

EQUITY METRICS DATA INITIATIVE

Los Angeles City Council
Energy, Climate Change and Environmental Justice Committee
August 1, 2017

Putting Customers First 

What are Equity Metrics?

- Equity Metrics are performance indicators that provide policymakers and program managers with data to assess how well programs, services and resources are distributed and utilized geographically and demographically
- On August 16, 2016, the Board of Water and Power Commissioners' (Board) approved Resolution No. 017036 establishing the LADWP's Equity Metrics Data Initiative (EMDI)
- On December 6, 2016, the Board approved Resolution No. 017107 finalizing fifteen (15) equity metrics within four core categories

EMDI Reporting Timeline

- ✓ **August 2016** – Board of Water and Power Commissioners' (Board) approved Resolution No. 017036 establishing the LADWP's Equity Metrics Data Initiative (EMDI)
- ✓ **December 2016** – Board approved Resolution No. 017107 finalizing fifteen (15) equity metrics within four core categories
- ✓ **January 2017** – EMDI report presented to OPA
- ✓ **February 2017** – EMDI report presented to Board
- ✓ **February 2017** – EMDI graphs available on the LADWP website:
www.ladwp.com/equitymetrics
- ✓ **August 2017** – EMDI report to Board

LADWP Equity Core Areas & Programs

Equity Core Category	Metric
Water & Power Infrastructure Investment	<ol style="list-style-type: none"> 1. Water Quality Complaints 2. Water System Probability of Failure & Planned Replacements 3. SAIDI & SAIFI 4. Power System Reliability Program (PSRP) – Pole, Transformer, Cable Replacements
Customer Incentive Programs/Services	<ol style="list-style-type: none"> 5. Rain Barrel/Cistern/Water Tank Rebates 6. Turf Removal Rebates 7. Tree Canopy Program 8. Commercial Direct Install Program 9. Home Energy Improvement Program 10. Refrigerator Exchange Program 11. Consumer Rebate Program 12. Electric Vehicle Infrastructure 13. Low Income & Lifeline Programs
Procurement	14. LADWP SBE/DVBE Program
Employment	15. New Hire/Promotion Demographics

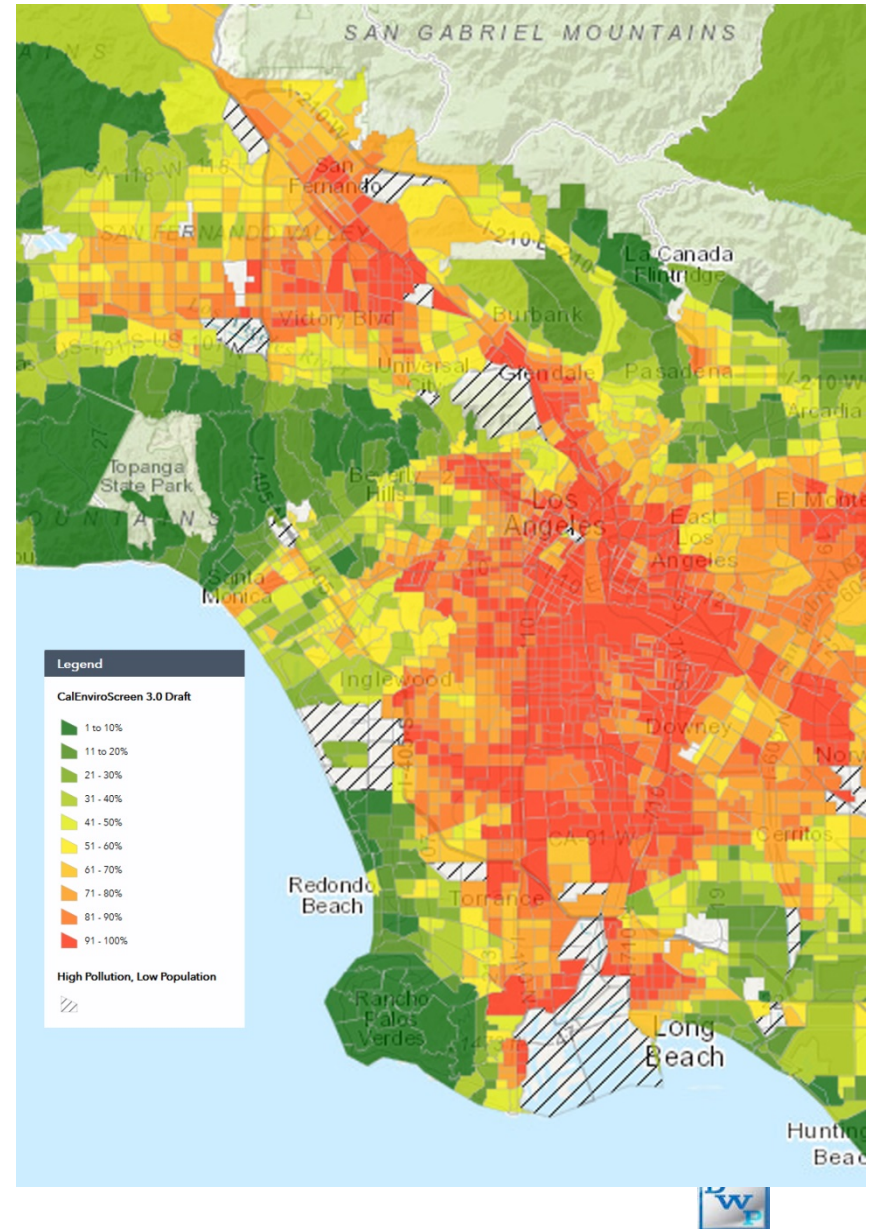


CalEnviroScreen Map

➤ This CalEnviroScreen map represents the CalEnviroScreen 3.0 score calculated from the Pollution Burden and Population Characteristic groups of indicators (12 Pollution Indicators and 7 Population Characteristics Indicators)

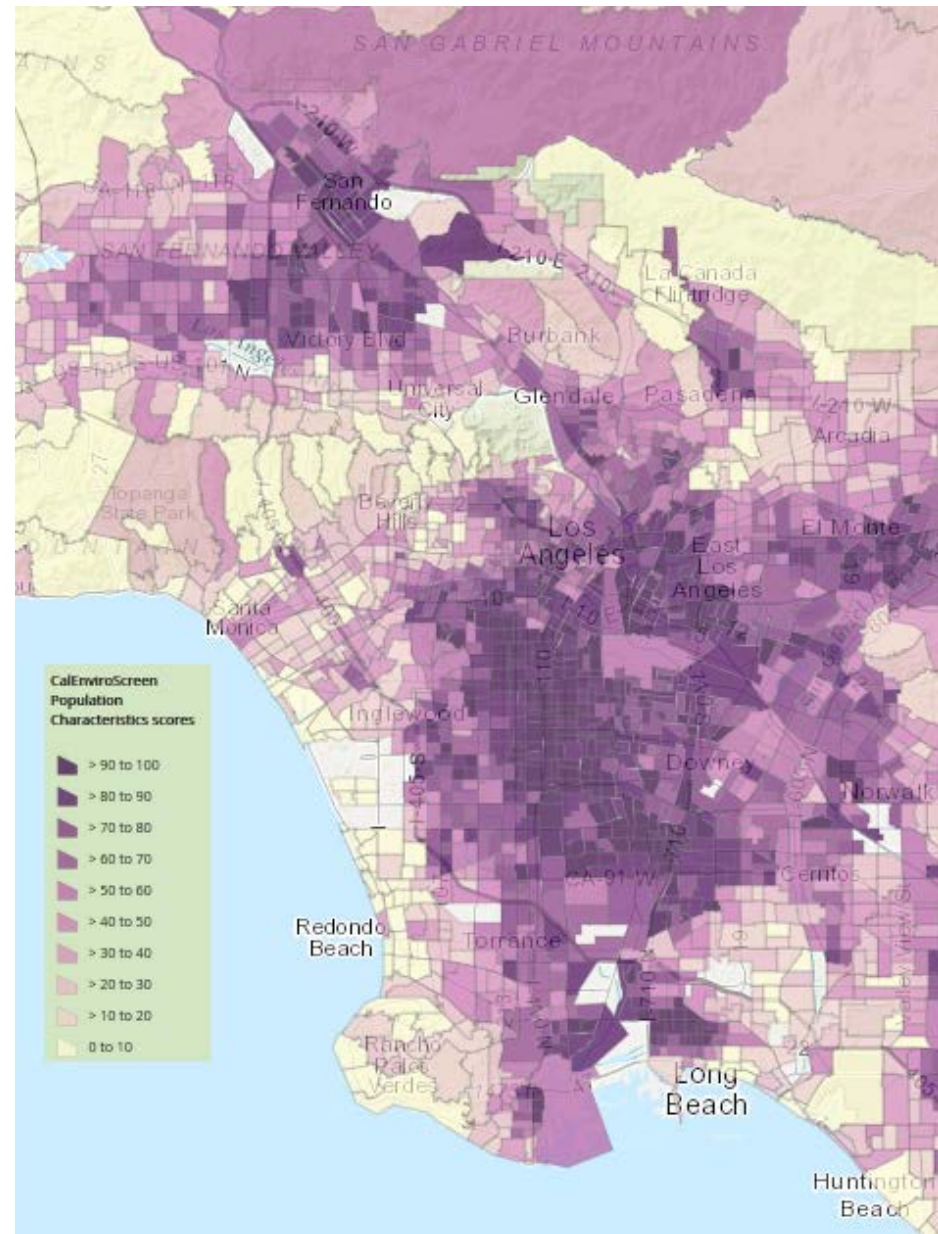
➤ Source: Office of Environmental Health Hazard Assessment (OEHHHA)

<http://oehha.ca.gov/calenviroscreen>



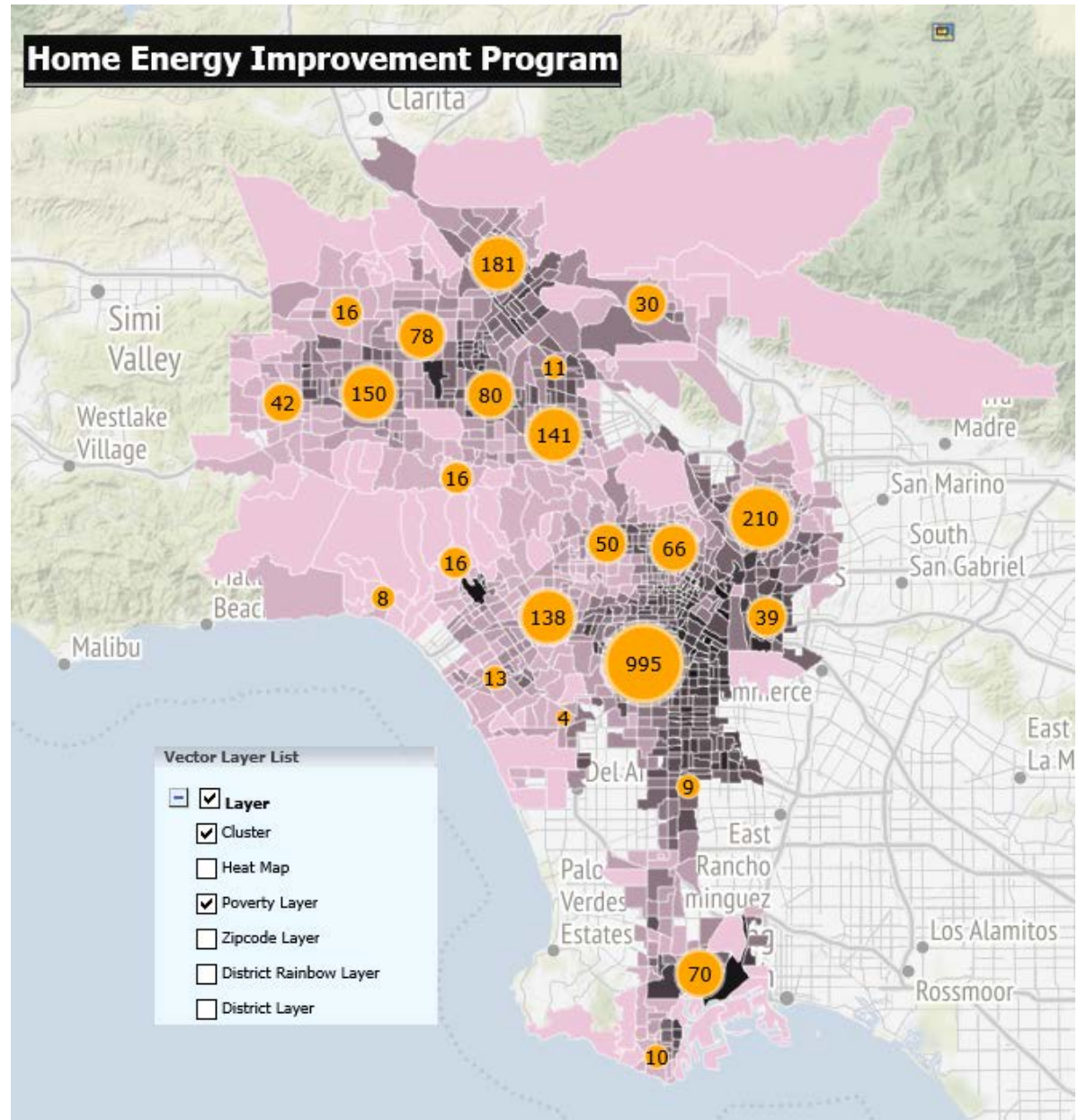
CalEnviroScreen Poverty Characteristic Map

- This CalEnviroScreen map represents the Poverty Indicator from the set of Population Characteristic Indicators. We will use this as one of the base maps for Equity Metrics
- Source: Office of Environmental Health Hazard Assessment (OEHHA)
<http://oehha.ca.gov/calenviroscreen>



Home Energy Improvement Program Cluster Map

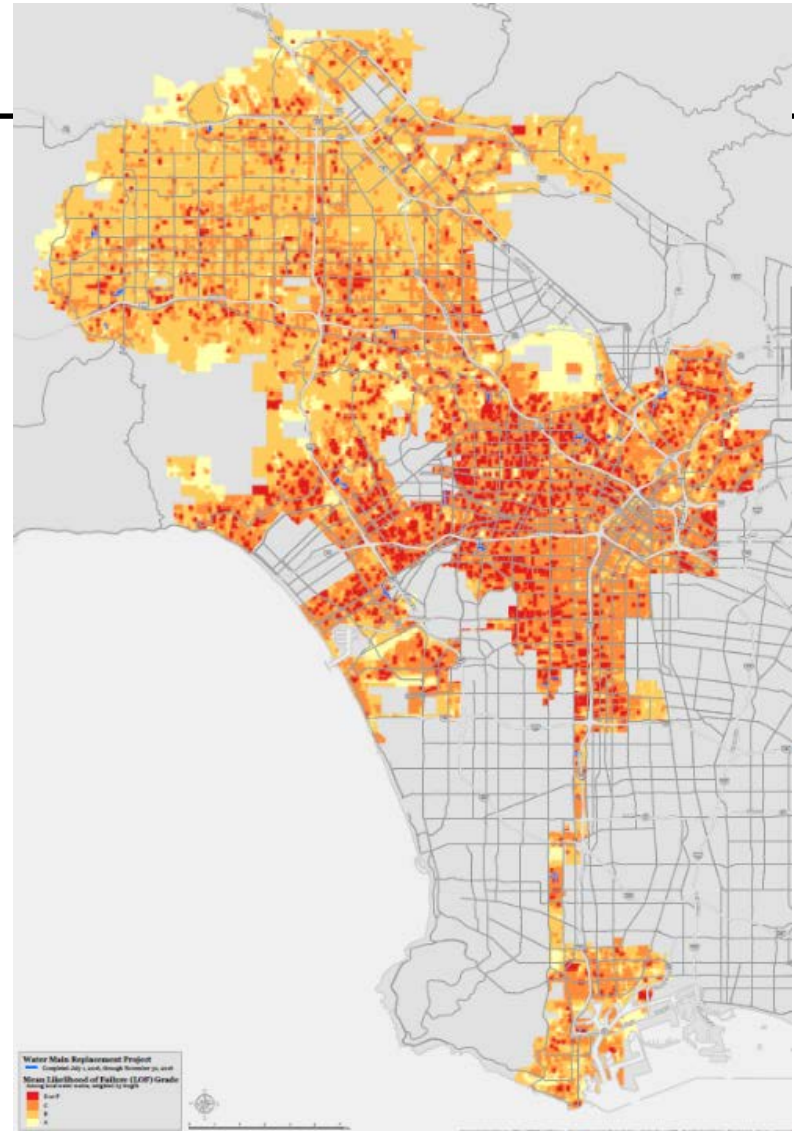
- Home Energy Improvement Program (HEIP) by Census Tract
- This Program offers LADWP residential customers the opportunity to improve the energy and water performance in their homes, which can improve their comfort level and potentially reduce their energy and water cost



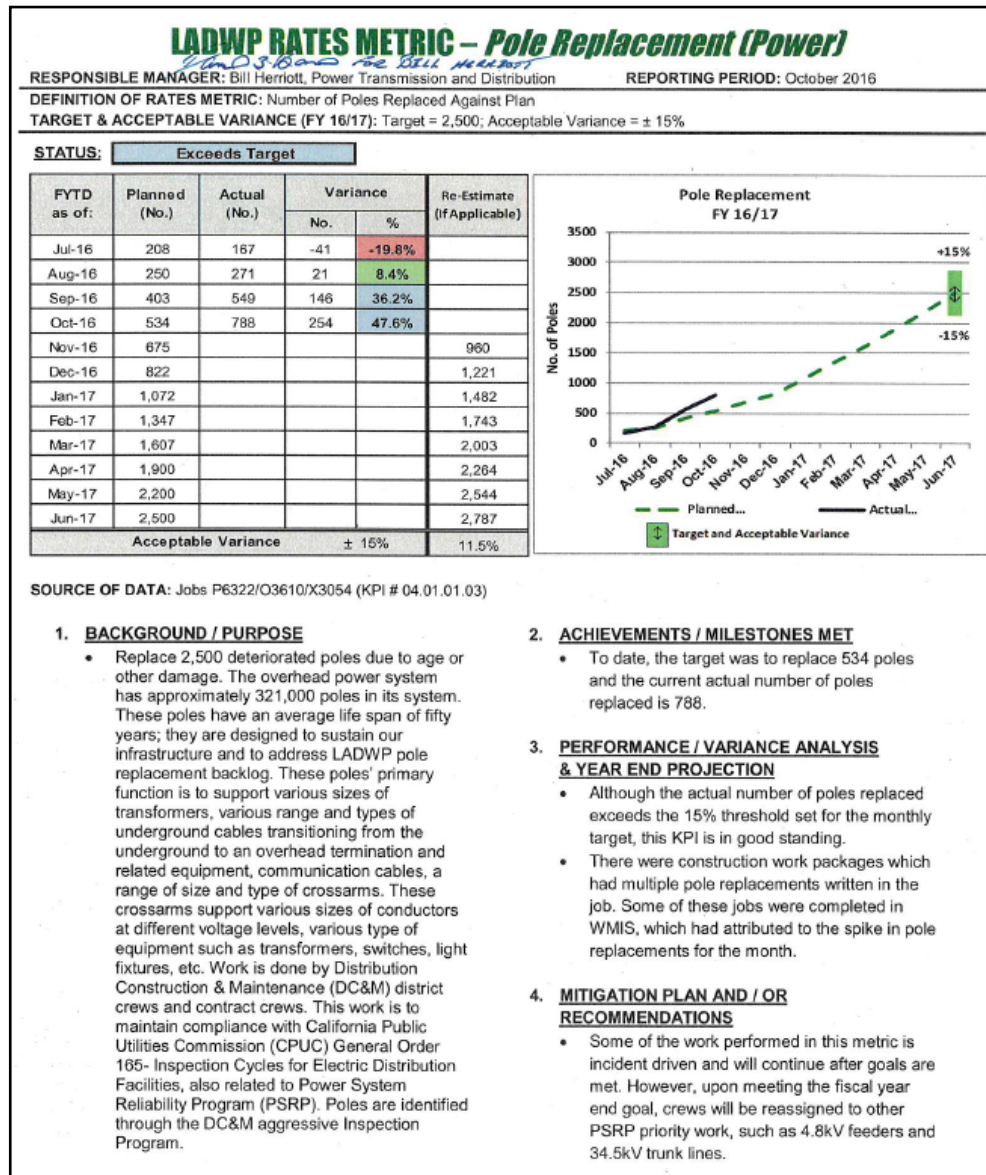
Water Mainline Conditions & Planned Replacement Map

- Decisions to replace Water Mainlines take into consideration the Mainlines' Likelihood of Failure (LOF) Grade
- The factors that contribute to the LOF Grade are:

Leaks	Age
Material	Diameter
Pressure	Elevation
Soil Corrosiveness	Hillside/Ground Movement



Sample Dashboard Reports



Residential Water and Power Reliability Core Area Example - Power Reliability

Reliability indices are used to measure the reliability performance of LADWP's distribution system in a 12-month rolling average.

District	SAIFI	SAIDI	CAIDI
Northridge	0.64	62.56	97.05
Van Nuys	0.65	83.75	128.09
West Los Angeles	1.22	172.88	141.81
Palm	0.97	149.95	154.82
Lincoln Heights	0.78	101.15	129.06
Central	1.08	148.56	138.15
Wilmington	1.05	116.11	110.22

System Average Interruption Frequency

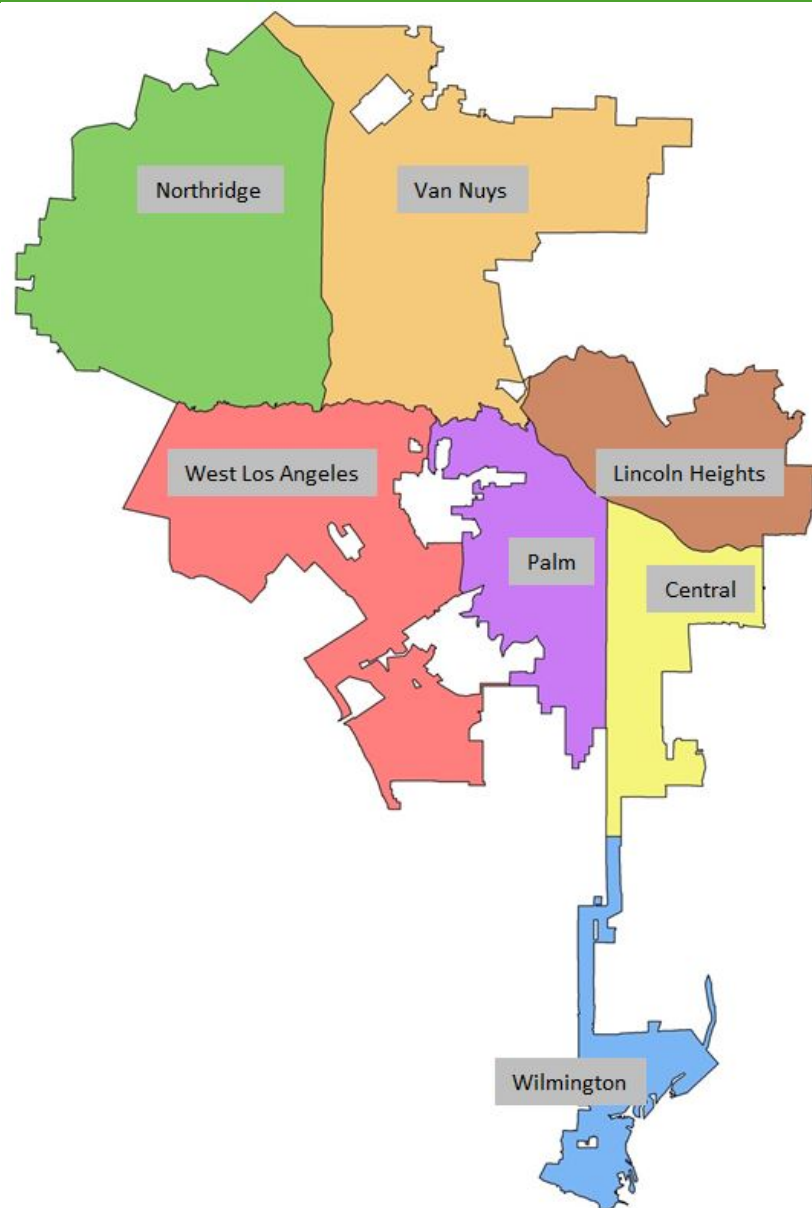
Index (SAIFI): Average # of interruptions per year for the system

System Average Interruption Duration Index

(SAIDI): Average # of minutes a customer power is out in a year for the system

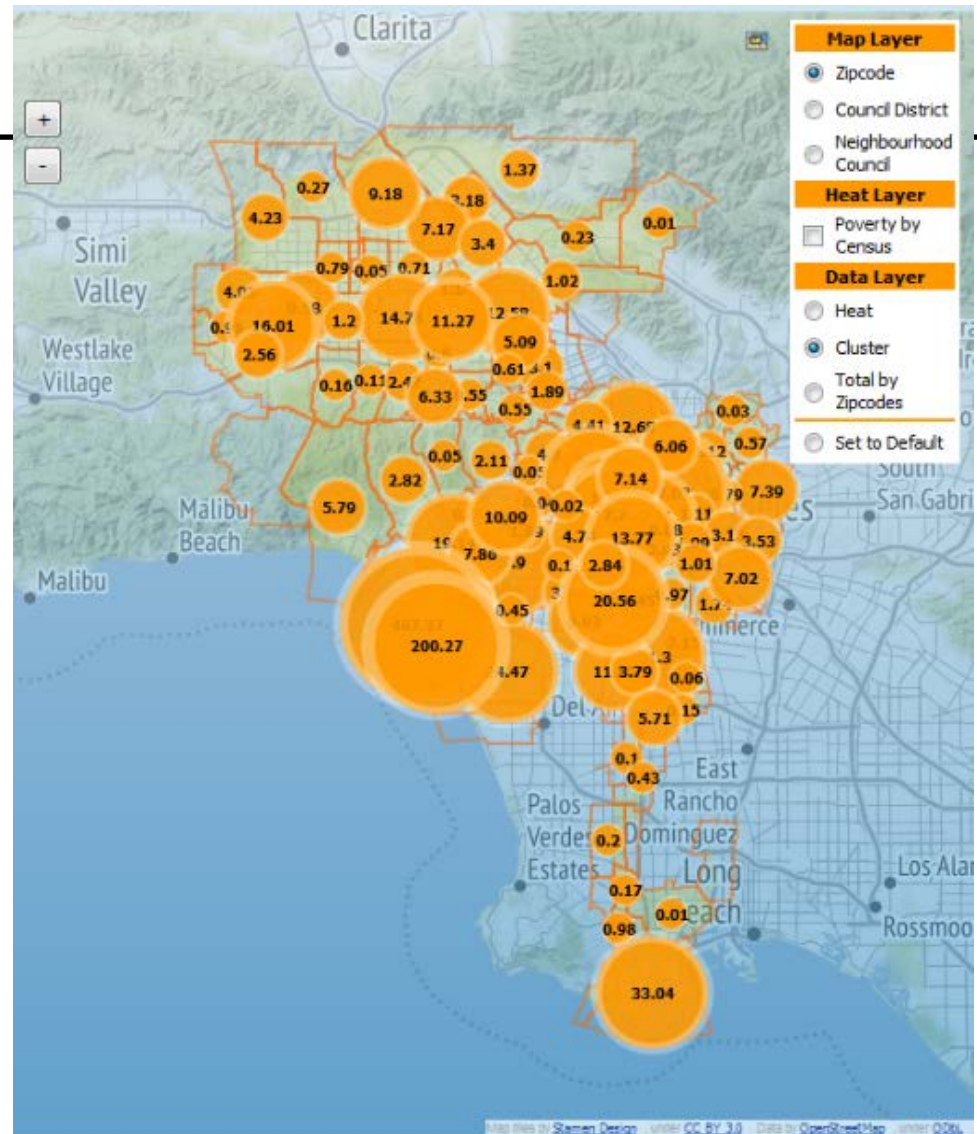
Customer Average Interruption Duration

Index (CAIDI): For customers that have a power outage, the average # of minutes that it takes to restore service



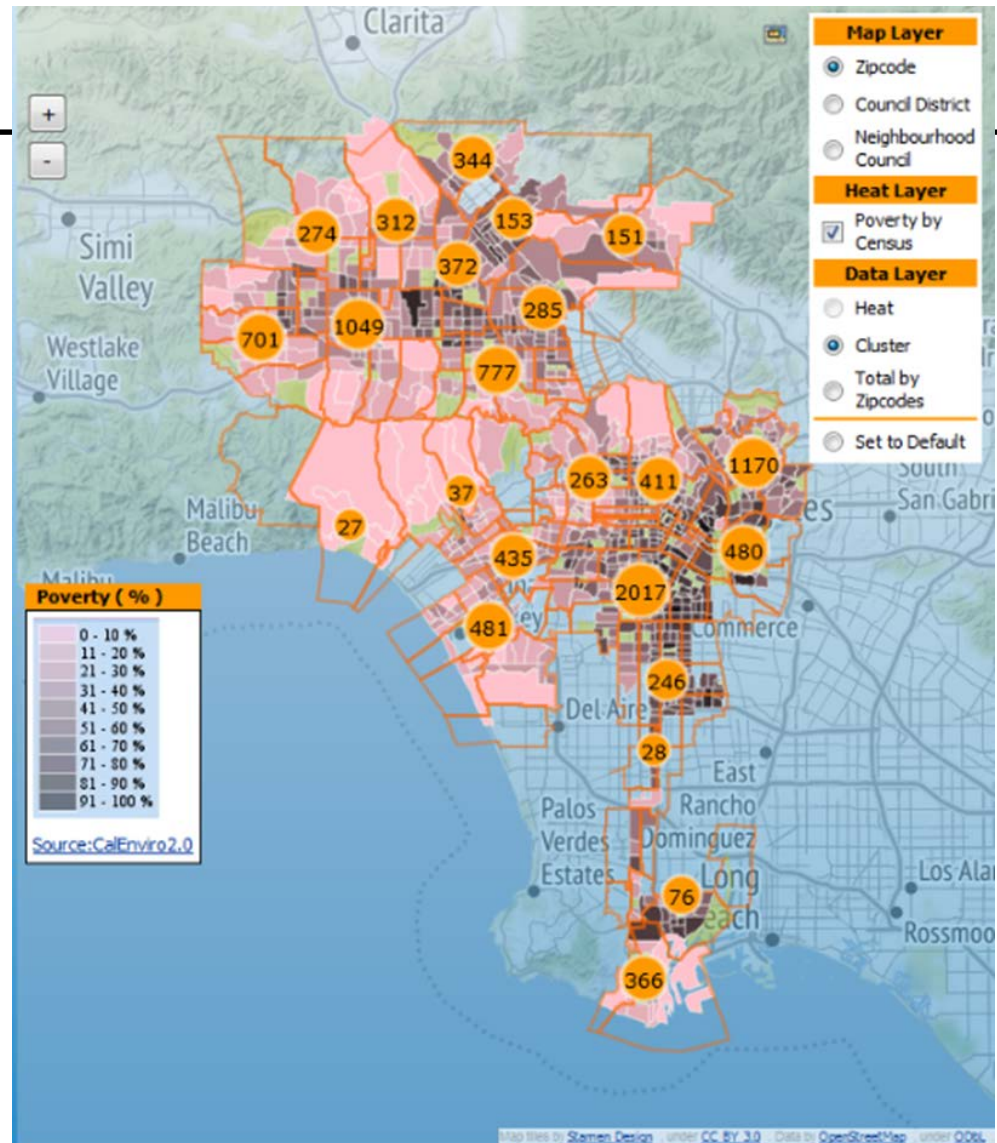
SAIDI

- System Average Interruption Duration Index (SAIDI) for Dec 2016. It is the average outage duration for each customer served per year
- High outage duration in Venice area is due to Los Angeles Fire Department request to deenergize 5 circuits for 12 hours



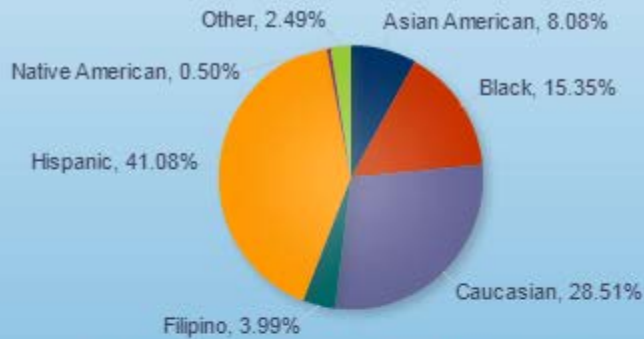
Tree Canopy Program

- Continuing its extensive tree planting involvement since 1998, LADWP recently signed an agreement with the Los Angeles City Plants program to fund 42,000 additional trees to be planted throughout the City of Los Angeles over the next two years.
- City Plants addresses the low tree canopy cover in the City, which averages 21%, well below the national average of 27%
- Trees Planted from Jan 2015 through Dec 2015

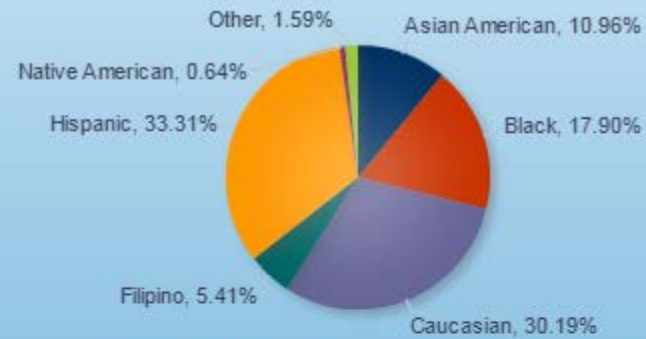


New Hire and Promotional Demographics

Hiring and Promotion by Ethnic Group

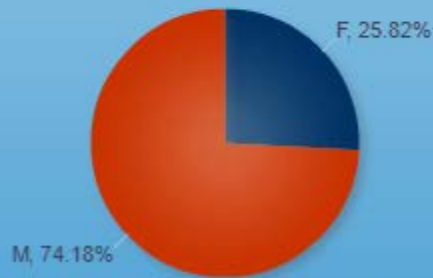


New Hires 16-17 Jul 2016 - Jun 2017 Employee Counts

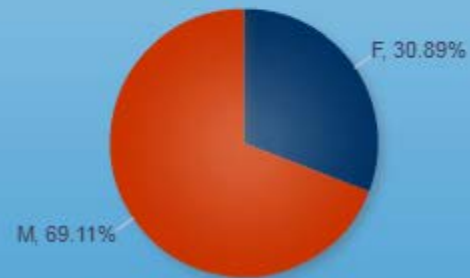


Promotion 16-17 Jul 2016 - Jun 2017 Employee Counts

Hiring and Promotions by Gender



New Hires 16-17 Jul 2016 - Jun 2017 Employee Counts



Promotion 16-17 Jul 2016 - Jun 2017 Employee Counts