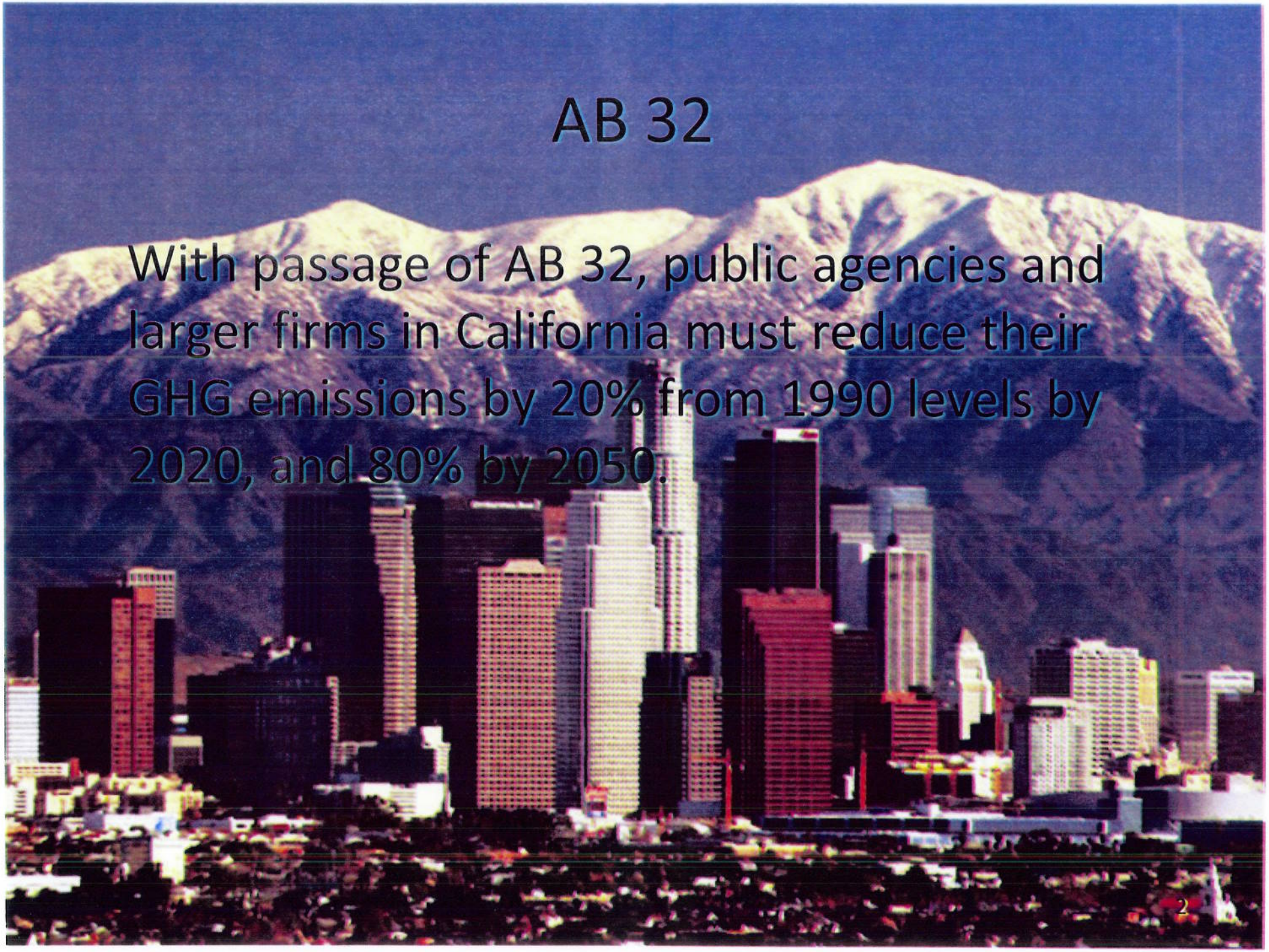
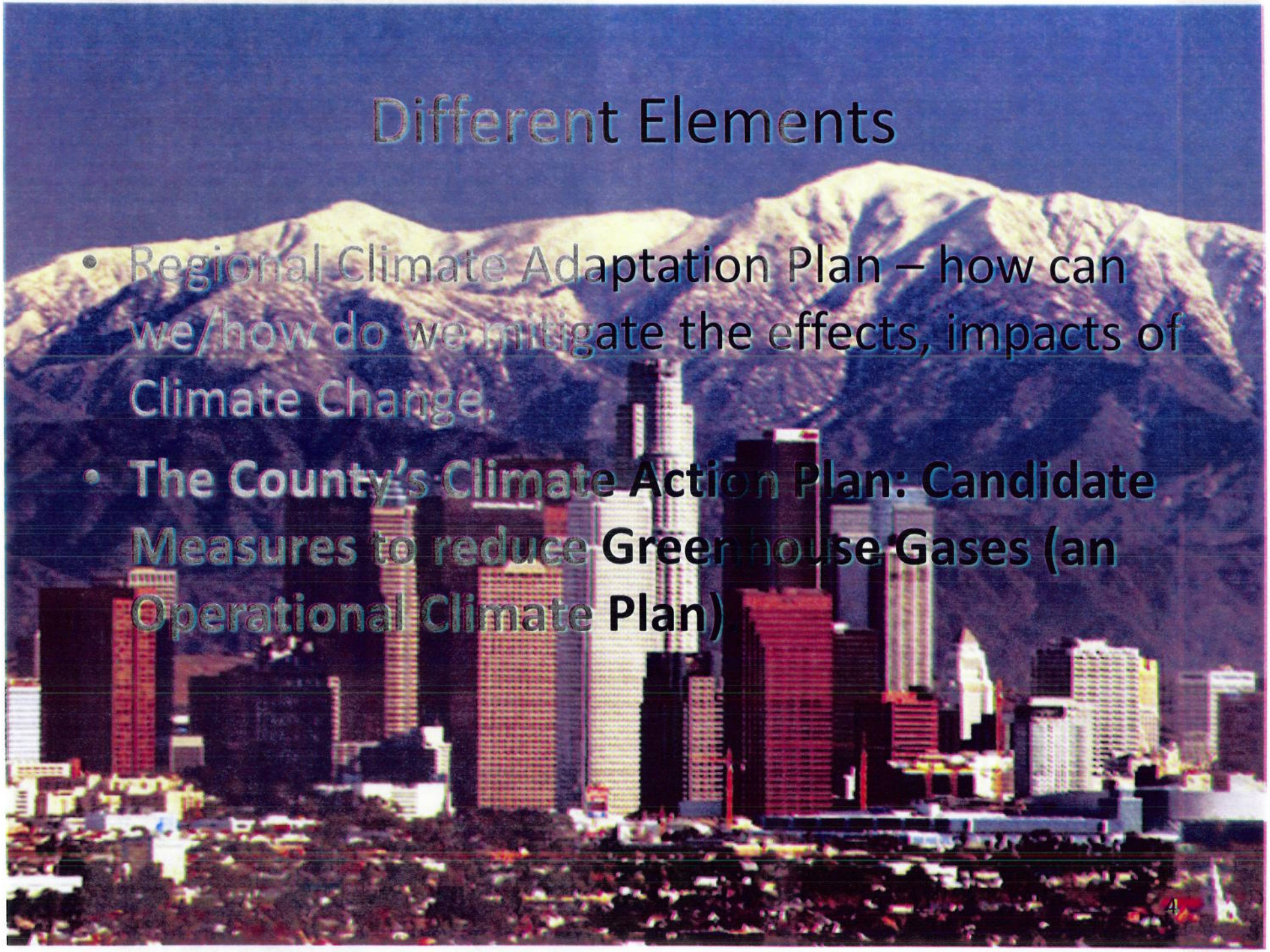
# Los Angeles County GHG Inventory, Forecast, and Candidate Measures


AB 32
With passage of AB 32, public agencies and larger firms in California must reduce their GHG emissions by 20% from 1990 levels by 2020, and 80% by 2050.

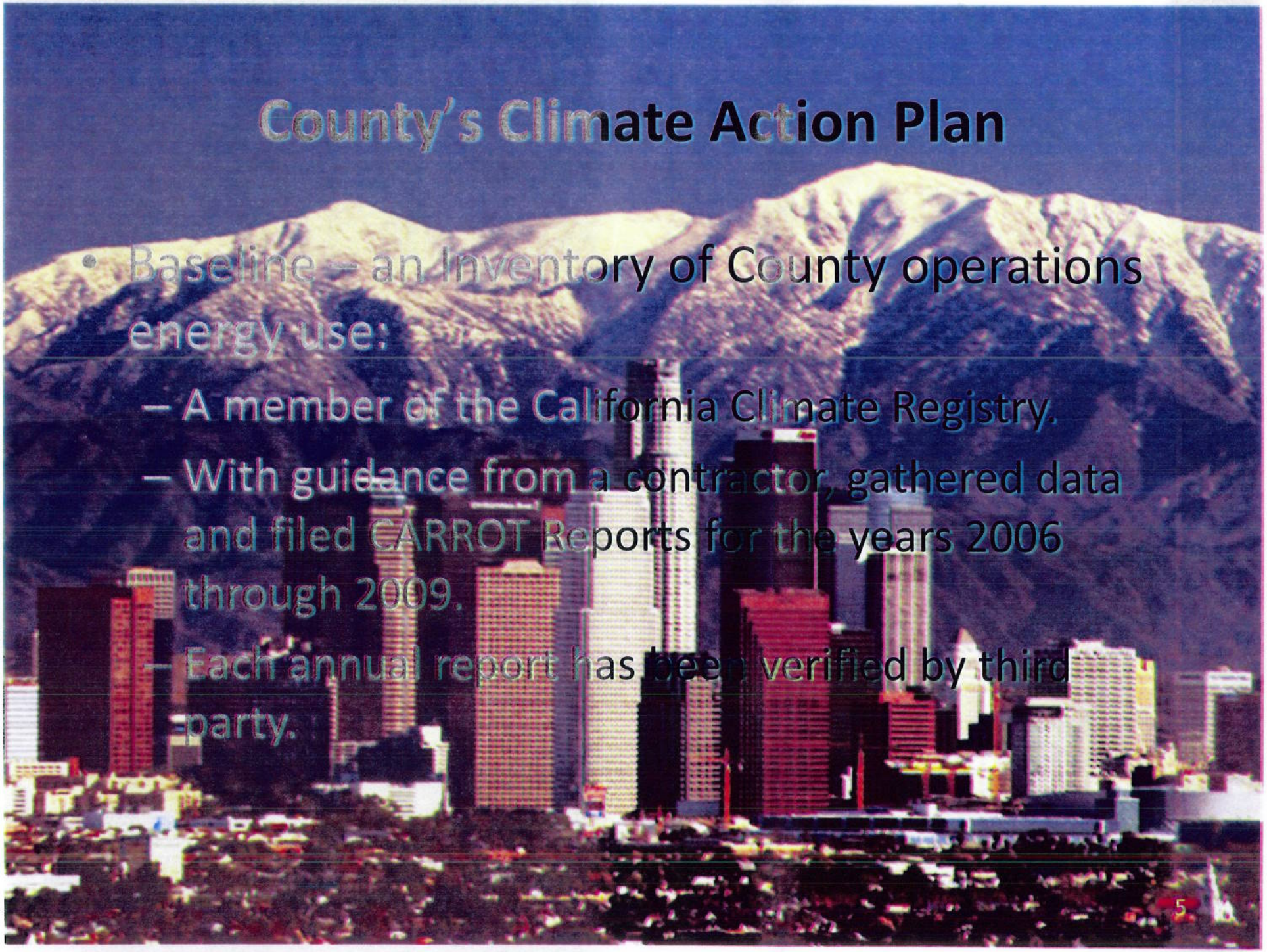
# County of Los Angeles

- The County is 4,061 square miles in size.
- The County has almost 10.4 million residents - 28% of California's population.
- Population has grown 9.4% from 9.5 million in the last decade.
- The County has a larger population than all but 9 states.



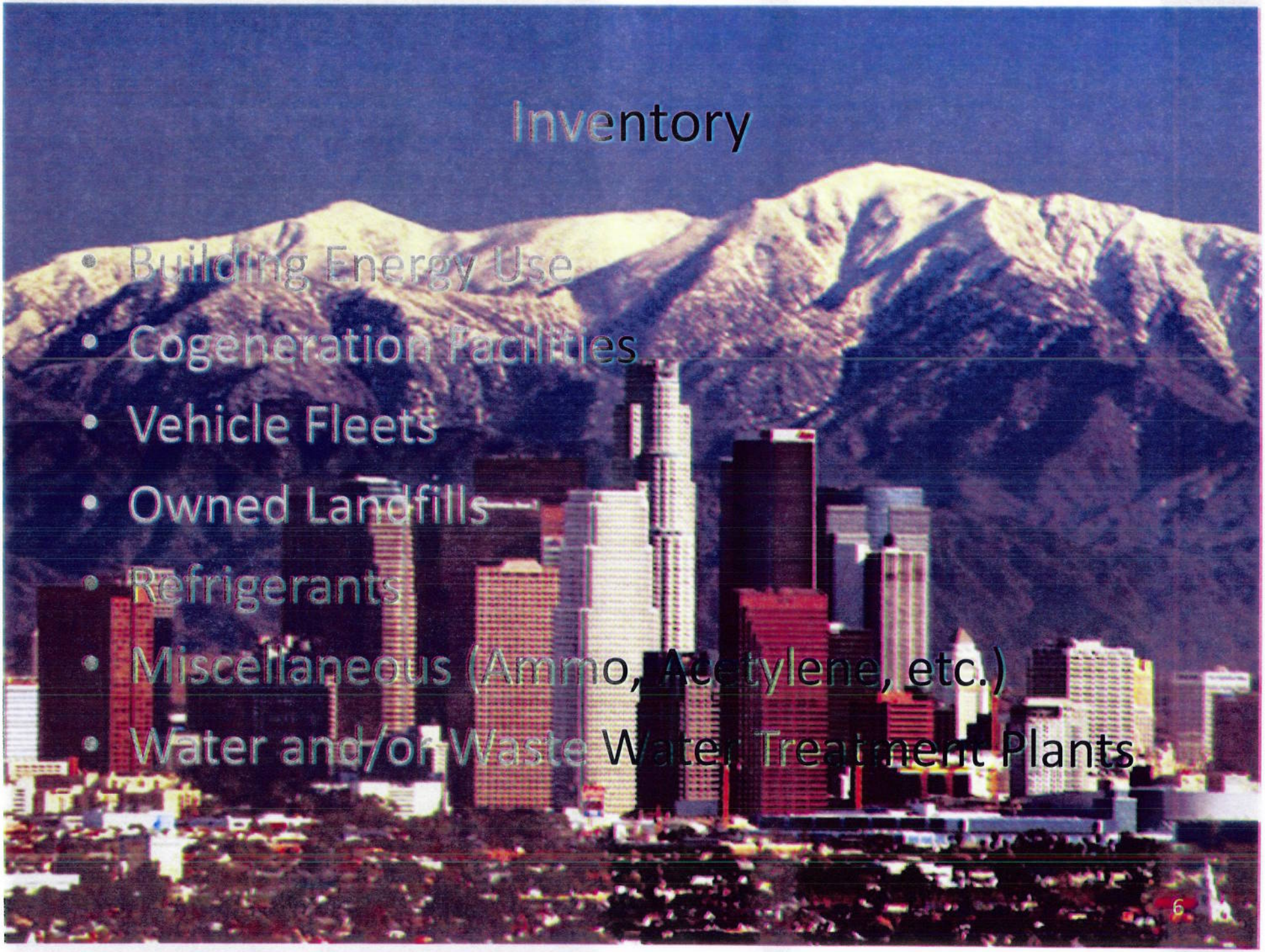
# Different Elements

- Regional Climate Adaptation Plan – how can we/how do we mitigate the effects, impacts of Climate Change.
- **The County's Climate Action Plan: Candidate Measures to reduce Greenhouse Gases (an Operational Climate Plan)**



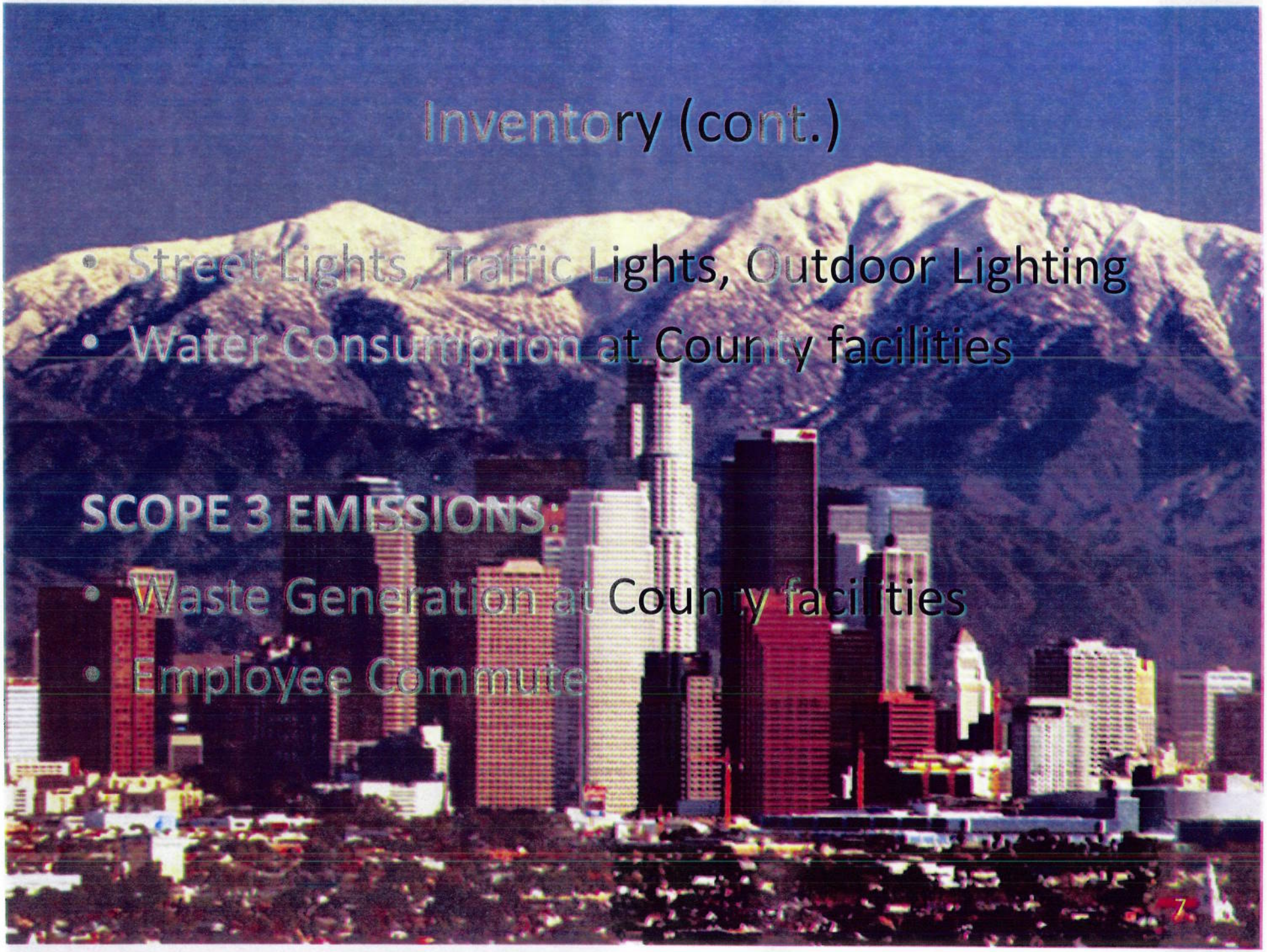
# County's Climate Action Plan

- Baseline – an Inventory of County operations energy use:
  - A member of the California Climate Registry.
  - With guidance from a contractor, gathered data and filed CARROT Reports for the years 2006 through 2009.
  - Each annual report has been verified by third party.



# Inventory

- Building Energy Use
- Cogeneration Facilities
- Vehicle Fleets
- Owned Landfills
- Refrigerants
- Miscellaneous (Ammo, Acetylene, etc.)
- Water and/or Waste Water Treatment Plants



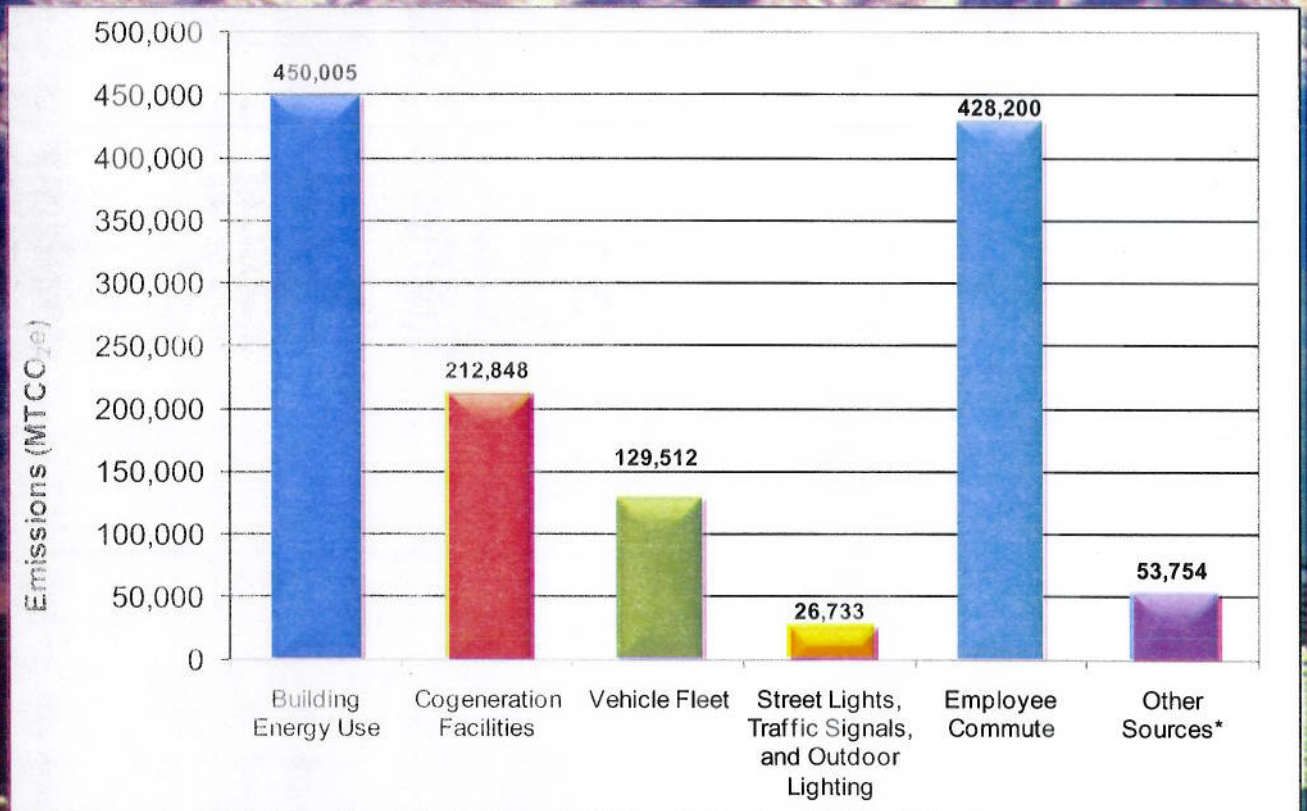
# Inventory (cont.)

- Street Lights, Traffic Lights, Outdoor Lighting
- Water Consumption at County facilities

**SCOPE 3 EMISSIONS:**

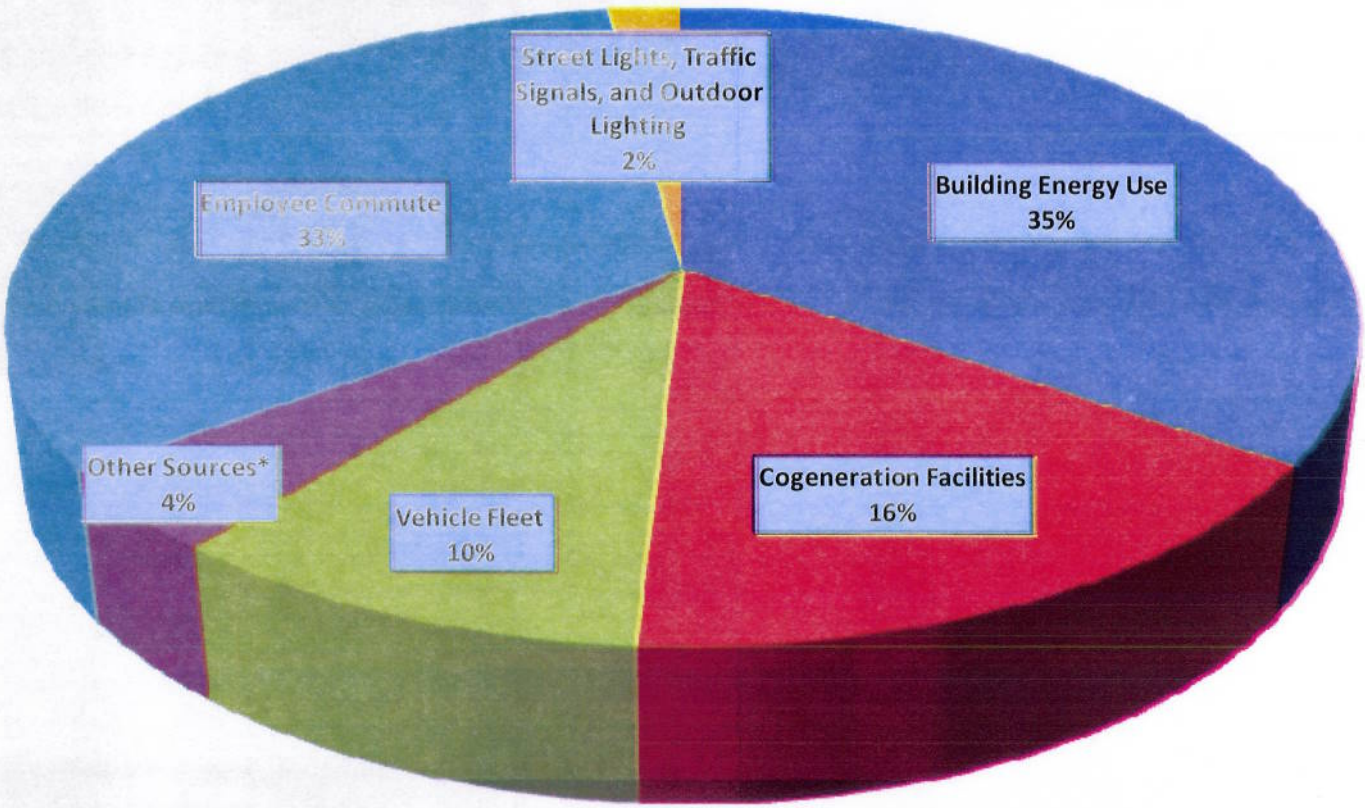
- Waste Generation at County facilities
- Employee Commute

# Los Angeles County 2009 Municipal GHG Inventory




* Other sources include Owned Landfills, Refrigerants, Wastewater Treatment Plants, Water Pumps, Miscellaneous (Ammunition, Ethylene Oxide, CO2, and Acetylene), Waste Generation, and Water Consumption.

# Los Angeles County 2009 Municipal GHG Inventory



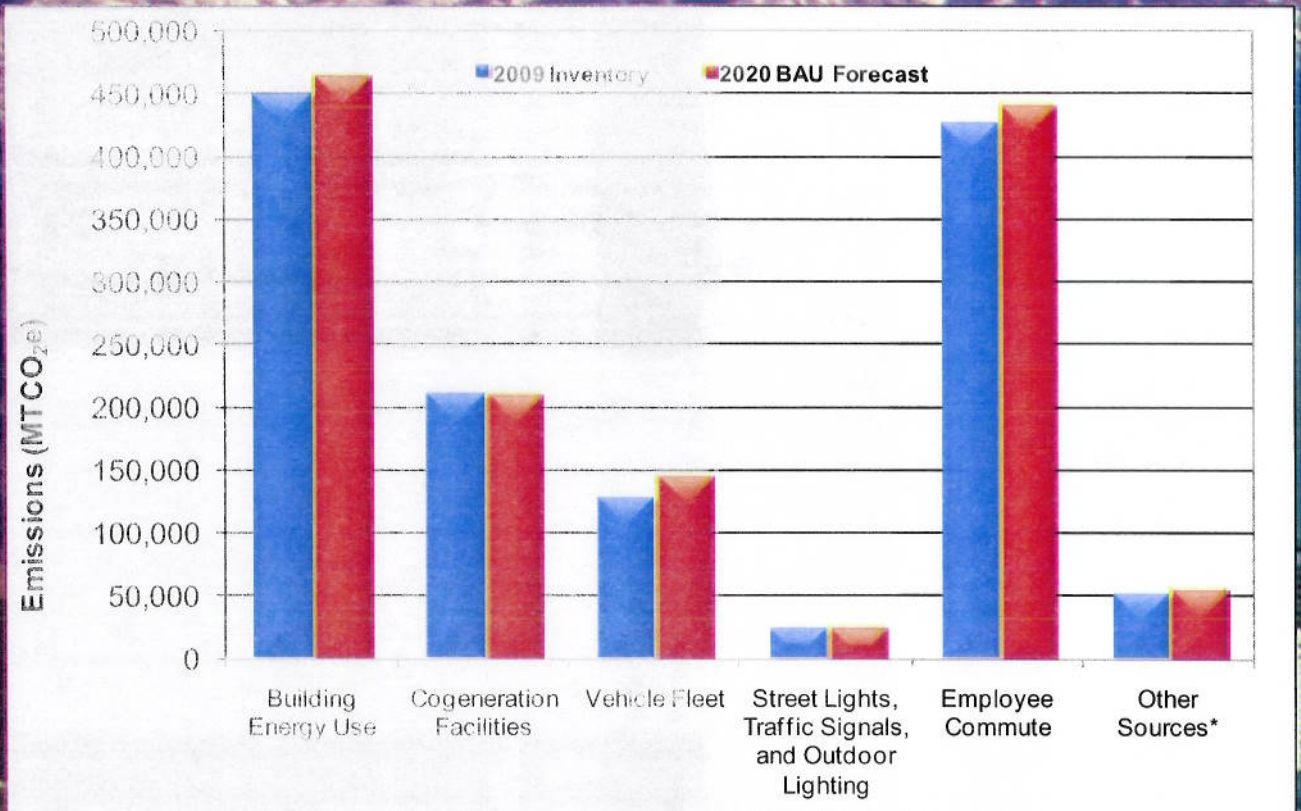

* Other sources include Owned Landfills, Refrigerants, Wastewater Treatment Plants, Water Pumps, Miscellaneous (Ammunition, Ethylene Oxide, $CO_2$, and Acetylene), Waste Generation, and Water Consumption.

# Business As Usual

Anticipated changes (good or bad) and their impacts on emissions from County operations.

- County's population and businesses will continue to grow; and County services (i.e. Sheriff, Fire, etc.) are provided at similar service level.
- Vehicles become even more fuel efficient, decreasing emissions per-mile-traveled; so even if the number of vehicle miles increase, net vehicle emissions may decrease.

# L. A. County 2020 BAU Forecast and 2009 Municipal GHG Inventory Comparison

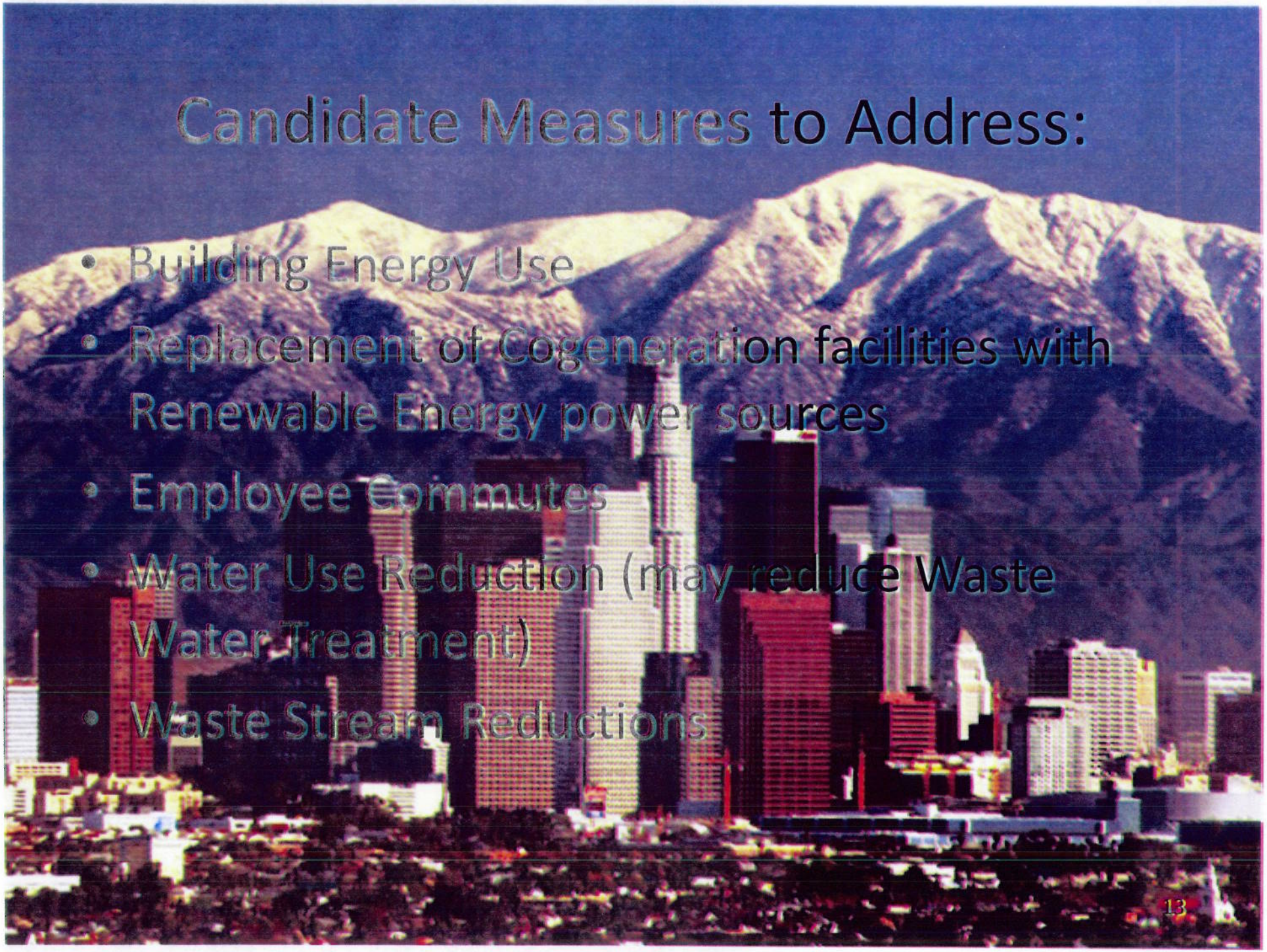


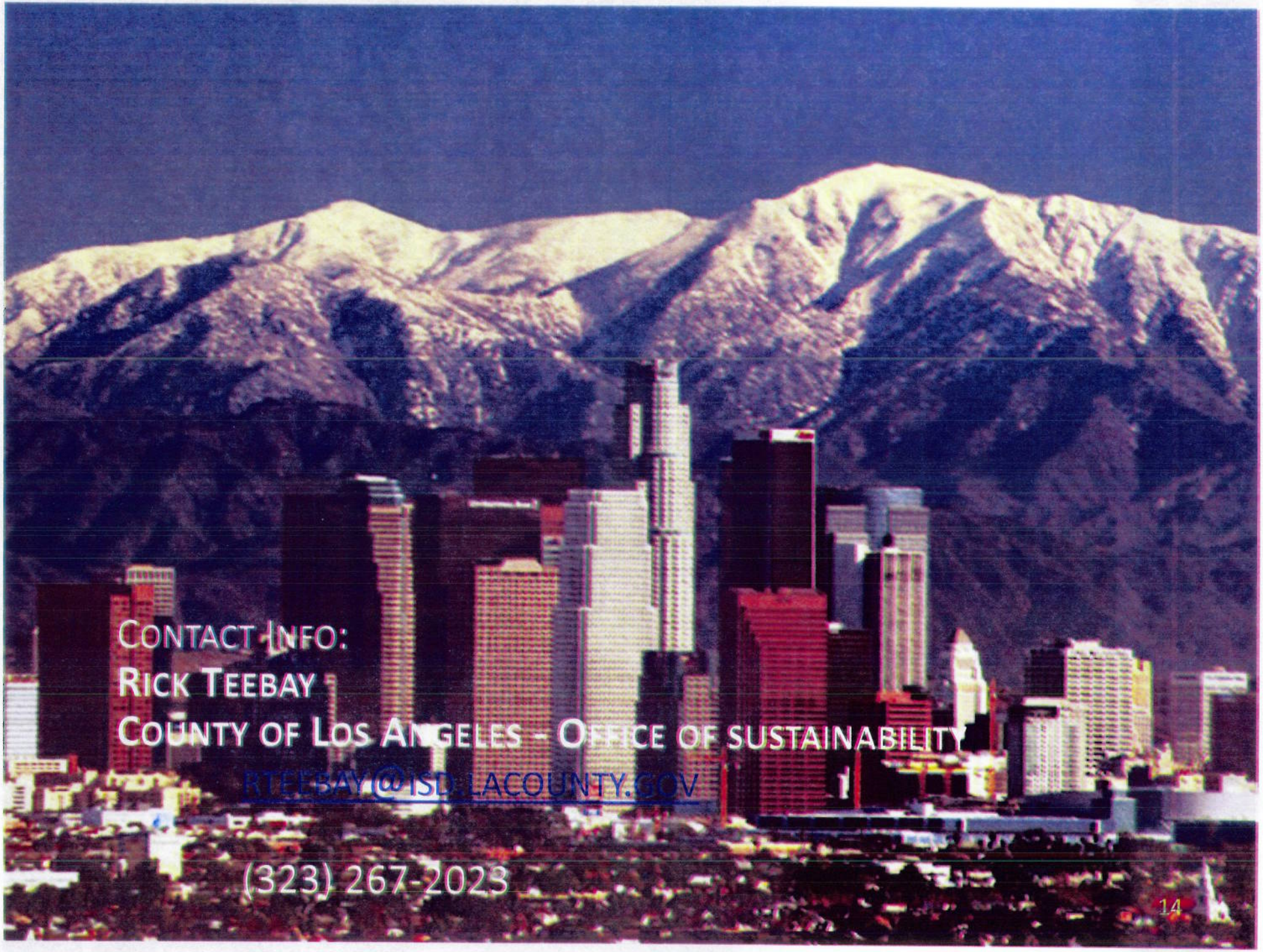

* Other sources include Owned Landfills, Refrigerants, Wastewater Treatment Plants, Water Pumps, Miscellaneous (Ammunition, Ethylene Oxide, CO2, and Acetylene), Waste Generation, and Water Consumption.

# Candidate Measures

Candidate measures are:

- Measures that can be adopted (used without change)
- Measures that can be adapted (used with some change(s))
- Related measures that can serve as models for new measures


Candidate Measures to Address:
• Building Energy Use
• Replacement of Cogeneration facilities with Renewable Energy power sources
• Employee Commutes
• Water Use Reduction (may reduce Waste Water Treatment)
• Waste Stream Reductions


CONTACT INFO:
RICK TEEBAY
COUNTY OF LOS ANGELES - OFFICE OF SUSTAINABILITY
RTEEBAY@ISD.LACOUNTY.GOV
(323) 267-2023