

# Climate Change in Los Angeles

Addressing our Era's Extraordinary  
Challenge  
+ Opportunity for a Better Quality of  
Life



Los Angeles  
Department of  
Water & Power



Climate  
Resolve





# LA's Cool Roof Ordinance

#KeepLACool

Climate Resolve won the policy to ensure that every new and refurbished rooftop in the City of Los Angeles is a cool roof.



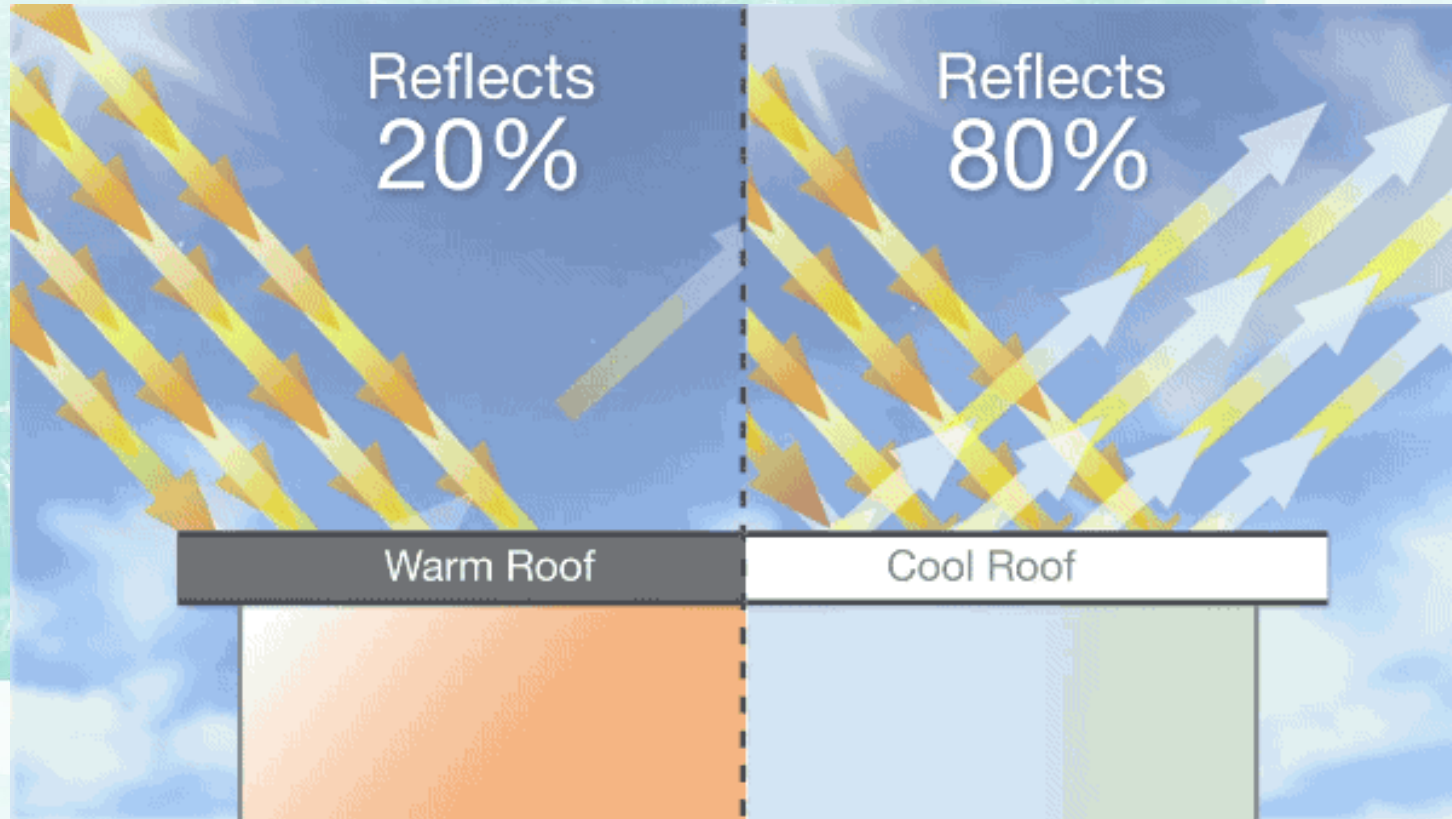
# LA's Cool Roof Ordinance

LACo  
ol

- Cool roof coating in various colors (not just white!)
- Roof shingles
- Flat roofs



# Why Cool Roofs?

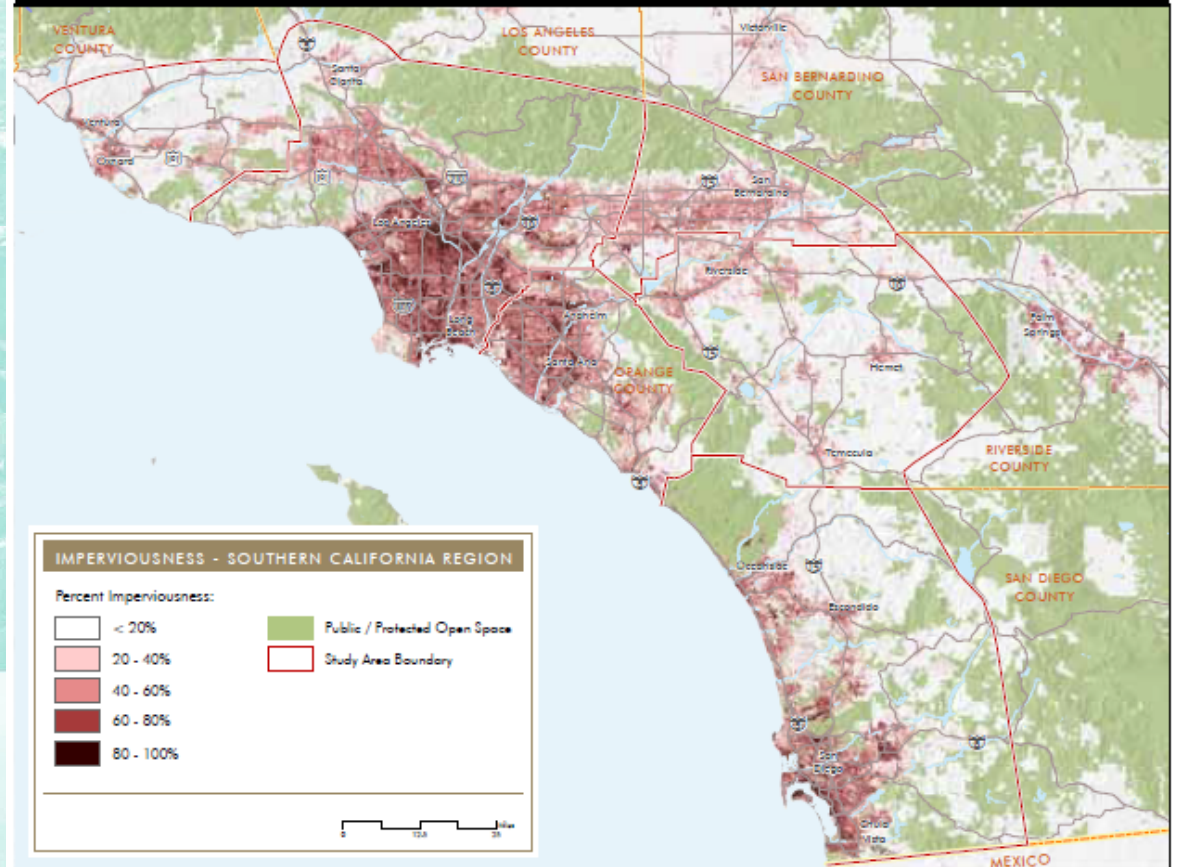




# LA is Ripe for Cool Roofs

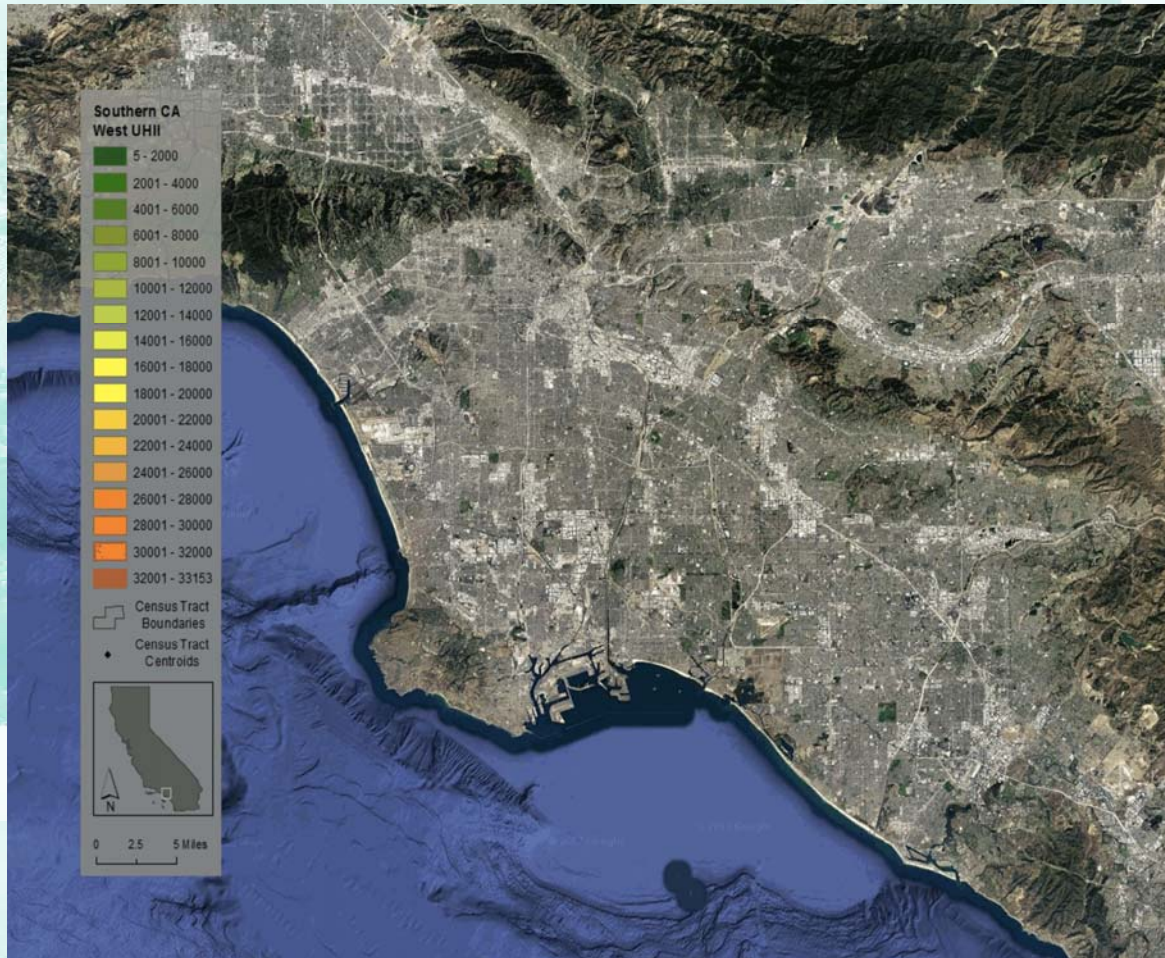
- **Significant potential:** 20% of LA surface area is roof & 40% is asphalt
- Big urban heat island
- Hot summers, mild winters
- Poor air quality

**Figure 1: Map of impervious surface cover in Southern California**



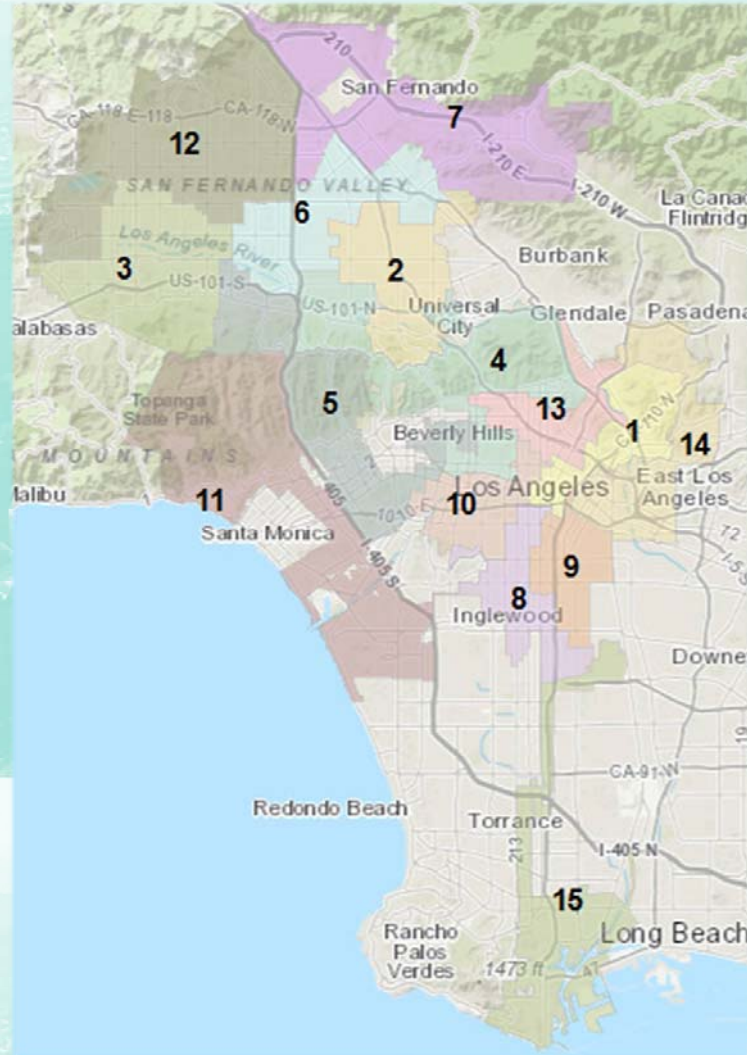
Source: NRDC "Clear Blue Future," 2009.

# Heat Archipelago



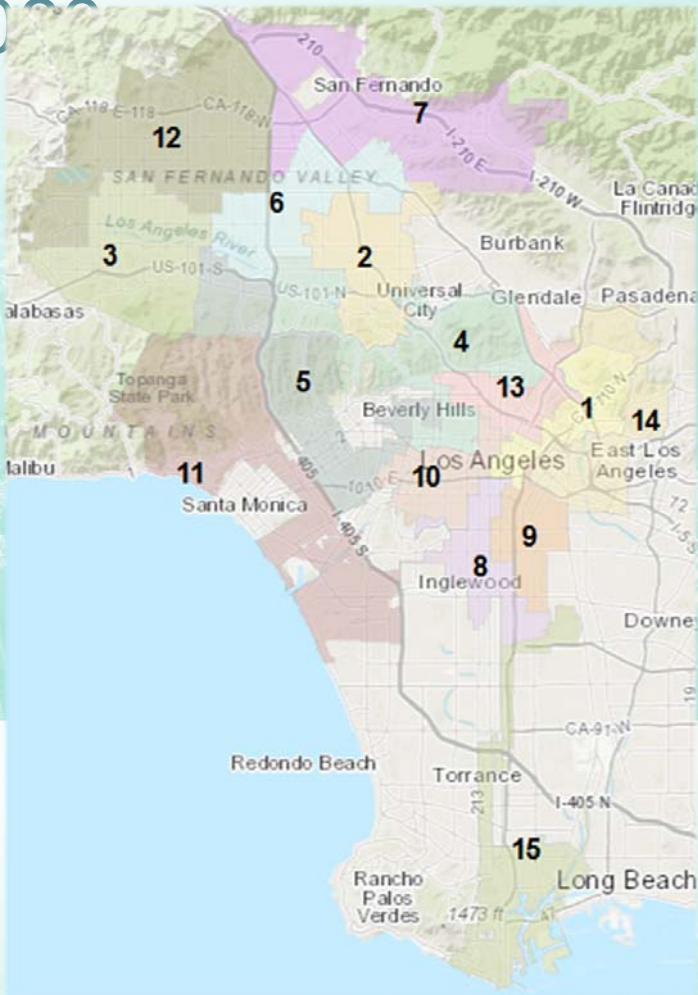


# LA Temperature, 2041-2060





# LA Temperature, 2041-2060



## Council District 5 Extreme

### Heat Days



## Council District 5

- Bel Air-Beverly Crest
- Encino
- Greater Wilshire
- Mar Vista
- Midcity West
- Palms
- P.I.C.O
- South Robertson
- Westside
- Westwood



# Average Increase in LA Temperature, 2041-2060

- **Coastal areas:** 3 - 4°F
- **San Fernando & San Gabriel Valleys:** 4 - 4.5°F
- **Mountains and Deserts:** 4.5 - 5.5°F





# Heat and Health

- Heat is the leading weather-related cause of death and illness
- Infants, elderly, and the poor are most at risk
- Hard to adjust to heat





# Extreme heat will also affect...

- Air quality
- Food supply
- Energy demand and supply too
- Wildfires
- Roads and rails
- Property values
- Water evaporation: vegetation, habitat, water supply





# Water Supply in LA







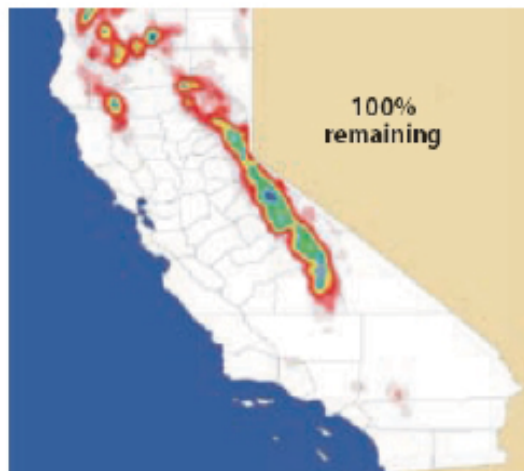




# Decreasing California Snowpack

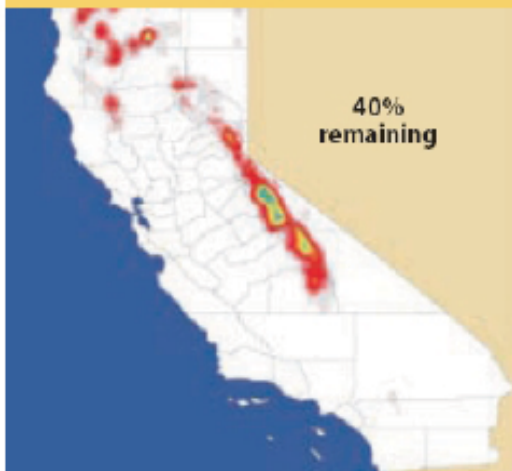
*Snow pack acts as a natural reservoir for summer and fall water supply.  
Its capacity is projected to decrease significantly in a warmer climate.*

Historical Average (1961–1990)



2070–2099

Lower Warming Range  
Drier Climate



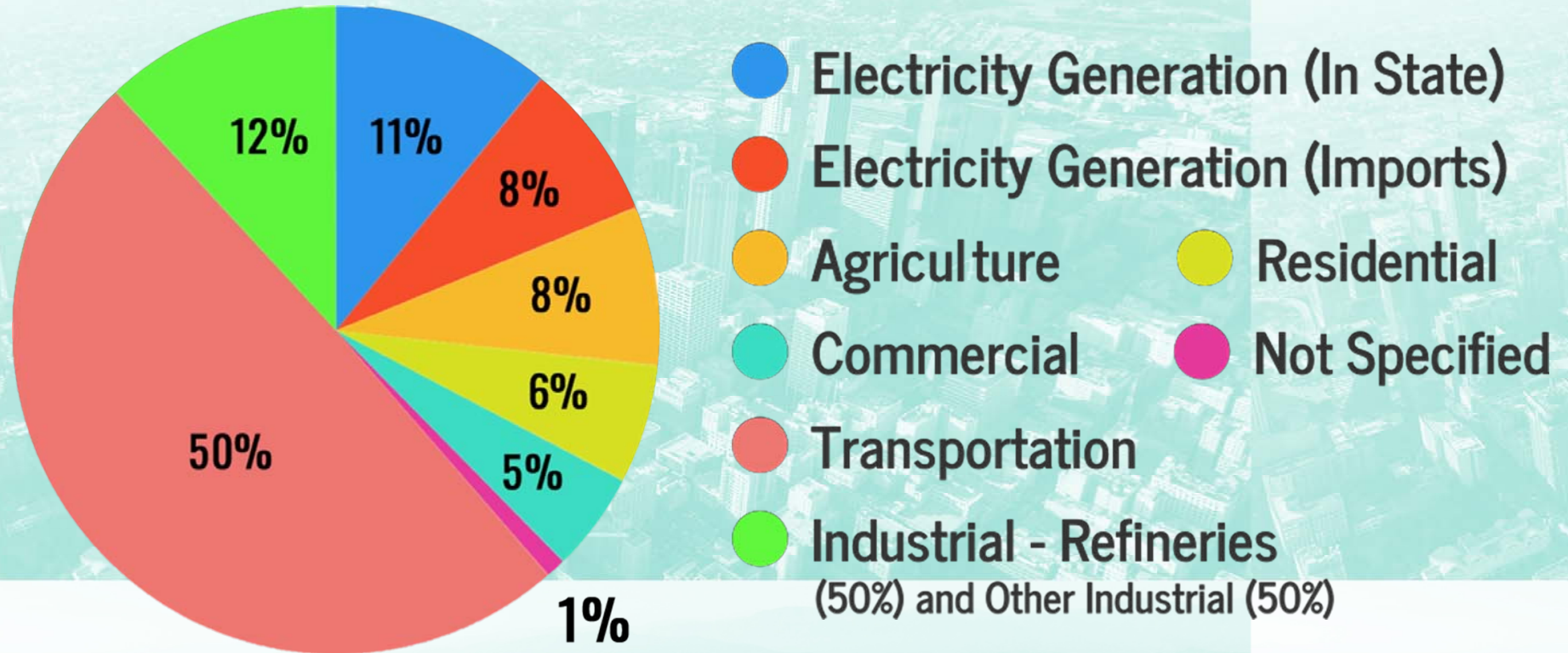
Medium Warming Range  
Drier Climate



April 1 snow water equivalent (Inches)



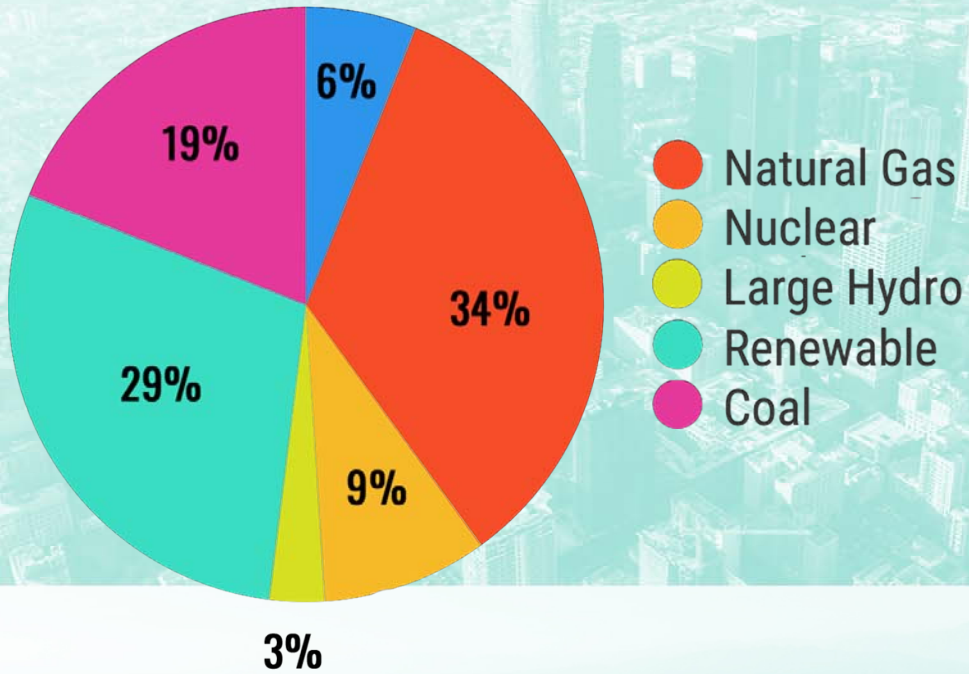
# California GHG Emissions



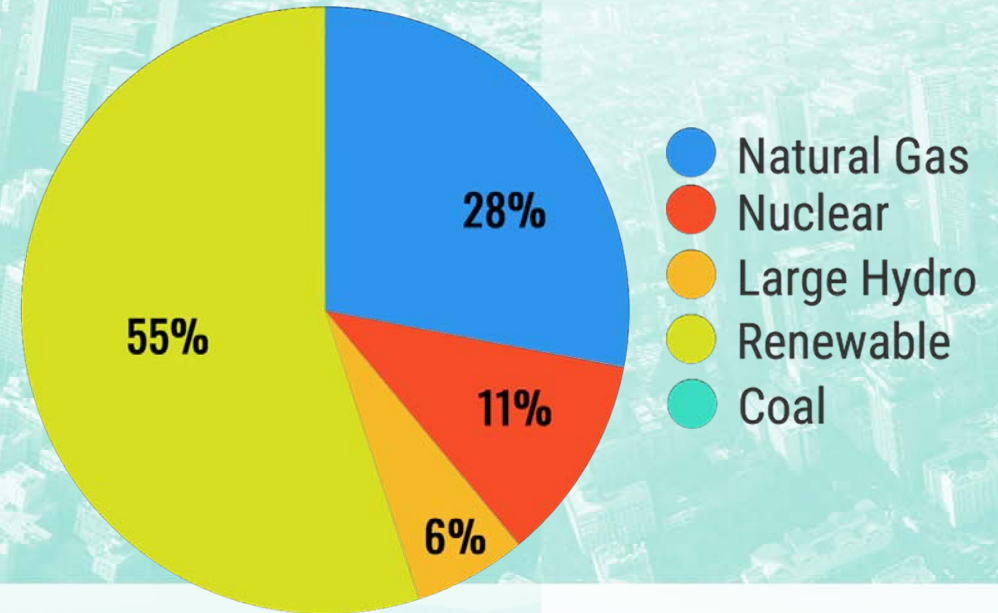
\*Source: California Air Resources Board GHG Emissions Inventory, 2015

# LADWP's Energy Mix

2016 (Preliminary and Unaudited)



2030



**\*Note: Includes 15% Energy Efficiency by 2020 in the overall mix of resources**



Now here are the solutions...





# LA is Becoming a National Leader (Please take your phones out...)

## Sustainability City pLAN

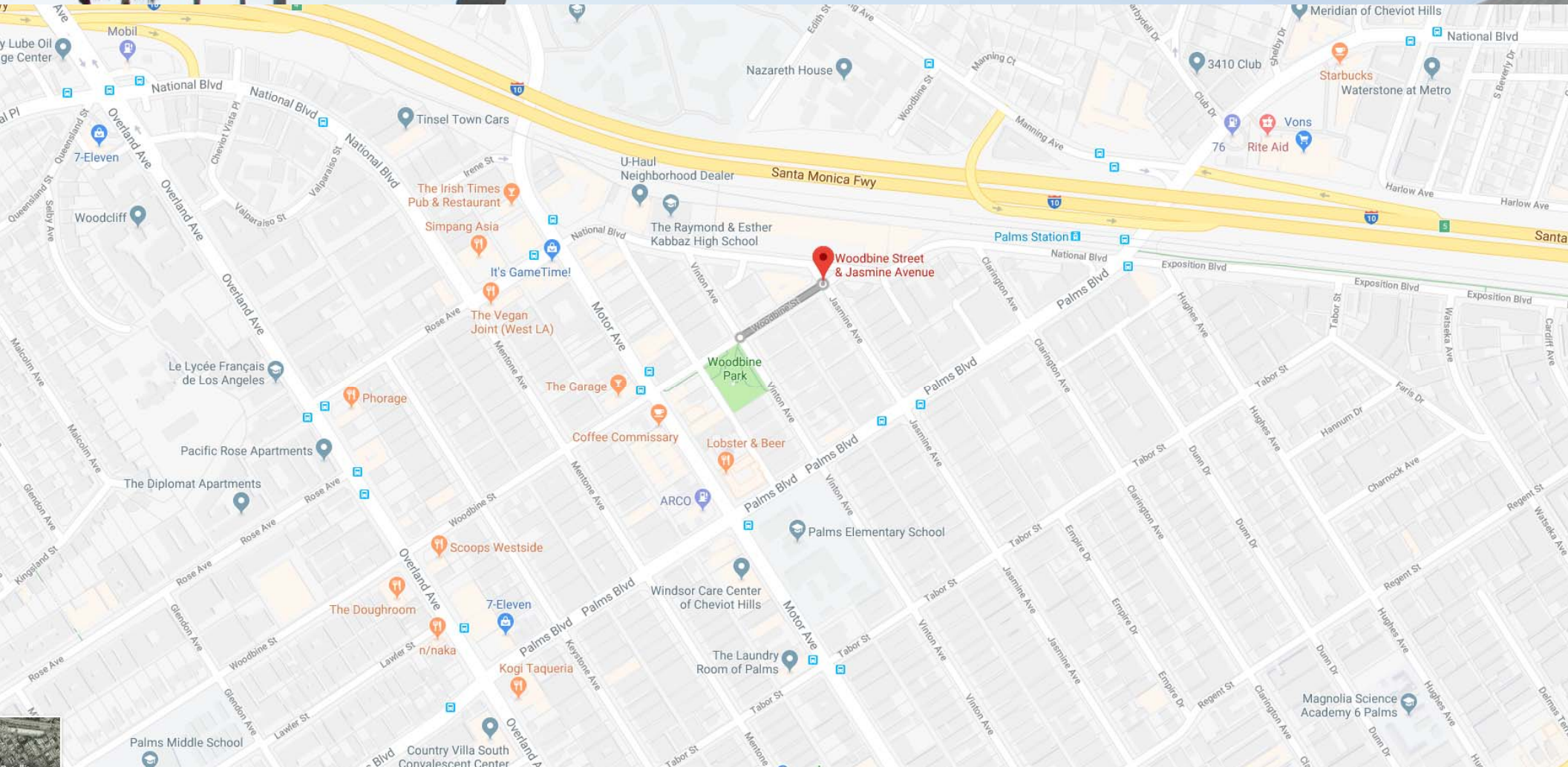
- Local solar in LA has grown 25% over the past year
- State is on track to reaching goal of 50% renewables by 2030 and likely happening sooner than planned
- LADWP has already reduced GHG emissions by 40% below 1990 levels (13 years ahead of schedule!)
- Recycled water production expanded to 12 million gallons per day – enough to supply 67,000 residents per day



Mayor Eric Garcetti at Climate Day LA



# Cool Streets



Here's one thing you can  
do...

Sign up to adopt the plan:  
[plan.lamayor.org](http://plan.lamayor.org)





# LADWP Rebate Programs

climateresolve.org/rebates

**bewaterwise.com**

HOME WAYS TO SAVE HOME & GARDEN BUSINESS TOOLKIT CLASSES REBATES H2LOVE VIDEOS

“H2O, THE KIDS OF SOCAL”

LATEST NEWS

11.2 Metropolitan's 16th Annual Solar Cup™ Launches. Read press release.

Los Angeles Department of Water & Power

## Home Energy Improvement Program

Los Angeles Department of Water & Power

## Efficient Product Marketplace Program

**CITY PLANTS**

HOME ABOUT US GET FREE TREES TREE CARE EVENTS

Are you not sure about whether or not you live in the City of LA? Type in your address here to find out

If your address yields information with the council district number, then you are a resident. If your address is not found, you do not reside in the City proper. Angeles\* it is possible that you live in an unincorporated area of LA County, meaning that your neighborhood is not a part of an official city.

Los Angeles Department of Water & Power

## Hot Rebates, Cool Savings- Consumer Rebate Program

Grid of images: air conditioning unit, house exterior, people reading documents, family in a pool, solar panels, and a water-saving device.

Los Angeles Department of Water & Power

1-800-DIAL DWP (1-800-342-5397) Contact Us

My Account Customer Service Save Money Go Green Financial Assistance

LADWP > Residential > Go Green > Solar Incentive Program > How to Apply

### Go Green

**How to Apply**

We have streamlined the process into five steps, and separated the solar meter installation and interconnection from the Solar Incentive Program (SIP) rebate process. View the steps below and get started!

See our [Separated and Streamlined Solar Incentive Process Flow Chart](#) for a quick overview of the solar rebate and meter installation processes.

- Step 1: Initiate the Meter Installation Process
- Step 2: Begin the SIP Rebate Application
- Step 3: Install your Solar Photovoltaic (PV) System
- Step 4: Connect and Energize Your Solar System
- Step 5: Get Your Solar Incentive Check

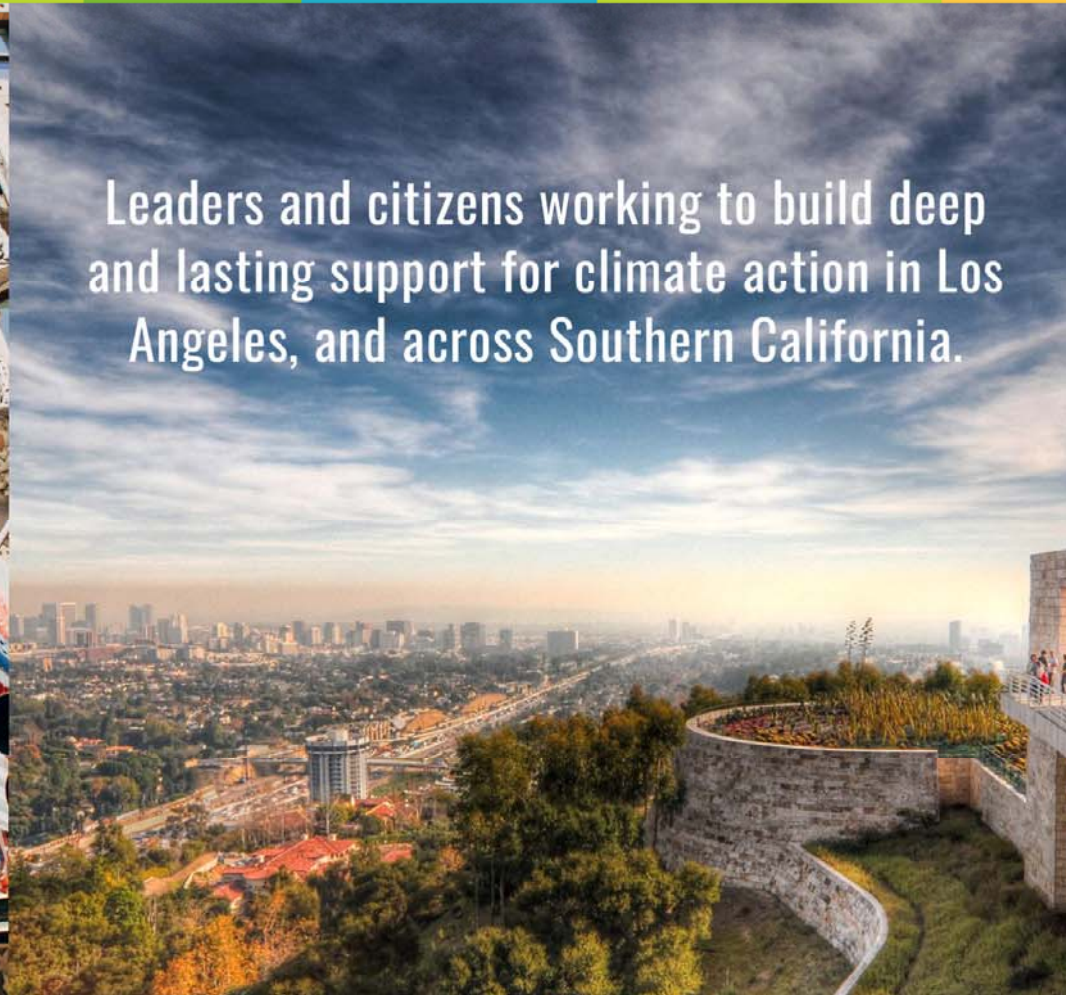
If you applied to PowerClerk before December 4, 2015, go to [Additional Information for Existing Applicants](#) to learn how the new meter installation and interconnection process change will affect you.

Conserve Water & Energy  
Green Building Initiatives  
State and City Plumbing Codes  
Buy Energy Efficient Products  
**Solar Incentive Program**  
News & Updates About the Program  
How to Apply  
Request a Solar Meter  
Program Documents  
Solar Energy Calculator  
Contact Us  
Solar Rooftops





Leaders and citizens working to build deep and lasting support for climate action in Los Angeles, and across Southern California.





Connect with other climate leaders:



*Path to Positive*<sup>™</sup>  
*Los Angeles*

[pathtopositive.la/join](https://pathtopositive.la/join)





Climate  
Resolve

climateresolve.  
org

THANK YOU!

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Los Angeles  
Department of  
Water & Power

