping Centers (Neighborhood, community)
16	522	3602 Crenshaw Blvd	90016	Churches
17	507	5890 W Jefferson Blvd	90016	Office Buildings
18	480	3485 S La Cienega Blvd	90016	Warehousing, Distribution, Storage
19	414	3440 Wilshire Blvd	90010	Office Buildings
20	404	5333 W Jefferson Blvd	90016	Department Stores



## Rooftop Solar Potential of Los Angeles City Council District 10

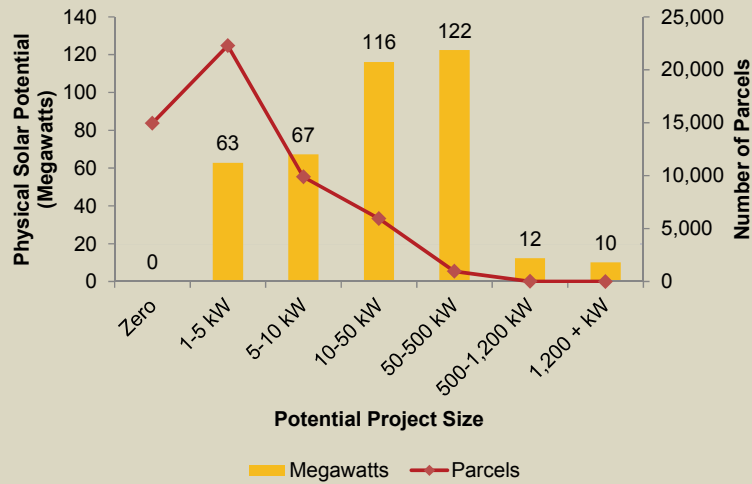


## Solar Statistics of Los Angeles City Council District 11

Area 64.7 square miles  
Population 283,220 (2009 estimate)

Total Potential Sites	39,108		
Commercial & Industrial	5.5%	Median Rooftop Availability	12.1%
Multi-family	19.2%	Median Potential of Parcels	2.9 Kilowatts
Single Family	74.9%	Median Solar Density Index	7.2%
Government or Non-profit	0.5%	Total Rooftop Solar Potential	391 Megawatts

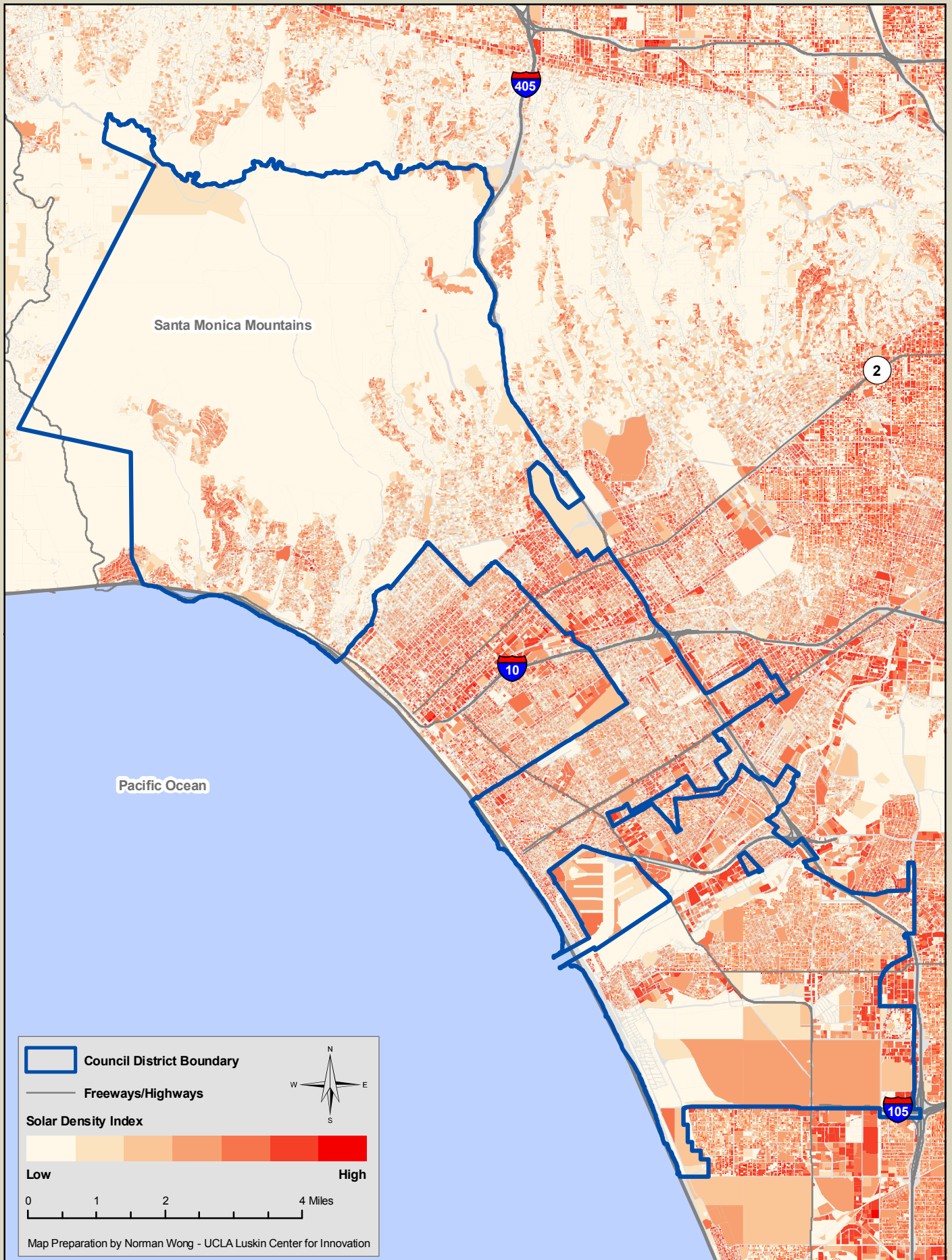
**Council District 11: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	2,588	13031 W Jefferson Blvd	90066	Government Parcel
2	2,463	1 LMU Dr	90045	Colleges, Universities (Private)
3	2,431	5525 W Imperial Hwy	90045	Heavy Manufacturing
4	1,405	12800 Culver Blvd	90066	Light Manufacturing
5	1,256	12655 Beatrice St	90066	Warehousing, Distribution, Storage
6	1,118	12975 W Jefferson Blvd	90066	Department Stores
7	1,016	9130 Bellanca Ave	90045	Light Manufacturing
8	852	5750 Mesmer Ave	90230	Supermarkets
9	787	12333 W Olympic Blvd	90064	Heavy Manufacturing
10	739	3658 S Sepulveda Blvd	90034	Five or more apartments
11	727	5353 Grosvenor Blvd	90066	Light Manufacturing
12	694	4755 Alla Rd	90041	Office Buildings
13	688	4241 Glencoe Ave	90292	Shopping Centers (Neighborhood, community)
14	660	8492 Osage Ave	90045	Warehousing, Distribution, Storage
15	634	1200 Getty Center Dr	90049	Government Parcel
16	627	8700 Pershing Dr	90293	Five or more apartments
17	602	311 Bora Bora Way	90292	Condominium
18	600	7600 W Manchester Ave	90293	Five or more apartments
19	575	9000 Airport Blvd	90045	Industrial
20	538	5760 Arbor Vitae St	90045	Warehousing, Distribution, Storage



## Rooftop Solar Potential of Los Angeles City Council District 11



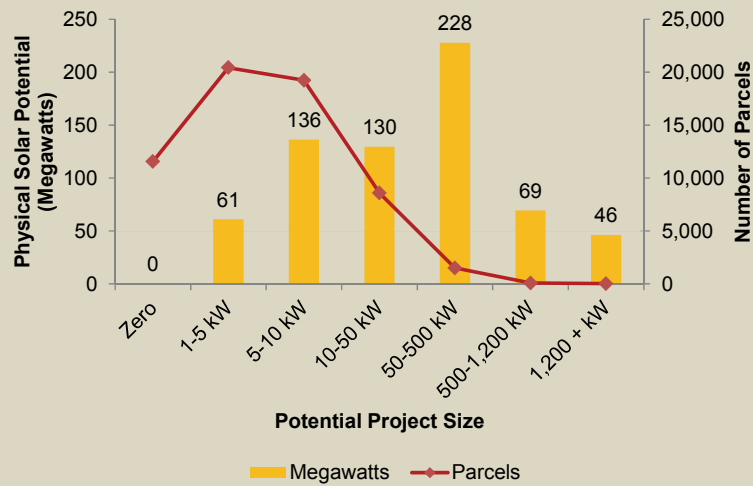


## Solar Statistics of Los Angeles City Council District 12

Area 62.3 square miles  
Population 264,685 (2009 estimate)

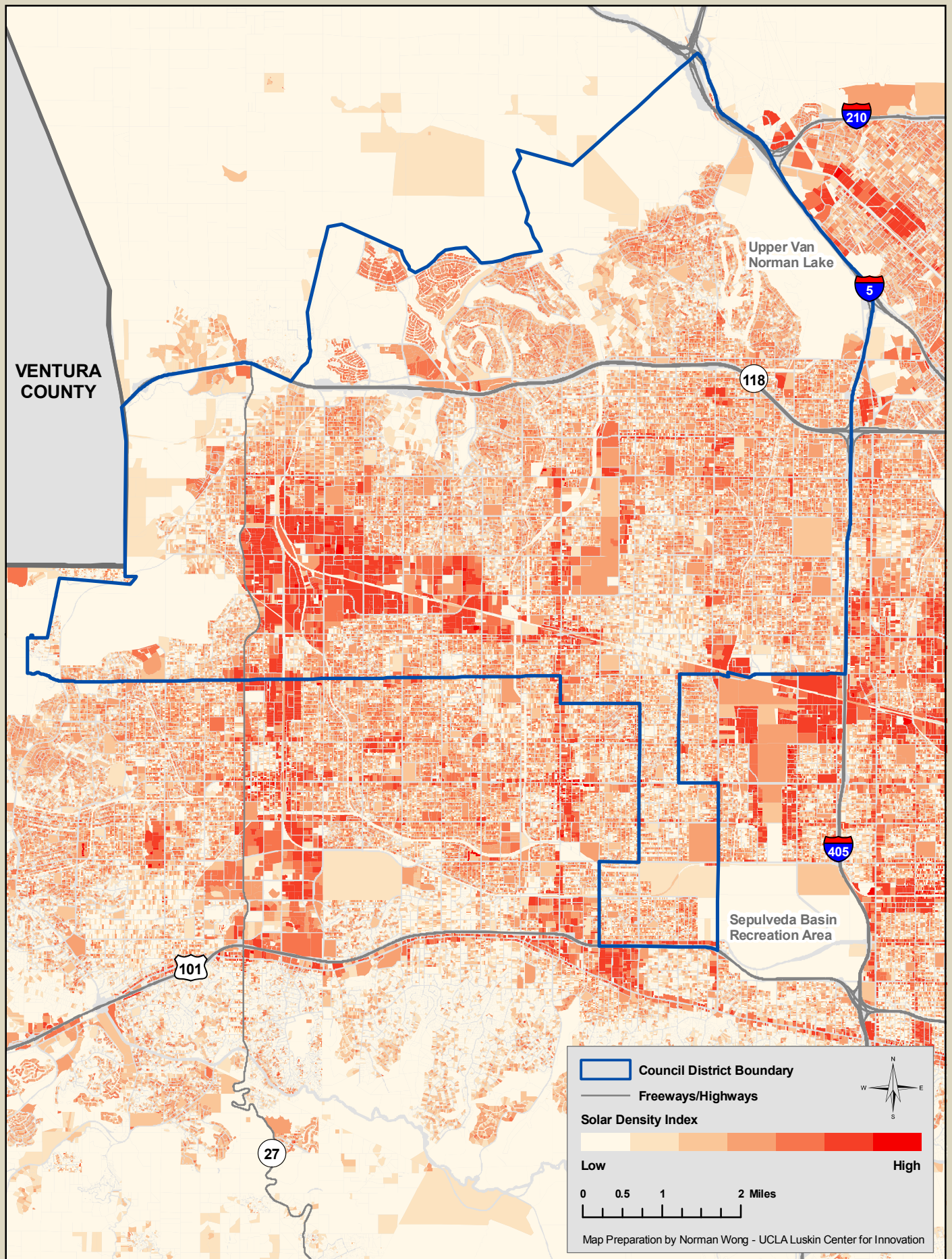
Total Potential Sites	49,870		
Commercial & Industrial	3.7%	Median Rooftop Availability	16.3%
Multi-family	2.8%	Median Potential of Parcels	4.8 Kilowatts
Single Family	93.2%	Median Solar Density Index	7.8%
Government or Non-profit	0.3%	Total Rooftop Solar Potential	670 Megawatts

**Council District 12: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	4,524	20525 Nordhoff St	91311	Light Manufacturing
2	3,366	8500 Balboa Blvd	91406	Heavy Manufacturing
3	3,052	9301 Tampa Ave	91324	Shopping Centers (Regional)
4	2,673	9120 Mason Ave	91311	Light Manufacturing
5	2,447	8811 Canoga Ave	91304	Mobile Home Parks
6	2,404	8900 De Soto Ave	91311	Heavy Manufacturing
7	1,821	21500 Lassen St	91311	Mobile Home Parks
8	1,815	20701 Plummer St	91311	Light Manufacturing
9	1,755	20652 Lassen St	91311	Mobile Home Parks
10	1,683	17941 Chatsworth St	91344	Restaurants, Cocktail Lounges
11	1,610	20730 Prairie St	91311	Light Manufacturing
12	1,568	9400 Oso Ave	91311	Light Manufacturing
13	1,555	18000 Chatsworth St	91344	Office Buildings
14	1,511	9301 Tampa Ave	91324	Shopping Centers (Regional)
15	1,453	9301 Tampa Ave	91324	Shopping Centers (Regional)
16	1,394	8733 Shirley Ave	91324	Light Manufacturing
17	1,382	8901 Eton Ave	91304	Mobile Home Parks
18	1,362	9151 Mason Ave	91311	Light Manufacturing
19	1,331	21541 Nordhoff St	91311	Light Manufacturing
20	1,271	8901 Canoga Ave	91304	Warehousing, Distribution, Storage

## Rooftop Solar Potential of Los Angeles City Council District 12

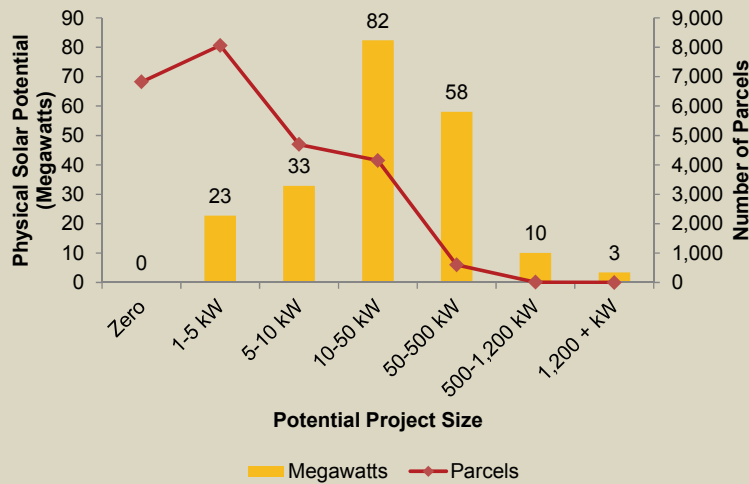


## Solar Statistics of Los Angeles City Council District 13

Area 13.1 square miles  
Population 263,691 (2009 estimate)

Total Potential Sites	17,518		
Commercial & Industrial	13.1%	Median Rooftop Availability	12.7%
Multi-family	51.9%	Median Potential of Parcels	3.4 Kilowatts
Single Family	33.7%	Median Solar Density Index	8.7%
Government or Non-profit	1.3%	Total Rooftop Solar Potential	210 Megawatts

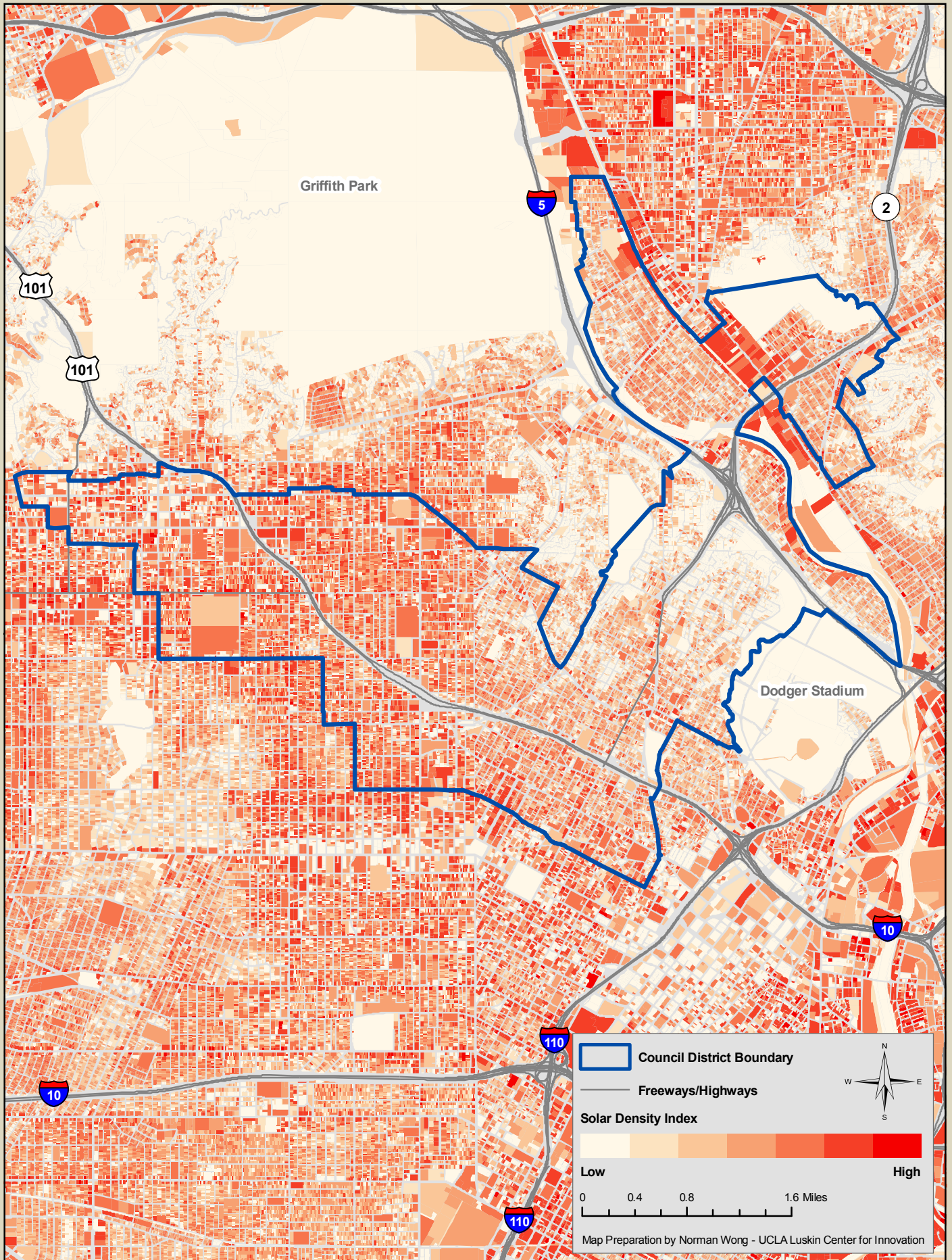
**Council District 13: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 13				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	2,201	3410 N San Fernando Rd	90065	Light Manufacturing
2	1,278	2901 Los Feliz Blvd	90039	Shopping Centers (Neighborhood, community)
3	1,173	3334 N San Fernando Rd	90065	Light Manufacturing
4	1,166	209 S Westmoreland Ave	90004	Five or more apartments
5	1,161	3150 N San Fernando Rd	90065	Department Stores
6	1,063	1438 N Gower St	90028	Motion Picture, Radio & Television
7	950	5600 W Sunset Blvd	90028	Department Stores
8	816	5420 W Sunset Blvd	90027	Supermarkets
9	601	4550 W Sunset Blvd	90027	Hospitals
10	564	3116 W Avenue 32	90065	Warehousing, Distribution, Storage
11	551	3345 Casitas Ave	90039	Light Manufacturing
12	535	2330 Ripple St	90039	Lumber Yards
13	525	2856 Los Feliz Pl	90039	Warehousing, Distribution, Storage
14	511	3221 N San Fernando Rd	90065	Heavy Manufacturing
15	509	3030 Andrita St	90065	Motion Picture, Radio & Television
16	476	3200 N San Fernando Rd	90065	Office Buildings
17	433	1417 N Western Ave	90027	Shopping Centers (Neighborhood, community)
18	420	741 N Vermont Ave	90029	Schools (Private)
19	411	3333 N San Fernando Rd	90065	Warehousing, Distribution, Storage
20	407	3810 Eagle Rock Blvd	90065	Warehousing, Distribution, Storage



## Rooftop Solar Potential of Los Angeles City Council District 13

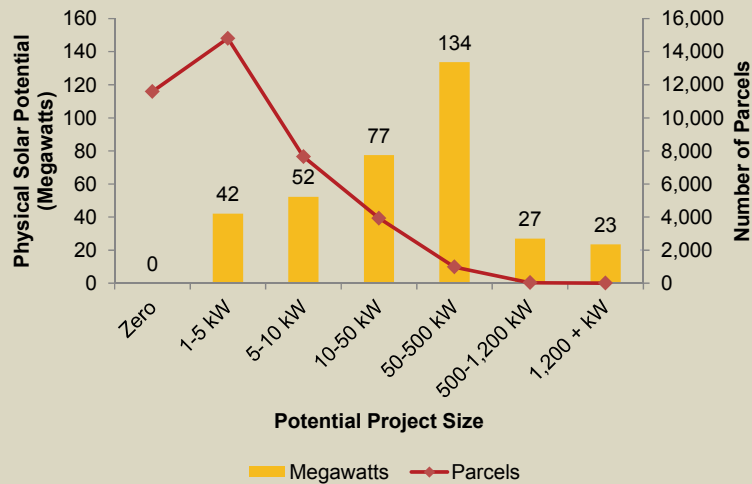


## Solar Statistics of Los Angeles City Council District 14

Area 22.9 square miles  
Population 254,560 (2009 estimate)

Total Potential Sites	27,416		
Commercial & Industrial	14.3%	Median Rooftop Availability	13.2%
Multi-family	26.7%	Median Potential of Parcels	2.9 Kilowatts
Single Family	58.1%	Median Solar Density Index	7.6%
Government or Non-profit	0.9%	Total Rooftop Solar Potential	356 Megawatts

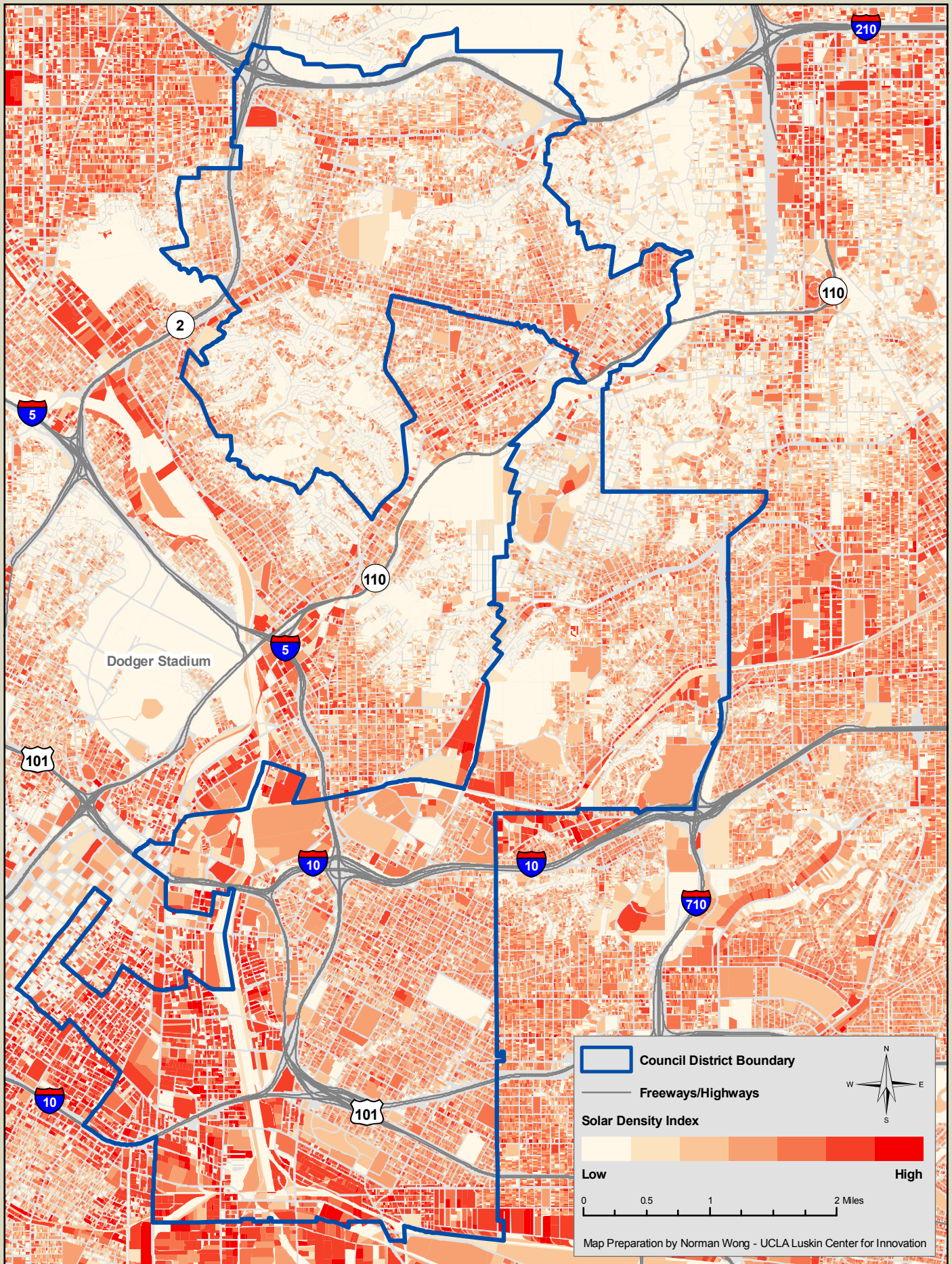
**Council District 14: Megawatts of Rooftop Solar Potential by Project Size**



Parcels with the Largest Potential Solar Projects in Council District 14				
Rank	Potential (kW)	Address	Zip Code	Use Description
1	3,629	1800 N Main St	90031	Warehousing, Distribution, Storage
2	2,703	3820 Union Pacific Ave	90023	Heavy Manufacturing
3	2,693	1601 E Olympic Blvd	90021	Warehousing, Distribution, Storage
4	2,126	3020 E Washington Blvd	90023	Heavy Manufacturing
5	2,090	4121 Valley Blvd	90032	Parking Lots (Industrial Use Properties)
6	2,063	2700 Colorado Blvd	90041	Shopping Centers (Regional)
7	1,873	2555 E Olympic Blvd	90023	Warehousing, Distribution, Storage
8	1,848	1444 S Alameda St	90021	Warehousing, Distribution, Storage
9	1,599	1321 Wholesale St	90021	Warehousing, Distribution, Storage
10	1,471	500 S Central Ave	90013	Warehousing, Distribution, Storage
11	1,341	2626 Colorado Blvd	90041	Shopping Centers (Regional)
12	1,173	1791 Bay St	90021	Warehousing, Distribution, Storage
13	1,161	1815 S Soto St	90023	Warehousing, Distribution, Storage
14	1,158	1200 N State St	90089	Government Parcel
15	1,126	1312 E 7th St	90021	Warehousing, Distribution, Storage
16	1,124	1500 S Evergreen Ave	90023	Warehousing, Distribution, Storage
17	1,065	3700 E Olympic Blvd	90023	Light Manufacturing
18	1,042	1995 E 20th St	90058	Food Processing Plants
19	1,027	2251 Jesse St	90023	Heavy Manufacturing
20	1,008	1248 Palmetto St	90013	Light Manufacturing



## Rooftop Solar Potential of Los Angeles City Council District 14



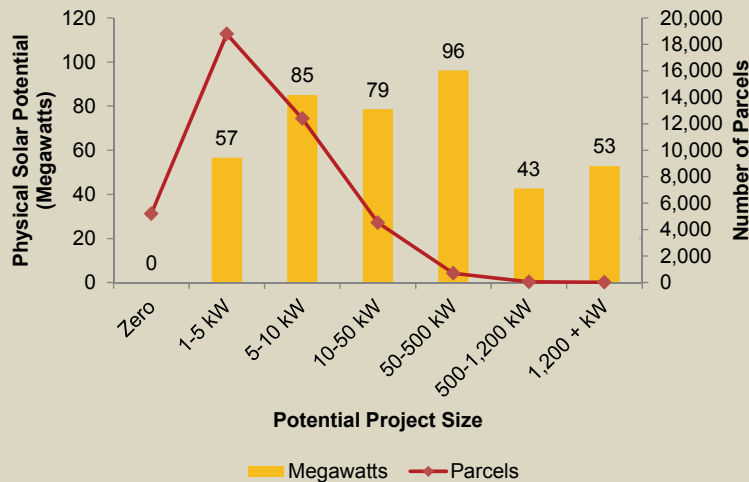


## Solar Statistics of Los Angeles City Council District 15

Area 38.5 square miles  
Population 274,819 (2009 estimate)

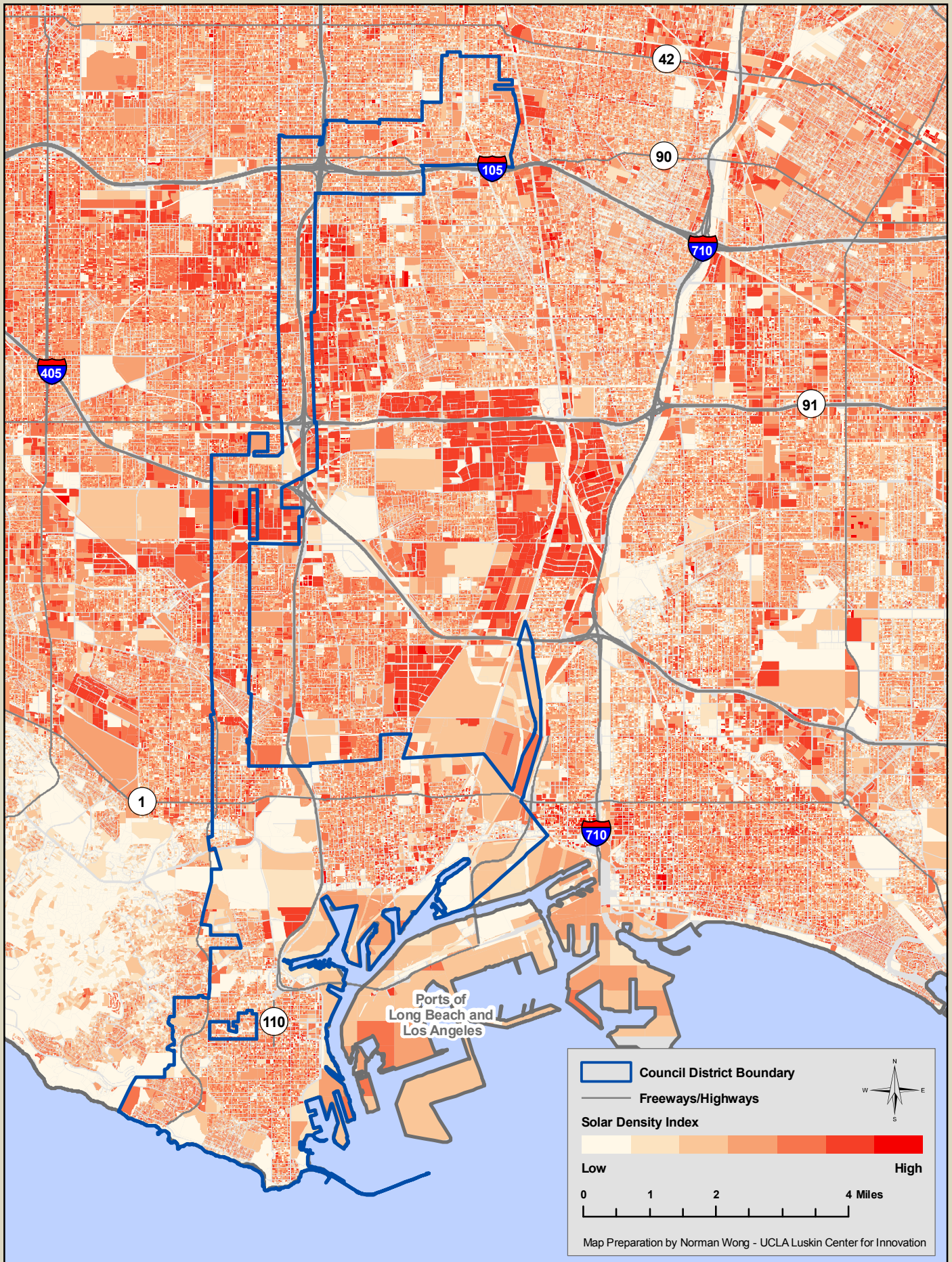
Total Potential Sites	36,476		
Commercial & Industrial	6.8%	Median Rooftop Availability	21.0%
Multi-family	23.2%	Median Potential of Parcels	4.3 Kilowatts
Single Family	69.3%	Median Solar Density Index	11.3%
Government or Non-profit	0.8%	Total Rooftop Solar Potential	412 Megawatts

**Council District 15: Megawatts of Rooftop Solar Potential by Project Size**



Rank	Potential (kW)	Address	Zip Code	Use Description
1	6,987	300 Westmont Dr	90731	Warehousing, Distribution, Storage
2	4,797	400 Westmont Dr	90731	Warehousing, Distribution, Storage
3	3,596	20333 Normandie Ave	90502	Food Processing Plants
4	3,313	401 Westmont Dr	90731	Warehousing, Distribution, Storage
5	2,095	301 Westmont Dr	90731	Warehousing, Distribution, Storage
6	2,020	1660 W Anaheim St	90744	Mineral Processing
7	1,943	19500 S Vermont Ave	90502	Light Manufacturing
8	1,940	1000 Francisco St	90502	Heavy Manufacturing
9	1,916	909 E Colon St	90744	Warehousing, Distribution, Storage
10	1,808	1331 Torrance Blvd	90501	Warehousing, Distribution, Storage
11	1,789	1540 Francisco St	90501	Warehousing, Distribution, Storage
12	1,586	1580 Francisco St	90501	Warehousing, Distribution, Storage
13	1,520	760 Lomita Blvd	90710	Mobile Home Parks
14	1,493	1949 N Gaffey St	90731	Warehousing, Distribution, Storage
15	1,396	19301 Pacific Gateway Dr	90502	Warehousing, Distribution, Storage
16	1,362	970 Francisco St	90015	Warehousing, Distribution, Storage
17	1,345	19681 Pacific Gateway Dr	90502	Warehousing, Distribution, Storage
18	1,345	920 E Pacific Coast Hwy	90744	Heavy Manufacturing
19	1,327	20000 S Western Ave	90501	Heavy Manufacturing
20	1,310	747 W Redondo Beach Blvd	90247	Light Manufacturing

## Rooftop Solar Potential of Los Angeles City Council District 15



# Luskin Center

FOR INNOVATION

## INITIATIVES



### CLIMATE CHANGE

The Luskin Center's Climate Change Initiative is designed to strengthen local governments' capacity to reduce emissions and adapt to climate change.

### GREEN CHEMISTRY

The Luskin Center's Green Chemistry initiative is advancing health and environmental protections in the field of engineered nanomaterials (ENMs). Luskin Center researchers in collaboration with academic partners and state and federal agencies are advancing health and environmental protections in the booming field of nanotechnology.

### SMART WATER SYSTEMS

The Luskin Center's Smart Water Systems initiative seeks to inform solutions for more sustainable and smart water systems. This initiative explores options for addressing Southern California's severe drought by tapping into unused or underutilized water sources.

### CLEAN TECHNOLOGY

Through strategic research and communication, the Luskin Center is supporting Mayor Villaraigosa's Office and other members of the Clean Tech LA collaborative in the goal to make the city of Los Angeles a center for the clean technology industry.

### SUSTAINABLE ENERGY

Researchers analyze and recommend strategies to effectively advance renewable energy and energy efficiency in California. The Luskin Center's Sustainable Energy initiative analyzes and recommends strategies to effectively advance renewable energy and energy efficiency in California.

[www.luskin.ucla.edu](http://www.luskin.ucla.edu)





The Los Angeles County Chief Information Office provided the data used to create this atlas. The data was compiled to support the Los Angeles County Solar Map initiative, an interactive web-based application designed to help people investigate the feasibility of rooftop solar for individual sites (see [solarmap.lacounty.gov](http://solarmap.lacounty.gov)). The Luskin Center modified this data in order to measure solar potential from a regional perspective. These adjustments allowed each tax-assessed land parcel in Los Angeles County to be evaluated for solar potential and categorized into market segments. A detailed discussion of the methodology used to accomplish this is provided in the Luskin Center report “Bringing Solar Energy to Los Angeles” (available at [luskin.ucla.edu/publications](http://luskin.ucla.edu/publications)). The “physical potential” of a rooftop is defined as the maximum solar capacity that could be achieved if solar PV arrays were installed on all available rooftop space that receives direct sunlight from 9 a.m. to 4 p.m. every day of the year. These maps represent the physical potential existing on rooftops. Parking lots, open space, infrastructure rights-of-way, and building-integrated photovoltaics (BIPV) are not shown on these maps.

Two methods were used to analyze the spatial patterns of solar potential. First, for small-scale maps that show large areas of Los Angeles County, we created the images using “heat map” analysis. This technique shows high-level patterns and concentrated “hot spots” of solar potential, but does not show individual land parcels. Second, for large-scale maps of smaller geographies, parcel maps were used to categorize each parcel. The parcels were categorized by geometric interval to facilitate a visually appealing and accurate display of the distribution of solar potential.\*

While it is possible to distinguish individual parcels on these maps, there can occasionally be differences between the measured solar potential and the actual potential of a rooftop. Users of this atlas should verify the solar potential of a specific site with other sources of information.

Adjacent to each map is a page of descriptive statistics about the geography shown on the map. The page provides basic information such as population and physical area. It also contains a breakdown of the land parcels in the jurisdiction based on market segment. Rooftop Availability is the ratio of the area available for solar to the rooftop area. Median Potential of Parcels is the median size of the potential projects based on the assumptions in Appendix 1 of “Bringing Solar Energy to Los Angeles.”\*\*

Median Solar Density Index describes the ratio of area available for solar to the area of the land parcel. This measure incorporates land use patterns and suitable area for solar to show the “density” of solar potential in Los Angeles. Total Rooftop Solar Potential is the sum of the potential for all parcels within the geographic boundary. The chart shows how the potential projects are distributed by size, while the table shows the 20 largest potential projects based on capacity in kilowatts.

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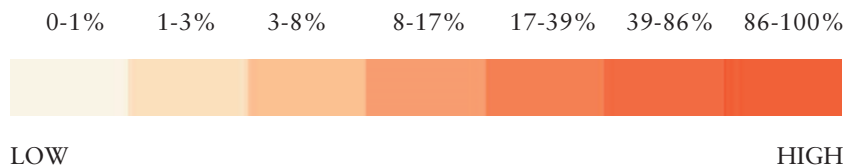
\* [http://webhelp.esri.com/arcgisdesktop/9.2/index.cfm?TopicName=Geometrical\\_interval](http://webhelp.esri.com/arcgisdesktop/9.2/index.cfm?TopicName=Geometrical_interval)

\*\* Assuming 100 square feet per kilowatt of solar capacity.

## APPENDIX



The color gradients in the legend of each map represent the solar density index. The parcels were categorized according to the ratio of square feet available for solar to the square feet of the land parcel. The colors suggest a continuous distribution of the density of parcels corresponding to these ratio values. Land use patterns, building profiles, development history, and numerous other factors influence the solar density of each area. Areas with commercial and industrial uses typically stand out as being denser, while single-family residential uses, high-rise commercial uses, and older developments with mature vegetation tend to be less dense according to this measure.



The maps in this atlas are intended to describe the physical distribution of the solar potential as a function of land use. These maps should not be used as a primary source of information for a single rooftop without validating the results against several other sources of information.

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**"Sustaining  
the environment  
is the greatest  
inheritance one can  
leave to children,  
and the most  
enduring gift to  
community and nation."**

**– Meyer Luskin**

**UCLA** School of Public Affairs  
Luskin Center for Innovation

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