

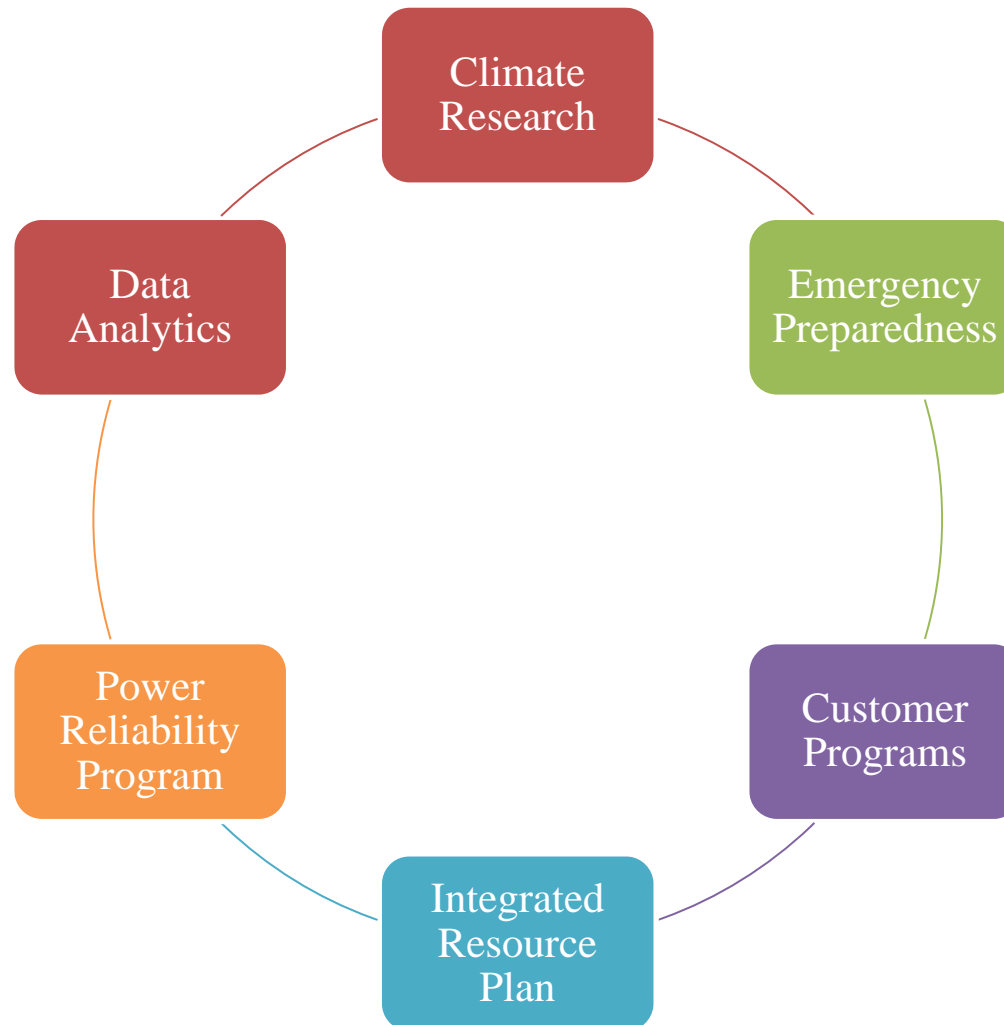
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IEPR Disadvantaged Communities & Energy Adaptation Workshop

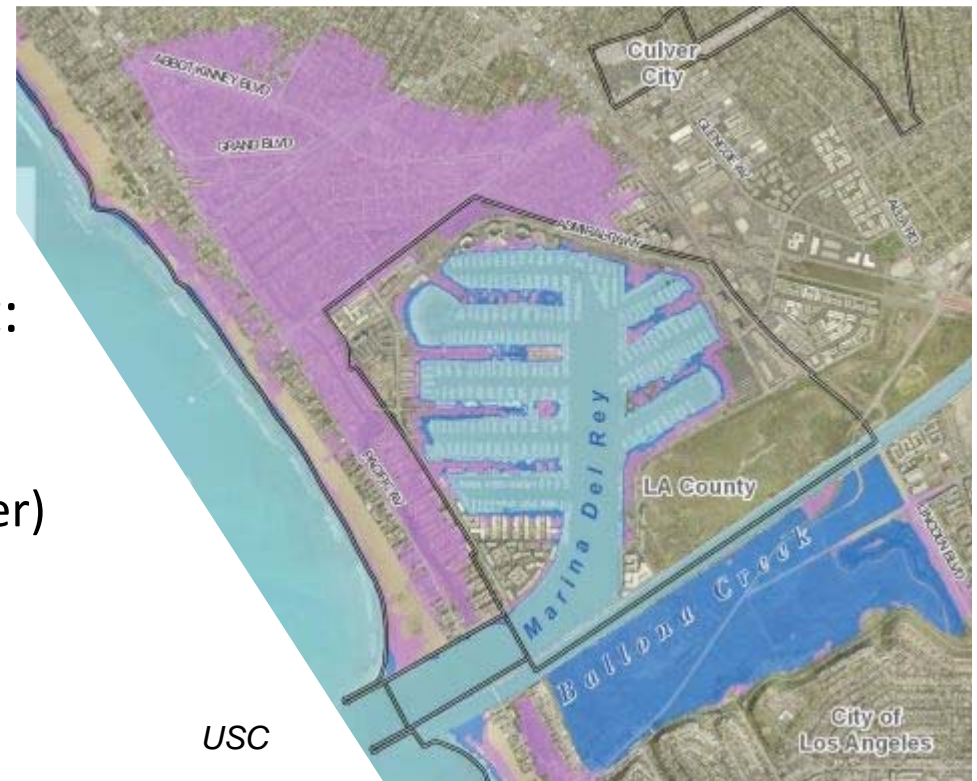
August 29, 2017

LADWP Adaptation and Disadvantaged Communities Planning Resources



Climate Change Impacts to Los Angeles

- Increase Heat:
 - Dense urban areas like downtown Los Angeles and the San Fernando and San Gabriel valleys will warm an average of 4 degrees
 - Coastal areas will receive less warming than Downtown
 - Inland areas will receive triple the current number of hot days
 - “Urban heat island” will increase with urban expansion
- Sea Level Rise:
 - 0.3 – 2.0 feet from 2000 to 2050
 - 1.3 – 5.6 feet from 2050 to 2100
- Extreme Weather and Drought:
 - Wind Storms
 - Increased Heat Storms
 - Winter Storms (Atmospheric River)



Climate Change Impacts to Customers

- Higher energy bills for cooling
- Increase of outages from strain on Infrastructure
- Increase in Emissions:
 - low hydro power from drought
 - Increase energy demand
 - Decrease Thermal Efficiency
- Other Impacts:
 - Heat related Illness and loss of economic productivity
 - Operational Impacts to LADWP (covered in previous workshop)

Disadvantage Communities are most impacted

LADWP Programs to Assist with Impacts of Climate Change

- **Energy Efficiency Programs:**
 - AC Optimization Program
 - Refrigerator Exchange Programs
 - Efficient Product Marketplace
 - Home Energy Improvement Programs
 - SoCal Gas Joint Rebates and Programing
- **Discount Rates:**
 - Low Income Discount Program
 - Senior Citizen/Disability Lifeline Rate
- **Health Services Assistance:**
 - Life Support Equipment Discount
 - Physician Certified Allowance Discount
 - Large Customer Energy Efficiency Programs ,Power Infrastructure Enhancements and Micro Grid Programs for Local Hospital

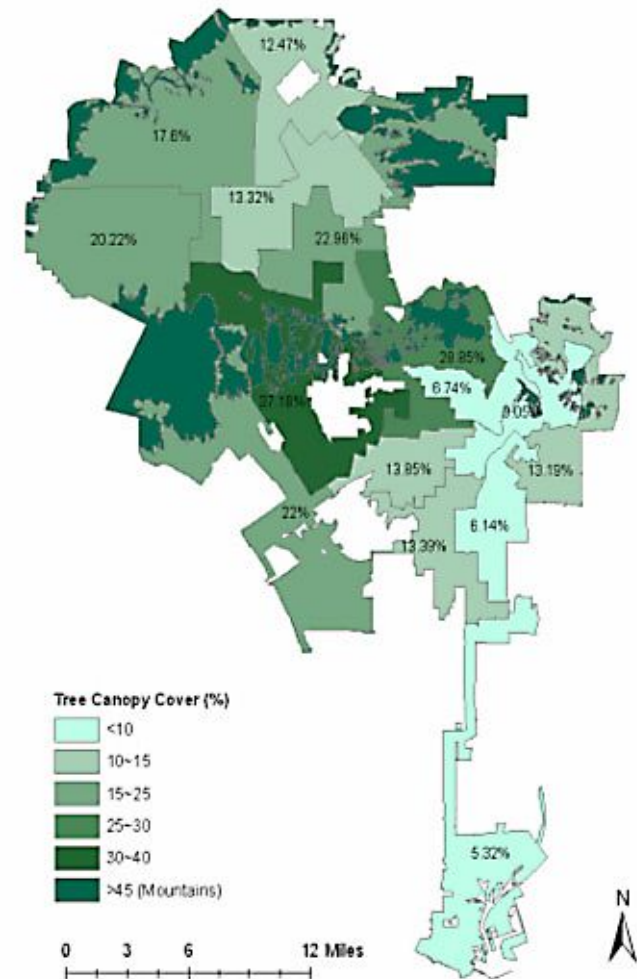
LADWP Programs (Continued)

- **Reduce Heat Island Effect**
 - Cool Roofs Programs
 - City Plants (Tree Canopy Program)
- **Power Reliability Program**
 - Data Driven Program to replace aging and failing infrastructure
- **Analysis and Continued Program Development**
 - Low Income and Customer Access Director (new position)
 - *Equity Metrics Data Initiative*

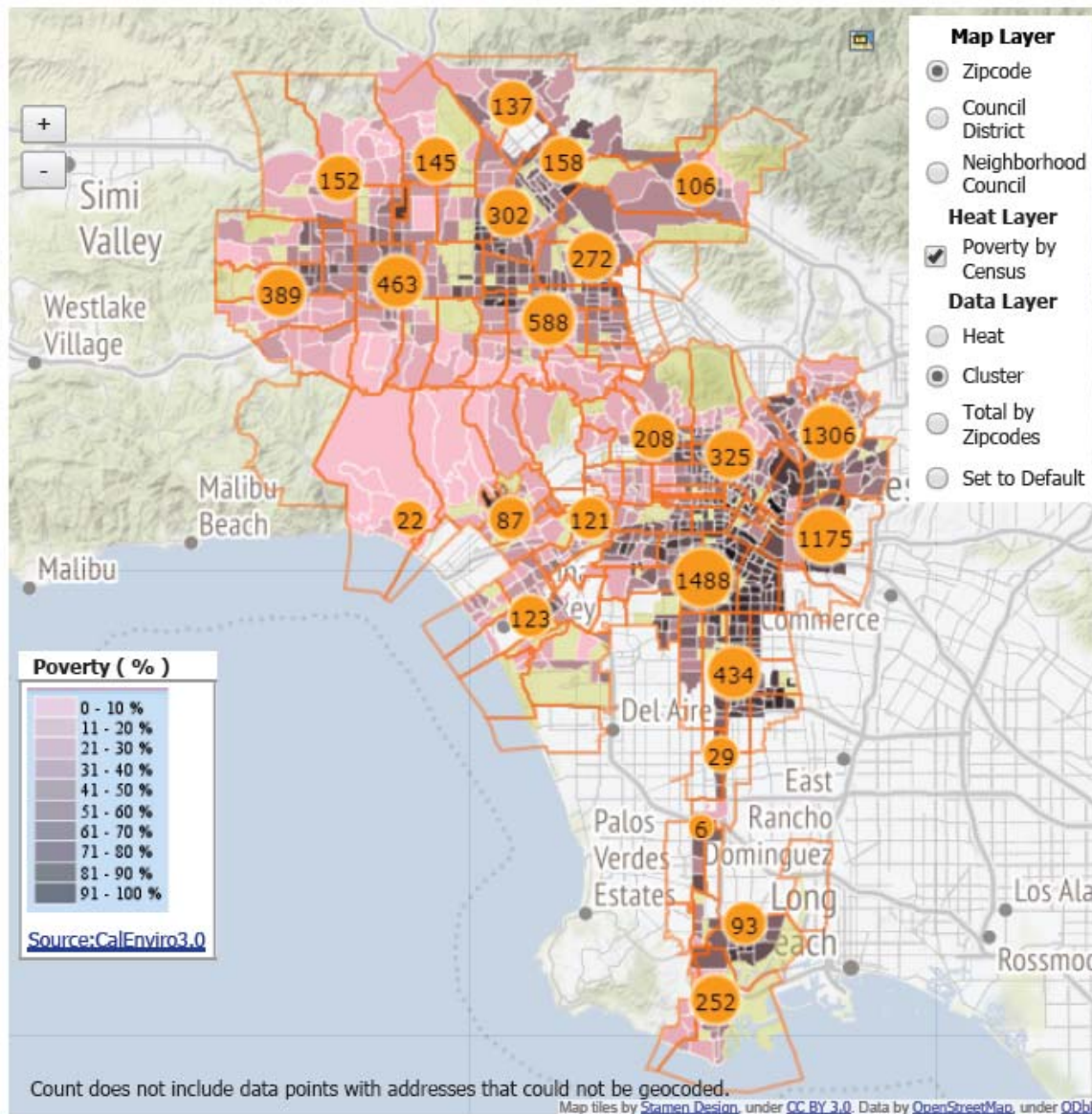


LADWP Equity Metrics

- Identify disparities in services and reliability by location through the City
- Incentive participation in energy efficiency programs for all residents and business through out the City
- Support Contracting with diverse, local constituencies for goods and services
- LADWP will monitor close to 50 metrics for the program

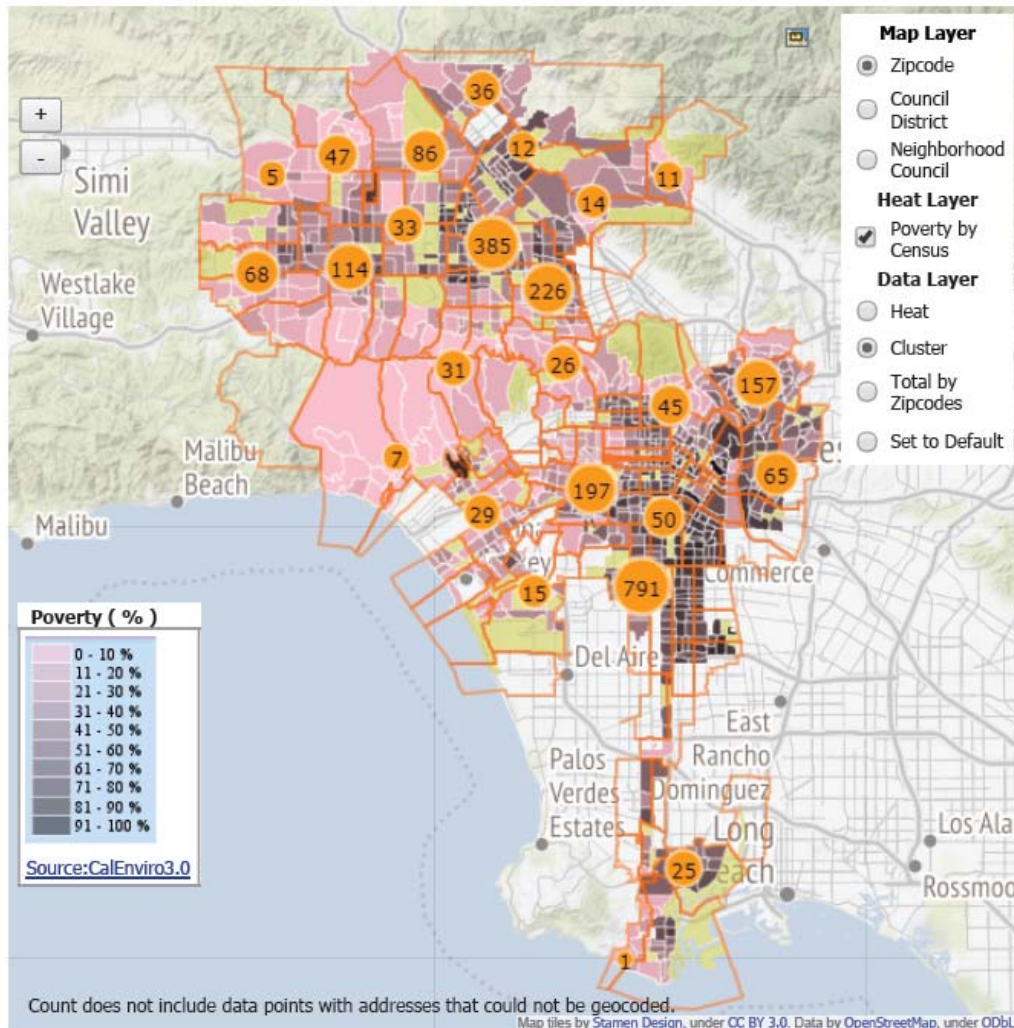


Tree Canopy Program



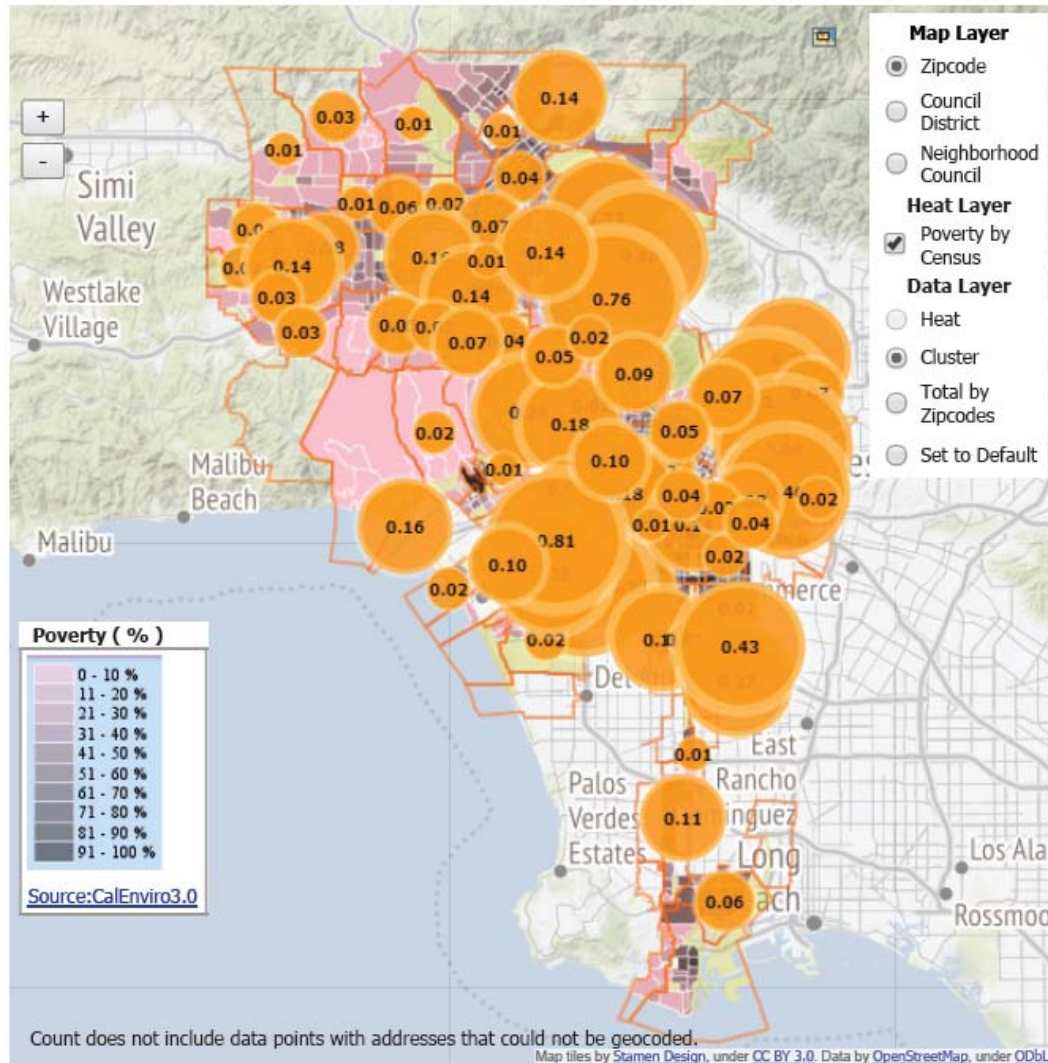
- City of LA has an average 21% Tree Canopy, well below the national average of 27%
- 20,000 Trees Planted per year
- Chart data: Jan 2016 to Dec 2016 and does not include general “give away” trees

Home Energy Improvement Program (HEIP)



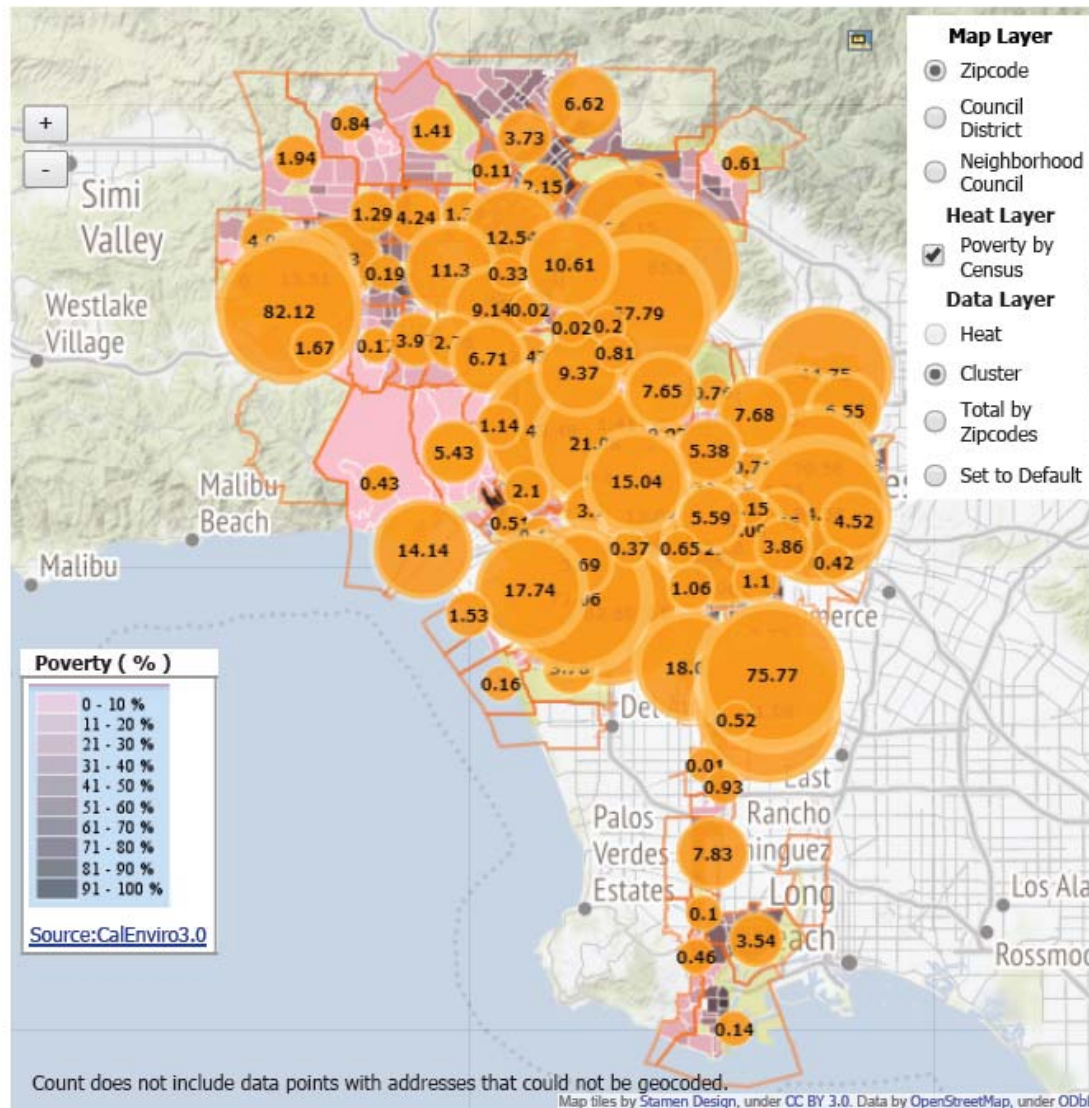
- HEIP is a comprehensive direct install whole-house retrofit program for residential programs.
- Focus on energy and water efficiency upgrades
- HEIP's priority is to serve LADWP's neediest customers.
- Chart Data: number of homes completed from July 2016 – Apr 2017

SAIFI (System Average Interruption Frequency Index)



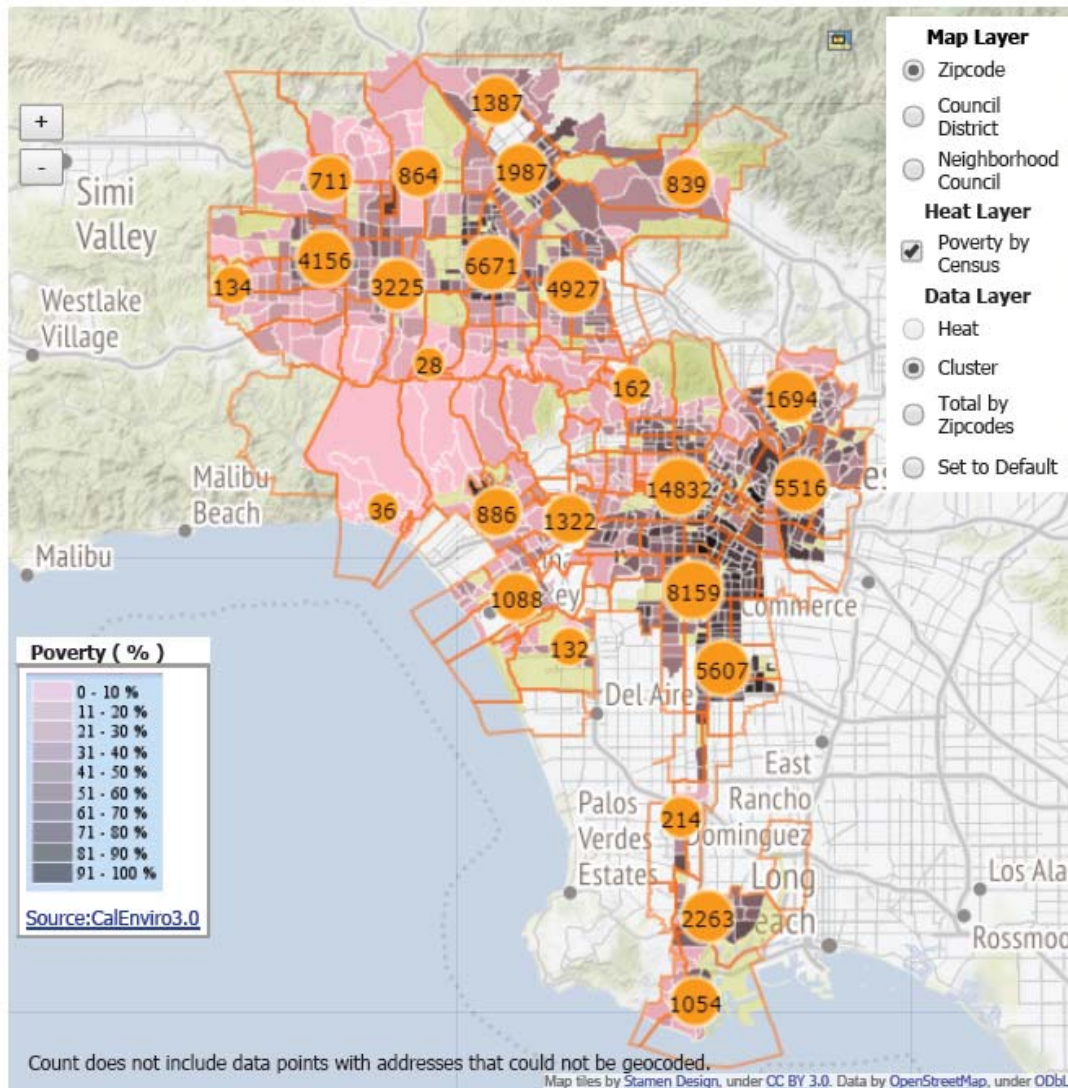
- SAIFI is average number of interruption per year for the system
- 2017 is projected to have the second worst SAIFI since 2000 due to the heavy rainstorms and wind gusts
- Chart Data: May 2017 - 12 month rolling average

SAIDI (System Average Duration Frequency Index)



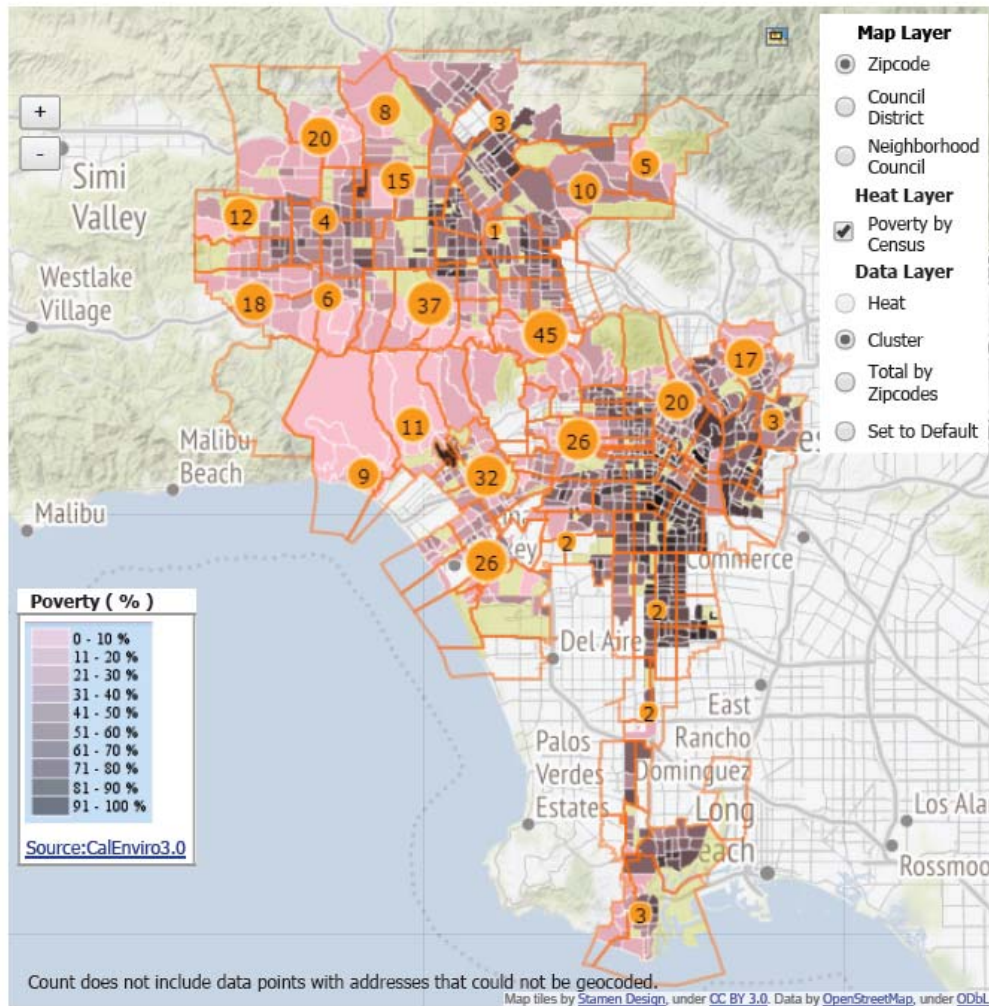
- SAIDI is average number of minutes a customer's power is out
- Feb 17, 2017 was the wettest day in years with precipitation between 2 and 6 inches of rain and wind gust that topped 80 mph in some parts of Los Angeles.
- Chart Data: May 2017 - 12 month rolling average

Low Income Discounts



- Program customer receive subsidies of \$8.17 per month for electricity and \$5 per month for water
- As of June 2017 there are approximately 171,000 participants enrolled in the Program
- Since 2008 LADWP has increased participation from 15% to 20%
- Chart Data: Number of participants as of June 2017

Electric Vehicle Infrastructure



- “Charge Up L.A.!” offers rebates for EV Chargers
- In the next 18 months 200 curbside chargers will be installed for the City’s Disadvantaged Community EV Car Sharing program
- Chart Data: Installed public chargers from July 2016 – April 2017

Equity Metrics Next Steps

- Work with Community groups to review data
- Independent analysis of data by a third party (LMU)
- Identify gaps in program
- Modify outreach and program scope based on analysis