



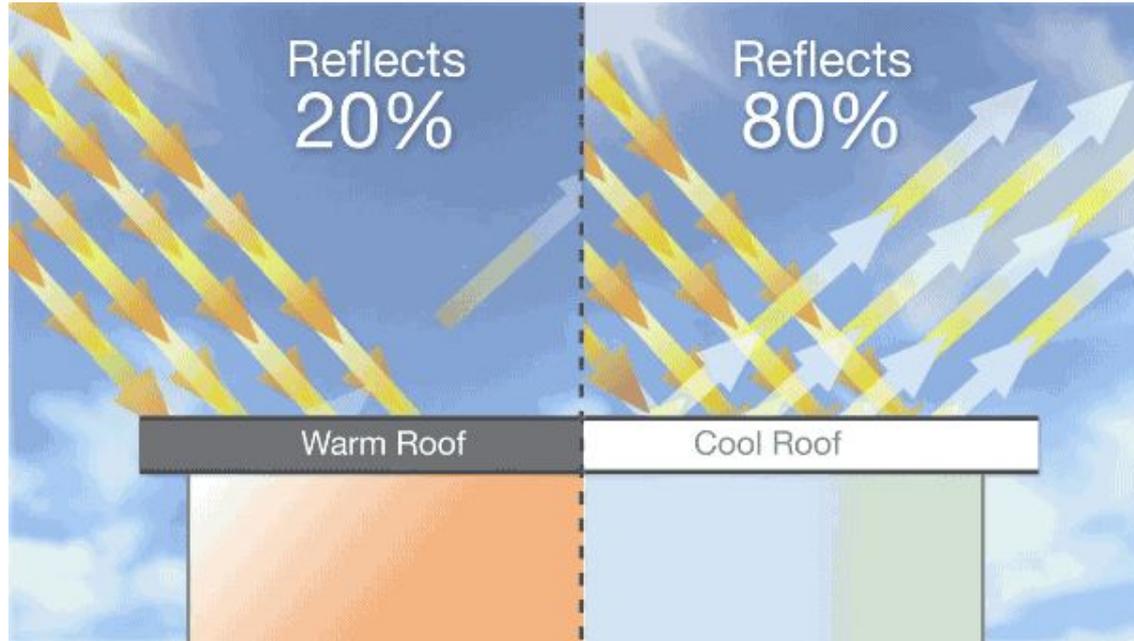
# EXTREME HEAT PREPAREDNESS | PREPARACIÓN DE CALOR EXTREMO

Addressing our Era's Extraordinary Challenge + Opportunity for a Better Quality of Life  
Combatiendo el Reto Extraordinario de Nuestra Era + Oportunidad para Mejor Calidad de Vida



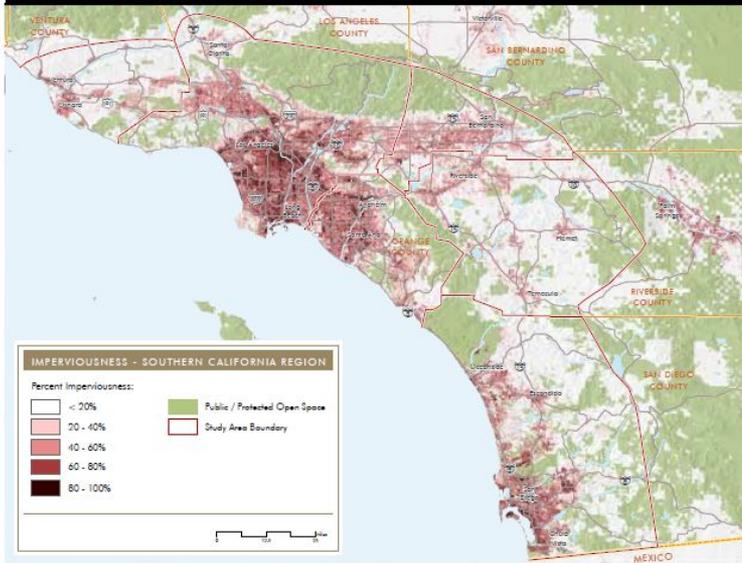
# Cool Roof Ordinancel Ordenanza de Techos Frescos

# Why Cool Roofs? | ¿Por Que Techos Frescos?



# COOLING LA LA FRESCO

Figure 1: Map of impervious surface cover in Southern California



Source: NRDC "Clear Blue Future," 2009.

Los Angeles is  
ripe for cool roofs  
| Los Angeles  
listo para techos  
frescos

- Significant potential: 20% of LA surface area is roof & 40% is asphalt | *Hasta 20% de superficies son techos y 40% calles de asfalto*
- Big urban heat island | *Islas de calor urbano*
- Hot summers, mild winters | *Veranos calientes y inviernos tibios*
- Poor air quality | *Mala calidad de aire*

# The Urban Heat Island Effect | Efecto de Calentamiento Urbano

- How do we build cities? *Como se construyen las ciudades?*
- Temperature *Temperatura*
- Health impacts *Impactos a la salud*
- How can we better protect communities? *Como protegemos a la ciudad?*
- Do you see it in your community? *Lo ve en su comunidad?*

**The Urban Heat Island Effect**  
Urban areas are much hotter than surrounding areas and will continue to become hotter, leading to worse health for residents.

**Los Angeles UHI Effect**

Roofs and pavements can be 50-90°F hotter than the air & 40% of LA is covered by asphalt.

Lack of trees and green spaces 21% of LA is covered by trees, well below the national average.

Urban Heat Island Effect: LA air temperatures up to 19°F hotter in urban areas LA has the highest urban heat island effect in CA.

**Los Angeles Climate Change Situation**

Temperatures in the LA region will rise 3.5-5°F over the next 20-40 years from climate change

Extreme heat days double, and even triple, in some parts of the city 95°F

**What are the risks from extreme heat?**  
Increased urban air temperatures from both Urban Heat Island Effect and Climate Change mean more:

- City smog
- 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**  
Cool Roofs and cool paving reflect instead of absorb heat, which can lower surface air temperatures 10-20°F.  
→ 14% of LA County land is dedicated to parking.
- Increasing urban tree canopy and green spaces**  
Plants' natural air conditioning system can reduce peak summer temperatures by 2-9°F.  
→ Heat from hot air can be absorbed by leaves during the process of photosynthesis.
- Increasing shade structures will protect Angelenos from extreme heat**  
Shade structures can lower surface temperatures by 25-40°F.  
→ 78% of bus stops in LA don't have shade.
- New funding sources**  
Greenhouse Gas Reduction Funds and SB1 money provides an opportunity to make infrastructural investments that support both climate change mitigation and adaptation.

**We can create a cooler, greener, more mobile Los Angeles, making it easier and safer to live!**

**Let's #KeepLACool**

Climate Resolve  
climateresolve.org

# Heat itself is a big public health problem | El calor es un gran peligro a la salud

Our bodies can't cool down, rest, or recover so that means we're more susceptible to heat related illness | *Cuando no descansan nuestros cuerpos son más débiles a enfermedades de calor*



## Heat and Health | Calor y tu Salud

- Heat is the leading health-related cause of death and illness | *El calor es una de las causas más grandes de muerte y enfermedades*
- Infants, elderly, and the poor are most at risk | *niños, ancianos, y gente de bajos recursos tienen más riesgos*
- Hard to adjust to heat | *Es difícil ajustar el cuerpo al calor*
- Strategies to avoid the heat | *Estrategias para el calor*
  - Cooling centers | *Centros para refrescarse*
  - Finding shade | *Encuentren sombra*
  - Preparing for the heat | *Prepárese para el calor*



## Cooling Centers Near You ☐ Centros de Enfriamiento

- Libraries | *Bibliotecas*: [lapl.org/branches](http://lapl.org/branches)
- Rec center | *Centros de recreación*: [laparks.org/reccenter](http://laparks.org/reccenter)
- Senior center | *Centro de Adultos de la Tercera Edad*: [laparks.org/scc](http://laparks.org/scc)
- Swimming pool | *Alberca*: [laparks.org/aquatics](http://laparks.org/aquatics)
- County centers | *Centros del Condado*: [lacounty.gov/heat/](http://lacounty.gov/heat/)
- Beat the Heat | *Ganale al Calor*: [emergency.lacity.org/heat](http://emergency.lacity.org/heat)

Loose fitting clothing and light colors can help you beat the heat! | Puedes ganarle al calor con ropa de colores claros y menos apretada!



## Staying Safe | Cuidate del Calor

- Wear heat appropriate clothes | *Usa ropa para el calor*
- Use sunscreen | *Usa protector solar*
- Check-up on friends, neighbors, and family | *Comunicate con amig@s, veci@s, y familia*
- Stay Hydrated | *Toma agua*
- Take frequent breaks if you work outside | *Toma descansos si trabajas afuera*

# Extreme heat will also affect... Calor extremo también va a afectar...

- Air quality | *Calidad del aire*
- Food supply | *Comida*
- Energy demand and supply | *Uso de energía*
- Wildfires | *Fuegos*
- Roads and rails | *Carreteras y Rieles*
- Property values | *Valor de propiedades*
- Water evaporation: vegetation, habitat, water supply | *Evaporación de agua: vegecación, naturaleza, y acceso al agua*



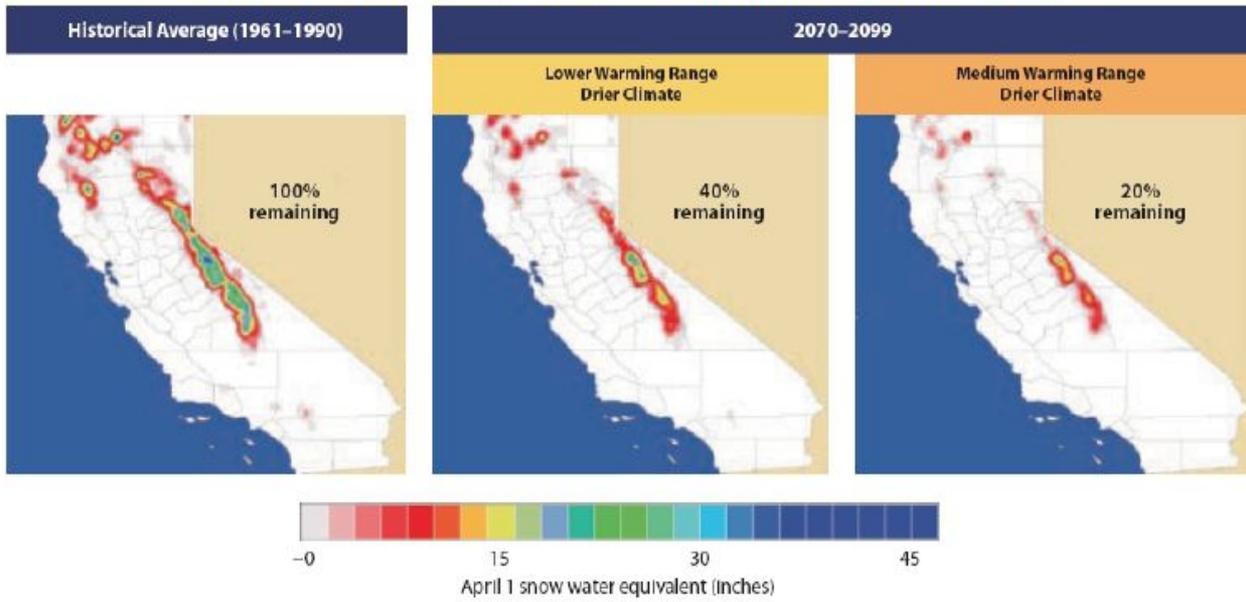
# Water Supply in LA | Acceso al Agua en LA





# Decreasing California Snowpack

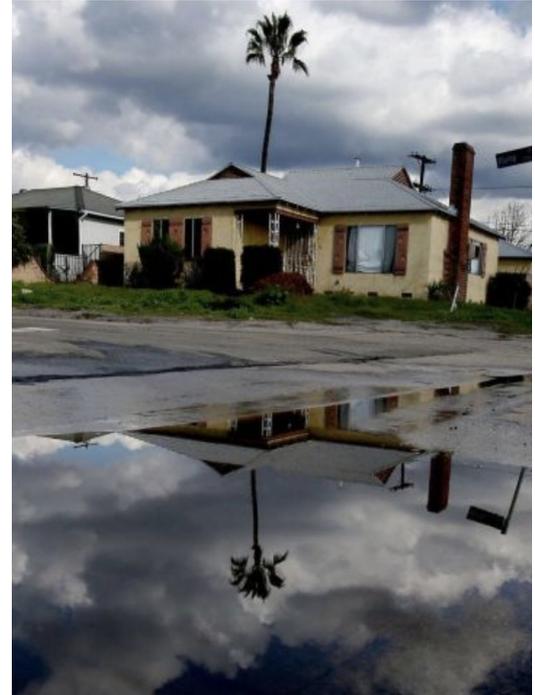
*Snow pack acts as a natural reservoir for summer and fall water supply.  
Its capacity is projected to decrease significantly in a warmer climate.*





# Safe Clean Water Act

- Capture it | *Capturar*
- Clean it | *Limpiar*
- Make it safe | *Potable*
- For everyone | *Para tod@s*



# Cool Streets



# Energy Savings Assistance - Lighting



- If you qualify, you may be able to receive
  - Compact fluorescent light bulbs
    - use up to 70% less energy than ordinary incandescent bulbs and last 7-8 times longer
  - Replacement outdoor fixtures with CFLs
  - Savings on monthly bill
  - Lower carbon footprint

# Energy Savings Assistance Program - Refrigerator Replacement



- Eligible if you participate in public assistance programs
- OR if you meet the income guideline qualifications
- Refrigerator Replacement:
  - working electric refrigerator manufactured before 1999
  - must be at least 10 cubic feet in size
  - receive a free, new, more energy efficient replacement

# Energy Savings Assistance - Cooling Measures



- Customers who have a working refrigerated air conditioning unit that is permanently installed may receive one or more of the following:
  - Replacement energy-efficient window or wall air conditioner (existing AC must be 15+ yrs old)
  - Energy-efficient evaporative cooler
  - Replacement energy-efficient central air conditioning

# Efficient Product Marketplace

explore  
all categories ▾

Appliance Rebate

## Southern California Edison Marketplace

Get valuable information about smart products, programs, and tools here.

Search by type, brand, model... Search

 Portable Power Stations 

 Lawn Mowers 

 Electric Water Heaters

 Thermostats 

 Connected Homes

 Explore More Categories

- Must be SCE customer
- Find efficient appliances
- Process rebates
- Save money
- Lower your Carbon footprint

# Merced Greenway Project



## Water Quality



## Urban Heat Island



## Public Safety and Health

- Capture stormwater runoff, clean it, prevent it from polluting
- Paved surfaces can be up to 4-5° hotter
- Decreased air quality and increased risk of heat illness
- Extreme heat days are expected to double or triple in the near future
- Cool materials (cool roofs or pavement) can help lower the risk
- Increasing the urban tree canopy can help cool the area
- Changing the way we move around can be part of the solution
  - Biking and walking are great ways to lower pollution and stay healthy
  - Helping solve motor vehicle injuries and accidents

# Merced Greenway Project

## Updates

### Community-Driven Design

**PROJECT UPDATE** Working alongside project partners, the City of South El Monte was awarded \$3 million by the California Natural Resources Agency for the construction of the southern section (From Rush to Lerma) of the Merced Ave Greenway. This couldn't be possible without your support and ongoing feedback to ensure a community-driven design. The design will address several core issues including: water quality, heat reduction, public safety, and livability.

TIMELINE	2020	2021	2022
	<b>SUMMER:</b> Design Completed. <b>FALL:</b> Release Construction Bid Package.	<b>SPRING:</b> Begin Construction.	<b>WINTER:</b> Ribbon Cutting.

**LEARN MORE** To learn more about the specific design elements and project benefits, stop by South El Monte City Hall to see our design boards or visit [www.MercedAveGreenway.org](http://www.MercedAveGreenway.org).

[MercedAveGreenway.org](http://MercedAveGreenway.org) | [mercedavenue@gmail.com](mailto:mercedavenue@gmail.com)

- Timeline - 2020 - 2021 - 2022
- Community Input Driven
- Design to address core issues in the community
- Building climate resilience
- Water, heat, public safety, livability
- Stay connected - [Active SGV](#) & City of [South El Monte](#)

# THANK YOU!

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