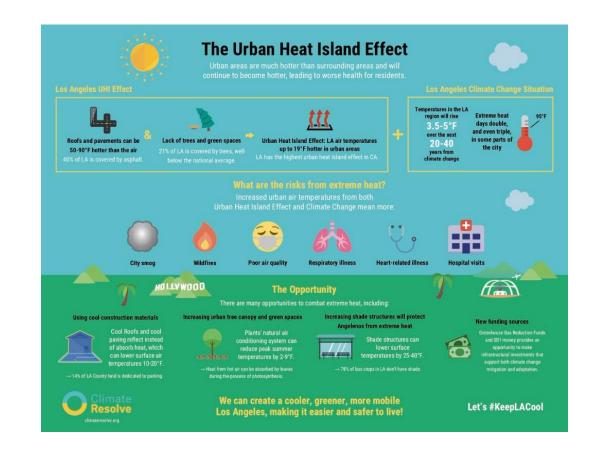


# The Urban Heat Island Effect (UHIE)

- How do we build cities?
- \* Temperature
- Health impacts
  - How can we better
- protect communities?
  - Do you see it in your community?







### The Urban Heat Island Effect



Roofs and pavements can be 50-90°F hotter than the air



Lack of trees and green spaces



**Urban Heat Island Effect: LA air temperatures** up to 19°F hotter in urban areas



**Extreme** heat days double, and even triple. in some parts of the city





### What are the risks from extreme heat?



City smoa



Wildfires



Poor air quality



Respiratory illness



Heart-related illness



**Hospital visits** 





### The Opportunity

There are many opportunities to combat extreme heat, including:





### Using cool construction materials



paying reflect instead

### Increasing urban tree canopy and green spaces



Plants' natural air reduce peak summer

→ Heat from hot air can be absorbed by leaves during

### Increasing shade structures will protect Angelenos from extreme heat



Shade structures can lower surface temperatures by 25-40°F.

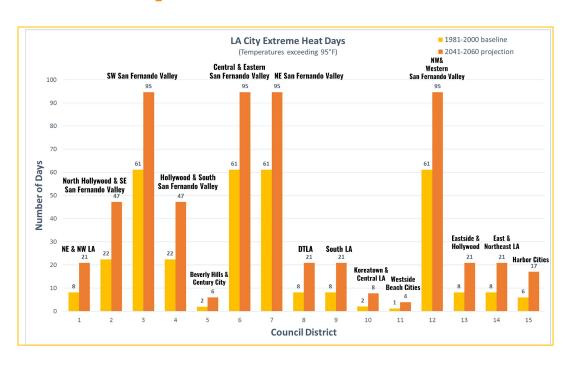
### New funding sources

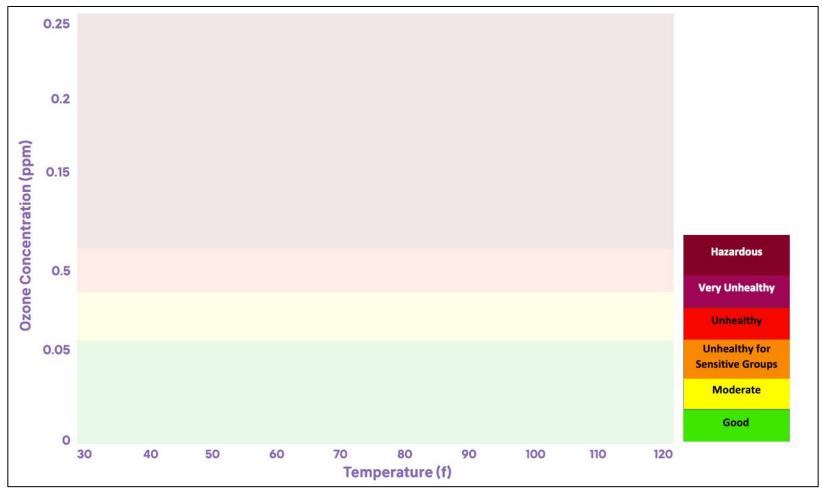


and adaptation.



### **LA Temperature**, 2041-2060





# Extreme Heat & Heat Waves Impacts on Public Health

Our bodies can't cool down, rest, or recover so that means we're more susceptible to heat related illness



### **Heat and Health**

- Heat is the leading health-related cause of death and illness
- Hard to adjust to heat
- Strategies to avoid the heat
  - Cooling centers
  - Finding shade
  - Preparing for the heat





# Cooling Centers Near You

- Libraries: <u>lapl.org/branches</u>
- Rec center: <u>laparks.org/reccenter</u>
- Senior center: laparks.org/scc
- Swimming pool: <u>laparks.org/aquatics</u>
- County centers: <u>lacounty.gov/heat/</u>
- Beat the Heat: *emergency.lacity.org/heat*

**Loose fitting** clothing and light colors can help you beat the heat!





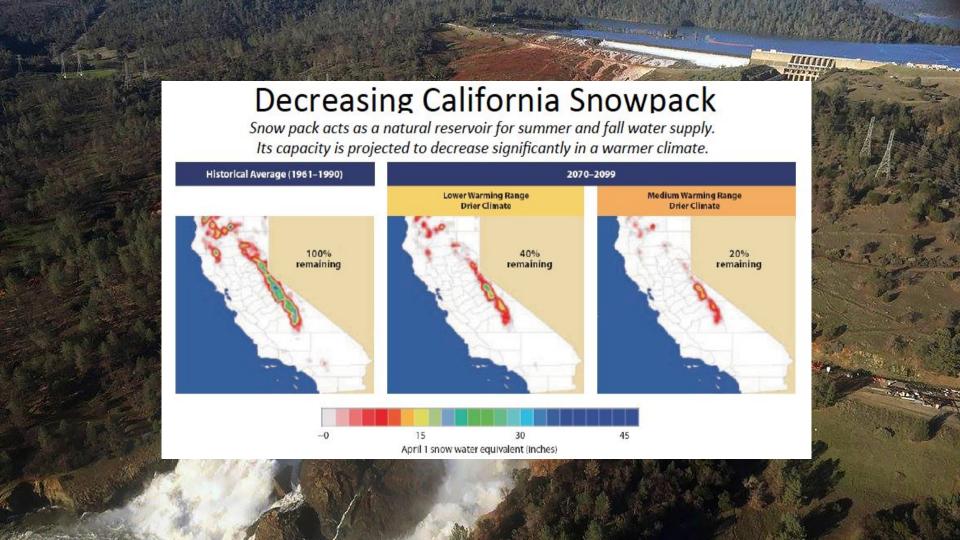
### **Staying Safe**

- Wear heat appropriate clothes
- Use sunscreen
- Check-up on friends, neighbors, and family
- Stay Hydrated
- Take frequent breaks if you work outside

# Extreme heat will also affect...

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







# Benefits of increasing the urban tree canopy

- Sequester carbon
- Cleaner local air quality
- Heat reduction benefits
- Provides shade to pedestrians
- Improves attention and stress regulation
- Improved mental well being



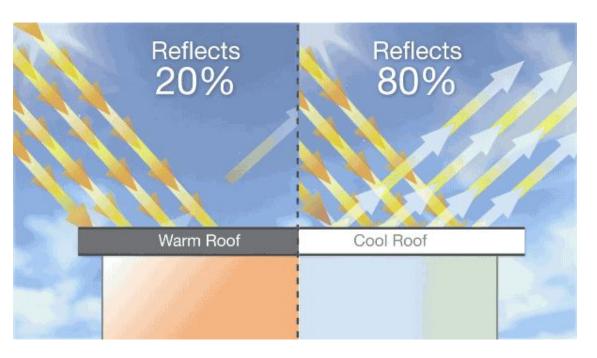




# Cool Roof Ordinance

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

## Why Cool Roofs?



# Air Conditioning Optimization Program



- Call toll free (833) 280-8100 and request a referral
- Must be residential/commercial customer with active account
- AC at least one year old
- Service includes filter change, outdoor coil cleaning, system diagnostic test, refrigerant charge adjustment
- May qualify for Smart thermostat

## Free Water Conservation Items



- Visit Customer Service Center
- For residential customers
- Call 1-800-544-4498 & press "5" (Multifamily owners)
- Save up to 900 gallons a year for each faucet aerator
- Save up to 5300 gallons of water per year for each showerhead
- Average person uses 80-100 gallons of water per day

## Efficient Product Marketplace

### **LADWP Marketplace**

Search all major retailers at once and find energy efficient products.



- Must be LADWP residential customer
- Must have an active electric account
- Find efficient appliances
- Process rebates
- Save money
- Marketplace.ladwp.com

## **THANK YOU!**

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