



# Our County

## Energy and Climate: An 'Our County' Workshop

July 31, 2018

# Stakeholder Process and Today's Agenda

# Stakeholder Engagement Equity Statement



## Equity

### Goal

Reduce disparities across geographies due to race, class, gender, and other social differences

### Strategy

Commit resources to include those often left out of policy and planning discussions

### Indicators

<b>Distributional</b>	Actions that repair current and historical imbalances
<b>Procedural</b>	Participatory decisionmaking with vulnerable communities
<b>Transformational</b>	Strategies securing future benefits for at-risk populations

# Stakeholder Engagement Plan



# Stakeholder Engagement Timeline



# Today's Team Leaders



## Stakeholder Engagement

- UCLA: Laurel Hunt & Ari Simon
- Liberty Hill: Michele Prichard & Ben Russak
- Estolano LeSar Advisors: Cynthia Guzman & Richard French

## Data & Analysis and Topic Teams

- UCLA: Sean Kennedy & Stephanie Pincetl
- BuroHappold: Julian Parsley, Heidi Creighton & Gideon Susman

# Today's Agenda



## 9:10 **Welcome**

- Welcome (Laurel Hunt, UCLA)
- Introduction to Our County (Kristen Torres Pawling, LA County CSO)
- Private Sector Opportunities (Felicia Williams, Senior VP of Kosmont Companies and City of Pasadena Planning Commissioner)
- Energy & Climate Overview (Sean Kennedy, UCLA)
- Nonprofit Workshop Summary (Michele Prichard, Liberty Hill Foundation)

## 9:45 **Breakout #1: Goals**

## 10:30 **Break**

## 10:55 **Breakout #2: Strategies**

## 11:55 **Breakout #3: Cross-sector Collaboration**

## 12:15 **Closing Remarks**

- (Gary Gero, Chief Sustainability Officer of Los Angeles County)

## 12:30 **Survey and Adjournment**

# The Team



# Consultant Team



Topic and data collection and analysis leadership and stakeholder engagement co-leadership



Stakeholder engagement  
co-leadership



Topic expert: open space



Topic expert: housing,  
economy & workforce development



Topic expert:  
health and wellbeing



Topic expert:  
transportation



Topic expert:  
air quality



Advisors

# Los Angeles County Chief Sustainability Office

A wide-angle landscape photograph showing a green field in the foreground, a solar farm in the middle ground, a wind farm in the distance, and a range of mountains under a clear blue sky.

The Chief Sustainability Office provides comprehensive and coordinated policy support and guidance for the Board of Supervisors, County departments, the unincorporated areas, and the region to make our communities healthier, more liveable, economically stronger, more equitable, more resilient, and more sustainable.

# The Plan

# The County's Aims



The plan should be:

- Aspirational, Comprehensive, Long-Term, Regional, Actionable

The task:

- Develop a comprehensive framework for County and City sustainability initiatives
- Serve as template for local cities when preparing sustainability/climate action plans
- Prepare the region to be competitive for funding

# The County's Sphere of Influence



# Countywide Sustainability Plan Framework

- Water
- Energy
- Climate
- Air Quality
- Land Use and Transportation
- Open Space, Recreation and Habitat/Biodiversity
- Resource Recovery and Waste Management
- Public Health and Well-Being
- Economy and Workforce Development
- Housing



**Equity &  
Resilience  
woven  
throughout**

# Organizing Principles



**Nurturing Healthy Communities**



**Cultivating a Just Economy**



**Fostering a Healthy Relationship with the Environment**



**Making It Happen**

# Key Terms

## Vision

A core value or values at the heart of the plan – the “why”

## Goals

Broad, aspirational statement of what we want to achieve

## Strategies

Approach or approaches that we take to achieve a goal (strategies may support multiple goals)

## Actions

Specific policy, program, or tool we take to achieve a strategy

*PERFORMANCE MONITORING*

## Indicators

Quantitative measures used to assess performance on a regular basis

## Targets

Levels of performance that are sustainable



# Key Terms

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# Today's Focus

# Felicia Williams,

Senior VP of Kosmont Companies and City  
of Pasadena Planning Commissioner

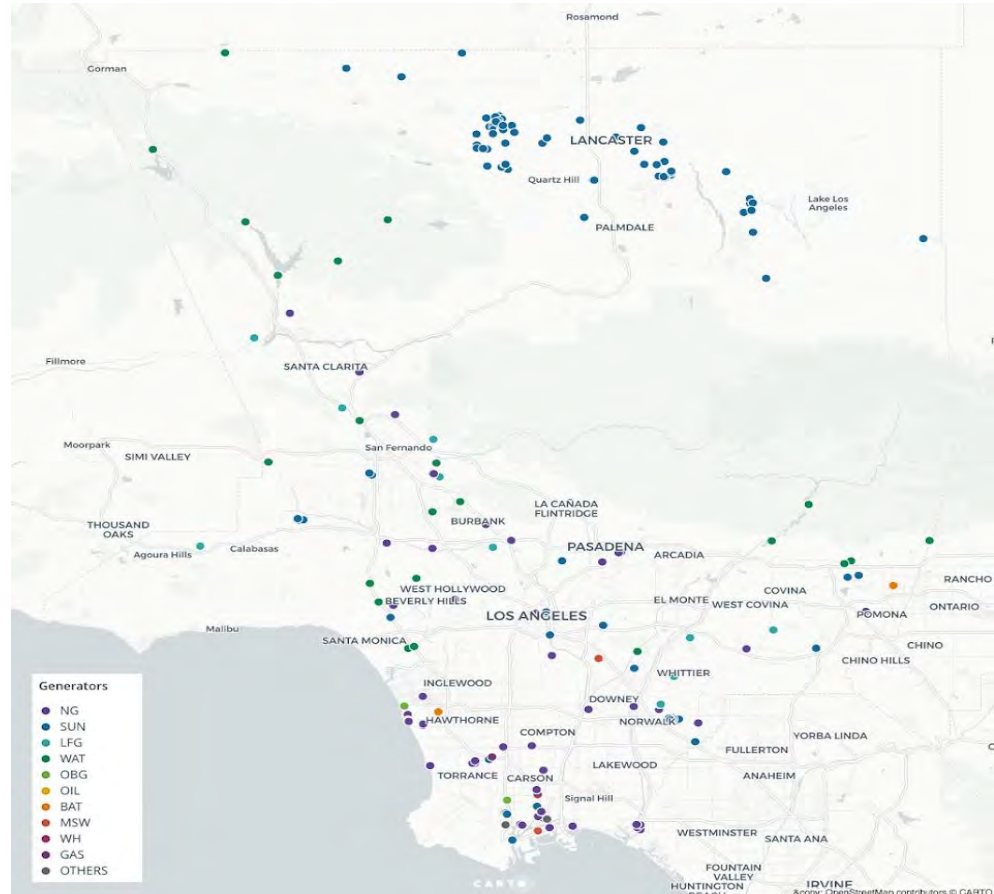
# LA County Energy & Climate Overview



Our County

# How and where we get our energy

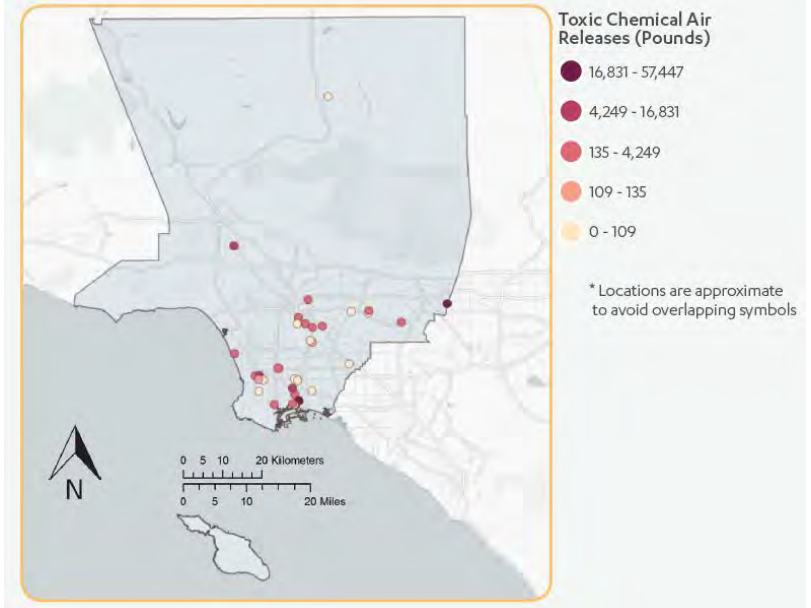
- Energy generation is distributed throughout Los Angeles County, with concentrations in Long Beach and Lancaster
- However, electricity is largely imported from outside L.A. County and a significant proportion of the energy consumed in the County comes from outside the State.



# Energy production

- L.A. County is the second largest oil producing county in California after Kern County.
  - There are currently 68 active oil fields in the Los Angeles Basin, and thousands of active and inactive oil and gas wells countywide.
- L.A. County is home of the two largest refineries in California (the Chevron Refinery in El Segundo and the Tesoro Refinery in Carson), as well as others (e.g., Torrance Refinery).

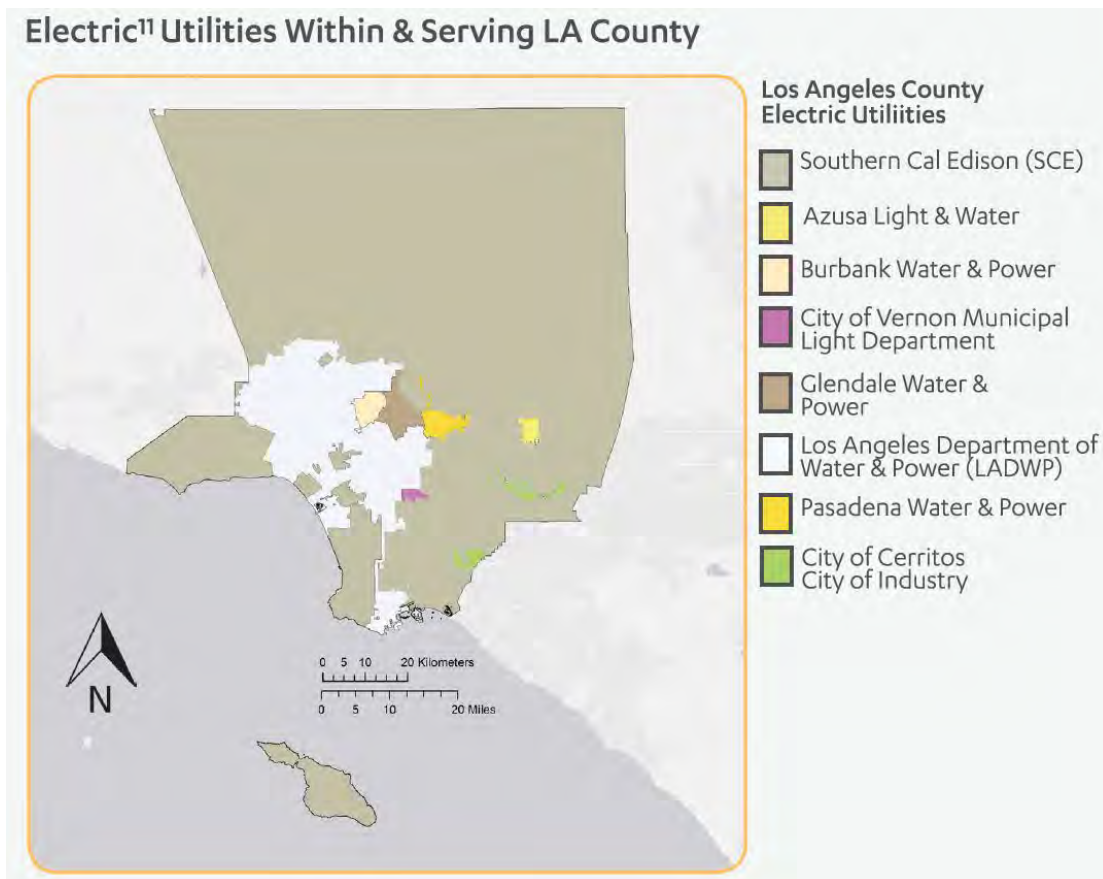
Top Three TRI Emitters for Listed Toxic Chemicals in LA County (2015)\*



Federico, F., Rauser, C., & Gold, M. (2017). 2017 Sustainable LA Environmental Report Card for Los Angeles County: Energy & Air Quality

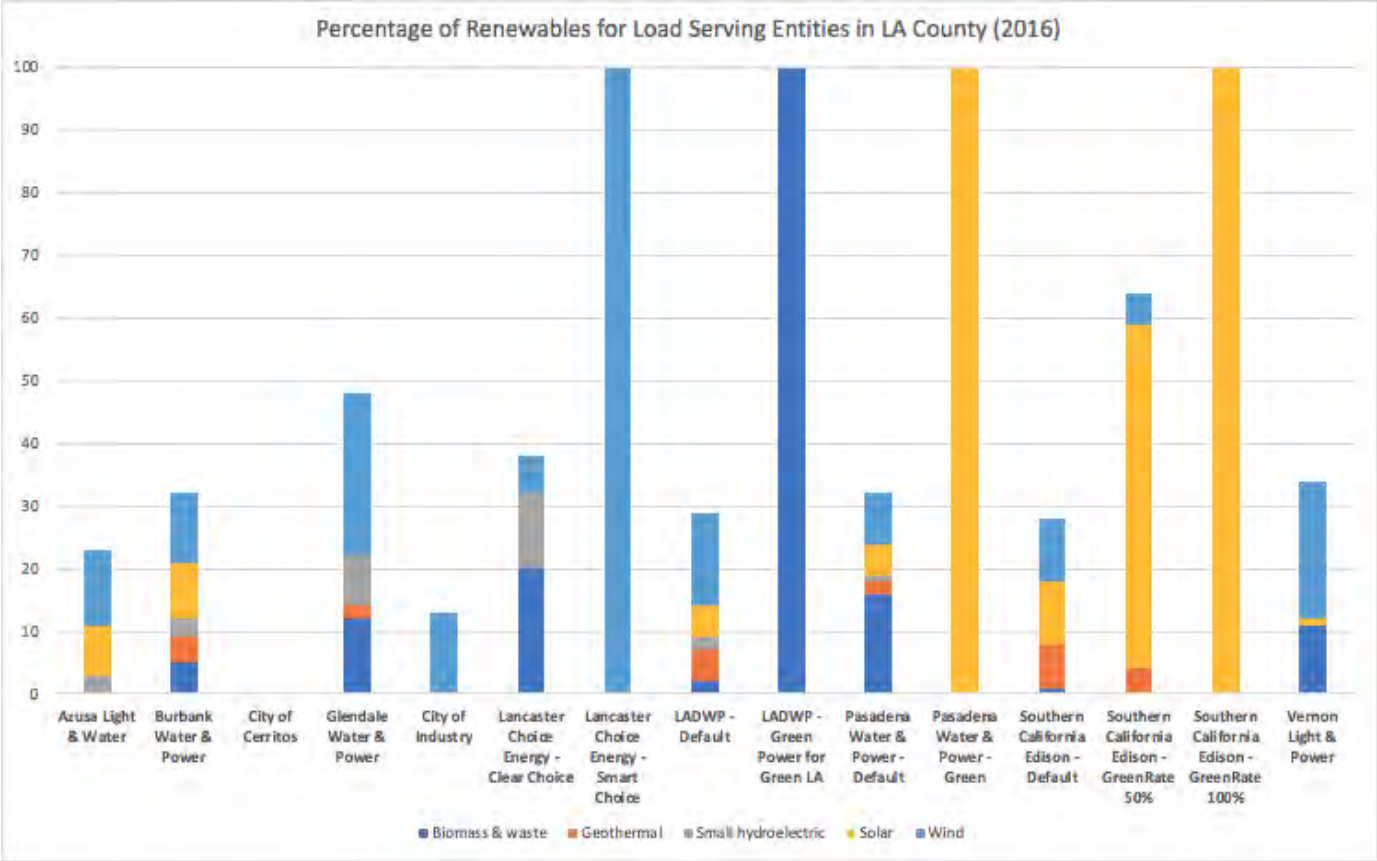
# How and where we get our energy

## Electric<sup>11</sup> Utilities Within & Serving LA County



Federico, F., Rauser, C., & Gold, M. (2017). 2017 Sustainable LA Environmental Report Card for Los Angeles County: Energy & Air Quality

# LA County Renewable Energy Sources

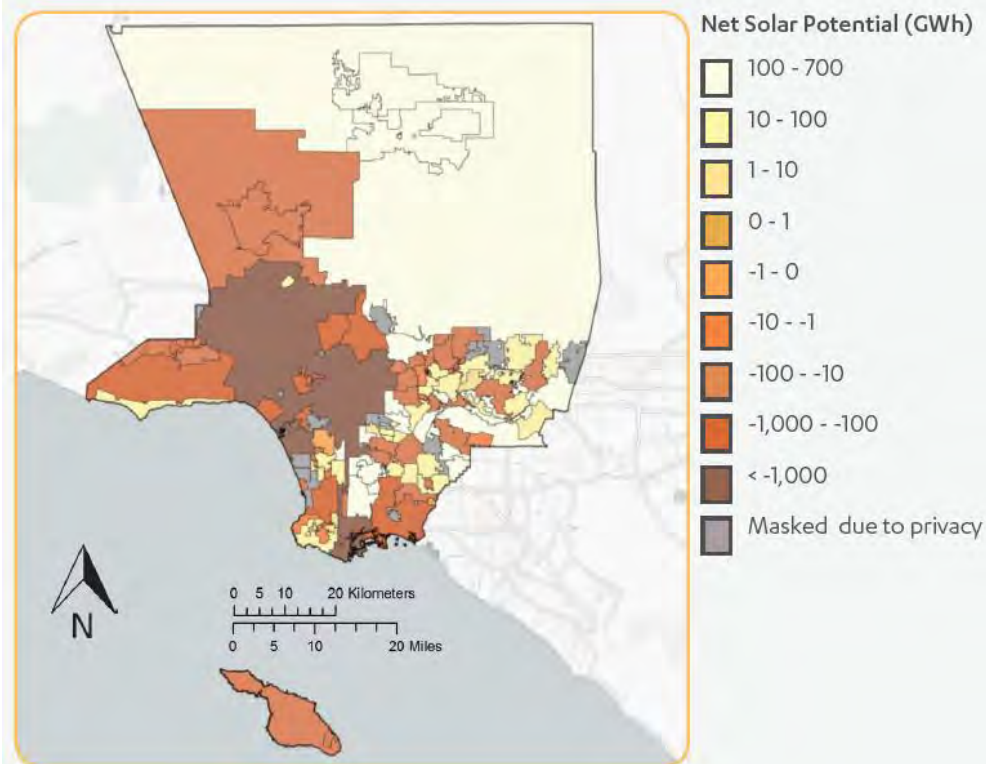


# Renewable energy generation within LA County



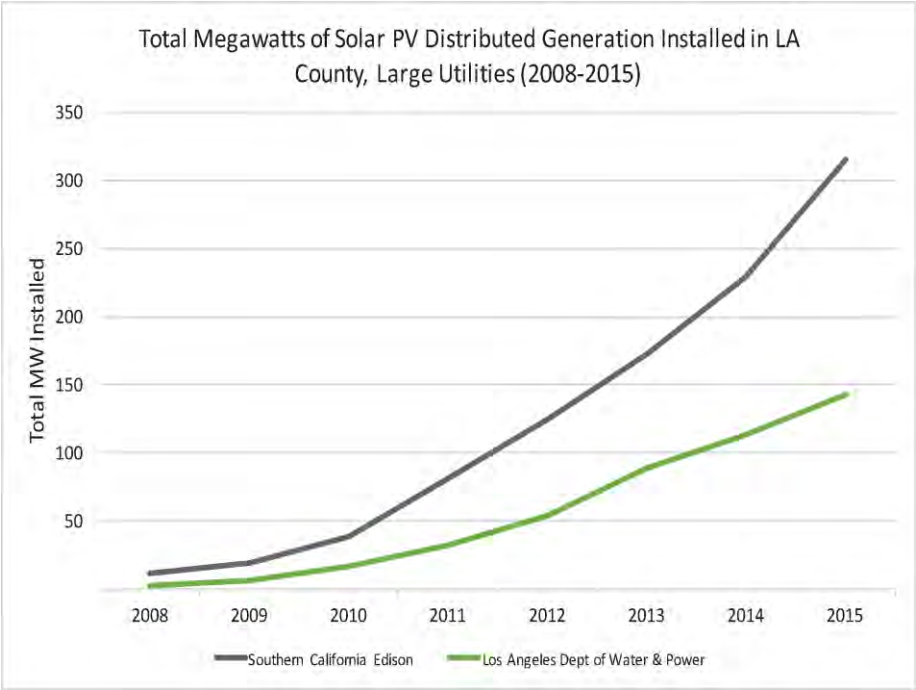
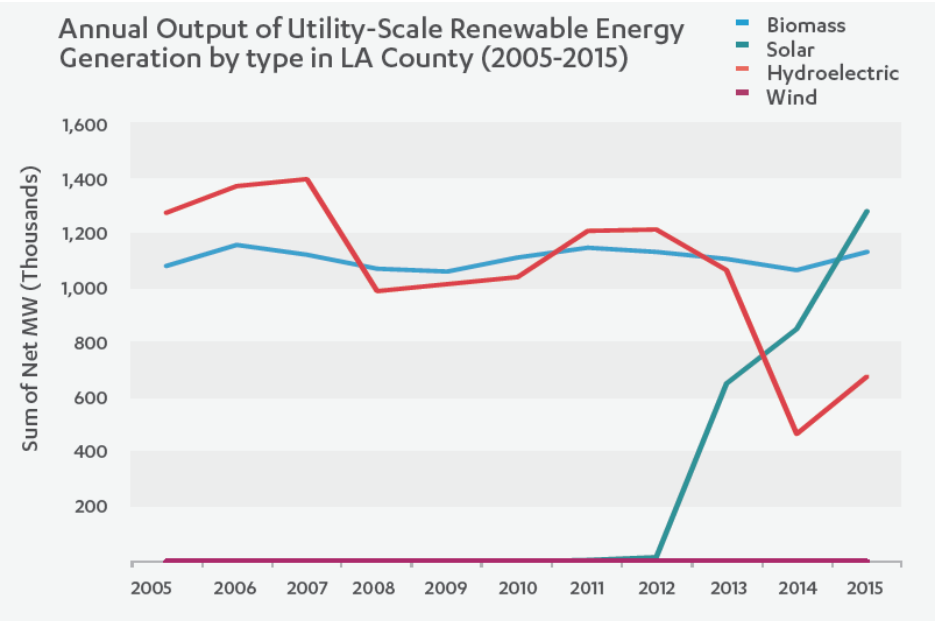
- L.A. County is a leader in solar generation
- Utility-scale solar generation increased by over one million Megawatt Hours (MWh) between 2012 and 2015 and reached over 575 MW of capacity in 2015

Net Solar Potential (GWh) by City in LA County (2010)



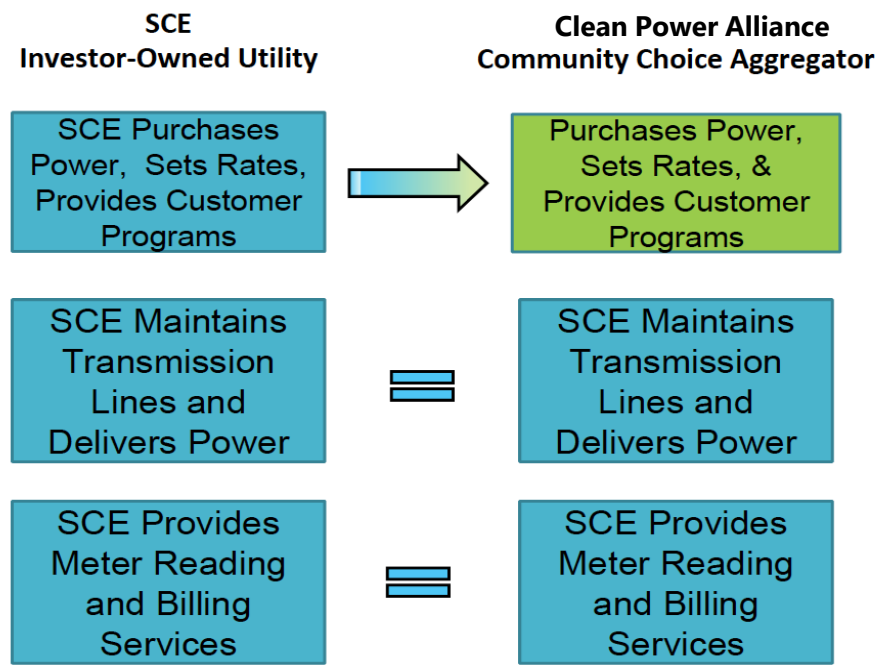


# Renewable energy generation within LA County

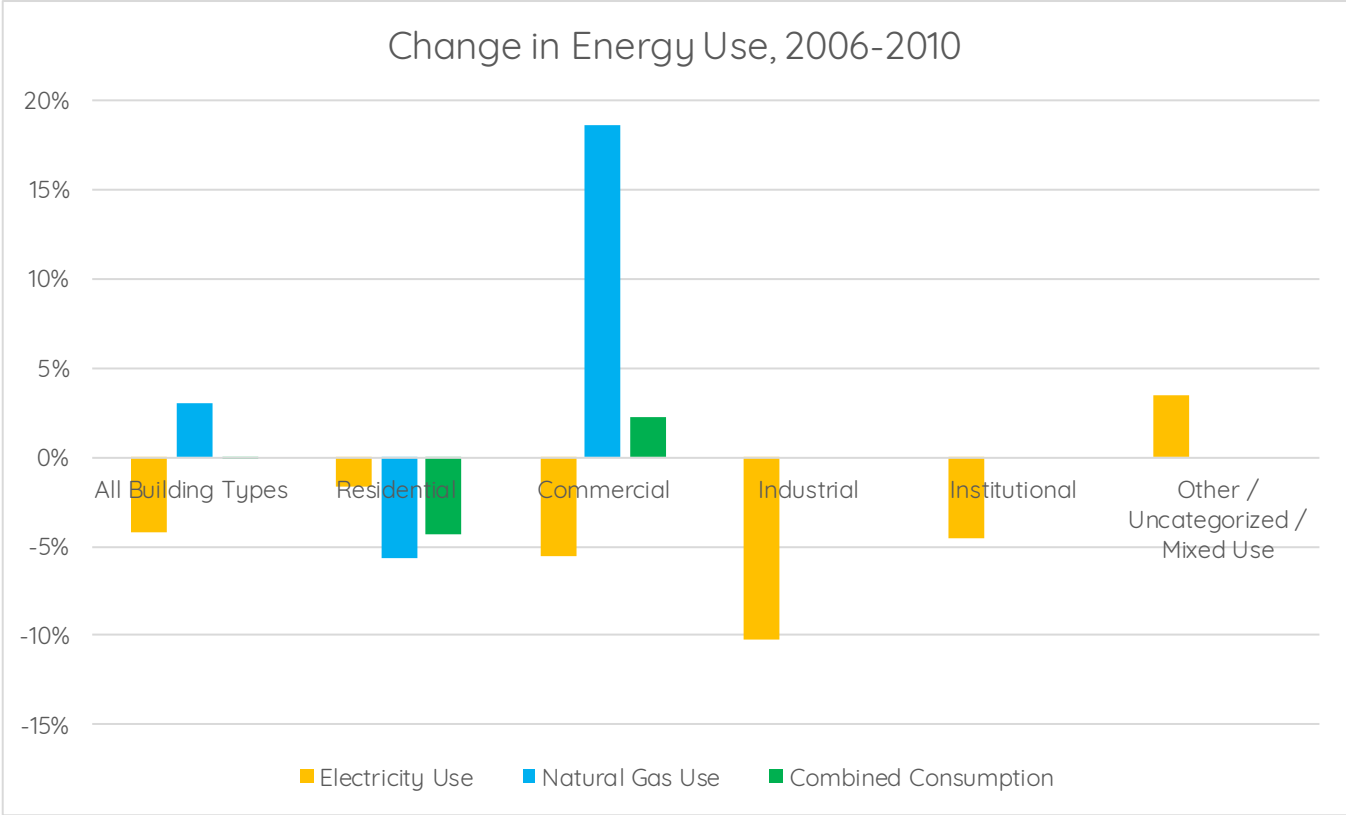


Federico, F., Rauser, C., & Gold, M. (2017). 2017 Sustainable LA Environmental Report Card for Los Angeles County: Energy & Air Quality

# Community Choice Aggregation (CCA): A Hybrid Approach to Utility Operations



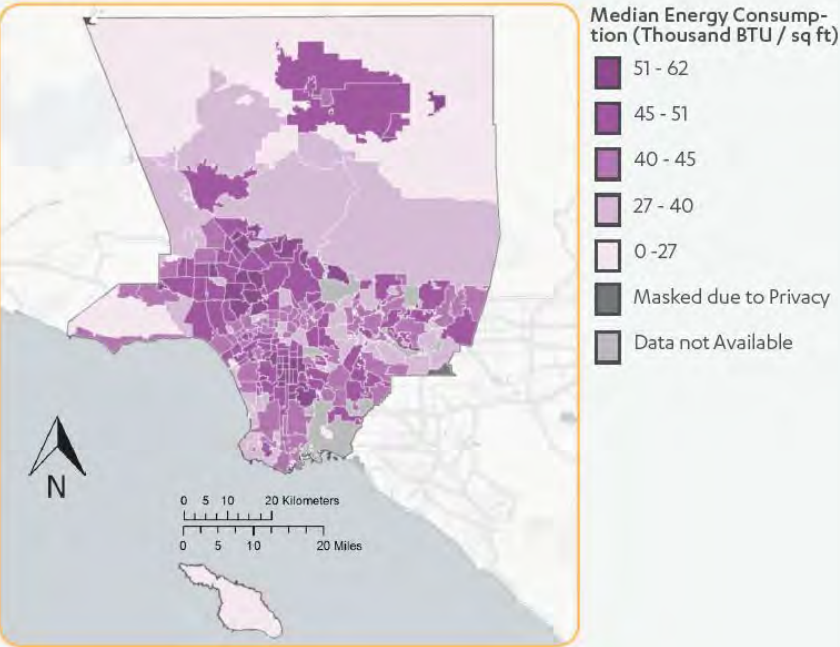
# Building energy use



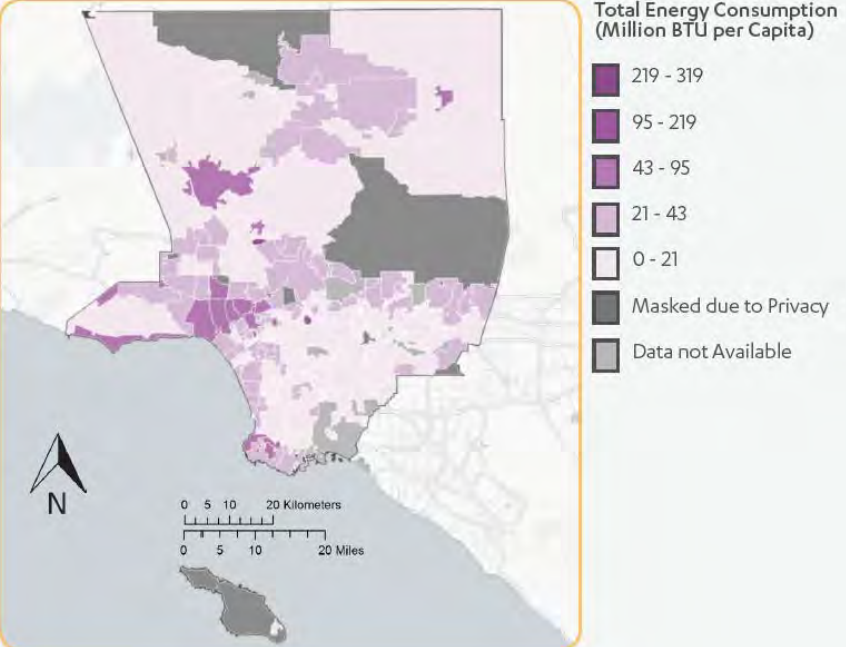
UCLA Energy Atlas

# Building energy use

Median Residential Building Energy Consumption by Neighborhood (Electricity and Natural Gas; thousand BTUs) per square foot in LA County, 2010.

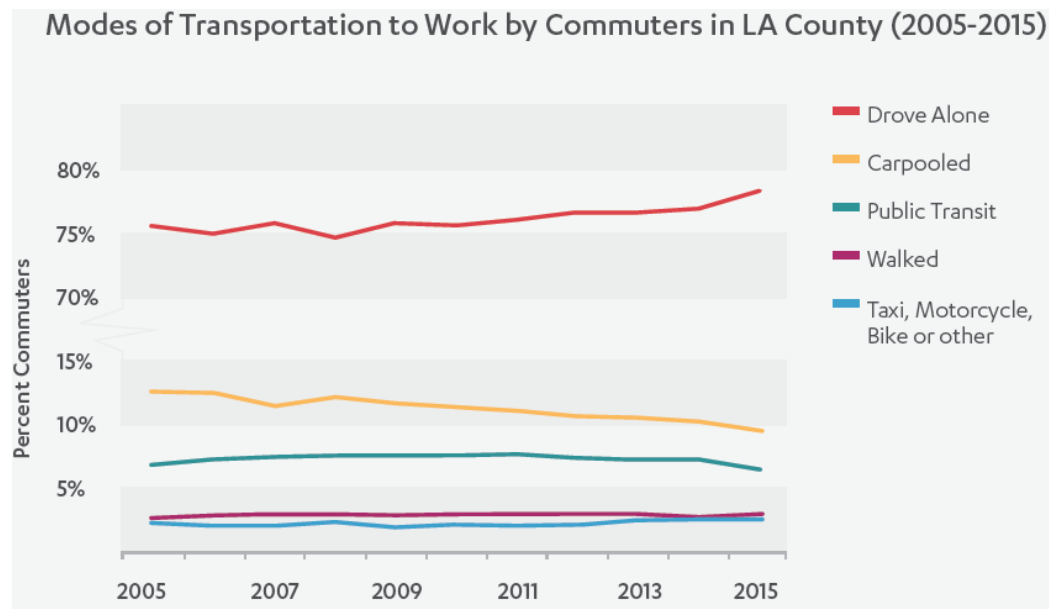


Total Residential Building Energy Consumption by Neighborhood (Electricity and Natural Gas; million BTUs) per capita in LA County, 2010



# Transportation energy use

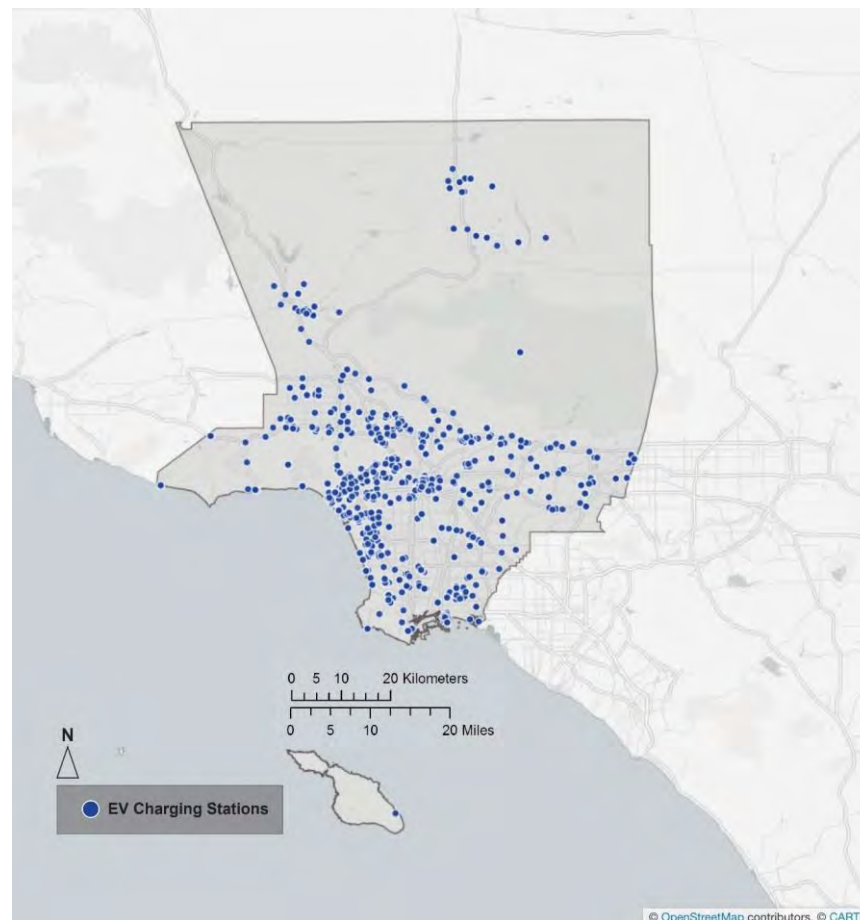
- On-road transportation accounted for **33.5%** of L.A. County's GHG emissions in 2010
- Transportation a major contributor to poor air quality across the Los Angeles basin



Federico, F., Rauser, C., & Gold, M. (2017). 2017 Sustainable LA Environmental Report Card for Los Angeles County: Energy & Air Quality

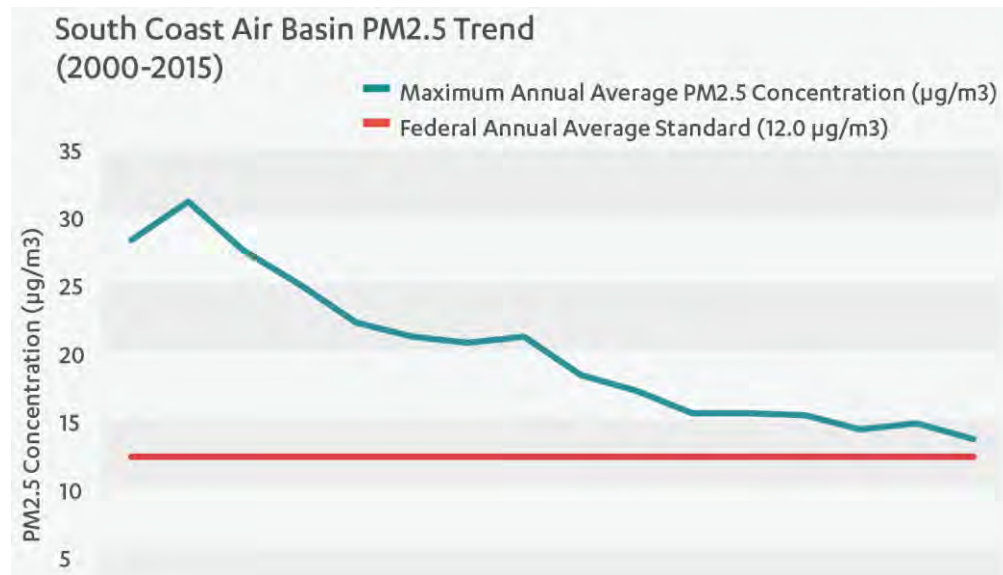
# Transportation energy use

- Electric vehicles (EV) on the rise, but ownership and charging infrastructure concentrated in wealthier neighborhoods



# Energy and air quality

- Air quality has improved significantly but continues to exceed Federal air quality standards. Localized toxic air pollution remains a serious health threat.
- Heavy duty transportation sources such as trucks, trains, ships and aircraft have not seen the kinds of improvements as light duty vehicles.
- Many energy related facilities are a major source of toxic air pollution. Oil refineries rank in the top three of toxic emissions from stationary sources in L.A. County.

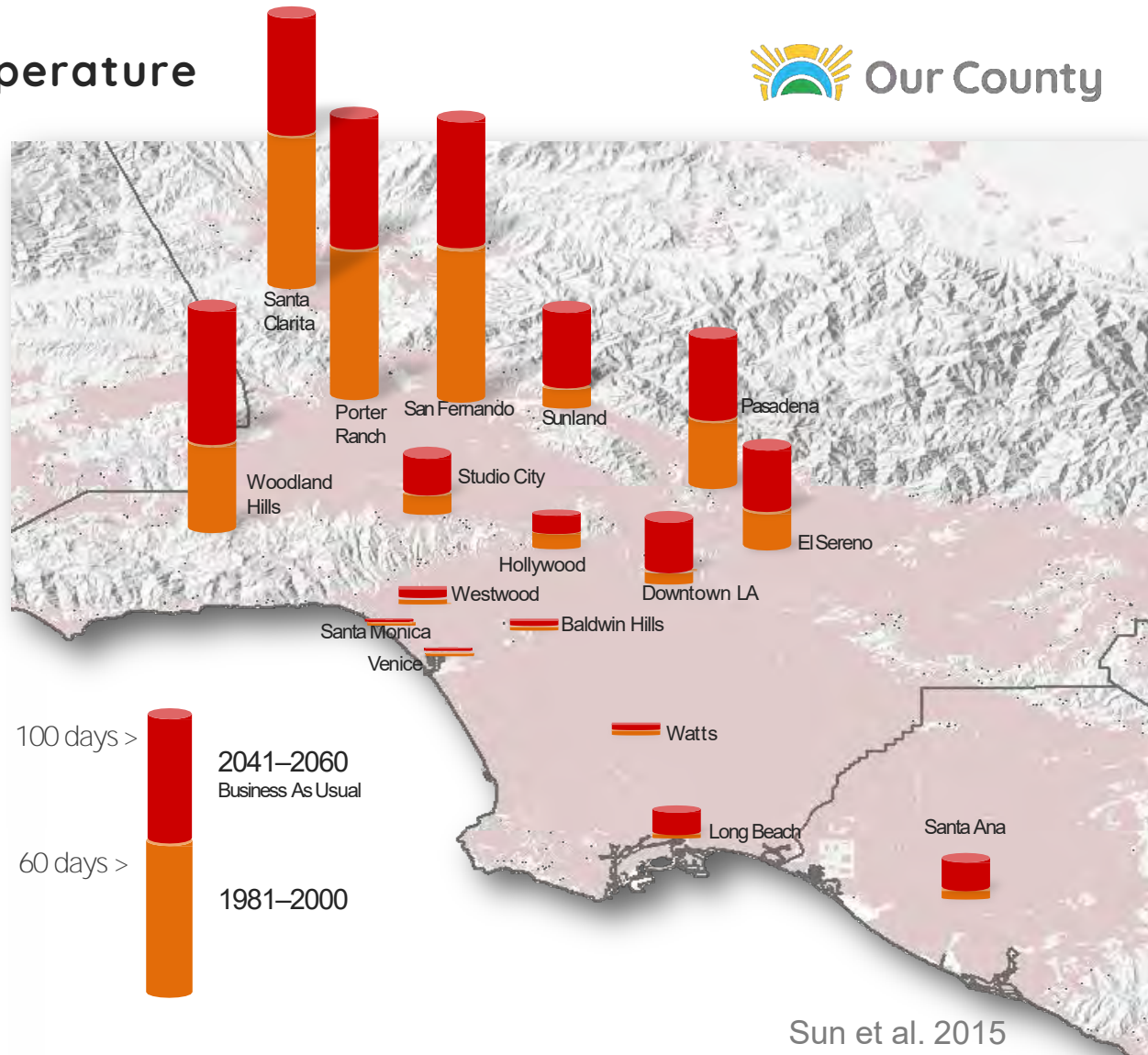


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# Climate change: temperature

- Without mitigation of greenhouse gas emissions, the LA region will be more than 7°F warmer on average by the end of the century.
- Coastal areas will warm less than inland areas, and mountain peaks will warm the most.





# Climate change: snowfall & precipitation

- LA can expect roughly the same amount of total precipitation throughout the 21st century as it received in the last few decades of the 20th century.
- However, more will fall as rain instead of snow.
- Over this century, Southern Californians may be at an increased risk of flooding and will have smaller windows of time to capture local water

End-Century Snowfall (2081-2100) Business As Usual



End-Century Snowfall (2081-2100) Mitigation



Source: Hall 2015

# Climate change and energy

Potential climate-related impacts include:

- 3-5 more heat waves per year by 2050 (12-14 by 2100) and a decline in annual precipitation of 2 inches by 2050 in low lying, coastal areas (4-5 inches in high elevation areas)
- Vulnerable populations – particularly the County's significant homeless population and those without access to air conditioning, weatherized buildings, or transportation – may be at greater risk for health impacts from extreme weather events.
- Increased energy demand during heat events can cause brownouts and blackouts, which creates additional vulnerability.



# The role of the County in energy

## Energy Facilities Siting

*Regional Planning oversees unincorporated land use planning, thus energy facilities siting.*

## Industrial Facilities

*Public Health has a role in ensuring that industrial facilities, like energy production facilities, operate in a manner protective of public health.*

## Regional Energy Network & PACE

*Internal Services Department operates the PACE program and the program to delivery energy efficiency services to the region.*

## Clean Power Alliance

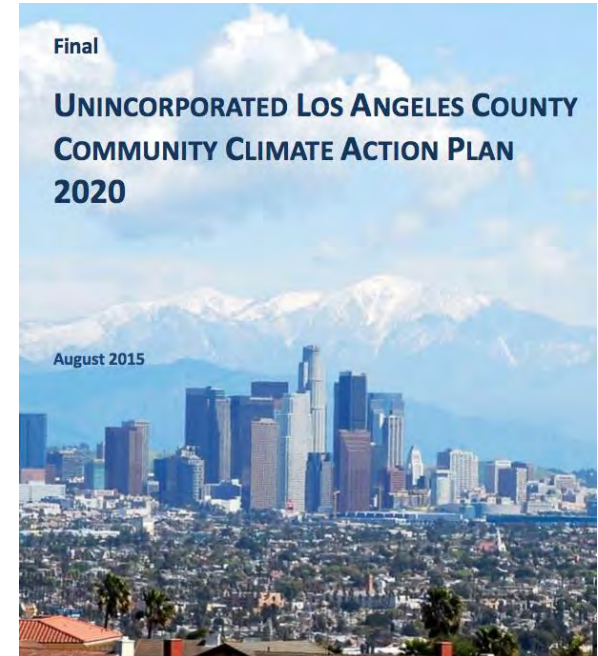
*The County is one of the members of the Board of Directors overseeing the community choice energy program for 31 cities.*

# The role of the County in addressing climate change



In 2015 LA County adopted a community climate action plan (CCAP) to mitigate and avoid GHG emissions associated with community activities in unincorporated LA County.

- The CCAP addresses emissions from building energy, land use and transportation, water consumption, and waste generation.
- The measures and actions outlined in the CCAP tie together the County's existing climate change initiatives and provide a blueprint for a more sustainable future.
- The CCAP and associated GHG reduction measures are incorporated into the Air Quality Element of the Los Angeles County General Plan 2035



# A Sampling of Local and Regional Energy Policies



<b>L.A. City Council</b>	The city council has charged LADWP with studying the possibility of reaching 100% renewable energy.
<b>L.A. City Cool Roof Ordinance</b>	Since 2014, Los Angeles Green Building Code requires that cool roofing material be used in residential buildings. Cool roofs lower roof temperatures on hot sunny days and therefore keep homes cooler inside, saving energy by reducing the need for running air conditioning systems.
<b>Santa Monica Sustainable City Plan (updated 2014)</b>	Santa Monica committed to a 10 percent reduction in overall energy use by 2020 in addition to its targets of 50% renewable energy production and installation of 7.5 MW of local solar generation in the same period.
<b>LADWP Coal Divestiture</b>	L.A. Department of Water and Power (LADWP) pledged to source no energy from coal by 2025.
<b>LADWP Feed-in Tariff</b>	LADWP operates a feed-in tariff program that pays small solar producers, including building owners who can produce between 30 kW and 3 MW from rooftop installations, for each kilowatt hour they generate
<b>LADWP Consumer Rebate Program</b>	LADWP offers rebates through its Consumer Rebate Program to promote energy-efficient housing installations, such as cool roofs.
<b>San Jose Green Vision</b>	Goal is for 2022. Reduce per capita energy use by 50 percent. Receive 100 percent of electrical power from clean renewable sources. Reduce per capita energy use by 50 percent. Install 1.6 MW of solar on municipal sites.
<b>San Francisco</b>	Former mayors Gavin Newsom and Ed Lee issued a challenge to the City: to have 100% of San Francisco's electricity demand be met with renewable energy. Current goal date is 2030.
<b>San Diego Climate Action Plan</b>	Increase the number of zero emissions vehicles in the municipal fleet to 50 percent by 2020 and 90 percent by 2035. Add additional renewable electricity supply to achieve 100 percent renewable electricity city wide by 2035.

- A. Eliminate negative health-related impacts of energy, especially on disadvantaged communities.
- B. Provide access to clean and affordable energy.
- C. Decarbonize our fuel sources.
- D. Modernize the local energy system and infrastructure.
- E. Reduce energy consumption and improve demand management.
- F. Improve energy governance structure for better accountability, transparency, and community involvement.

# Nonprofit Workshop Feedback



Our County

# Nonprofit Energy Workshop July 13, 2018



Nonprofit workshop focused on energy, while today we are more explicitly focused on **energy and climate**



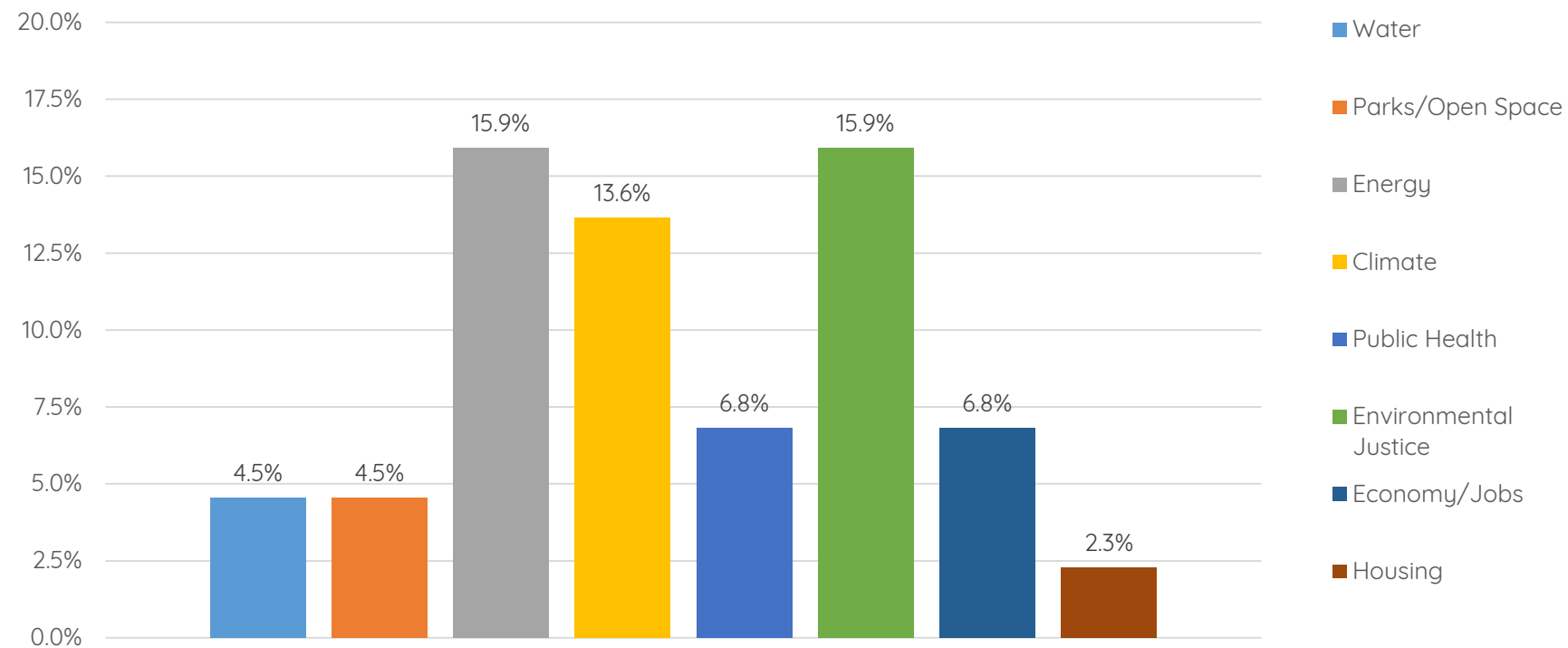


# Nonprofit Energy Workshop

## July 13, 2018



Participant Overview



# Nonprofit Energy Workshop

## July 13, 2018



### Key Takeaways:

- Create master jobs policy for Energy and all Sustainability initiatives
- Strengthen community engagement, representation, accountability and local ownership of energy
- Prioritize investments for disadvantaged communities and renter populations
- Ensure protections for disadvantaged communities in energy transition (e.g., displacement)
- Educate County residents on “cradle to grave” environmental stewardship and conservation
- Develop stronger goal language (e.g., “eliminate” rather than “reduce” health impacts)

- A. Eliminate negative health-related impacts of energy, especially on disadvantaged communities.
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[lacounty.gov/sustainabilityplan](https://lacounty.gov/sustainabilityplan)

[#OurCountyLA](https://twitter.com/OurCountyLA)